

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

<b>C Number:</b>	R92025B
<b>Cage Range:</b>	All
<b>Date Range:</b>	All
<b>Reasons For Removal:</b>	All
<b>Removal Date Range:</b>	All
<b>Treatment Groups:</b>	All
<b>Study Gender:</b>	Both

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1	<b>TRT#:</b> F0-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD177
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29167

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**TISSUE STATUS**

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**No Visible Lesions**

COAGULATING GLANDS	COWPERS GLANDS	LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER
PITUITARY GLAND	PROSTATE	SEMINAL VESICLES	TESTIS
THYMUS	THYROID GLANDS		

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**OBSERVATIONS**

ADRENAL GLANDS	CORTEX, BILATERAL	VACUOLATION	DIFFUSE, MILD
EPIDIDYMIS		NO MICROSCOPIC CORRELATION	
Tissue Comment: ONLY RIGHT EPIDIDYMIS SUBMITTED. [ NO MICROSCOPIC CORRELATION TGLS = 1-8 ]			
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MILD

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 3	<b>TRT#:</b> F0-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD177
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29075

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**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 5	<b>TRT#:</b> F0-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD177
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29213

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	EPIDIDYMIS	LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE
LIVER	PITUITARY GLAND	PROSTATE	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

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**OBSERVATIONS**

COWPERS GLANDS [ ATROPHY TGLS = 1-9 ]	UNILATERAL	ATROPHY	MILD
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
PREPUTIAL GLANDS [ ECTASIA TGLS = 2-12 ] [ INFLAMMATION, CHRONIC TGLS = 2-12 ]	DUCT UNILATERAL	ECTASIA INFLAMMATION, CHRONIC	MILD ACTIVE, MILD

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 7	<b>TRT#:</b> F0-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD177
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29197

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS		

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**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PREPUTIAL GLANDS		INFLAMMATION, CHRONIC	ACTIVE, MILD
PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MINIMAL
THYROID GLANDS	C-CELL	HYPERPLASIA	FOCAL, MINIMAL

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 9	<b>TRT#:</b> F0-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD177
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29245

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

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**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
PREPUTIAL GLANDS	DUCT	ECTASIA	MILD
		INFLAMMATION, CHRONIC	ACTIVE, MINIMAL
[ ECTASIA TGLS = 1-11 ]			
[ INFLAMMATION, CHRONIC TGLS = 1-11 ]			
PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MINIMAL

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 11	<b>TRT#:</b> F0-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD177
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29165

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**TISSUE STATUS**

**No Visible Lesions**

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COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS	LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE
LIVER	PITUITARY GLAND	SEMINAL VESICLES	TESTIS
THYMUS	THYROID GLANDS		

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**OBSERVATIONS**

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ADRENAL GLANDS	CORTEX, BILATERAL	VACUOLATION	DIFFUSE, MINIMAL
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MINIMAL

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 13	<b>TRT#:</b> F0-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD177
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29125

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**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 15	<b>TRT#:</b> F0-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD177
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29251

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**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE
LIVER	PITUITARY GLAND	SEMINAL VESICLES	THYMUS
THYROID GLANDS			

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**INSUFFICIENT TISSUE**

EPIDIDYMIS	TESTIS
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**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PREPUTIAL GLANDS	DUCT	ECTASIA	MILD
		INFLAMMATION, CHRONIC	ACTIVE, MILD
[ ECTASIA TGLS = 1-11, 2-11 ]			
[ INFLAMMATION, CHRONIC TGLS = 1-11, 2-11 ]			
PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MILD

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 17	<b>TRT#:</b> F0-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD177
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29265

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

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**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
PREPUTIAL GLANDS	DUCT	ECTASIA	MILD
		INFLAMMATION, CHRONIC	ACTIVE, MODERATE

[ ECTASIA TGLS = 1-11 ]

[ INFLAMMATION, CHRONIC TGLS = 1-11 ]

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 19	<b>TRT#:</b> F0-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD177
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29135

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**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 21	<b>TRT#:</b> F0-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD177
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29183

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**TISSUE STATUS**

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**No Visible Lesions**

COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS	LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE
LIVER	PITUITARY GLAND	PROSTATE	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

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**OBSERVATIONS**

ADRENAL GLANDS	CORTEX	VACUOLATION	FOCAL, MILD
	CORTEX, BILATERAL	VACUOLATION	DIFFUSE, MILD
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MILD

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 23	<b>TRT#:</b> F0-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD177
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29215

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**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 25	<b>TRT#:</b> F0-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD178
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29141

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**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 27	<b>TRT#:</b> F0-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD178
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29107

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**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 29	<b>TRT#:</b> F0-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD178
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29155

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE
LIVER	PITUITARY GLAND	PROSTATE	SEMINAL VESICLES
THYMUS	THYROID GLANDS		

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**OBSERVATIONS**

EPIDIDYMIS	DUCT	EXFOLIATED GERM CELL	MINIMAL
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
PREPUTIAL GLANDS		INFILTRATION	MONONUCLEAR CELL, MINIMAL
		NO MICROSCOPIC CORRELATION	
Tissue Comment: Only left preputial gland submitted. [ NO MICROSCOPIC CORRELATION TGLS = 1-11 ]			
TESTIS	GERM CELL	DEGENERATION	MINIMAL

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 31	<b>TRT#:</b> F0-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD178
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29169

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
KIDNEYS	LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

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**OBSERVATIONS**

PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 33	<b>TRT#:</b> F0-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD178
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29203

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

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**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PREPUTIAL GLANDS	UNILATERAL	ABSCCESS	MODERATE
[ ABSCCESS TGLS = 1-11 ]			

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 35	<b>TRT#:</b> F0-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD178
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29175

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

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**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
PREPUTIAL GLANDS	DUCT	ECTASIA	MILD
		INFLAMMATION, CHRONIC	ACTIVE, MILD

[ ECTASIA TGLS = 1-11 ]

[ INFLAMMATION, CHRONIC TGLS = 1-11 ]

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 37	<b>TRT#:</b> F0-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD178
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29207

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**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MODERATE
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 39	<b>TRT#:</b> F0-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD178
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29117

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

---

**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
PREPUTIAL GLANDS	INFLAMMATION, CHRONIC	ACTIVE, MILD
[ INFLAMMATION, CHRONIC TGLS = 1-11 ]		

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 41	<b>TRT#:</b> F0-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD178
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29179

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**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 43	<b>TRT#:</b> F0-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD178
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29095

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	THYMUS	THYROID GLANDS	

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**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MODERATE
TESTIS	SEMINIFEROUS TUBULE	SPERMATID RETENTION	MINIMAL

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 45	<b>TRT#:</b> F0-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD178
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29289

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	THYMUS	THYROID GLANDS	

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**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
TESTIS	SEMINIFEROUS TUBULE	SPERMATID RETENTION	MINIMAL

---



**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 47	<b>TRT#:</b> F0-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD177
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29085

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**TISSUE STATUS**

---

**No Visible Lesions**

EPIDIDYMIS	TESTIS
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**OBSERVATIONS**

PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE INFILTRATION	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 49	<b>TRT#:</b> F0-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD177
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29271

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**TISSUE STATUS**

---

**No Visible Lesions**

EPIDIDYMIS TESTIS

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**OBSERVATIONS**

PROSTATE VENTRAL LOBE ATROPHY MINIMAL

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 51	<b>TRT#:</b> F0-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD177
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29259

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**TISSUE STATUS**

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**No Visible Lesions**  
EPIDIDYMIS

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**OBSERVATIONS**

PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL
TESTIS	SEMINIFEROUS TUBULE	SPERMATID RETENTION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 53	<b>TRT#:</b> F0-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD177
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29145

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS PROSTATE

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**OBSERVATIONS**

PREPUTIAL GLANDS	DUCT	ECTASIA INFLAMMATION, CHRONIC	MODERATE ACTIVE, MODERATE
[ ECTASIA TGLS = 1-11 ]			
[ INFLAMMATION, CHRONIC TGLS = 1-11 ]			
TESTIS	SEMINIFEROUS TUBULE	SPERMATID RETENTION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 55	<b>TRT#:</b> F0-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD177
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29269

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS TESTIS

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**OBSERVATIONS**

PREPUTIAL GLANDS		INFLAMMATION, CHRONIC	ACTIVE, MILD
[ INFLAMMATION, CHRONIC TGLS = 1-11 ]			
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL
	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 57	<b>TRT#:</b> F0-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD177
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29273

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	PROSTATE	TESTIS
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 59	<b>TRT#:</b> F0-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD177
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29115

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS TESTIS

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**OBSERVATIONS**

PROSTATE VENTRAL LOBE ATROPHY MINIMAL

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 61	<b>TRT#:</b> F0-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD177
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29113

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS TESTIS

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**OBSERVATIONS**

PREPUTIAL GLANDS	DUCT	ECTASIA INFLAMMATION, CHRONIC	MILD ACTIVE, MILD
[ ECTASIA TGLS = 1-11 ]			
[ INFLAMMATION, CHRONIC TGLS = 1-11 ]			
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL

---



**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 63	<b>TRT#:</b> F0-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD177
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29231

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	PROSTATE	TESTIS
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 65	<b>TRT#:</b> F0-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD177
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29211

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	PROSTATE	TESTIS
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 67	<b>TRT#:</b> F0-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD177
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29159

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS TESTIS

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**OBSERVATIONS**

PROSTATE VENTRAL LOBE ATROPHY MINIMAL

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 69	<b>TRT#:</b> F0-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD178
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29123

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS TESTIS

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**OBSERVATIONS**

PREPUTIAL GLANDS	DUCT	ECTASIA INFLAMMATION, CHRONIC	MODERATE ACTIVE, MILD
[ ECTASIA TGLS = 1-11 ]			
[ INFLAMMATION, CHRONIC TGLS = 1-11 ]			
PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 71	<b>TRT#:</b> F0-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD178
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29275

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	PROSTATE	TESTIS
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 73	<b>TRT#:</b> F0-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD178
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29077

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	PROSTATE	TESTIS
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 75	<b>TRT#:</b> F0-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD178
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29071

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	PROSTATE	TESTIS
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 77	<b>TRT#:</b> F0-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD178
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29243

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS TESTIS

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**OBSERVATIONS**

PREPUTIAL GLANDS	DUCT	ECTASIA INFLAMMATION, CHRONIC	MODERATE ACTIVE, MILD
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[ ECTASIA TGLS = 1-11 ]

[ INFLAMMATION, CHRONIC TGLS = 1-11 ]

PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 79	<b>TRT#:</b> F0-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD178
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29191

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS

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**OBSERVATIONS**

PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MINIMAL
TESTIS	SEMINIFEROUS TUBULE	SPERMATID RETENTION	MINIMAL

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 81	<b>TRT#:</b> F0-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD178
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29163

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS TESTIS

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**OBSERVATIONS**

PREPUTIAL GLANDS	DUCT	ECTASIA INFLAMMATION	MODERATE MINIMAL
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[ ECTASIA TGLS = 1-11 ]

[ INFLAMMATION TGLS = 1-11 ]

PROSTATE	VENTRAL LOBE	INFLAMMATION	CHRONIC ACTIVE, MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 83	<b>TRT#:</b> F0-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD178
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29129

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	PROSTATE	TESTIS
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 85	<b>TRT#:</b> F0-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD178
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29279

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	PROSTATE	TESTIS
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 87	<b>TRT#:</b> F0-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD178
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29091

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**TISSUE STATUS**

---

**No Visible Lesions**

EPIDIDYMIS TESTIS

---

**OBSERVATIONS**

PROSTATE VENTRAL LOBE ATROPHY MINIMAL

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 89	<b>TRT#:</b> F0-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD178
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29241

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	TESTIS
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**OBSERVATIONS**

PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE INFILTRATION	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 91	<b>TRT#:</b> F0-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD178
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29201

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**TISSUE STATUS**

---

**No Visible Lesions**

EPIDIDYMIS TESTIS

---

**OBSERVATIONS**

PROSTATE VENTRAL LOBE ATROPHY MINIMAL

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 93	<b>TRT#:</b> F0-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD177
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29235

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL

---



**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 95	<b>TRT#:</b> F0-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD177
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29281

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	PITUITARY GLAND	SEMINAL VESICLES	TESTIS
THYMUS	THYROID GLANDS		

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**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
LIVER		CLEAR CELL FOCUS	
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 97	<b>TRT#:</b> F0-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD177
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29217

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**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 99	<b>TRT#:</b> F0-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD177
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29151

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**TISSUE STATUS**

---

**No Visible Lesions**

COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS	LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE
PITUITARY GLAND	SEMINAL VESICLES	TESTIS	THYMUS
THYROID GLANDS			

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**OBSERVATIONS**

ADRENAL GLANDS	CORTEX, BILATERAL	VACUOLATION	DIFFUSE, MILD
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER		CLEAR CELL FOCUS	
PROSTATE	VENTRAL LOBE	ATROPHY	MILD

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 101	<b>TRT#:</b> F0-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD56
<b>GENERATION:</b> F0			<b>DISP:</b> Euthanized Due to Dam Death/Sacrifice	<b>HISTO:</b> 29089

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**TISSUE STATUS**

**No Visible Lesions**

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ADRENAL GLANDS	COAGULATING GLANDS	EPIDIDYMIS	KIDNEYS
LIVER	PITUITARY GLAND	SEMINAL VESICLES	TESTIS
THYMUS	THYROID GLANDS		

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**OBSERVATIONS**

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PROSTATE	VENTRAL LOBE	ATROPHY	MILD
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 103	<b>TRT#:</b> F0-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD177
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29233

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	PITUITARY GLAND	SEMINAL VESICLES	TESTIS
THYMUS	THYROID GLANDS		

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER		INFLAMMATION, CHRONIC	ACTIVE, FOCAL, MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 105	<b>TRT#:</b> F0-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD14
<b>GENERATION:</b> F0			<b>DISP:</b> Euthanized Due to Dam Death/Sacrifice	<b>HISTO:</b> 29189

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**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS  
PITUITARY GLAND  
THYROID GLANDS

COAGULATING GLANDS  
SEMINAL VESICLES

EPIDIDYMIS  
TESTIS

LIVER  
THYMUS

**OBSERVATIONS**

KIDNEYS  
PROSTATE

VENTRAL LOBE

NEPHROPATHY, CHRONIC PROGRESSIVE  
ATROPHY

MINIMAL  
MINIMAL

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 107	<b>TRT#:</b> F0-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD177
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29199

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**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 109	<b>TRT#:</b> F0-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD177
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29255

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	PITUITARY GLAND	SEMINAL VESICLES	TESTIS
THYMUS	THYROID GLANDS		

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER	CENTRILOBULAR	NECROSIS	DIFFUSE, MODERATE
[ NECROSIS TGLS = 1-3 ]			
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL

---



**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 111	<b>TRT#:</b> F0-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD177
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29193

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
KIDNEYS	LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

LIVER		HEPATODIAPHRAGMATIC NODULE	MODERATE
[ HEPATODIAPHRAGMATIC NODULE TGLS = 1-11 ]			
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 113	<b>TRT#:</b> F0-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD177
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29249

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE
LIVER	PITUITARY GLAND	SEMINAL VESICLES	THYMUS
THYROID GLANDS			

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**OBSERVATIONS**

EPIDIDYMIS	DUCT	EXFOLIATED GERM CELL	MINIMAL
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL
TESTIS	GERM CELL	DEGENERATION	MINIMAL
	SEMIFEROUS TUBULE	SPERMATID RETENTION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 115	<b>TRT#:</b> F0-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD177
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29219

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 117	<b>TRT#:</b> F0-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD178
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29143

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**TISSUE STATUS**

**No Visible Lesions**

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ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

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KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 119	<b>TRT#:</b> F0-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD178
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29257

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	PITUITARY GLAND	SEMINAL VESICLES	TESTIS
THYMUS	THYROID GLANDS		

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**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER		BASOPHILIC FOCUS	
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 121	<b>TRT#:</b> F0-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD178
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29103

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	PITUITARY GLAND	SEMINAL VESICLES	TESTIS
THYMUS	THYROID GLANDS		

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER		CLEAR CELL FOCUS	
	PERIPORTAL, LYMPHOCYTE	INFILTRATION	FOCAL, MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 123	<b>TRT#:</b> F0-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD178
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29139

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
KIDNEYS	LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND
SEMINAL VESICLES	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL
TESTIS	GERM CELL	DEGENERATION	MINIMAL

---





**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 127	<b>TRT#:</b> F0-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD178
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29177

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	KIDNEYS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
THYMUS	THYROID GLANDS		

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**OBSERVATIONS**

EPIDIDYMIS	DUCT, RIGHT	EXFOLIATED GERM CELL HYOSPERMIA	MILD MILD
[ EXFOLIATED GERM CELL TGLS = 1-8 ] [ HYOSPERMIA TGLS = 1-8 ]			
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL
TESTIS	GERM CELL	DEGENERATION	MODERATE

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 129	<b>TRT#:</b> F0-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD178
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29079

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**TISSUE STATUS**

---

**No Visible Lesions**

COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS	LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE
LIVER	PITUITARY GLAND	SEMINAL VESICLES	TESTIS
THYMUS	THYROID GLANDS		

---

**OBSERVATIONS**

ADRENAL GLANDS	CORTEX	VACUOLATION	FOCAL, MINIMAL
	CORTEX, BILATERAL	VACUOLATION	DIFFUSE, MINIMAL
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 131	<b>TRT#:</b> F0-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD178
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29283

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**TISSUE STATUS**

---

**No Visible Lesions**

COAGULATING GLANDS	COWPERS GLANDS	LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	PITUITARY GLAND
SEMINAL VESICLES	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

ADRENAL GLANDS	CORTEX, BILATERAL	VACUOLATION	DIFFUSE, MINIMAL
EPIDIDYMIS	DUCT	EXFOLIATED GERM CELL	MILD
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER	CENTRIOBULAR	NECROSIS	FOCAL, MODERATE
[ NECROSIS TGLS = 1-11 ]			
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL
TESTIS	GERM CELL	DEGENERATION	MILD

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 133	<b>TRT#:</b> F0-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD178
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29205

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

KIDNEYS	PELVIS	CONCRETION	FOCAL, MINIMAL
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 135	<b>TRT#:</b> F0-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD178
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29221

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	PITUITARY GLAND	SEMINAL VESICLES	TESTIS
THYMUS	THYROID GLANDS		

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER	PERIPORTAL, LYMPHOCYTE	INFILTRATION	FOCAL, MINIMAL
PREPUTIAL GLANDS	DUCT	ECTASIA	MODERATE
[ ECTASIA TGLS = 1-11 ]			
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 137	<b>TRT#:</b> F0-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD178
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29083

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 139	<b>TRT#:</b> F0-4	<b>DOSE:</b> 5000 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD56
<b>GENERATION:</b> F0			<b>DISP:</b> Euthanized Due to Dam Death/Sacrifice	<b>HISTO:</b> 29237

---

**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS  
SEMINAL VESICLES

COAGULATING GLANDS  
THYMUS

EPIDIDYMIS  
THYROID GLANDS

PITUITARY GLAND

**OBSERVATIONS**

KIDNEYS

LIVER

PROSTATE

TESTIS

CENTRIOBULAR, HEPATOCYTE

VENTRAL LOBE

SEMINIFEROUS TUBULE, BILATERAL

NEPHROPATHY, CHRONIC PROGRESSIVE

VACUOLATION

ATROPHY

SPERMATID RETENTION

MINIMAL

CYTOPLASMIC, MILD

MODERATE

MILD

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 141	<b>TRT#:</b> F0-4	<b>DOSE:</b> 5000 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD177
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29171

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**TISSUE STATUS**

---

**No Visible Lesions**

COAGULATING GLANDS	COWPERS GLANDS	LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	PITUITARY GLAND
SEMINAL VESICLES	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

ADRENAL GLANDS	CORTEX	HYPERTROPHY	FOCAL, MILD
EPIDIDYMIS	DUCT	EXFOLIATED GERM CELL	MILD
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER	CENTRILOBULAR, HEPATOCYTE	VACUOLATION	CYTOPLASMIC, MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MODERATE
TESTIS	GERM CELL	DEGENERATION	MILD

---



**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 143	<b>TRT#:</b> F0-4	<b>DOSE:</b> 5000 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD177
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29161

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	PITUITARY GLAND	SEMINAL VESICLES	TESTIS
THYMUS	THYROID GLANDS		

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER	CENTRILOBULAR, HEPATOCYTE	VACUOLATION	CYTOPLASMIC, MILD
PREPUTIAL GLANDS	DUCT	ECTASIA	MODERATE
		INFLAMMATION, CHRONIC	ACTIVE, MODERATE
[ ECTASIA TGLS = 1-11 ]			
[ INFLAMMATION, CHRONIC TGLS = 1-11 ]			
PROSTATE	VENTRAL LOBE	ATROPHY	MODERATE

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 145	<b>TRT#:</b> F0-4	<b>DOSE:</b> 5000 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD177
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29101

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	PITUITARY GLAND	SEMINAL VESICLES	THYMUS
THYROID GLANDS			

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER	CENTRILOBULAR, HEPATOCYTE	VACUOLATION	CYTOPLASMIC, MILD
PROSTATE	VENTRAL LOBE	ATROPHY	MILD
TESTIS	GERM CELL	DEGENERATION	MINIMAL
	SEMIFEROUS TUBULE	SPERMATID RETENTION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 147	<b>TRT#:</b> F0-4	<b>DOSE:</b> 5000 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD177
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29149

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**TISSUE STATUS**

---

**No Visible Lesions**

COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS	LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE
PITUITARY GLAND	SEMINAL VESICLES	TESTIS	THYMUS
THYROID GLANDS			

---

**OBSERVATIONS**

ADRENAL GLANDS	CORTEX	VACUOLATION	FOCAL, MINIMAL
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER	CENTRILOBULAR, HEPATOCYTE	VACUOLATION	CYTOPLASMIC, MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MODERATE

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 149	<b>TRT#:</b> F0-4	<b>DOSE:</b> 5000 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD177
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29253

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE
PITUITARY GLAND	SEMINAL VESICLES	THYMUS	THYROID GLANDS

---

**OBSERVATIONS**

EPIDIDYMIS	DUCT	EXFOLIATED GERM CELL	MINIMAL
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
LIVER	CENTRILOBULAR, HEPATOCYTE	VACUOLATION	CYTOPLASMIC, MODERATE
PROSTATE	VENTRAL LOBE	ATROPHY	MODERATE
TESTIS	GERM CELL	DEGENERATION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 151	<b>TRT#:</b> F0-4	<b>DOSE:</b> 5000 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD177
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29195

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**TISSUE STATUS**

**No Visible Lesions**

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ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE
LIVER	PITUITARY GLAND	SEMINAL VESICLES	THYMUS
THYROID GLANDS			

---

**OBSERVATIONS**

---

EPIDIDYMIS	DUCT	EXFOLIATED GERM CELL	MINIMAL
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MODERATE
TESTIS	GERM CELL	DEGENERATION	MILD

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 153	<b>TRT#:</b> F0-4	<b>DOSE:</b> 5000 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD177
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29105

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE
PITUITARY GLAND	SEMINAL VESICLES	THYMUS	THYROID GLANDS

---

**OBSERVATIONS**

EPIDIDYMIS	DUCT	EXFOLIATED GERM CELL	MINIMAL
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER	CENTRIOBULAR, HEPATOCYTE	VACUOLATION	CYTOPLASMIC, MODERATE
PROSTATE	VENTRAL LOBE	ATROPHY	MODERATE
TESTIS	GERM CELL	DEGENERATION	MINIMAL
	SEMIFEROUS TUBULE	SPERMATID RETENTION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 155	<b>TRT#:</b> F0-4	<b>DOSE:</b> 5000 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD177
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29073

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE
PITUITARY GLAND	SEMINAL VESICLES	THYMUS	THYROID GLANDS

---

**OBSERVATIONS**

EPIDIDYMIS	DUCT	EXFOLIATED GERM CELL	MINIMAL
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER	CENTRIOBULAR, HEPATOCYTE	VACUOLATION	CYTOPLASMIC, MILD
PROSTATE	VENTRAL LOBE	ATROPHY	MODERATE
TESTIS	GERM CELL	DEGENERATION	MILD

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 157	<b>TRT#:</b> F0-4	<b>DOSE:</b> 5000 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD177
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29097

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**TISSUE STATUS**

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**No Visible Lesions**

COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS	LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE
PITUITARY GLAND	SEMINAL VESICLES	THYMUS	THYROID GLANDS

---

**OBSERVATIONS**

ADRENAL GLANDS	CORTEX	HYPERTROPHY	FOCAL, MILD
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER	CENTRIOBULAR, HEPATOCYTE	VACUOLATION	CYTOPLASMIC, MILD
PREPUTIAL GLANDS	DUCT	ECTASIA	MILD
[ ECTASIA TGLS = 1-11 ]			
PROSTATE	VENTRAL LOBE	ATROPHY	MILD
TESTIS	GERMINAL EPITHELIUM	ATROPHY	MINIMAL

---



**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 159	<b>TRT#:</b> F0-4	<b>DOSE:</b> 5000 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD177
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29263

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	PITUITARY GLAND	SEMINAL VESICLES	THYMUS
THYROID GLANDS			

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER	CENTRILOBULAR, HEPATOCYTE	VACUOLATION	CYTOPLASMIC, MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MILD
TESTIS	SEMINIFEROUS TUBULE	SPERMATID RETENTION	MILD

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 161	<b>TRT#:</b> F0-4	<b>DOSE:</b> 5000 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD178
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29087

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**TISSUE STATUS**

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**No Visible Lesions**

COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS	LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE
PITUITARY GLAND	SEMINAL VESICLES	THYMUS	THYROID GLANDS

---

**OBSERVATIONS**

ADRENAL GLANDS	CORTEX	VACUOLATION	FOCAL, MINIMAL
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER	CENTRIOBULAR, HEPATOCYTE	VACUOLATION	CYTOPLASMIC, MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MILD
TESTIS	SEMINIFEROUS TUBULE	SPERMATID RETENTION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 163	<b>TRT#:</b> F0-4	<b>DOSE:</b> 5000 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD178
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29081

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**TISSUE STATUS**

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**No Visible Lesions**

COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS	LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE
LIVER	PITUITARY GLAND	SEMINAL VESICLES	TESTIS
THYMUS	THYROID GLANDS		

---

**OBSERVATIONS**

ADRENAL GLANDS	CORTEX	HYPERTROPHY	FOCAL, MILD
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PREPUTIAL GLANDS	DUCT	ECTASIA	MILD
[ ECTASIA TGLS = 2-11 ]			
PROSTATE	VENTRAL LOBE	ATROPHY	MARKED
[ ATROPHY TGLS = 1-9 ]			

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 165	<b>TRT#:</b> F0-4	<b>DOSE:</b> 5000 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD178
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29147

---

**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	PITUITARY GLAND	SEMINAL VESICLES	THYMUS
THYROID GLANDS			

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER	CENTRILOBULAR, HEPATOCYTE	VACUOLATION	CYTOPLASMIC, MODERATE
PROSTATE	VENTRAL LOBE	ATROPHY	MILD
TESTIS	SEMINIFEROUS TUBULE	SPERMATID RETENTION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 167	<b>TRT#:</b> F0-4	<b>DOSE:</b> 5000 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD178
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29267

---

**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	PITUITARY GLAND	SEMINAL VESICLES	TESTIS
THYMUS	THYROID GLANDS		

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER	CENTRIOBULAR, HEPATOCYTE	VACUOLATION	CYTOPLASMIC, MILD
PROSTATE	VENTRAL LOBE	ATROPHY	MILD

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 169	<b>TRT#:</b> F0-4	<b>DOSE:</b> 5000 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD178
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29137

---

**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	PITUITARY GLAND	SEMINAL VESICLES	TESTIS
THYMUS	THYROID GLANDS		

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER	CENTRIOBULAR, HEPATOCYTE	VACUOLATION	CYTOPLASMIC, MILD
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 171	<b>TRT#:</b> F0-4	<b>DOSE:</b> 5000 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD178
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29277

---

**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MODERATE

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 173	<b>TRT#:</b> F0-4	<b>DOSE:</b> 5000 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD56
<b>GENERATION:</b> F0			<b>DISP:</b> Euthanized Due to Dam Death/Sacrifice	<b>HISTO:</b> 29173

---

**TISSUE STATUS**

**No Visible Lesions**

---

ADRENAL GLANDS	COAGULATING GLANDS	EPIDIDYMIS	PITUITARY GLAND
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

---

**OBSERVATIONS**

---

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER	CENTRIOBULAR, HEPATOCYTE	VACUOLATION	CYTOPLASMIC, MILD
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL

---



**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 175	<b>TRT#:</b> F0-4	<b>DOSE:</b> 5000 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD178
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29291

---

**TISSUE STATUS**

**No Visible Lesions**

---

COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS	LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE
PITUITARY GLAND	SEMINAL VESICLES	TESTIS	THYMUS
THYROID GLANDS			

---

**OBSERVATIONS**

---

ADRENAL GLANDS	CORTEX	VACUOLATION	FOCAL, MINIMAL
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER	CENTRILOBULAR, HEPATOCYTE	VACUOLATION	CYTOPLASMIC, MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MILD

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 177	<b>TRT#:</b> F0-4	<b>DOSE:</b> 5000 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD178
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29209

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	PITUITARY GLAND	SEMINAL VESICLES	TESTIS
THYMUS	THYROID GLANDS		

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
LIVER	CENTRIOBULAR, HEPATOCYTE	VACUOLATION	CYTOPLASMIC, MODERATE
PROSTATE	VENTRAL LOBE	ATROPHY	MODERATE

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 179	<b>TRT#:</b> F0-4	<b>DOSE:</b> 5000 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD178
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29133

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE
PITUITARY GLAND	SEMINAL VESICLES	THYMUS	THYROID GLANDS

---

**OBSERVATIONS**

EPIDIDYMIS	DUCT	EXFOLIATED GERM CELL	MINIMAL
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
LIVER		NO MICROSCOPIC CORRELATION	
	CENTRIOBULAR, HEPATOCYTE	VACUOLATION	CYTOPLASMIC, MILD
[ NO MICROSCOPIC CORRELATION TGLS = 1-3 ]			
PROSTATE	VENTRAL LOBE	ATROPHY	MODERATE
TESTIS	GERM CELL	DEGENERATION	MILD
	SEMIFEROUS TUBULE	SPERMATID RETENTION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 181	<b>TRT#:</b> F0-4	<b>DOSE:</b> 5000 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD178
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29153

---

**TISSUE STATUS**

---

**No Visible Lesions**

COAGULATING GLANDS	COWPERS GLANDS	LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER
SEMINAL VESICLES	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

ADRENAL GLANDS	CORTEX	VACUOLATION	FOCAL, MINIMAL
EPIDIDYMIS	DUCT	EXFOLIATED GERM CELL	MILD
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PITUITARY GLAND	PARS DISTALIS	CYST	
PREPUTIAL GLANDS	DUCT	ECTASIA	MILD
		INFLAMMATION, CHRONIC	ACTIVE, MILD
	[ ECTASIA TGLS = 1-11 ]		
	[ INFLAMMATION, CHRONIC TGLS = 1-11 ]		
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL
TESTIS	GERM CELL	DEGENERATION	MILD
	SEMINIFEROUS TUBULE	SPERMATID RETENTION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 183	<b>TRT#:</b> F0-4	<b>DOSE:</b> 5000 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> SD178
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29229

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**TISSUE STATUS**

---

**No Visible Lesions**

COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS	KIDNEYS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	PITUITARY GLAND	SEMINAL VESICLES	TESTIS
THYMUS	THYROID GLANDS		

---

**OBSERVATIONS**

ADRENAL GLANDS	CORTEX	VACUOLATION	FOCAL, MINIMAL
LIVER	CENTRILOBULAR, HEPATOCYTE	VACUOLATION	CYTOPLASMIC, MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 2	<b>TRT#:</b> F0-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD219
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29158

---

**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	OVARIES
PITUITARY GLAND	THYMUS	THYROID GLANDS	UTERUS
VAGINA			

---

**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
---------	----------------------------------	---------

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 4	<b>TRT#:</b> F0-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD219
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29110

---

**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	OVARIES
PITUITARY GLAND	THYMUS	THYROID GLANDS	UTERUS
VAGINA			

---

**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
---------	----------------------------------	---------

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 6	<b>TRT#:</b> F0-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD219
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29224

---

**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	CLITORAL GLANDS	LIMB
LIVER	OVARIES	PITUITARY GLAND	SKIN
THYMUS	THYROID GLANDS	UTERUS	

---

**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
VAGINA	MUCIFICATION	MODERATE

---



**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 8	<b>TRT#:</b> F0-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD219
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29082

---

**TISSUE STATUS**

---

**No Visible Lesions**

CERVIX	LIMB	LIVER	OVARIES
PITUITARY GLAND	SKIN	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

---

**OBSERVATIONS**

ADRENAL GLANDS	CORTEX	VACUOLATION	FOCAL, MINIMAL
CLITORAL GLANDS	DUCT	ECTASIA	MARKED
		INFILTRATION	MONONUCLEAR CELL, MILD
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 10	<b>TRT#:</b> F0-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD219
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29222

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**TISSUE STATUS**

---

**No Visible Lesions**

CERVIX	LIVER	OVARIES	PITUITARY GLAND
THYMUS	THYROID GLANDS	UTERUS	VAGINA

---

**OBSERVATIONS**

ADRENAL GLANDS	CORTEX	VACUOLATION	FOCAL, MINIMAL
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MODERATE

---

[ NEPHROPATHY, CHRONIC PROGRESSIVE TGLS = 1-2 ]

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 12	<b>TRT#:</b> F0-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD219
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29106

---

**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	OVARIES
PITUITARY GLAND	THYMUS	THYROID GLANDS	UTERUS

---

**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
VAGINA	MUCIFICATION	MODERATE

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 14	<b>TRT#:</b> F0-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD219
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29186

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS  
OVARIES  
UTERUS

CERVIX  
PITUITARY GLAND

KIDNEYS  
THYMUS

LIVER  
THYROID GLANDS

---

**OBSERVATIONS**

VAGINA

MUCIFICATION

MODERATE

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 16	<b>TRT#:</b> F0-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD219
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29146

---

**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS  
PITUITARY GLAND

CERVIX  
THYMUS

LIVER  
THYROID GLANDS

OVARIES  
UTERUS

---

**OBSERVATIONS**

KIDNEYS  
VAGINA

SUBMUCOSA, LYMPHOCYTE

NEPHROPATHY, CHRONIC PROGRESSIVE  
INFILTRATION  
MUCIFICATION

MINIMAL  
FOCAL, MINIMAL  
MODERATE

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 18	<b>TRT#:</b> F0-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD219
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29236

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	LYMPH NODE, MEDIASTINAL
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS			

---

**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
VAGINA	MUCIFICATION	MODERATE

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 20	<b>TRT#:</b> F0-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD219
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29166

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	OVARIES
PITUITARY GLAND	THYMUS	THYROID GLANDS	UTERUS

---

**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LYMPH NODE, MEDIASTINAL	CONGESTION	MILD
[ CONGESTION TGLS = 1-11, 2-11 ]		
VAGINA	MUCIFICATION	MODERATE

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 22	<b>TRT#:</b> F0-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD219
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29164

---

**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS  
PITUITARY GLAND

CERVIX  
THYMUS

LYMPH NODE, MEDIASTINAL  
THYROID GLANDS

OVARIES  
VAGINA

---

**OBSERVATIONS**

KIDNEYS  
LIVER  
UTERUS

PERIPORTAL, LYMPHOCYTE  
ENDOMETRIUM  
ENDOMETRIUM

NEPHROPATHY, CHRONIC PROGRESSIVE  
INFILTRATION  
HYPERPLASIA  
METAPLASIA

MINIMAL  
FOCAL, MINIMAL  
CYSTIC, MILD  
SQUAMOUS, MINIMAL

---



**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 24	<b>TRT#:</b> F0-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD219
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29116

---

**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS  
OVARIES  
UTERUS

CERVIX  
PITUITARY GLAND  
VAGINA

KIDNEYS  
THYMUS

LIVER  
THYROID GLANDS

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 26	<b>TRT#:</b> F0-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD219
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29098

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	OVARIES
PITUITARY GLAND	THYMUS	THYROID GLANDS	UTERUS
VAGINA			

---

**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 28	<b>TRT#:</b> F0-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD220
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29272

---

**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	OVARIES
PITUITARY GLAND	THYMUS	THYROID GLANDS	UTERUS
VAGINA			

---

**OBSERVATIONS**

BONE	INTERVERTEBRAL DISK	RUPTURE	FOCAL, MARKED
[ RUPTURE TGLS = 1-11 ]			
KIDNEYS	PAPILLA, COLLECTING DUCT	DILATION	MINIMAL
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL

---



**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 32	<b>TRT#:</b> F0-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD220
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29092

---

**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	KIDNEYS	LIVER
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 34	<b>TRT#:</b> F0-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD87
<b>GENERATION:</b> F0			<b>DISP:</b> Euthanized Moribund	<b>HISTO:</b> 29290

---

**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	KIDNEYS	PITUITARY GLAND
THYMUS	THYROID GLANDS	UTERUS	VAGINA

---

**OBSERVATIONS**

LIVER	CONGESTION	DIFFUSE, MILD
[ CONGESTION TGLS = 1-3 ]		
MAMMARY GLANDS	INFILTRATION	BACTERIA, MODERATE
	INFLAMMATION	SUPPURATIVE, MODERATE
	NECROSIS	MODERATE
[ INFLAMMATION TGLS = 2-10, 3-10A ]		
[ NECROSIS TGLS = 2-10, 3-10A ]		
OVARIES	CONGESTION	MILD
[ CONGESTION TGLS = 4-8, 4-9 ]		

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 36	<b>TRT#:</b> F0-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD220
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29200

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS  
PITUITARY GLAND

CERVIX  
THYMUS

LIVER  
THYROID GLANDS

OVARIES  
VAGINA

---

**OBSERVATIONS**

KIDNEYS  
UTERUS

ENDOMETRIUM  
ENDOMETRIUM

NEPHROPATHY, CHRONIC PROGRESSIVE  
HYPERPLASIA  
METAPLASIA

MINIMAL  
CYSTIC, MILD  
SQUAMOUS, MODERATE

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 38	<b>TRT#:</b> F0-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD220
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29292

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	OVARIES
PITUITARY GLAND	THYMUS	THYROID GLANDS	UTERUS
VAGINA			

---

**OBSERVATIONS**

CLITORAL GLANDS	DUCT, UNILATERAL	ECTASIA	MODERATE
[ ECTASIA TGLS = 1-11, 2-11 ]			
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL

---



**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 40	<b>TRT#:</b> F0-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD220
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29206

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**TISSUE STATUS**

---

**No Visible Lesions**

CERVIX	LIVER	OVARIES	PITUITARY GLAND
THYMUS	THYROID GLANDS	UTERUS	VAGINA

---

**OBSERVATIONS**

ADRENAL GLANDS	CORTEX	VACUOLATION	FOCAL, MINIMAL
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 42	<b>TRT#:</b> F0-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD220
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29240

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	PITUITARY GLAND	THYMUS
THYROID GLANDS	UTERUS	VAGINA	

---

**OBSERVATIONS**

KIDNEYS [ NEPHROPATHY, CHRONIC PROGRESSIVE TGLS = 1-2 ]		NEPHROPATHY, CHRONIC PROGRESSIVE	MODERATE
LIVER OVARIES [ NO MICROSCOPIC CORRELATION TGLS = 2-8, 2-9 ]	PERIPORTAL, LYMPHOCYTE	INFILTRATION NO MICROSCOPIC CORRELATION	FOCAL, MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 44	<b>TRT#:</b> F0-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD220
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29210

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	OVARIES
PITUITARY GLAND	THYMUS	THYROID GLANDS	UTERUS

---

**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
VAGINA	MUCIFICATION	MODERATE

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 46	<b>TRT#:</b> F0-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD220
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29248

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS  
OVARIES  
UTERUS

CERVIX  
PITUITARY GLAND  
VAGINA

KIDNEYS  
THYMUS

LIVER  
THYROID GLANDS

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 52	<b>TRT#:</b> F0-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD219
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29144

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**OBSERVATIONS**

CLITORAL GLANDS

DUCT, UNILATERAL  
UNILATERAL

ECTASIA  
INFLAMMATION, CHRONIC  
NO MICROSCOPIC FINDING RECORDED

MODERATE  
ACTIVE, MILD

[ ECTASIA TGLS = 2-10 ]

[ INFLAMMATION, CHRONIC TGLS = 2-10 ]

[ NO MICROSCOPIC FINDING RECORDED TGLS = 1-10 ]

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 58	<b>TRT#:</b> F0-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD219
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29168

---

**OBSERVATIONS**

LIVER	HEPATODIAPHRAGMATIC NODULE	MINIMAL
[ HEPATODIAPHRAGMATIC NODULE TGLS = 1-11 ]		

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 64	<b>TRT#:</b> F0-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD219
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29112

---

**OBSERVATIONS**

CLITORAL GLANDS

DUCT, UNILATERAL  
UNILATERAL

ECTASIA  
INFLAMMATION, CHRONIC

MILD  
ACTIVE, MILD

[ ECTASIA TGLS = 1-11 ]

[ INFLAMMATION, CHRONIC TGLS = 1-11 ]

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 66	<b>TRT#:</b> F0-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD219
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29094

---

**OBSERVATIONS**

LIVER	DEFORMITY	MINIMAL
[ DEFORMITY TGLS = 1-3 ]		

---



**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 72	<b>TRT#:</b> F0-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD220
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29194

---

**OBSERVATIONS**

UTERUS	HORN, ENDOMETRIUM	POLYP	STROMAL
[ POLYP TGLS = 1-7 ]			

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 76	<b>TRT#:</b> F0-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD192
<b>GENERATION:</b> F0			<b>DISP:</b> Euthanized Humane	<b>HISTO:</b> 29156

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	OVARIES
PITUITARY GLAND	THYMUS	THYROID GLANDS	UTERUS
VAGINA			

---

**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
MAMMARY GLANDS	FIBROADENOMA	
[ FIBROADENOMA TGLS = 1-10 ]		

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 78	<b>TRT#:</b> F0-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD220
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29204

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**OBSERVATIONS**

UTERUS

DILATION  
METAPLASIA  
NO MICROSCOPIC CORRELATION

MILD  
SQUAMOUS, MINIMAL

[ DILATION TGLS = 1-7 ]

[ NO MICROSCOPIC CORRELATION TGLS = 1-6 ]

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 82	<b>TRT#:</b> F0-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD220
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29230

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**OBSERVATIONS**

LIMB		ALOPECIA	MINIMAL
	EPIDERMIS	HYPERPLASIA	FOCAL, MILD
	EPIDERMIS	PARAKERATOSIS	FOCAL, MINIMAL
[ ALOPECIA TGLS = 1-11, 1-11A ]			
MAMMARY GLANDS		FIBROADENOMA	
[ FIBROADENOMA TGLS = 2-10A ]			

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 84	<b>TRT#:</b> F0-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD220
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29252

---

**OBSERVATIONS**

CLITORAL GLANDS

DUCT

ECTASIA

MILD

INFLAMMATION, CHRONIC

ACTIVE, MILD

[ ECTASIA TGLS = 1-11, 2-11 ]

[ INFLAMMATION, CHRONIC TGLS = 1-11, 2-11 ]

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 86	<b>TRT#:</b> F0-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD220
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29266

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**OBSERVATIONS**

CLITORAL GLANDS	DUCT, UNILATERAL	ECTASIA	MILD
[ ECTASIA TGLS = 1-11, 2-11 ]			

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 94	<b>TRT#:</b> F0-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD219
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29136

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	OVARIES
PITUITARY GLAND	THYMUS	THYROID GLANDS	UTERUS

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
SKIN	ALOPECIA	MODERATE
[ ALOPECIA TGLS = 1-11, 1-11A, 2-12 ]		
VAGINA	CYST	
	MUCIFICATION	MODERATE

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 96	<b>TRT#:</b> F0-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD219
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29214

---

**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	OVARIES
PITUITARY GLAND	THYMUS	THYROID GLANDS	UTERUS
VAGINA			

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 98	<b>TRT#:</b> F0-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD219
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29220

---

**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	OVARIES
PITUITARY GLAND	THYMUS	THYROID GLANDS	VAGINA

---

**OBSERVATIONS**

CLITORAL GLANDS [ ABSCESS TGLS = 1-11 ]	UNILATERAL	ABSCESS	CHRONIC, MARKED
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
UTERUS	OVIDUCT	CYST	

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 100	<b>TRT#:</b> F0-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD219
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29238

---

**TISSUE STATUS**

**No Visible Lesions**

CERVIX	KIDNEYS	LIVER	OVARIES
PITUITARY GLAND	THYMUS	THYROID GLANDS	UTERUS
VAGINA			

---

**OBSERVATIONS**

ADRENAL GLANDS	NO MICROSCOPIC CORRELATION
[ NO MICROSCOPIC CORRELATION TGLS = 1-1 ]	

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 102	<b>TRT#:</b> F0-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> GD24
<b>GENERATION:</b> F0			<b>DISP:</b> Found Dead	<b>HISTO:</b> 29178

---

**TISSUE STATUS**

**No Visible Lesions**

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CERVIX	KIDNEYS	OVARIES	PITUITARY GLAND
THYROID GLANDS			

---

**LOST IN PROCESSING**

THYMUS

---

**OBSERVATIONS**

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ADRENAL GLANDS		CONGESTION	DIFFUSE, MODERATE
LIVER	CENTRILOBULAR	NECROSIS	FOCAL, MILD
UTERUS	HORN, LUMEN	DILATION	MODERATE
VAGINA		MUCIFICATION	MODERATE

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 104	<b>TRT#:</b> F0-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD219
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29088

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS  
PITUITARY GLAND

CERVIX  
THYMUS

LIVER  
THYROID GLANDS

OVARIES  
UTERUS

**OBSERVATIONS**

KIDNEYS  
VAGINA

NEPHROPATHY, CHRONIC PROGRESSIVE  
MUCIFICATION

MINIMAL  
MODERATE

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 106	<b>TRT#:</b> F0-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD10
<b>GENERATION:</b> F0			<b>DISP:</b> Euthanized Humane	<b>HISTO:</b> 29242

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	KIDNEYS	LIVER
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

---

**OBSERVATIONS**

LIMB	RIGHT	ULCER	DIFFUSE, MODERATE
[ ULCER TGLS = 1-11 ]			
NOSE	SUBCUTANEOUS	CYST	
[ CYST TGLS = 2-12 ]			

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 108	<b>TRT#:</b> F0-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD219
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29280

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	OVARIES
PITUITARY GLAND	THYMUS	THYROID GLANDS	UTERUS
VAGINA			

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 110	<b>TRT#:</b> F0-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD219
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29160

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	OVARIES
PITUITARY GLAND	THYMUS	UTERUS	VAGINA

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
THYROID GLANDS	C-CELL ADENOMA	

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 112	<b>TRT#:</b> F0-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD219
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29216

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	KIDNEYS	LIVER
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS			

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**OBSERVATIONS**

VAGINA	MUCIFICATION	MODERATE
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 114	<b>TRT#:</b> F0-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD219
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29250

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	KIDNEYS	LIVER
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

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**OBSERVATIONS**

LIMB	ALOPECIA	MODERATE
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[ ALOPECIA TGLS = 1-11 ]

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 116	<b>TRT#:</b> F0-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD219
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29172

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	KIDNEYS	LIVER
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 118	<b>TRT#:</b> F0-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD220
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29232

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	OVARIES
PITUITARY GLAND	THYMUS	THYROID GLANDS	UTERUS
VAGINA			

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**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 120	<b>TRT#:</b> F0-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD220
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29078

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	KIDNEYS	LIVER
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 122	<b>TRT#:</b> F0-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD220
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29254

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	OVARIES
PITUITARY GLAND	THYMUS	THYROID GLANDS	UTERUS
VAGINA			

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 124	<b>TRT#:</b> F0-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD220
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29114

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS  
OVARIES  
UTERUS

CERVIX  
PITUITARY GLAND  
VAGINA

KIDNEYS  
THYMUS

LIVER  
THYROID GLANDS

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 126	<b>TRT#:</b> F0-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD1
<b>GENERATION:</b> F0			<b>DISP:</b> Euthanized Moribund	<b>HISTO:</b> 29202

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS  
THYROID GLANDS

KIDNEYS

OVARIES

PITUITARY GLAND

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**OBSERVATIONS**

CERVIX  
LIVER

PERIPORTAL, LYMPHOCYTE  
CORTEX

THYMUS  
UTERUS

VAGINA

INFLAMMATION  
HEMATOPOIESIS  
INFILTRATION  
DECREASED LYMPHOCYTE  
INFLAMMATION  
ULCER  
INFLAMMATION  
ULCER

ACUTE, MILD  
EXTRAMEDULLARY, FOCAL, MINIMAL  
FOCAL, MINIMAL  
DIFFUSE, MARKED  
CHRONIC-ACTIVE, MODERATE  
MULTIFOCAL, MILD  
ACUTE, MILD  
FOCAL, MILD

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 128	<b>TRT#:</b> F0-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD220
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29154

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS  
OVARIES  
UTERUS

CERVIX  
PITUITARY GLAND  
VAGINA

KIDNEYS  
THYMUS

LIVER  
THYROID GLANDS

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 130	<b>TRT#:</b> F0-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD220
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29132

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS  
PITUITARY GLAND

CERVIX  
THYMUS

LIVER  
THYROID GLANDS

OVARIES  
UTERUS

---

**OBSERVATIONS**

KIDNEYS  
VAGINA

NEPHROPATHY, CHRONIC PROGRESSIVE  
MUCIFICATION

MINIMAL  
MODERATE

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 132	<b>TRT#:</b> F0-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD220
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29118

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**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	OVARIES
PITUITARY GLAND	THYMUS	THYROID GLANDS	UTERUS
VAGINA			

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 134	<b>TRT#:</b> F0-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD220
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29208

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	OVARIES
PITUITARY GLAND	THYMUS	THYROID GLANDS	UTERUS
VAGINA			

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**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 136	<b>TRT#:</b> F0-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD220
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29080

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	OVARIES
PITUITARY GLAND	THYMUS	THYROID GLANDS	UTERUS
VAGINA			

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 138	<b>TRT#:</b> F0-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> GD23
<b>GENERATION:</b> F0			<b>DISP:</b> Euthanized Moribund	<b>HISTO:</b> 29188

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	KIDNEYS	LIVER
OVARIES	PITUITARY GLAND	THYROID GLANDS	UTERUS
VAGINA			

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**OBSERVATIONS**

PLACENTA		NO MICROSCOPIC CORRELATION	
[ NO MICROSCOPIC CORRELATION TGLS = 1-11, 1-11A, 1-11B ]			
THYMUS	CORTEX	DECREASED LYMPHOCYTE	DIFFUSE, MODERATE

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 140	<b>TRT#:</b> F0-4	<b>DOSE:</b> 5000 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD2
<b>GENERATION:</b> F0			<b>DISP:</b> Euthanized Moribund	<b>HISTO:</b> 29234

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	OVARIES	PITUITARY GLAND
THYROID GLANDS	VAGINA		

---

**OBSERVATIONS**

KIDNEYS		INFLAMMATION, ACUTE NEPHROPATHY, CHRONIC PROGRESSIVE	FOCAL, MINIMAL MINIMAL
LIVER		HEMATOPOIESIS	EXTRAMEDULLARY, FOCAL, MILD
THYMUS	CORTEX	DECREASED LYMPHOCYTE	DIFFUSE, MODERATE
UTERUS		INFLAMMATION	SUPPURATIVE, MODERATE

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 142	<b>TRT#:</b> F0-4	<b>DOSE:</b> 5000 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD219
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29180

---

**TISSUE STATUS**

**No Visible Lesions**

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ADRENAL GLANDS	CERVIX	LIVER	OVARIES
PITUITARY GLAND	THYMUS	THYROID GLANDS	UTERUS
VAGINA			

---

**OBSERVATIONS**

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KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 144	<b>TRT#:</b> F0-4	<b>DOSE:</b> 5000 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD219
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29268

---

**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	OVARIES
PITUITARY GLAND	THYMUS	UTERUS	VAGINA

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
THYROID GLANDS	C-CELL	HYPERPLASIA	FOCAL, MINIMAL

---



**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 146	<b>TRT#:</b> F0-4	<b>DOSE:</b> 5000 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD219
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29192

---

**TISSUE STATUS**

---

**No Visible Lesions**

CERVIX	LIVER	OVARIES	PITUITARY GLAND
THYMUS	THYROID GLANDS	UTERUS	VAGINA

---

**OBSERVATIONS**

ADRENAL GLANDS	NO MICROSCOPIC CORRELATION	
[ NO MICROSCOPIC CORRELATION TGLS = 1-1, 2-1 ]		
KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 148	<b>TRT#:</b> F0-4	<b>DOSE:</b> 5000 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD168
<b>GENERATION:</b> F0			<b>DISP:</b> Euthanized Humane	<b>HISTO:</b> 29074

---

**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	BRAIN	KIDNEYS	LIVER
OVARIES	PITUITARY GLAND	THYMUS	UTERUS
VAGINA			

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**LOST IN PROCESSING**

CERVIX

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**OBSERVATIONS**

THYROID GLANDS	C-CELL	HYPERPLASIA	FOCAL, MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 150	<b>TRT#:</b> F0-4	<b>DOSE:</b> 5000 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD219
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29286

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	KIDNEYS	LIVER
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
VAGINA			

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**OBSERVATIONS**

UTERUS	ENDOMETRIUM	HYPERPLASIA	CYSTIC, MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 152	<b>TRT#:</b> F0-4	<b>DOSE:</b> 5000 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD0
<b>GENERATION:</b> F0			<b>DISP:</b> Euthanized Moribund	<b>HISTO:</b> 29212

---

**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	OVARIES	PITUITARY GLAND
THYROID GLANDS	VAGINA		

---

**OBSERVATIONS**

KIDNEYS	RENAL TUBULE	NECROSIS NEPHROPATHY, CHRONIC PROGRESSIVE	ACUTE, MULTIFOCAL, MINIMAL MINIMAL
LIVER	BILATERAL	HEMATOPOIESIS	EXTRAMEDULLARY, FOCAL, MINIMAL
PLACENTA	BILATERAL	EDEMA	MILD
		NECROSIS	DIFFUSE, MODERATE
[ EDEMA TGLS = 1-11R, 1-11AR ]			
THYMUS	CORTEX	DECREASED LYMPHOCYTE	DIFFUSE, MODERATE
UTERUS		INFLAMMATION	SUPPURATIVE, MILD

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 154	<b>TRT#:</b> F0-4	<b>DOSE:</b> 5000 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> GD24
<b>GENERATION:</b> F0			<b>DISP:</b> Euthanized Moribund	<b>HISTO:</b> 29278

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**TISSUE STATUS**

---

**No Visible Lesions**

CERVIX	LIVER	OVARIES	PITUITARY GLAND
THYMUS	THYROID GLANDS	UTERUS	VAGINA

---

**OBSERVATIONS**

ADRENAL GLANDS	CORTEX	VACUOLATION	FOCAL, MINIMAL
CLITORAL GLANDS	DUCT	ECTASIA	MILD
	DUCT, LUMEN	INFILTRATION	MONONUCLEAR CELL, MILD
		INFLAMMATION, ACUTE	MILD
[ ECTASIA TGLS = 1-11 ]			
[ INFILTRATION TGLS = 1-11 ]			
[ INFLAMMATION, ACUTE TGLS = 1-11 ]			
KIDNEYS	PELVIS	CONCRETION	FOCAL, MINIMAL
PLACENTA		EDEMA	MODERATE
		NECROSIS	MILD
[ EDEMA TGLS = 2-12R ]			

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 156	<b>TRT#:</b> F0-4	<b>DOSE:</b> 5000 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD219
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29096

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**TISSUE STATUS**

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**No Visible Lesions**

CERVIX	LIVER	OVARIES	PITUITARY GLAND
THYMUS	THYROID GLANDS	VAGINA	

---

**OBSERVATIONS**

ADRENAL GLANDS	CORTEX	HYPERTROPHY	FOCAL, MINIMAL
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
UTERUS	ENDOMETRIUM	CYST	

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 158	<b>TRT#:</b> F0-4	<b>DOSE:</b> 5000 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD219
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29226

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	OVARIES
PITUITARY GLAND	THYMUS	THYROID GLANDS	UTERUS
VAGINA			

---

**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 160	<b>TRT#:</b> F0-4	<b>DOSE:</b> 5000 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD220
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29282

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**TISSUE STATUS**

---

**No Visible Lesions**

CERVIX	LIVER	PITUITARY GLAND	THYMUS
THYROID GLANDS	VAGINA		

---

**OBSERVATIONS**

ADRENAL GLANDS	CORTEX	VACUOLATION	FOCAL, MINIMAL
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
OVARIES	CORPUS LUTEUM	CYST	
UTERUS	ENDOMETRIUM	HYPERPLASIA	CYSTIC, MILD

---



**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 162	<b>TRT#:</b> F0-4	<b>DOSE:</b> 5000 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD220
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29274

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**TISSUE STATUS**

---

**No Visible Lesions**

CERVIX	KIDNEYS	LIVER	OVARIES
PITUITARY GLAND	THYMUS	THYROID GLANDS	VAGINA

---

**OBSERVATIONS**

ADRENAL GLANDS	CORTEX	VACUOLATION	FOCAL, MINIMAL
UTERUS	ENDOMETRIUM	HYPERPLASIA	CYSTIC, MILD

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 164	<b>TRT#:</b> F0-4	<b>DOSE:</b> 5000 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD0
<b>GENERATION:</b> F0			<b>DISP:</b> Euthanized Moribund	<b>HISTO:</b> 29294

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS  
VAGINA

CERVIX

THYROID GLANDS

UTERUS

---

**OBSERVATIONS**

KIDNEYS

RENAL TUBULE  
CENTRIOLOBULAR

MINERAL  
NECROSIS  
NECROSIS

MILD  
ACUTE, MULTIFOCAL, MINIMAL  
DIFFUSE, MILD

LIVER  
OVARIES  
PITUITARY GLAND  
PLACENTA

FOLLICLE  
PARS DISTALIS

CYST  
CYST  
EDEMA  
INFLAMMATION  
NECROSIS

DIFFUSE, MODERATE  
SUPPURATIVE, MILD  
DIFFUSE, MILD

[ EDEMA TGLS = 1-11R, 1-11AR ]  
[ NECROSIS TGLS = 1-11R, 1-11AR ]

THYMUS

CORTEX

DECREASED LYMPHOCYTE

DIFFUSE, MILD

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 166	<b>TRT#:</b> F0-4	<b>DOSE:</b> 5000 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD126
<b>GENERATION:</b> F0			<b>DISP:</b> Euthanized Humane	<b>HISTO:</b> 29260

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	OVARIES	PITUITARY GLAND
THYMUS	THYROID GLANDS	UTERUS	VAGINA

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER	PERIPORTAL, LYMPHOCYTE	INFILTRATION	FOCAL, MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 168	<b>TRT#:</b> F0-4	<b>DOSE:</b> 5000 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> GD22
<b>GENERATION:</b> F0			<b>DISP:</b> Found Dead	<b>HISTO:</b> 29124

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	KIDNEYS	LIVER
OVARIES	PITUITARY GLAND	THYROID GLANDS	UTERUS
VAGINA			

---

**OBSERVATIONS**

PLACENTA		EDEMA	DIFFUSE, MILD
		INFLAMMATION	ACUTE, MILD
[ EDEMA TGLS = 1-11R, 1-11AR ]			
[ INFLAMMATION TGLS = 1-11R, 1-11AR ]			
THYMUS	CORTEX	DECREASED LYMPHOCYTE	DIFFUSE, MILD

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 170	<b>TRT#:</b> F0-4	<b>DOSE:</b> 5000 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD69
<b>GENERATION:</b> F0			<b>DISP:</b> Euthanized Moribund	<b>HISTO:</b> 29104

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	OVARIES	PITUITARY GLAND
THYMUS	THYROID GLANDS	UTERUS	VAGINA

---

**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
LIVER	CONGESTION	DIFFUSE, MILD

[ CONGESTION TGLS = 1-3, 2-3 ]

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 172	<b>TRT#:</b> F0-4	<b>DOSE:</b> 5000 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD220
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29102

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS  
THYMUS

CERVIX  
THYROID GLANDS

KIDNEYS  
VAGINA

OVARIES

**OBSERVATIONS**

LIVER  
PITUITARY GLAND  
UTERUS  
WHOLE BODY

PARS DISTALIS  
ENDOMETRIUM

ATROPHY  
CYST  
HYPERPLASIA  
NO MICROSCOPIC CORRELATION

DIFFUSE, MINIMAL  
CYSTIC, MINIMAL

[ NO MICROSCOPIC CORRELATION TGLS = 1 ]

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 174	<b>TRT#:</b> F0-4	<b>DOSE:</b> 5000 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> GD23
<b>GENERATION:</b> F0			<b>DISP:</b> Euthanized Moribund	<b>HISTO:</b> 29276

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	OVARIES
PITUITARY GLAND	UTERUS	VAGINA	

---

**OBSERVATIONS**

KIDNEYS	RENAL TUBULE	NECROSIS	ACUTE, MULTIFOCAL, MILD
THYMUS	CORTEX	DECREASED LYMPHOCYTE	DIFFUSE, MILD
THYROID GLANDS	C-CELL	HYPERPLASIA	FOCAL, MINIMAL

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 176	<b>TRT#:</b> F0-4	<b>DOSE:</b> 5000 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD220
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29134

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**TISSUE STATUS**

**No Visible Lesions**

---

ADRENAL GLANDS	KIDNEYS	LIVER	PITUITARY GLAND
THYMUS	THYROID GLANDS	UTERUS	VAGINA

---

**LOST IN PROCESSING**

CERVIX

---

**OBSERVATIONS**

---

OVARIES	CORPUS LUTEUM	CYST
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 178	<b>TRT#:</b> F0-4	<b>DOSE:</b> 5000 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD220
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29150

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**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	OVARIES
PITUITARY GLAND	THYMUS	THYROID GLANDS	UTERUS
VAGINA			

---

**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 180	<b>TRT#:</b> F0-4	<b>DOSE:</b> 5000 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD62
<b>GENERATION:</b> F0			<b>DISP:</b> Euthanized Humane	<b>HISTO:</b> 29162

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**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	BRAIN	CERVIX	KIDNEYS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

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**OBSERVATIONS**

LIVER	PERIPORTAL, LYMPHOCYTE	INFILTRATION	FOCAL, MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 182	<b>TRT#:</b> F0-4	<b>DOSE:</b> 5000 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> GD24
<b>GENERATION:</b> F0			<b>DISP:</b> Euthanized Moribund	<b>HISTO:</b> 29076

---

**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS  
OVARIES

CERVIX  
PITUITARY GLAND

KIDNEYS  
THYROID GLANDS

LIVER  
VAGINA

**OBSERVATIONS**

PLACENTA  
[ EDEMA TGLS = 1-11R, 1-11AR ]

CORTEX

EDEMA  
DECREASED LYMPHOCYTE  
NECROSIS

DIFFUSE, MILD  
DIFFUSE, MODERATE  
MILD

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 184	<b>TRT#:</b> F0-4	<b>DOSE:</b> 5000 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> SD220
<b>GENERATION:</b> F0			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 29086

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**TISSUE STATUS**

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**No Visible Lesions**

CERVIX	KIDNEYS	OVARIES	PITUITARY GLAND
THYMUS	THYROID GLANDS	UTERUS	VAGINA

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**OBSERVATIONS**

ADRENAL GLANDS	CORTEX	HYPERTROPHY	FOCAL, MILD
LIVER		ATROPHY	DIFFUSE, MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1001	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39950

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**TISSUE STATUS**

**No Visible Lesions**

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ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

---

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1003	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39951

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	PITUITARY GLAND	SEMINAL VESICLES	TESTIS
THYMUS	THYROID GLANDS		

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
LIVER		HEPATODIAPHRAGMATIC NODULE	MILD
[ HEPATODIAPHRAGMATIC NODULE TGLS = 1-3 ]			
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1005	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39954

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

---

**OBSERVATIONS**

KIDNEYS	PELVIS	CONCRETION	FOCAL, MILD
	PELVIS, LEFT	DILATION	MILD
	EPITHELIUM, TRANSITIONAL CELL	HYPERPLASIA	FOCAL, LEFT, MINIMAL
		MINERAL	MINIMAL
		NEPHROPATHY, CHRONIC PROGRESSIVE	MILD

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1007	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39956

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
LIMB [ DEFORMITY TGLS = 1-11 ]	BONE	DEFORMITY	MILD
PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MILD

---



**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1009	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39957

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**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1011	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39958

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

KIDNEYS	PELVIS, RIGHT	DILATION NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL MILD
[ DILATION TGLS = 1-2 ] PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1013	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39981

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1015	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39982

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	PITUITARY GLAND	SEMINAL VESICLES	TESTIS
THYMUS	THYROID GLANDS		

---

**OBSERVATIONS**

KIDNEYS		MINERAL NEPHROPATHY, CHRONIC PROGRESSIVE INFLAMMATION, CHRONIC	MINIMAL MINIMAL ACTIVE, FOCAL, MINIMAL
LIVER			
PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1017	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39983

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**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1019	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39984

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1021	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39985

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

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**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIMB [ DEFORMITY TGLS = 1-11 ]	BONE	DEFORMITY	MILD
PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MILD

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1023	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39913

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**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

---

**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1025	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39915

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LIVER	PITUITARY GLAND	PROSTATE	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

KIDNEYS	LYMPHOMA	MALIGNANT
	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LYMPHOMA	MALIGNANT
LYMPH NODE, MEDIASTINAL [ LYMPHOMA TGLS = 1-12 ]	LYMPHOMA	MALIGNANT
LYMPH NODE, RENAL [ LYMPHOMA TGLS = 2-13 ]	LYMPHOMA	MALIGNANT
SPLEEN [ LYMPHOMA TGLS = 3-11 ]	LYMPHOMA	MALIGNANT

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1027	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39917

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PROSTATE	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PITUITARY GLAND	PARS DISTALIS	CYST	

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1029	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39918

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

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**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1031	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39919

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

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**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MILD

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1035	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39993

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	SPLEEN	TESTIS	THYMUS
THYROID GLANDS			

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**OBSERVATIONS**

KIDNEYS	PELVIS	CONCRETION	FOCAL, MINIMAL
	PELVIS, RIGHT	DILATION	MINIMAL
	EPITHELIUM, TRANSITIONAL CELL	HYPERPLASIA	FOCAL, RIGHT, MINIMAL
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1037	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39994

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	PITUITARY GLAND	PROSTATE	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

KIDNEYS	PELVIS PELVIS, RIGHT EPITHELIUM, TRANSITIONAL CELL	CONCRETION DILATION HYPERPLASIA NEPHROPATHY, CHRONIC PROGRESSIVE INFLAMMATION, CHRONIC	FOCAL, MINIMAL MILD FOCAL, RIGHT, MILD MINIMAL ACTIVE, FOCAL, MINIMAL
LIVER		INCREASED NUMBER	DIFFUSE, MILD
SPLEEN	PIGMENTED MACROPHAGE		

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1039	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39995

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
KIDNEYS	LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

---

**OBSERVATIONS**

PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1041	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39996

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

KIDNEYS	PELVIS, RIGHT	DILATION	MODERATE
[ DILATION TGLS = 1-2 ]			
PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MINIMAL

---



**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1043	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39997

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
KIDNEYS	LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

LIVER	LYMPHOCYTE	INFILTRATION	MULTIFOCAL, MINIMAL
PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1047	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40032

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**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1049	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40033

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**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

---

**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1051	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40034

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**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1053	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40035

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
LIMB	BONE	DEFORMITY	MILD
[ DEFORMITY TGLS = 1-11 ]			
PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1055	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND223
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40071

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS - BILATERAL
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	PITUITARY GLAND	SEMINAL VESICLES	THYMUS
THYROID GLANDS			

---

**OBSERVATIONS**

EPIDIDYMIS	BILATERAL	NO MICROSCOPIC CORRELATION	
[ NO MICROSCOPIC CORRELATION TGLS = 2-11 ]			
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER		HEPATODIAPHRAGMATIC NODULE	MILD
		INFLAMMATION, CHRONIC	ACTIVE, FOCAL, MINIMAL
[ HEPATODIAPHRAGMATIC NODULE TGLS = 1-3 ]			
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL
TESTIS	GERMINAL EPITHELIUM, LEFT	ATROPHY	MINIMAL
[ ATROPHY TGLS = 3-11 ]			

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1057	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND223
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40072

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**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

---

**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1059	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40073

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PROSTATE	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
PITUITARY GLAND	PARS DISTALIS	CYST	

---



**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1061	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40074

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**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1063	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40075

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	SEMINAL VESICLES	TESTIS
THYMUS	THYROID GLANDS		

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PITUITARY GLAND	PARS DISTALIS	CYST	
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1065	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40077

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**TISSUE STATUS**

**No Visible Lesions**

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ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

---

**OBSERVATIONS**

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KIDNEYS	PELVIS, RIGHT	DILATION	MILD
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1067	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40191

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
PREPUTIAL GLANDS	DUCT, UNILATERAL	ABSCCESS	
[ ABSCCESS TGLS = 1-11 ]			

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1069	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40192

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**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1071	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40193

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**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1073	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40194

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**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1075	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40195

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**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1077	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40141

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PREPUTIAL GLANDS
PROSTATE	SEMINAL VESICLES	TESTIS	THYMUS
THYROID GLANDS			

---

**OBSERVATIONS**

KIDNEYS	PELVIS	CONCRETION	FOCAL, MILD
	PELVIS, RIGHT	DILATION	MINIMAL
	EPITHELIUM, TRANSITIONAL CELL	HYPERPLASIA	FOCAL, RIGHT, MILD
	TRANSITIONAL CELL, EPITHELIUM	INFLAMMATION, CHRONIC	ACTIVE, FOCAL, MINIMAL
		MINERAL	MINIMAL
		NEPHROPATHY, CHRONIC PROGRESSIVE	MILD

---

[ DILATION TGLS = 1-2 ]

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1079	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40142

---

**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE
LIVER	PITUITARY GLAND	PREPUTIAL GLANDS	SEMINAL VESICLES
THYMUS	THYROID GLANDS		

---

**OBSERVATIONS**

EPIDIDYMIS		NO MICROSCOPIC CORRELATION	
[ NO MICROSCOPIC CORRELATION TGLS = 1-11 ]			
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MINIMAL
TESTIS		NO MICROSCOPIC CORRELATION	
[ NO MICROSCOPIC CORRELATION TGLS = 2 ]			

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1081	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40143

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	SEMINAL VESICLES	TESTIS
THYMUS	THYROID GLANDS		

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PITUITARY GLAND	PARS DISTALIS	CYST	
PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1083	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40144

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	SEMINAL VESICLES	TESTIS
THYMUS	THYROID GLANDS		

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PITUITARY GLAND	PARS DISTALIS	CYST	
PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1085	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40145

---

**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1087	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND223
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40322

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

---

**OBSERVATIONS**

KIDNEYS	PELVIS	CONCRETION	FOCAL, MILD
	TRANSITIONAL CELL, EPITHELIUM	INFLAMMATION, CHRONIC	ACTIVE, FOCAL, MINIMAL
		NEPHROPATHY, CHRONIC PROGRESSIVE	MILD

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1089	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND223
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40323

---

**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

---

**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MODERATE
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1091	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40324

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE
LIVER	PITUITARY GLAND	SEMINAL VESICLES	THYMUS
THYROID GLANDS			

---

**OBSERVATIONS**

EPIDIDYMIS	DUCT	EXFOLIATED GERM CELL	MINIMAL
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MINIMAL
TESTIS	GERM CELL	DEGENERATION	MILD

---



**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1093	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40325

---

**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

---

**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1095	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40326

---

**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

---

**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
---------	----------------------------------	------

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1097	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND222
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40511

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**TISSUE STATUS**

**No Visible Lesions**

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ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

---

**OBSERVATIONS**

---

KIDNEYS	PELVIS, RIGHT	DILATION	MINIMAL
		NEPHROPATHY, CHRONIC PROGRESSIVE	MILD

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1099	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND222
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40512

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	SEMINAL VESICLES	THYMUS
THYROID GLANDS			

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
PITUITARY GLAND	PARS DISTALIS	CYST	
PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MINIMAL
TESTIS	GERM CELL, LEFT	DEGENERATION	MINIMAL

---

[ DEGENERATION TGLS = 1-11 ]

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1101	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND222
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40513

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**TISSUE STATUS**

---

**No Visible Lesions**

COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS	LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE
LIVER	PITUITARY GLAND	PROSTATE	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

ADRENAL GLANDS	CORTEX	HYPERTROPHY	FOCAL, MILD
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MILD

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1103	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND222
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40514

---

**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIMB	BONE	DEFORMITY	MILD
		NO MICROSCOPIC FINDING RECORDED	
[ NO MICROSCOPIC FINDING RECORDED TGLS = 1-11 ]			
PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MINIMAL
SKIN, ABDOMINAL		NO MICROSCOPIC CORRELATION	
[ NO MICROSCOPIC CORRELATION TGLS = 2-12 ]			

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1105	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40515

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL
		INFLAMMATION	CHRONIC ACTIVE, MODERATE

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1107	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40516

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MINIMAL

---



**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1109	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40517

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1113	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND222
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40476

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	PITUITARY GLAND	PROSTATE	SEMINAL VESICLES
SKIN, ABDOMINAL	TESTIS	THYMUS	THYROID GLANDS

---

**OBSERVATIONS**

KIDNEYS	PELVIS, RIGHT	DILATION NEPHROPATHY, CHRONIC PROGRESSIVE	MILD MINIMAL
[ DILATION TGLS = 1-2 ]			
LIVER	LYMPHOCYTE, PERIportal HEPATOCYTE	INFILTRATION NECROSIS	MULTIFOCAL, MINIMAL FOCAL, MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1115	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND222
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40478

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**TISSUE STATUS**

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**No Visible Lesions**

COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS	FAT
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
SKIN, ABDOMINAL	TESTIS	THYMUS	THYROID GLANDS

---

**OBSERVATIONS**

ADRENAL GLANDS	CORTEX	VACUOLATION, CYTOPLASMIC	DIFFUSE, MILD
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1117	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40479

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
THYMUS	THYROID GLANDS		

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**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MINIMAL
TESTIS	GERM CELL	DEGENERATION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1119	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40480

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

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**OBSERVATIONS**

KIDNEYS [ DILATION TGLS = 1-2 ]	PELVIS, RIGHT	DILATION	MILD
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1121	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40481

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**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

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**OBSERVATIONS**

KIDNEYS	PELVIS, RIGHT	DILATION NEPHROPATHY, CHRONIC PROGRESSIVE	MILD MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1125	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND223
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40331

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
FAT	LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND
PROSTATE	SEMINAL VESICLES	TESTIS	THYMUS
THYROID GLANDS			

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1127	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND223
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40332

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	PITUITARY GLAND	PROSTATE	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

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**OBSERVATIONS**

KIDNEYS	PELVIS, RIGHT	DILATION	MINIMAL
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
[ DILATION TGLS = 1-2 ]			
LIVER	BILE DUCT	HYPERPLASIA	FOCAL, MINIMAL

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1129	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40333

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**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1131	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND223
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40345

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**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1133	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND223
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40346

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**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1135	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40347

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**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

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**OBSERVATIONS**

KIDNEYS	PELVIS, RIGHT	DILATION	MINIMAL
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MINIMAL

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1137	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40349

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1139	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40350

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

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**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MINIMAL

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1143	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND223
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40441

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1145	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND223
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40442

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1147	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40443

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1149	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND222
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40521

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PROSTATE	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

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**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
PITUITARY GLAND	PARS DISTALIS	CYST	

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1151	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND222
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40522

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**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1153	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND93
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40523

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**TISSUE STATUS**

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**No Visible Lesions**

COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS	LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE
LIMB	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

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**OBSERVATIONS**

ADRENAL GLANDS	CORTEX	HYPERTROPHY	FOCAL, MINIMAL
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1155	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND93
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40524

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**TISSUE STATUS**

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**No Visible Lesions**

COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS	LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE
LIVER	PITUITARY GLAND	PROSTATE	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

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**OBSERVATIONS**

ADRENAL GLANDS	CORTEX	HYPERTROPHY	FOCAL, MINIMAL
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1157	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND93
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40525

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**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1161	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND222
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40551

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	TESTIS	THYMUS	

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**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
THYROID GLANDS	C-CELL	HYPERPLASIA	FOCAL, MODERATE

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1163	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND222
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40552

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	PITUITARY GLAND	PROSTATE	SEMINAL VESICLES
THYMUS	THYROID GLANDS		

---

**OBSERVATIONS**

KIDNEYS	PELVIS	CONCRETION	FOCAL, MILD
	PELVIS, RIGHT	DILATION	MILD
	EPITHELIUM, TRANSITIONAL CELL	HYPERPLASIA	FOCAL, RIGHT, MODERATE
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
[ DILATION TGLS = 2-2 ]			
LIVER		HEPATODIAPHRAGMATIC NODULE	MILD
[ HEPATODIAPHRAGMATIC NODULE TGLS = 1-3 ]			
TESTIS	GERM CELL	DEGENERATION	MINIMAL

---



**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1165	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND93
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40553

---

**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1167	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND93
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40554

---

**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE
PITUITARY GLAND	SEMINAL VESICLES	THYMUS	THYROID GLANDS

---

**OBSERVATIONS**

EPIDIDYMIS	DUCT	EXFOLIATED GERM CELL	MILD
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIMB [ DEFORMITY TGLS = 1-11 ]	BONE	DEFORMITY	MILD
LIVER		HYPERTROPHY	HEPATOCELLULAR, MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL
TESTIS	GERM CELL	DEGENERATION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1169	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND93
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40555

---

**TISSUE STATUS**

**No Visible Lesions**

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ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE
LIVER	PITUITARY GLAND	SEMINAL VESICLES	THYMUS
THYROID GLANDS			

---

**OBSERVATIONS**

---

EPIDIDYMIS	DUCT	EXFOLIATED GERM CELL	MINIMAL
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL
TESTIS	GERM CELL	DEGENERATION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1173	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND221
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40601

---

**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	PITUITARY GLAND	PROSTATE	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
LIVER	CLEAR CELL FOCUS	

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1175	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND221
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40602

---

**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

---

**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MODERATE
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1177	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND92
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40603

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	PITUITARY GLAND	TESTIS	THYMUS
THYROID GLANDS			

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
LIVER		HYPERTROPHY	HEPATOCELLULAR, MINIMAL
PROSTATE	VENTRAL LOBE	INFLAMMATION	CHRONIC ACTIVE, MILD
SEMINAL VESICLES		ATROPHY	MODERATE

[ ATROPHY TGLS = 1-9 ]

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1179	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND92
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40604

---

**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	PITUITARY GLAND	PROSTATE	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
LIVER	HYPERTROPHY	HEPATOCELLULAR, MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1181	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND92
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40605

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	LUNGS	PITUITARY GLAND
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MINIMAL

---



**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1187	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND218
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40701

---

**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

---

**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MODERATE
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---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1189	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND218
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40703

---

**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

---

**OBSERVATIONS**

KIDNEYS	PELVIS, RIGHT	DILATION	MINIMAL
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1191	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40704

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**TISSUE STATUS**

---

**No Visible Lesions**

COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS	LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE
LIVER	PITUITARY GLAND	SEMINAL VESICLES	TESTIS
THYMUS	THYROID GLANDS		

---

**OBSERVATIONS**

ADRENAL GLANDS	CORTEX	VACUOLATION	FOCAL, MILD
KIDNEYS	PELVIS, RIGHT	DILATION	MODERATE
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
[ DILATION TGLS = 1-2 ]			
PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1193	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40705

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**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	EPIDIDYMIS	LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE
LIVER	PITUITARY GLAND	SEMINAL VESICLES	TESTIS
THYMUS	THYROID GLANDS		

---

**LOST IN PROCESSING**

COWPERS GLANDS

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1195	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40707

---

**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
SKIN	TESTIS	THYMUS	THYROID GLANDS

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1301	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39862

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	PROSTATE	TESTIS
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1303	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39863

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	PROSTATE	TESTIS
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1305	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39867

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**TISSUE STATUS**

**No Visible Lesions**

EPIDIDYMIS TESTIS

**MISSING**

COWPERS GLANDS

**OBSERVATIONS**

COWPERS GLANDS

NO MICROSCOPIC FINDING RECORDED

Tissue Note: MISSING

[ NO MICROSCOPIC FINDING RECORDED TGLS = 1 ]

PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL
	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MODERATE

---



**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1307	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39901

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	PROSTATE	TESTIS
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1309	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39902

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**TISSUE STATUS**

---

**No Visible Lesions**

EPIDIDYMIS TESTIS

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**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
[ NEPHROPATHY, CHRONIC PROGRESSIVE TGLS = 1-2 ]			
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1311	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39903

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	TESTIS
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---

**OBSERVATIONS**

PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1313	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39904

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**TISSUE STATUS**

---

**No Visible Lesions**

EPIDIDYMIS TESTIS

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**OBSERVATIONS**

PROSTATE VENTRAL LOBE ATROPHY MINIMAL

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1315	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39905

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	TESTIS
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**OBSERVATIONS**

LIVER [ INFARCTION TGLS = 1-3 ]	ACCESSORY LOBE	INFARCTION	MODERATE
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1319	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39929

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**TISSUE STATUS**

---

**No Visible Lesions**

EPIDIDYMIS	PROSTATE	TESTIS
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1321	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39930

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**TISSUE STATUS**

---

**No Visible Lesions**

EPIDIDYMIS	PROSTATE	TESTIS
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1323	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39931

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**TISSUE STATUS**

---

**No Visible Lesions**

EPIDIDYMIS	TESTIS
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**OBSERVATIONS**

PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL
SKIN	DERMIS	FIBROSIS	FOCAL, MILD
	EPIDERMIS	HYPERPLASIA	FOCAL, MINIMAL

[ FIBROSIS TGLS = 1-11 ]

[ HYPERPLASIA TGLS = 1-11 ]

---



**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1325	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39932

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**TISSUE STATUS**

---

**No Visible Lesions**

EPIDIDYMIS	PROSTATE	TESTIS
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1327	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39967

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**TISSUE STATUS**

---

**No Visible Lesions**

EPIDIDYMIS	PROSTATE	TESTIS
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1329	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39968

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**TISSUE STATUS**

---

**No Visible Lesions**

EPIDIDYMIS

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**OBSERVATIONS**

PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL
TESTIS	SEMINIFEROUS TUBULE	SPERMATID RETENTION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1331	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39969

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS TESTIS

---

**OBSERVATIONS**

PROSTATE VENTRAL LOBE ATROPHY MINIMAL

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1333	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39941

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	PROSTATE	TESTIS
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1335	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39942

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS TESTIS

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**OBSERVATIONS**

PROSTATE VENTRAL LOBE ATROPHY MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1337	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39943

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**OBSERVATIONS**

EPIDIDYMIS	DUCT	EXFOLIATED GERM CELL	MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL
	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MINIMAL
TESTIS	GERM CELL	DEGENERATION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1339	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39944

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**TISSUE STATUS**

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**No Visible Lesions**

PROSTATE

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**OBSERVATIONS**

EPIDIDYMIS	DUCT	EXFOLIATED GERM CELL	MINIMAL
TESTIS	GERM CELL	DEGENERATION	MINIMAL

---



**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1341	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39881

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS TESTIS

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**OBSERVATIONS**

KIDNEYS	PELVIS, RIGHT	DILATION NEPHROPATHY, CHRONIC PROGRESSIVE	MILD MILD
[ DILATION TGLS = 1-2 ] PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1343	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39883

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**OBSERVATIONS**

EPIDIDYMIS	DUCT	EXFOLIATED GERM CELL	MINIMAL
KIDNEYS	PELVIS, RIGHT	DILATION	MILD
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
[ DILATION TGLS = 1-2 ]			
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL
TESTIS	GERM CELL	DEGENERATION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1345	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39884

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**TISSUE STATUS**

---

**No Visible Lesions**

EPIDIDYMIS	TESTIS
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**OBSERVATIONS**

PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE INFILTRATION	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1347	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39885

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	PROSTATE	TESTIS
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1349	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39887

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**OBSERVATIONS**

EPIDIDYMIS	DUCT	EXFOLIATED GERM CELL	MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL
TESTIS	GERM CELL	DEGENERATION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1357	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND223
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40087

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS TESTIS

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**OBSERVATIONS**

PROSTATE VENTRAL LOBE ATROPHY MINIMAL

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1359	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND223
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40088

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	PROSTATE	TESTIS
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1361	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40089

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**TISSUE STATUS**

---

**No Visible Lesions**

EPIDIDYMIS TESTIS

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**OBSERVATIONS**

PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL
	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MINIMAL

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1363	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40090

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**TISSUE STATUS**

---

**No Visible Lesions**

EPIDIDYMIS	TESTIS
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**OBSERVATIONS**

PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE INFILTRATION	MILD
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1365	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40091

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**TISSUE STATUS**

---

**No Visible Lesions**

EPIDIDYMIS	TESTIS
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**OBSERVATIONS**

PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE INFILTRATION	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1367	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40152

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	PROSTATE	TESTIS
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1369	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40153

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS PROSTATE

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**OBSERVATIONS**

TESTIS SEMINIFEROUS TUBULE SPERMATID RETENTION MINIMAL

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1371	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40154

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	PROSTATE	TESTIS
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1373	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40155

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	PROSTATE	TESTIS
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1375	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40156

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	TESTIS
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**OBSERVATIONS**

PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE INFILTRATION	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1379	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40223

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	PROSTATE	TESTIS
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1381	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40224

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	PROSTATE
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**OBSERVATIONS**

TESTIS	GERM CELL	DEGENERATION	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1383	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40225

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**TISSUE STATUS**

---

**No Visible Lesions**

EPIDIDYMIS TESTIS

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**OBSERVATIONS**

PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL
	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MINIMAL

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1385	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40226

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**TISSUE STATUS**

---

**No Visible Lesions**

EPIDIDYMIS	TESTIS
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**OBSERVATIONS**

PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE INFILTRATION	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1387	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40227

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS TESTIS

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**OBSERVATIONS**

COWPERS GLANDS NO MICROSCOPIC CORRELATION

[ NO MICROSCOPIC CORRELATION TGLS = 1-9 ]

PROSTATE VENTRAL LOBE ATROPHY MINIMAL

VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE INFILTRATION MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1393	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40171

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	PROSTATE	TESTIS
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1395	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40172

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	PROSTATE	TESTIS
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1397	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40173

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS TESTIS

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**OBSERVATIONS**

PROSTATE VENTRAL LOBE ATROPHY MINIMAL

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1399	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40174

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS TESTIS

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**OBSERVATIONS**

PROSTATE VENTRAL LOBE ATROPHY MINIMAL

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1401	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40175

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	PROSTATE	TESTIS
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1405	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND223
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40281

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	PROSTATE	TESTIS
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1407	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND223
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40282

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**OBSERVATIONS**

EPIDIDYMIS	DUCT	EXFOLIATED GERM CELL	MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL
TESTIS	GERM CELL	DEGENERATION	MILD

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1409	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40283

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS TESTIS

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**OBSERVATIONS**

PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL
	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MINIMAL

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1411	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40284

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**OBSERVATIONS**

EPIDIDYMIS	DUCT	EXFOLIATED GERM CELL	MILD
PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MINIMAL
TESTIS	GERM CELL	DEGENERATION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1413	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40285

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS

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**OBSERVATIONS**

KIDNEYS	PELVIS, RIGHT TRANSITIONAL CELL, EPITHELIUM	DILATION HYPERPLASIA NEPHROPATHY, CHRONIC PROGRESSIVE	MILD FOCAL, MINIMAL MINIMAL
[ DILATION TGLS = 1-2 ] [ HYPERPLASIA TGLS = 1-2 ]			
PROSTATE	VENTRAL LOBE VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	ATROPHY INFILTRATION	MINIMAL MINIMAL
TESTIS	GERM CELL	DEGENERATION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1415	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND223
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40290

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**TISSUE STATUS**

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**No Visible Lesions**

PROSTATE

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**OBSERVATIONS**

EPIDIDYMIS	DUCT	EXFOLIATED GERM CELL	MINIMAL
TESTIS	GERM CELL	DEGENERATION	MODERATE

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1417	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND223
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40291

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	PROSTATE	TESTIS
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1419	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40292

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	TESTIS
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**OBSERVATIONS**

PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE INFILTRATION	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1421	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40293

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	TESTIS
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**OBSERVATIONS**

PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE INFILTRATION	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1423	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40294

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	TESTIS
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**OBSERVATIONS**

PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE INFILTRATION	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1427	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND222
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40464

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS TESTIS

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**OBSERVATIONS**

PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE INFILTRATION	MINIMAL
SEMINAL VESICLES	NO MICROSCOPIC CORRELATION	
	[ NO MICROSCOPIC CORRELATION TGLS = 1-9 ]	
SKIN	SEBACEOUS GLAND, EPITHELIUM ADENOMA	
	[ ADENOMA TGLS = 1-11 ]	

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1429	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND222
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40465

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	PROSTATE	TESTIS
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**OBSERVATIONS**

SKIN	SUBCUTANEOUS	LIPOMA
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[ LIPOMA TGLS = 1-11 ]

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1431	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40466

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS TESTIS

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**OBSERVATIONS**

PROSTATE VENTRAL LOBE ATROPHY MINIMAL

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1433	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40467

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS TESTIS

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**OBSERVATIONS**

PROSTATE VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE INFILTRATION MODERATE

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1435	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40468

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	TESTIS
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**OBSERVATIONS**

PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE INFILTRATION	MODERATE
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1441	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND222
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40450

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS

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**OBSERVATIONS**

PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL
TESTIS	SEMINIFEROUS TUBULE	SPERMATID RETENTION	MINIMAL

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1443	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND222
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40451

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	TESTIS
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**OBSERVATIONS**

KIDNEYS	PELVIS, RIGHT EPITHELIUM, TRANSITIONAL CELL TRANSITIONAL CELL, EPITHELIUM	DILATION HYPERPLASIA INFLAMMATION, CHRONIC NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL FOCAL, RIGHT, MILD ACTIVE, FOCAL, MILD MINIMAL
[ DILATION TGLS = 1-2 ] PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1445	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40452

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS

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**OBSERVATIONS**

PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL
	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MINIMAL
SEMINAL VESICLES		ATROPHY	MINIMAL
		RUPTURE	MODERATE
[ RUPTURE TGLS = 1-9 ]			
TESTIS	SEMINIFEROUS TUBULE	SPERMATID RETENTION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1447	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40453

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**OBSERVATIONS**

EPIDIDYMIS	DUCT	EXFOLIATED GERM CELL	MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL
TESTIS	SEMINIFEROUS TUBULE	SPERMATID RETENTION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1449	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40454

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS TESTIS

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**OBSERVATIONS**

PROSTATE VENTRAL LOBE ATROPHY MINIMAL

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1451	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND223
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40360

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**TISSUE STATUS**

---

**No Visible Lesions**

EPIDIDYMIS TESTIS

---

**OBSERVATIONS**

PROSTATE VENTRAL LOBE ATROPHY MINIMAL

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1453	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND223
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40362

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	PROSTATE	TESTIS
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1455	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40364

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	TESTIS
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**OBSERVATIONS**

PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE INFILTRATION	MILD
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1457	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40365

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	TESTIS
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**OBSERVATIONS**

PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE INFILTRATION	MILD
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1459	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40366

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS TESTIS

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**OBSERVATIONS**

ADRENAL GLANDS		ATROPHY	DIFFUSE, MODERATE
		NO MICROSCOPIC FINDING RECORDED	
[ NO MICROSCOPIC FINDING RECORDED TGLS = 1-1 ]			
COWPERS GLANDS		NO MICROSCOPIC CORRELATION	
[ NO MICROSCOPIC CORRELATION TGLS = 2-9 ]			
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL
	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MINIMAL

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1463	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND223
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40493

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**TISSUE STATUS**

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**No Visible Lesions**

PROSTATE

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**OBSERVATIONS**

EPIDIDYMIS	DUCT	EXFOLIATED GERM CELL	MILD
TESTIS	GERM CELL	DEGENERATION	MODERATE

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1465	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND223
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40494

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	PROSTATE	TESTIS
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1467	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40495

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS TESTIS

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**OBSERVATIONS**

PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL
	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1469	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40496

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	PROSTATE	TESTIS
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1471	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40498

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	PROSTATE	TESTIS
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1477	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND223
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40374

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	PROSTATE	TESTIS
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1479	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND223
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40375

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	PROSTATE	TESTIS
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1481	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40376

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS TESTIS

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**OBSERVATIONS**

PROSTATE VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE INFILTRATION MILD

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1483	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40377

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	TESTIS
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**OBSERVATIONS**

PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE INFILTRATION	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1485	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40378

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS TESTIS

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**OBSERVATIONS**

PROSTATE VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE INFILTRATION MILD

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1487	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND223
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40407

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	PROSTATE
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**OBSERVATIONS**

PREPUTIAL GLANDS	UNILATERAL	INFLAMMATION, CHRONIC	ACTIVE, MODERATE
[ INFLAMMATION, CHRONIC TGLS = 1-11 ]			
TESTIS	SEMINIFEROUS TUBULE	SPERMATID RETENTION	MINIMAL

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1489	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND223
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40408

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	PROSTATE	TESTIS
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1491	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40409

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS TESTIS

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**OBSERVATIONS**

PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL
	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MILD

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1493	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40411

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	PROSTATE	TESTIS
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1495	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40412

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	PROSTATE	TESTIS
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1497	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND222
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40591

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	PROSTATE	TESTIS
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1499	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND222
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40592

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	PROSTATE	TESTIS
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1501	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND93
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40593

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	TESTIS
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**OBSERVATIONS**

PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE INFILTRATION	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1503	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND222
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40567

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**TISSUE STATUS**

---

**No Visible Lesions**

EPIDIDYMIS	PROSTATE	TESTIS
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1505	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND222
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40568

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	PROSTATE	TESTIS
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1507	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND93
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40569

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS TESTIS

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**OBSERVATIONS**

PROSTATE VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE INFILTRATION MINIMAL

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1509	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND222
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40577

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**TISSUE STATUS**

---

**No Visible Lesions**

EPIDIDYMIS	PROSTATE	TESTIS
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**OBSERVATIONS**

KIDNEYS	PELVIS, RIGHT	DILATION	MILD
		NEPHROPATHY, CHRONIC PROGRESSIVE	MILD

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[ DILATION TGLS = 1-2 ]

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1511	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND222
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40578

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**TISSUE STATUS**

---

**No Visible Lesions**

PROSTATE	TESTIS
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**OBSERVATIONS**

EPIDIDYMIS	DUCT	EXFOLIATED GERM CELL	MINIMAL
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MODERATE
	[ NEPHROPATHY, CHRONIC PROGRESSIVE TGLS = 1-2 ]		
TESTIS		NO MICROSCOPIC CORRELATION	
	[ NO MICROSCOPIC CORRELATION TGLS = 2-11 ]		

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1513	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND93
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40579

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**TISSUE STATUS**

---

**No Visible Lesions**

EPIDIDYMIS TESTIS

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**OBSERVATIONS**

PROSTATE VENTRAL LOBE ATROPHY MINIMAL

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1515	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND93
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40581

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	TESTIS
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**OBSERVATIONS**

PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE INFILTRATION	MILD
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1517	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND93
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40582

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	TESTIS
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**OBSERVATIONS**

LIMB [ DEFORMITY TGLS = 1-11 ]	BONE	DEFORMITY	MILD
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1519	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND221
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40631

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS	PROSTATE	TESTIS
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1521	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND221
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40632

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS PROSTATE

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**OBSERVATIONS**

TESTIS SEMINIFEROUS TUBULE SPERMATID RETENTION MILD

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1523	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND92
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40633

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS

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**OBSERVATIONS**

PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MINIMAL
TESTIS	SEMINIFEROUS TUBULE	SPERMATID RETENTION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1525	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND92
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40634

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS

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**OBSERVATIONS**

PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL
	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MINIMAL
TESTIS	GERM CELL	DEGENERATION	MINIMAL

---



**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1527	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND92
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40635

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**TISSUE STATUS**

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**No Visible Lesions**

EPIDIDYMIS TESTIS

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**OBSERVATIONS**

LUNGS		CONGESTION	DIFFUSE, MINIMAL
[ CONGESTION TGLS = 1-11 ]			
PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1601	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40007

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	PITUITARY GLAND	SEMINAL VESICLES	TESTIS
THYMUS	THYROID GLANDS		

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
LIVER		HEPATODIAPHRAGMATIC NODULE	MODERATE
	LYMPHOCYTE, PERIportal	INFILTRATION	MULTIFOCAL, MINIMAL
[ HEPATODIAPHRAGMATIC NODULE TGLS = 1-3 ]			
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1603	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40008

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**TISSUE STATUS**

**No Visible Lesions**

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ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	PITUITARY GLAND	SEMINAL VESICLES	TESTIS
THYMUS	THYROID GLANDS		

---

**OBSERVATIONS**

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KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
LIVER		CLEAR CELL FOCUS	
	HEPATOCYTE, CENTRILOBULAR	VACUOLATION	CYTOPLASMIC, DIFFUSE, MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1605	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40009

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	PITUITARY GLAND	SEMINAL VESICLES	TESTIS
THYMUS	THYROID GLANDS		

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER		CLEAR CELL FOCUS	
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1607	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40010

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	PITUITARY GLAND	TESTIS	THYMUS
THYROID GLANDS			

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
LIVER		HEPATODIAPHRAGMATIC NODULE	MODERATE
[ HEPATODIAPHRAGMATIC NODULE TGLS = 1-3 ]			
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL
SEMINAL VESICLES		ATROPHY	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1609	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40011

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE
LIVER	PITUITARY GLAND	SEMINAL VESICLES	TESTIS
THYMUS	THYROID GLANDS		

---

**OBSERVATIONS**

EPIDIDYMIS	DUCT	EXFOLIATED GERM CELL	MINIMAL
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1611	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40012

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

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**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1613	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40048

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

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**OBSERVATIONS**

KIDNEYS		MINERAL	MINIMAL
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1615	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40049

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

KIDNEYS		MINERAL	MINIMAL
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1617	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND188
<b>GENERATION:</b> F1			<b>DISP:</b> Euthanized Moribund	<b>HISTO:</b> 40051

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**TISSUE STATUS**

---

**No Visible Lesions**

COAGULATING GLANDS	COWPERS GLANDS	LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	PITUITARY GLAND
PROSTATE	SEMINAL VESICLES	TESTIS	THYMUS
THYROID GLANDS			

---

**OBSERVATIONS**

ADRENAL GLANDS		NEPHROBLASTOMA	MALIGNANT WITH METASTASIS
EPIDIDYMIS	DUCT, RIGHT	EXFOLIATED GERM CELL	MINIMAL
KIDNEYS		MINERAL	MINIMAL
		NEPHROBLASTOMA	
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
[ NEPHROBLASTOMA TGLS = 1-2 ]			
LIVER		HYPERTROPHY	DIFFUSE, HEPATOCELLULAR, MILD
SPLEEN		HEMATOPOIETIC CELL PROLIFERATION	EXTRAMEDULLARY, MODERATE
[ HEMATOPOIETIC CELL PROLIFERATION TGLS = 2-12 ]			

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1619	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40052

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

KIDNEYS		MINERAL	MINIMAL
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1621	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40054

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**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MILD

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1623	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40055

---

**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

KIDNEYS	PAPILLA, COLLECTING DUCT	DILATION NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL
	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1625	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40056

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

KIDNEYS		MINERAL NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL MINIMAL
PROSTATE	VENTRAL LOBE VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	ATROPHY INFILTRATION	MINIMAL MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1627	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40057

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1629	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40018

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

KIDNEYS	PELVIS	CONCRETION	FOCAL, MINIMAL
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MILD

---



**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1631	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40019

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1633	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40020

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	PITUITARY GLAND	SEMINAL VESICLES	TESTIS
THYMUS	THYROID GLANDS		

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER	LYMPHOCYTE, PERIportal	INFILTRATION	MULTIFOCAL, MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1635	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40021

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**TISSUE STATUS**

**No Visible Lesions**

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ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

---

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1637	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40022

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	PITUITARY GLAND	SEMINAL VESICLES	TESTIS
THYMUS	THYROID GLANDS		

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER		HEMATOPOIETIC CELL PROLIFERATION	EXTRAMEDULLARY, MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1639	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND223
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40118

---

**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
SEMINAL VESICLES	ATROPHY	MINIMAL

[ ATROPHY TGLS = 1-9 ]

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1641	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND223
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40119

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	PITUITARY GLAND	PROSTATE	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
LIMB		NO MICROSCOPIC CORRELATION	
[ NO MICROSCOPIC CORRELATION TGLS = 1-11 ]			
LIVER	HEPATOCYTE	VACUOLATION	CYTOPLASMIC, FOCAL, MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1643	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40120

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**TISSUE STATUS**

---

**No Visible Lesions**

COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS	LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE
LIVER	PITUITARY GLAND	SEMINAL VESICLES	TESTIS
THYMUS	THYROID GLANDS		

---

**OBSERVATIONS**

ADRENAL GLANDS	CORTEX	VACUOLATION	FOCAL, MINIMAL
KIDNEYS	PAPILLA	CYST	
		NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1645	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40121

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MINIMAL

---



**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1647	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40122

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE
LIVER	PITUITARY GLAND	PROSTATE	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

EPIDIDYMIS	DUCT	EXFOLIATED GERM CELL	MINIMAL
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1649	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40123

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1651	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40239

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	PITUITARY GLAND	SEMINAL VESICLES	TESTIS
THYMUS	THYROID GLANDS		

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
LIVER	BILE DUCT	HYPERPLASIA	FOCAL, MINIMAL
	LYMPHOCYTE, PERIportal	INFILTRATION	MULTIFOCAL, MINIMAL
	HEPATOCYTE	NECROSIS	FOCAL, MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1653	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40240

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**TISSUE STATUS**

**No Visible Lesions**

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ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE
LIVER	PITUITARY GLAND	SEMINAL VESICLES	THYMUS
THYROID GLANDS			

---

**OBSERVATIONS**

---

EPIDIDYMIS	DUCT, RIGHT	EXFOLIATED GERM CELL	MINIMAL
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
PROSTATE	VENTRAL LOBE	ATROPHY	MILD
TESTIS	GERMINAL EPITHELIUM	ATROPHY	MILD
	GERM CELL	DEGENERATION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1655	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40241

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**TISSUE STATUS**

**No Visible Lesions**

COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS	LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE
LIVER	PITUITARY GLAND	TESTIS	THYMUS
THYROID GLANDS			

---

**LOST IN PROCESSING**

SKIN

---

**OBSERVATIONS**

ADRENAL GLANDS		METAPLASIA	OSSEOUS, MINIMAL
KIDNEYS	PELVIS, RIGHT	DILATION	MINIMAL
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MILD
SEMINAL VESICLES		NO MICROSCOPIC CORRELATION	
[ NO MICROSCOPIC CORRELATION TGLS = 1-9 ]			
SKIN		NO MICROSCOPIC FINDING RECORDED	
Tissue Note: LOST IN PROCESSING			
[ NO MICROSCOPIC FINDING RECORDED TGLS = 2-11 ]			

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1657	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40242

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	TESTIS
THYMUS	THYROID GLANDS		

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MILD
SEMINAL VESICLES		NO MICROSCOPIC CORRELATION	

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[ NO MICROSCOPIC CORRELATION TGLS = 1-9 ]

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1659	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40111

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE
PITUITARY GLAND	SEMINAL VESICLES	THYMUS	THYROID GLANDS

---

**OBSERVATIONS**

EPIDIDYMIS	DUCT	EXFOLIATED GERM CELL	MILD
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER		CLEAR CELL FOCUS	
PROSTATE	VENTRAL LOBE	ATROPHY	MILD
TESTIS	GERM CELL	DEGENERATION	MINIMAL
	SEMIFEROUS TUBULE	SPERMATID RETENTION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1661	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40112

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MILD

---



**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1663	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40102

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**TISSUE STATUS**

---

**No Visible Lesions**

COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS	LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE
PITUITARY GLAND	SEMINAL VESICLES	TESTIS	THYMUS
THYROID GLANDS			

---

**OBSERVATIONS**

ADRENAL GLANDS	CORTEX	VACUOLATION	FOCAL, MILD
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
LIVER	LYMPHOCYTE, PERIportal	INFILTRATION	MULTIFOCAL, MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MILD

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1665	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40103

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	PITUITARY GLAND	SEMINAL VESICLES	TESTIS
THYMUS	THYROID GLANDS		

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER	LYMPHOCYTE, PERIportal	INFILTRATION	MULTIFOCAL, MINIMAL
	HEPATOCYTE	NECROSIS	FOCAL, MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MILD

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1667	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40211

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**TISSUE STATUS**

**No Visible Lesions**

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ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

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KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1669	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40212

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**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
THYMUS	THYROID GLANDS		

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MILD
TESTIS	GERM CELL	DEGENERATION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1671	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40213

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	PITUITARY GLAND	SEMINAL VESICLES	TESTIS
THYMUS	THYROID GLANDS		

---

**OBSERVATIONS**

DIAPHRAGM		NO MICROSCOPIC FINDING RECORDED	
[ NO MICROSCOPIC FINDING RECORDED TGLS = 1-3 ]			
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER		HEPATODIAPHRAGMATIC NODULE	MODERATE
PROSTATE	VENTRAL LOBE	ATROPHY	MILD

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1673	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40214

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**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE
LIVER	PITUITARY GLAND	SEMINAL VESICLES	THYMUS
THYROID GLANDS			

---

**OBSERVATIONS**

EPIDIDYMIS	DUCT, LEFT	EXFOLIATED GERM CELL	MINIMAL
[ EXFOLIATED GERM CELL TGLS = 1-11 ]			
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
PROSTATE	VENTRAL LOBE	ATROPHY	MILD
TESTIS	GERMINAL EPITHELIUM, LEFT	ATROPHY	MILD
	GERM CELL, LEFT	DEGENERATION	MILD
	SEMINIFEROUS TUBULE	SPERMATID RETENTION	MINIMAL
[ ATROPHY TGLS = 2-11 ]			

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1675	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40215

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	SEMINAL VESICLES	THYMUS
THYROID GLANDS			

---

**OBSERVATIONS**

KIDNEYS	PELVIS, RIGHT EPITHELIUM, TRANSITIONAL CELL	DILATION HYPERPLASIA NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL FOCAL, RIGHT, MINIMAL MINIMAL
PITUITARY GLAND	PARS DISTALIS	CYST	
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL
TESTIS	SEMINIFEROUS TUBULE	SPERMATID RETENTION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1677	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40216

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MILD
	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MINIMAL

---



**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1679	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40217

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
THYMUS	THYROID GLANDS		

---

**OBSERVATIONS**

KIDNEYS	PELVIS, RIGHT	DILATION	MILD
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MILD
TESTIS	SEMINIFEROUS TUBULE	SPERMATID RETENTION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1681	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40218

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE
LIVER	PITUITARY GLAND	SEMINAL VESICLES	THYMUS
THYROID GLANDS			

---

**OBSERVATIONS**

EPIDIDYMIS	DUCT	EXFOLIATED GERM CELL	MINIMAL
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL
TESTIS	SEMINIFEROUS TUBULE	SPERMATID RETENTION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1683	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND223
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40258

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**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1685	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND223
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40259

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**TISSUE STATUS**

**No Visible Lesions**

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ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	PROSTATE
SEMINAL VESICLES	TESTIS	THYMUS	THYROID GLANDS

---

**OBSERVATIONS**

---

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1687	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40260

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**TISSUE STATUS**

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**No Visible Lesions**

COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS	LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE
LIVER	PITUITARY GLAND	PROSTATE	SEMINAL VESICLES
TESTIS	THYMUS		

---

**OBSERVATIONS**

ADRENAL GLANDS	CORTEX	VACUOLATION, CYTOPLASMIC	DIFFUSE, MINIMAL
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
THYROID GLANDS	C-CELL	HYPERPLASIA	FOCAL, MILD

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1689	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40261

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1691	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40262

---

**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
THYMUS	THYROID GLANDS		

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL
	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MINIMAL
TESTIS	SEMINIFEROUS TUBULE	SPERMATID RETENTION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1693	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40263

---

**TISSUE STATUS**

**No Visible Lesions**

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ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

---

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL

---



**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1695	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40251

---

**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
THYMUS	THYROID GLANDS		

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	DORSAL LOBE, EPITHELIUM	ATROPHY	MINIMAL
	VENTRAL LOBE	ATROPHY	MODERATE
TESTIS	SEMINIFEROUS TUBULE	SPERMATID RETENTION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1697	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40252

---

**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	PITUITARY GLAND	SEMINAL VESICLES	TESTIS
THYMUS	THYROID GLANDS		

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER	LYMPHOCYTE, PERIportal	INFILTRATION	MULTIFOCAL, MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1699	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40311

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	PITUITARY GLAND	SEMINAL VESICLES	TESTIS
THYMUS	THYROID GLANDS		

---

**OBSERVATIONS**

KIDNEYS		MINERAL NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL MINIMAL
LIVER		CLEAR CELL FOCUS	
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1701	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND224
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40312

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	PITUITARY GLAND	SEMINAL VESICLES	THYMUS
THYROID GLANDS			

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER		HEPATODIAPHRAGMATIC NODULE	MODERATE
[ HEPATODIAPHRAGMATIC NODULE TGLS = 1-3 ]			
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL
TESTIS	GERM CELL	DEGENERATION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1703	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND223
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40388

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1705	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND223
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40390

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MILD

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1707	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND223
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40391

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**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1709	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND223
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40423

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**TISSUE STATUS**

---

**No Visible Lesions**

COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS	LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE
PITUITARY GLAND	SEMINAL VESICLES	TESTIS	THYMUS
THYROID GLANDS			

---

**OBSERVATIONS**

ADRENAL GLANDS	CORTEX	HYPERTROPHY	FOCAL, MINIMAL
	CORTEX	VACUOLATION	FOCAL, MINIMAL
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER		HEPATODIAPHRAGMATIC NODULE	MILD
[ HEPATODIAPHRAGMATIC NODULE TGLS = 1-3 ]			
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL

---



**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1711	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND223
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40424

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	PITUITARY GLAND	SEMINAL VESICLES	TESTIS
THYMUS	THYROID GLANDS		

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER	LYMPHOCYTE, PERIportal	INFILTRATION	MULTIFOCAL, MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MILD

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1713	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40425

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE
LIVER	PITUITARY GLAND	SEMINAL VESICLES	THYMUS
THYROID GLANDS			

---

**OBSERVATIONS**

EPIDIDYMIS	DUCT	EXFOLIATED GERM CELL	MILD
KIDNEYS	PELVIS, RIGHT	DILATION	MODERATE
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
[ DILATION TGLS = 1-2 ]			
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL
	VENTRAL LOBE, INTERSTITIUM, LYMPHOCYTE	INFILTRATION	MINIMAL
TESTIS	GERM CELL	DEGENERATION	MILD
	SEMINIFEROUS TUBULE	SPERMATID RETENTION	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1715	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40426

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	PITUITARY GLAND	SEMINAL VESICLES	TESTIS
THYMUS	THYROID GLANDS		

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER		DEFORMITY	MILD
[ DEFORMITY TGLS = 1-3 ]			
PROSTATE	VENTRAL LOBE	ATROPHY	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1717	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND222
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40537

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MILD

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1719	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND221
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40614

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**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	COAGULATING GLANDS	COWPERS GLANDS	EPIDIDYMIS
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	LIVER	PITUITARY GLAND	SEMINAL VESICLES
TESTIS	THYMUS	THYROID GLANDS	

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PROSTATE	VENTRAL LOBE	ATROPHY	MILD

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1002	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND223
<b>GENERATION:</b> F1			<b>DISP:</b> Euthanized Moribund	<b>HISTO:</b> 39959

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**TISSUE STATUS**

**No Visible Lesions**

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CERVIX	LIVER	MAMMARY GLANDS	OVARIES
PITUITARY GLAND	THYROID GLANDS	UTERUS	VAGINA

---

**LOST IN PROCESSING**

BRAIN

**OBSERVATIONS**

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ADRENAL GLANDS [ NO MICROSCOPIC CORRELATION TGLS = 1-1 ]		NO MICROSCOPIC CORRELATION	
KIDNEYS [ NEPHROBLASTOMA TGLS = 2-2, 3-2, 4-2 ]		NEPHROBLASTOMA	
LYMPH NODE, MEDIASTINAL [ CONGESTION TGLS = 5-13, 6-13 ]		CONGESTION	MILD
THYMUS CORTEX		DECREASED LYMPHOCYTE	DIFFUSE, MINIMAL
URINARY BLADDER [ NO MICROSCOPIC CORRELATION TGLS = 7-11 ] [ NO MICROSCOPIC FINDING RECORDED TGLS = 8-11 ]		NO MICROSCOPIC CORRELATION NO MICROSCOPIC FINDING RECORDED	

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1004	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39960

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIMB	LIVER
MAMMARY GLANDS	OVARIES	PITUITARY GLAND	THYMUS
THYROID GLANDS	UTERUS	VAGINA	

---

**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1006	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39961

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	KIDNEYS	LIVER
MAMMARY GLANDS	OVARIES	PITUITARY GLAND	THYMUS
THYROID GLANDS	UTERUS	VAGINA	

---



**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1008	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39962

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
VAGINA			

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**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
UTERUS	ENDOMETRIUM	HYPERPLASIA	CYSTIC, MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1010	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39964

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1012	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> GD23
<b>GENERATION:</b> F1			<b>DISP:</b> Euthanized Moribund	<b>HISTO:</b> 39987

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYROID GLANDS	UTERUS
VAGINA			

---

**OBSERVATIONS**

KIDNEYS	PELVIS	CONCRETION	FOCAL, MINIMAL
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
THYMUS	CORTEX	DECREASED LYMPHOCYTE	DIFFUSE, MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1014	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39988

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	OVARIES
PITUITARY GLAND	THYMUS	THYROID GLANDS	UTERUS
VAGINA			

---

**OBSERVATIONS**

KIDNEYS	PELVIS	CONCRETION	FOCAL, MINIMAL
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
MAMMARY GLANDS		FIBROADENOMA	
[ FIBROADENOMA TGLS = 1-11 ]			

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1016	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39989

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1018	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39991

---

**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS  
PITUITARY GLAND

KIDNEYS  
THYMUS

MAMMARY GLANDS  
THYROID GLANDS

OVARIES  
UTERUS

---

**OBSERVATIONS**

CERVIX  
LIVER  
VAGINA

ENDOMETRIUM  
LYMPHOCYTE

CYST  
INFILTRATION  
MUCIFICATION

MULTIFOCAL, MINIMAL  
MODERATE

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1020	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39992

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

---

**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1022	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39921

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYROID GLANDS	UTERUS
VAGINA			

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
THYMUS	CORTEX	DECREASED LYMPHOCYTE	DIFFUSE, MINIMAL

---



**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1024	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND142
<b>GENERATION:</b> F1			<b>DISP:</b> Euthanized Humane	<b>HISTO:</b> 39922

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**TISSUE STATUS**

---

**No Visible Lesions**

CERVIX	OVARIES	PITUITARY GLAND	THYROID GLANDS
UTERUS	VAGINA		

---

**OBSERVATIONS**

ADRENAL GLANDS	LYMPHOCYTE	INFILTRATION	MULTIFOCAL, MINIMAL
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER	LYMPHOCYTE, PERIportal	INFILTRATION	MULTIFOCAL, MINIMAL
MAMMARY GLANDS		LACTATION	
[ LACTATION TGLS = 1-10 ]			
SKIN		ABSCESS	MARKED
[ ABSCESS TGLS = 1-10 ]			
THYMUS	CORTEX	DECREASED LYMPHOCYTE	DIFFUSE, MODERATE

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1026	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39923

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1028	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39924

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	KIDNEYS	LIVER
MAMMARY GLANDS	OVARIES	PITUITARY GLAND	THYMUS
THYROID GLANDS	UTERUS	VAGINA	

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1030	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39925

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	KIDNEYS	LIVER
MAMMARY GLANDS	OVARIES	PITUITARY GLAND	THYMUS
THYROID GLANDS	UTERUS	VAGINA	

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1034	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39999

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	KIDNEYS	MAMMARY GLANDS	OVARIES
PITUITARY GLAND	THYMUS	THYROID GLANDS	UTERUS

---

**OBSERVATIONS**

CERVIX	SEROSA	CYST	
LIMB	BONE	DEFORMITY	MILD
[ DEFORMITY TGLS = 2-11 ]			
LIVER	LYMPHOCYTE, PERIportal	HEPATODIAPHRAGMATIC NODULE INFILTRATION	MILD MULTIFOCAL, MINIMAL
[ HEPATODIAPHRAGMATIC NODULE TGLS = 1-12 ]			
VAGINA		MUCIFICATION	MODERATE

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1036	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40000

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	KIDNEYS	LIVER
MAMMARY GLANDS	OVARIES	PITUITARY GLAND	THYMUS
THYROID GLANDS	UTERUS	VAGINA	

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**OBSERVATIONS**

LIMB	BONE	DEFORMITY	MILD
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[ DEFORMITY TGLS = 1-11 ]

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1038	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40001

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	KIDNEYS	LIVER
MAMMARY GLANDS	OVARIES	PITUITARY GLAND	THYMUS
THYROID GLANDS	VAGINA		

---

**OBSERVATIONS**

LIMB	BONE	DEFORMITY	MILD
[ DEFORMITY TGLS = 1-11 ]			
UTERUS	ENDOMETRIUM	HYPERPLASIA	CYSTIC, MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1040	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40038

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	UTERUS
VAGINA			

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIMB	BONE	DEFORMITY	MODERATE
[ DEFORMITY TGLS = 1-11 ]			
THYROID GLANDS		INFLAMMATION	CHRONIC ACTIVE, MINIMAL

---



**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1042	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND251
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40039

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYROID GLANDS	UTERUS
VAGINA			

---

**OBSERVATIONS**

KIDNEYS	PELVIS	CONCRETION NEPHROPATHY, CHRONIC PROGRESSIVE	FOCAL, MINIMAL MINIMAL
LIMB [ DEFORMITY TGLS = 1-11 ]	BONE	DEFORMITY	MILD
THYMUS	CORTEX	DECREASED LYMPHOCYTE	DIFFUSE, MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1044	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40040

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

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**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIMB	BONE	DEFORMITY	MILD
		NO MICROSCOPIC FINDING RECORDED	

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[ NO MICROSCOPIC FINDING RECORDED TGLS = 1-11 ]

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1046	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40041

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1048	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40043

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	KIDNEYS	LIVER
MAMMARY GLANDS	OVARIES	PITUITARY GLAND	THYMUS
THYROID GLANDS	UTERUS	VAGINA	

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1050	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40044

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS  
MAMMARY GLANDS  
THYROID GLANDS

CERVIX  
OVARIES  
UTERUS

KIDNEYS  
PITUITARY GLAND  
VAGINA

LIVER  
THYMUS

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1054	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40078

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

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**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1056	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40079

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

---

**OBSERVATIONS**

KIDNEYS	PELVIS	CONCRETION	FOCAL, MINIMAL
		MINERAL	MINIMAL
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1058	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40080

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
PITUITARY GLAND	THYMUS	UTERUS	VAGINA

---

**OBSERVATIONS**

KIDNEYS		MINERAL	MINIMAL
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
OVARIES		CYST	
[ CYST TGLS = 1-8 ]			
THYROID GLANDS	C-CELL	HYPERPLASIA	FOCAL, MINIMAL

---



**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1060	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40081

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS  
PITUITARY GLAND

CERVIX  
THYMUS

MAMMARY GLANDS  
THYROID GLANDS

OVARIES  
UTERUS

**OBSERVATIONS**

KIDNEYS  
LIVER  
VAGINA

LYMPHOCYTE

NEPHROPATHY, CHRONIC PROGRESSIVE  
INFILTRATION  
MUCIFICATION

MINIMAL  
MULTIFOCAL, MINIMAL  
MODERATE

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1062	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40082

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	KIDNEYS	LIVER
MAMMARY GLANDS	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS			

---

**OBSERVATIONS**

OVARIES	CORPUS LUTEUM	CYST	
VAGINA		MUCIFICATION	MODERATE

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1064	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40086

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	KIDNEYS	LIVER
MAMMARY GLANDS	OVARIES	PITUITARY GLAND	THYMUS
THYROID GLANDS	VAGINA		

---

**OBSERVATIONS**

UTERUS	SUBSEROSA	CYST	
	ENDOMETRIUM	HYPERPLASIA	CYSTIC, MILD

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1066	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40196

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	OVARIES
PITUITARY GLAND	THYMUS	UTERUS	VAGINA

---

**OBSERVATIONS**

CLITORAL GLANDS	DUCT	ECTASIA	MINIMAL
KIDNEYS	PELVIS	CONCRETION	FOCAL, MINIMAL
		MINERAL	MINIMAL
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
MAMMARY GLANDS		FIBROADENOMA	
Observation Comment: MASS IS MOVABLE [ FIBROADENOMA TGLS = 1-11 ]			
THYROID GLANDS	C-CELL	HYPERPLASIA	FOCAL, MINIMAL
Tissue Note: ONE OF A PAIR PRESENT.			

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1068	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND250
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40197

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	KIDNEYS	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

---

**OBSERVATIONS**

LIMB	BONE	DEFORMITY	MILD
[ DEFORMITY TGLS = 1-11 ]			
LIVER	LYMPHOCYTE, PERIportal	INFILTRATION	MULTIFOCAL, MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1070	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40198

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**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	THYROID GLANDS	UTERUS	VAGINA

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**LOST AT NECROPSY**

PITUITARY GLAND

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**OBSERVATIONS**

KIDNEYS		MINERAL NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL MINIMAL
LIMB [ DEFORMITY TGLS = 1-11 ]	BONE	DEFORMITY	MILD
THYMUS	CORTEX	DECREASED LYMPHOCYTE	DIFFUSE, MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1072	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40199

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS			

---

**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
VAGINA	MUCIFICATION	MODERATE

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1074	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40200

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS			

---

**OBSERVATIONS**

KIDNEYS		MINERAL	MINIMAL
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIMB	BONE	DEFORMITY	MILD
[ DEFORMITY TGLS = 1-11 ]			
VAGINA		MUCIFICATION	MODERATE

---



**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1076	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40201

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	KIDNEYS	LIVER
MAMMARY GLANDS	OVARIES	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

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**OBSERVATIONS**

PITUITARY GLAND	PARS DISTALIS	CYST	
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1080	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40146

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	MAMMARY GLANDS	OVARIES
PITUITARY GLAND	THYMUS	THYROID GLANDS	UTERUS

---

**OBSERVATIONS**

CLITORAL GLANDS	DUCT	ECTASIA	MILD
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER	LYMPHOCYTE, PERIportal	INFILTRATION	MULTIFOCAL, MINIMAL
VAGINA		MUCIFICATION	MODERATE

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1082	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND250
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40147

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIMB	LIVER
MAMMARY GLANDS	OVARIES	PITUITARY GLAND	THYMUS
THYROID GLANDS	UTERUS	VAGINA	

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1084	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40149

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	KIDNEYS	LIVER
MAMMARY GLANDS	OVARIES	PITUITARY GLAND	THYMUS
THYROID GLANDS	UTERUS	VAGINA	

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1086	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40150

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1088	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40151

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	MAMMARY GLANDS	OVARIES
PITUITARY GLAND	THYMUS	THYROID GLANDS	UTERUS
VAGINA			

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**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER	LYMPHOCYTE	INFILTRATION	MULTIFOCAL, MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1090	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40327

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1092	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40328

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	UTERUS

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
THYROID GLANDS	C-CELL	HYPERPLASIA	FOCAL, MINIMAL
VAGINA		MUCIFICATION	MODERATE

---



**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1094	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40329

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	KIDNEYS	LIVER
MAMMARY GLANDS	OVARIES	PITUITARY GLAND	THYMUS
THYROID GLANDS	UTERUS	VAGINA	

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1096	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND248
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40519

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIMB	LIVER
MAMMARY GLANDS	OVARIES	PITUITARY GLAND	THYMUS
THYROID GLANDS	UTERUS	VAGINA	

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1098	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40520

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIMB	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER	LYMPHOCYTE, PERIPORTAL	INFILTRATION	MULTIFOCAL, MINIMAL

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1100	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40484

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	KIDNEYS	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
VAGINA			

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**OBSERVATIONS**

LIMB	BONE	DEFORMITY	MILD
		NO MICROSCOPIC FINDING RECORDED	
[ NO MICROSCOPIC FINDING RECORDED TGLS = 1-11 ]			
LIVER		INFLAMMATION, CHRONIC	ACTIVE, FOCAL, MINIMAL
UTERUS	ENDOMETRIUM	HYPERPLASIA	CYSTIC, MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1102	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND248
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40486

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	KIDNEYS	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
VAGINA			

---

**OBSERVATIONS**

LIVER	LYMPHOCYTE, PERIPORTAL	INFILTRATION	MULTIFOCAL, MINIMAL
UTERUS	ENDOMETRIUM	HYPERPLASIA	CYSTIC, MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1104	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40487

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	KIDNEYS	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

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**OBSERVATIONS**

LIVER	LYMPHOCYTE	INFILTRATION	MULTIFOCAL, MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1106	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40488

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**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

---

**LOST IN PROCESSING**

LIMB

---

**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
PAW	NO MICROSCOPIC FINDING RECORDED	

Tissue Note: LOST IN PROCESSING

[ NO MICROSCOPIC FINDING RECORDED TGLS = 1-11 ]

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1108	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40489

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	KIDNEYS	LIVER
MAMMARY GLANDS	OVARIES	PITUITARY GLAND	THYMUS
THYROID GLANDS	UTERUS	VAGINA	

---



**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1112	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40334

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1114	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40335

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

---

**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1116	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40336

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1118	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40337

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

---

**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1120	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40338

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

---

**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1130	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40352

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1132	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND248
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40353

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

---

**OBSERVATIONS**

KIDNEYS	PELVIS	CONCRETION NEPHROPATHY, CHRONIC PROGRESSIVE	FOCAL, MINIMAL MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1134	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40354

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	KIDNEYS	LIVER
MAMMARY GLANDS	OVARIES	PITUITARY GLAND	THYMUS
THYROID GLANDS	UTERUS	VAGINA	

---



**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1136	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40356

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	KIDNEYS	LIVER
MAMMARY GLANDS	OVARIES	PITUITARY GLAND	SPLEEN
THYMUS	THYROID GLANDS	UTERUS	VAGINA

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1138	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40357

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**TISSUE STATUS**

**No Visible Lesions**

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ADRENAL GLANDS	CERVIX	KIDNEYS	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
VAGINA			

---

**LOST IN PROCESSING**

LYMPH NODE, INGUINAL

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**OBSERVATIONS**

---

LIVER	LYMPHOCYTE	INFILTRATION	MULTIFOCAL, MINIMAL
LYMPH NODE		NO MICROSCOPIC FINDING RECORDED	
Tissue Note: LOST IN PROCESSING			
[ NO MICROSCOPIC FINDING RECORDED TGLS = 1-11 ]			
UTERUS	SUBSEROSA	CYST	

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1142	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND248
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40444

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYROID GLANDS	UTERUS
VAGINA			

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MODERATE
LIMB	BONE	DEFORMITY	MILD
[ DEFORMITY TGLS = 1-11 ]			
THYMUS	CORTEX	DECREASED LYMPHOCYTE	DIFFUSE, MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1144	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD27
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40445

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

---

**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1146	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40446

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	SPLEEN	THYMUS
THYROID GLANDS	VAGINA		

---

**OBSERVATIONS**

KIDNEYS		MINERAL	MINIMAL
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
UTERUS	ENDOMETRIUM	HYPERPLASIA	CYSTIC, MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1148	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40447

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
SKIN	NO MICROSCOPIC CORRELATION	

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[ NO MICROSCOPIC CORRELATION TGLS = 1-11 ]

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1150	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40448

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1154	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40527

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**TISSUE STATUS**

---

**No Visible Lesions**

CERVIX	LIVER	MAMMARY GLANDS	OVARIES
PITUITARY GLAND	THYMUS	UTERUS	VAGINA

---

**OBSERVATIONS**

ADRENAL GLANDS	CORTEX	HYPERTROPHY	FOCAL, MILD
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIMB	BONE	DEFORMITY	MILD
[ DEFORMITY TGLS = 1-11 ]			
THYROID GLANDS	C-CELL	HYPERPLASIA	FOCAL, MINIMAL

---



**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1156	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40529

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS  
PITUITARY GLAND  
VAGINA

CERVIX  
THYMUS

MAMMARY GLANDS  
THYROID GLANDS

OVARIES  
UTERUS

---

**OBSERVATIONS**

KIDNEYS

PELVIS

CONCRETION  
NEPHROPATHY, CHRONIC PROGRESSIVE

FOCAL, MINIMAL  
MINIMAL

LIVER

LYMPHOCYTE, PERIportal

INFILTRATION

MULTIFOCAL, MINIMAL

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1158	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND93
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40530

---

**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	KIDNEYS	LIMB
LIVER	MAMMARY GLANDS	OVARIES	PITUITARY GLAND
THYMUS	THYROID GLANDS	UTERUS	VAGINA

---

**LOST IN PROCESSING**

LYMPH NODE, MEDIASTINAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1160	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND93
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40531

---

**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	LYMPH NODE, MEDIASTINAL
MAMMARY GLANDS	OVARIES	PITUITARY GLAND	THYMUS
THYROID GLANDS	UTERUS	VAGINA	

---

**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1162	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND93
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40532

---

**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

---

**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1166	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40557

---

**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	VAGINA

---

**OBSERVATIONS**

KIDNEYS	PELVIS	CONCRETION NEPHROPATHY, CHRONIC PROGRESSIVE	FOCAL, MINIMAL MILD
THYROID GLANDS	C-CELL	HYPERPLASIA	FOCAL, MILD
UTERUS		NO MICROSCOPIC CORRELATION	

[ NO MICROSCOPIC CORRELATION TGLS = 1-7 ]

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1168	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND247
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40558

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYROID GLANDS	VAGINA

---

**OBSERVATIONS**

KIDNEYS		MINERAL	MINIMAL
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
THYMUS	CORTEX	DECREASED LYMPHOCYTE	DIFFUSE, MINIMAL
UTERUS	ENDOMETRIUM	HYPERPLASIA	CYSTIC, MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1170	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND93
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40559

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	KIDNEYS	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

---

**OBSERVATIONS**

LIMB	BONE	DEFORMITY	MILD
[ DEFORMITY TGLS = 1-11 ]			
LIVER		INFLAMMATION, CHRONIC	ACTIVE, FOCAL, MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1172	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND93
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40560

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
VAGINA			

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
UTERUS	SUBSEROSA	CYST	
[ CYST TGLS = 1-7, 2-7 ]			

---



**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1174	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND93
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40563

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	KIDNEYS	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

---

**OBSERVATIONS**

LIVER	HEPATODIAPHRAGMATIC NODULE	MILD
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[ HEPATODIAPHRAGMATIC NODULE TGLS = 1-11 ]

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1178	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND246
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40608

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
VAGINA			

---

**OBSERVATIONS**

KIDNEYS		MINERAL NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL MILD
UTERUS	SUBSEROSA ENDOMETRIUM	CYST HYPERPLASIA	CYSTIC, MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1180	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40609

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	MAMMARY GLANDS	OVARIES
PITUITARY GLAND	THYMUS	THYROID GLANDS	VAGINA

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER	LYMPHOCYTE, PERIportal	INFILTRATION	MULTIFOCAL, MINIMAL
UTERUS	ENDOMETRIUM	HYPERPLASIA	CYSTIC, MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1182	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND92
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40610

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

---

**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
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---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1184	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND92
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40611

---

**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

---

**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
---------	----------------------------------	---------

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1186	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND92
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40612

---

**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

---

**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
---------	----------------------------------	------

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1188	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40710

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	MAMMARY GLANDS	OVARIES
PITUITARY GLAND	THYMUS	THYROID GLANDS	UTERUS
VAGINA			

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER	LYMPHOCYTE, PERIportal	INFILTRATION	MULTIFOCAL, MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1190	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40711

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
VAGINA			

---

**OBSERVATIONS**

CLITORAL GLANDS [ ECTASIA TGLS = 1-12 ]	DUCT, UNILATERAL	ECTASIA	MILD
KIDNEYS	PELVIS	CONCRETION NEPHROPATHY, CHRONIC PROGRESSIVE	FOCAL, MINIMAL MINIMAL
LIMB [ DEFORMITY TGLS = 2-11 ]	BONE	DEFORMITY	MILD
UTERUS	ENDOMETRIUM	POLYP	STROMAL

---



**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1192	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40712

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

---

**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1194	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40713

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
VAGINA			

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
UTERUS	SUBSEROSA	CYST	
[ CYST TGLS = 1-7 ]			

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1196	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40714

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

---

**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1198	<b>TRT#:</b> F1-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40731

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
VAGINA			

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
UTERUS	ENDOMETRIUM	HYPERPLASIA	CYSTIC, MILD

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1302	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39869

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**TISSUE STATUS**

---

**No Visible Lesions**

CERVIX	LIVER	MAMMARY GLANDS	PITUITARY GLAND
THYMUS	THYROID GLANDS	UTERUS	VAGINA

---

**OBSERVATIONS**

ADRENAL GLANDS	CORTEX	VACUOLATION	FOCAL, MILD
KIDNEYS	PAPILLA	CYST	
		MINERAL	MINIMAL
		NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
OVARIES	FOLLICLE	CYST	
[ CYST TGLS = 1-9 ]			
SKIN		ALOPECIA	MODERATE
[ ALOPECIA TGLS = 2-11, 3-11A ]			

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1304	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39871

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	UTERUS
VAGINA			

---

**OBSERVATIONS**

KIDNEYS		MINERAL	MINIMAL
		NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
THYROID GLANDS	C-CELL	HYPERPLASIA	FOCAL, MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1306	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39872

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**OBSERVATIONS**

KIDNEYS	MINERAL	MILD
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1308	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39873

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**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1310	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39874

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**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1312	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39907

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	MAMMARY GLANDS	OVARIES
PITUITARY GLAND	THYMUS	THYROID GLANDS	UTERUS
VAGINA			

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**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER	LYMPHOCYTE, PERIportal	INFILTRATION	MULTIFOCAL, MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1314	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39908

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

---

**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
	NEPHROPATHY, CHRONIC PROGRESSIVE	MILD

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1316	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39909

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**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1318	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39910

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**OBSERVATIONS**

KIDNEYS		MINERAL		MILD
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1320	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39911

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**OBSERVATIONS**

KIDNEYS		MINERAL		MILD
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1322	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39933

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	OVARIES
PITUITARY GLAND	THYROID GLANDS	UTERUS	VAGINA

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**OBSERVATIONS**

KIDNEYS		MINERAL	MINIMAL
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
MAMMARY GLANDS		FIBROADENOMA	
[ FIBROADENOMA TGLS = 1-10A ]			
THYMUS	CORTEX	DECREASED LYMPHOCYTE	DIFFUSE, MILD

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1324	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39934

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**TISSUE STATUS**

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**No Visible Lesions**

CERVIX	LIVER	MAMMARY GLANDS	OVARIES
PITUITARY GLAND	THYMUS	THYROID GLANDS	UTERUS
VAGINA			

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**OBSERVATIONS**

ADRENAL GLANDS	CORTEX	VACUOLATION	FOCAL, MILD
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1326	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39935

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**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1328	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39936

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**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1330	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39937

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**TISSUE STATUS**

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**No Visible Lesions**  
KIDNEYS

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1336	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39970

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1338	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39971

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	OVARIES
PITUITARY GLAND	THYROID GLANDS	UTERUS	VAGINA

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
MAMMARY GLANDS		NO MICROSCOPIC CORRELATION	
[ NO MICROSCOPIC CORRELATION TGLS = 1-10 ]			
THYMUS	CORTEX	DECREASED LYMPHOCYTE	DIFFUSE, MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

**ANIMAL ID:** 1340  
**GENERATION:** F1

**TRT#:** F1-2

**DOSE:** 750 ppm

**SEX:** Female

**REMOVAL DAY:** PND91

**DISP:** Scheduled Removal (Terminal)

**HISTO:** 39972

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**TISSUE STATUS**

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**No Visible Lesions**  
KIDNEYS

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1342	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND144
<b>GENERATION:</b> F1			<b>DISP:</b> Euthanized Moribund	<b>HISTO:</b> 39945

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	OVARIES
PITUITARY GLAND	THYROID GLANDS	UTERUS	VAGINA

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**OBSERVATIONS**

KIDNEYS		MINERAL	MINIMAL
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
MAMMARY GLANDS		INFLAMMATION, ACUTE	FOCAL, MODERATE
		NECROSIS	FOCAL, MODERATE
[ INFLAMMATION, ACUTE TGLS = 1-11 ]			
[ NECROSIS TGLS = 1-11 ]			
THYMUS	CORTEX	DECREASED LYMPHOCYTE	DIFFUSE, MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1344	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39946

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

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**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL

---



**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1346	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39947

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**OBSERVATIONS**

KIDNEYS		MINERAL		MILD
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1348	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39948

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**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1350	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39949

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**OBSERVATIONS**

KIDNEYS		MINERAL		MILD
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1352	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39893

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1354	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39894

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1356	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 39895

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**OBSERVATIONS**

KIDNEYS		MINERAL		MODERATE
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1358	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40092

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	MAMMARY GLANDS	OVARIES
PITUITARY GLAND	VAGINA		

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**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER	LYMPHOCYTE, PERIPORTAL	INFILTRATION	MULTIFOCAL, MINIMAL
THYMUS	CORTEX	DECREASED LYMPHOCYTE	DIFFUSE, MINIMAL
THYROID GLANDS	C-CELL	HYPERPLASIA	FOCAL, MINIMAL
UTERUS	SUBSEROSA	CYST	

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1360	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND250
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40093

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**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYROID GLANDS	UTERUS
VAGINA			

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**LOST IN PROCESSING**

THYMUS

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1362	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40094

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**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1364	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40095

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**OBSERVATIONS**

KIDNEYS			MINERAL	MINIMAL
LIMB	BONE		DEFORMITY	MODERATE
[ DEFORMITY TGLS = 1-11 ]				

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1366	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40096

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**OBSERVATIONS**

KIDNEYS			MINERAL	MINIMAL
LIMB	BONE		DEFORMITY	MILD
[ DEFORMITY TGLS = 1-11 ]				

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1372	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40158

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

---

**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1374	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40159

---

**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
PITUITARY GLAND	THYROID GLANDS	UTERUS	VAGINA

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
OVARIES	CORPUS LUTEUM	CYST	
[ CYST TGLS = 1-8 ]			
THYMUS	CORTEX	DECREASED LYMPHOCYTE	DIFFUSE, MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1376	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40160

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**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

**ANIMAL ID:** 1378  
**GENERATION:** F1

**TRT#:** F1-2

**DOSE:** 750 ppm

**SEX:** Female

**REMOVAL DAY:** PND91

**DISP:** Scheduled Removal (Terminal)

**HISTO:** 40161

---

**TISSUE STATUS**

---

**No Visible Lesions**

KIDNEYS

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**OBSERVATIONS**

OVARIES

NO MICROSCOPIC CORRELATION

[ NO MICROSCOPIC CORRELATION TGLS = 1-9 ]

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1380	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40162

---

**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1384	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD14
<b>GENERATION:</b> F1			<b>DISP:</b> Found Dead	<b>HISTO:</b> 40233

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Animal Note: Animal was too autolyzed to save tissues.

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1386	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD0
<b>GENERATION:</b> F1			<b>DISP:</b> Euthanized Moribund	<b>HISTO:</b> 40234

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**TISSUE STATUS**

**No Visible Lesions**

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ADRENAL GLANDS	KIDNEYS	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

---

**LOST IN PROCESSING**

CERVIX

**OBSERVATIONS**

---

PLACENTA	INFLAMMATION, ACUTE	MULTIFOCAL, MILD
	NECROSIS	MULTIFOCAL, MILD

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1388	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40235

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**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1390	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40236

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**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1392	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40237

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**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1394	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD26
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40177

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**TISSUE STATUS**

**No Visible Lesions**

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ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	UTERUS
VAGINA			

---

**OBSERVATIONS**

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KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
THYROID GLANDS	C-CELL	HYPERPLASIA	FOCAL, MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1396	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40178

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	MAMMARY GLANDS	OVARIES
PITUITARY GLAND	THYMUS	THYROID GLANDS	UTERUS
VAGINA			

---

**OBSERVATIONS**

KIDNEYS		MINERAL	MILD
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER	LYMPHOCYTE, PERIportal	INFILTRATION	MULTIFOCAL, MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1398	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40179

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**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
UTERUS	NO MICROSCOPIC CORRELATION	

[ NO MICROSCOPIC CORRELATION TGLS = 1-6, 1-7, 2-6, 2-7 ]

---



**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1400	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40180

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**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1402	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40181

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**TISSUE STATUS**

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**No Visible Lesions**  
KIDNEYS

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1406	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40286

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
VAGINA			

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**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
UTERUS	HORN	DECIDUAL ALTERATION	MILD
[ DECIDUAL ALTERATION TGLS = 1-7 ]			

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1408	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40287

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

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**OBSERVATIONS**

KIDNEYS	PELVIS	CONCRETION NEPHROPATHY, CHRONIC PROGRESSIVE	FOCAL, MINIMAL MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1410	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40288

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**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1412	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40289

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**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1414	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40297

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

---

**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1416	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND249
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40298

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	MAMMARY GLANDS	PITUITARY GLAND
THYMUS	THYROID GLANDS	UTERUS	VAGINA

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER	LYMPHOCYTE, PERIportal	INFILTRATION	MULTIFOCAL, MINIMAL
OVARIES	FOLLICLE	CYST	

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1418	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40299

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**TISSUE STATUS**

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**No Visible Lesions**  
KIDNEYS

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1420	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40301

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**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1422	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40302

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**TISSUE STATUS**

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**No Visible Lesions**  
KIDNEYS

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1426	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40471

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
PITUITARY GLAND	THYMUS	THYROID GLANDS	UTERUS
VAGINA			

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**OBSERVATIONS**

KIDNEYS		MINERAL	MINIMAL
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
OVARIES	CORPUS LUTEUM	CYST	

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1428	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND248
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40472

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	MAMMARY GLANDS	OVARIES
PITUITARY GLAND	THYMUS	THYROID GLANDS	UTERUS
VAGINA			

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**OBSERVATIONS**

KIDNEYS		MINERAL NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL MINIMAL
LIVER	SUBCAPSULAR SUBCAPSULAR LYMPHOCYTE, PERIPORTAL	FIBROSIS HEMORRHAGE INFILTRATION	FOCAL, MINIMAL FOCAL, MINIMAL MULTIFOCAL, MINIMAL

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1430	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40473

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**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1432	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40474

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**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1434	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40475

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**OBSERVATIONS**

KIDNEYS		MINERAL		MILD
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1436	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40455

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1438	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40456

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1440	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40457

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**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1442	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40459

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**TISSUE STATUS**

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**No Visible Lesions**  
KIDNEYS

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**OBSERVATIONS**

LIVER	HEPATODIAPHRAGMATIC NODULE	MILD
[ HEPATODIAPHRAGMATIC NODULE TGLS = 1-11 ]		

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1444	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40460

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**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1450	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40370

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	THYROID GLANDS	UTERUS	VAGINA

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**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
LYMPH NODE, MEDIASTINAL		CONGESTION	MILD
PITUITARY GLAND	PARS DISTALIS	CYST	
THYMUS	CORTEX	DECREASED LYMPHOCYTE	DIFFUSE, MINIMAL

[ DECREASED LYMPHOCYTE TGLS = 1-1 ]

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1452	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD0
<b>GENERATION:</b> F1			<b>DISP:</b> Euthanized Moribund	<b>HISTO:</b> 40371

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**TISSUE STATUS**

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**No Visible Lesions**

CERVIX	MAMMARY GLANDS	OVARIES	PITUITARY GLAND
THYROID GLANDS	UTERUS	VAGINA	

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**OBSERVATIONS**

ADRENAL GLANDS [ LYMPHOMA TGLS = 1-1, 1-2 ]		LYMPHOMA	MALIGNANT
KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER [ LYMPHOMA TGLS = 3-3, 4-3, 5-3 ]		LYMPHOMA	MALIGNANT
LYMPH NODE, MESENTERIC [ LYMPHOMA TGLS = 6-11, 7-11 ]		LYMPHOMA	MALIGNANT
SPLEEN [ LYMPHOMA TGLS = 8-12, 9-12 ]		LYMPHOMA	MALIGNANT
THYMUS [ DECREASED LYMPHOCYTE TGLS = 10-1 ]	CORTEX	DECREASED LYMPHOCYTE	DIFFUSE, MODERATE

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1454	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40372

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**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1456	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40373

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**OBSERVATIONS**

KIDNEYS		MINERAL	MINIMAL
LIVER	NOT OTHERWISE SPECIFIED	SARCOMA	
[ SARCOMA TGLS = 1-3 ]			
SPLEEN	NOT OTHERWISE SPECIFIED	SARCOMA	
[ SARCOMA TGLS = 2-11 ]			

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1458	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND241
<b>GENERATION:</b> F1			<b>DISP:</b> Euthanized Humane	<b>HISTO:</b> 40504

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**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	KIDNEYS	LIVER
MAMMARY GLANDS	OVARIES	PITUITARY GLAND	THYMUS
THYROID GLANDS	UTERUS	VAGINA	

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**AUTOLYSIS PRECLUDES EVALUATION**

LIMB

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**OBSERVATIONS**

LIMB

NO MICROSCOPIC FINDING RECORDED

Tissue Note: AUTOLYSIS PRECLUDES EVALUATION

[ NO MICROSCOPIC FINDING RECORDED TGLS = 1-11, 1-11A ]

SKIN

ALOPECIA MILD

NO MICROSCOPIC CORRELATION

[ NO MICROSCOPIC CORRELATION TGLS = 2-12 ]

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1460	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40505

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1462	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40506

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**TISSUE STATUS**

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**No Visible Lesions**  
KIDNEYS

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**OBSERVATIONS**

UTERUS

NO MICROSCOPIC CORRELATION

[ NO MICROSCOPIC CORRELATION TGLS = 1-6, 1-7 ]

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1464	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40507

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**TISSUE STATUS**

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**No Visible Lesions**  
KIDNEYS

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1466	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40379

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

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**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1468	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40380

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYROID GLANDS	UTERUS
VAGINA			

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**OBSERVATIONS**

KIDNEYS		MINERAL	MINIMAL
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
THYMUS	CORTEX	DECREASED LYMPHOCYTE	DIFFUSE, MINIMAL

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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**ANIMAL ID:** 1470  
**GENERATION:** F1

**TRT#:** F1-2

**DOSE:** 750 ppm

**SEX:** Female

**REMOVAL DAY:** PND91

**DISP:** Scheduled Removal (Terminal)

**HISTO:** 40381

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**TISSUE STATUS**

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**No Visible Lesions**  
KIDNEYS

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1472	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40382

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**TISSUE STATUS**

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**No Visible Lesions**  
KIDNEYS

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1474	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40384

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**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1480	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40413

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

---

**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1482	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40414

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	MAMMARY GLANDS	PITUITARY GLAND
THYMUS	THYROID GLANDS	UTERUS	VAGINA

---

**OBSERVATIONS**

KIDNEYS		MINERAL	MINIMAL
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER		HEPATODIAPHRAGMATIC NODULE	MILD
[ HEPATODIAPHRAGMATIC NODULE TGLS = 1-11 ]			
OVARIES	FOLLICLE	CYST	

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1484	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40416

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**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1486	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40417

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**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1488	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40418

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**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1490	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40595

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

---

**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL

---



**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1492	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40596

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	MAMMARY GLANDS	OVARIES
PITUITARY GLAND	THYMUS	THYROID GLANDS	UTERUS
VAGINA			

---

**OBSERVATIONS**

KIDNEYS		MINERAL	MINIMAL
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER	LYMPHOCYTE, PERIportal	INFILTRATION	MULTIFOCAL, MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1494	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND93
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40597

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**OBSERVATIONS**

KIDNEYS			MINERAL	MILD
LIMB	BONE		DEFORMITY	MILD
[ DEFORMITY TGLS = 1-11 ]				

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1496	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND93
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40598

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**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1498	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40570

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
PITUITARY GLAND	THYROID GLANDS	UTERUS	VAGINA

---

**OBSERVATIONS**

KIDNEYS		MINERAL	MINIMAL
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
OVARIES	FOLLICLE	CYST	
THYMUS	CORTEX	DECREASED LYMPHOCYTE	DIFFUSE, MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1500	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND247
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40571

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

---

**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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**ANIMAL ID:** 1502  
**GENERATION:** F1

**TRT#:** F1-2

**DOSE:** 750 ppm

**SEX:** Female

**REMOVAL DAY:** PND93

**DISP:** Scheduled Removal (Terminal)

**HISTO:** 40572

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**TISSUE STATUS**

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**No Visible Lesions**  
KIDNEYS

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

**ANIMAL ID:** 1504  
**GENERATION:** F1

**TRT#:** F1-2

**DOSE:** 750 ppm

**SEX:** Female

**REMOVAL DAY:** PND93

**DISP:** Scheduled Removal (Terminal)

**HISTO:** 40573

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**TISSUE STATUS**

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**No Visible Lesions**  
KIDNEYS

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1506	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND93
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40574

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**TISSUE STATUS**

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**No Visible Lesions**  
KIDNEYS

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1512	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40583

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYROID GLANDS	UTERUS
VAGINA			

---

**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
THYMUS	CORTEX	DECREASED LYMPHOCYTE	DIFFUSE, MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1514	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40584

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
VAGINA			

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**OBSERVATIONS**

KIDNEYS		MINERAL	MINIMAL
		NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
LIMB	BONE	DEFORMITY	MILD
UTERUS	SUBSEROSA	CYST	
[ CYST TGLS = 1-7 ]			

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1516	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND93
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40585

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**OBSERVATIONS**

KIDNEYS		MINERAL		MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1518	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND93
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40586

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**OBSERVATIONS**

KIDNEYS		MINERAL		MILD
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1520	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND93
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40587

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**OBSERVATIONS**

KIDNEYS	MINERAL	MILD
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1526	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40638

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

---

**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1528	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND246
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40639

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

---

**OBSERVATIONS**

KIDNEYS	MINERAL	MILD
	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1530	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND92
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40641

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**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1532	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND92
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40642

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**OBSERVATIONS**

KIDNEYS			MINERAL	MINIMAL
LIMB	BONE		DEFORMITY	MILD
[ DEFORMITY TGLS = 1-11 ]				

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1534	<b>TRT#:</b> F1-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND92
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40643

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**OBSERVATIONS**

KIDNEYS		MINERAL	MINIMAL
OVARIES	FOLLICLE, UNILATERAL	CYST	
[ CYST TGLS = 1-8 ]			
SKIN		ALOPECIA	DIFFUSE, MINIMAL
[ NO MICROSCOPIC FINDING RECORDED TGLS = 2-11 ]		NO MICROSCOPIC FINDING RECORDED	

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1602	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40013

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
PITUITARY GLAND	THYMUS	THYROID GLANDS	VAGINA

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**OBSERVATIONS**

KIDNEYS		MINERAL	MINIMAL
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
OVARIES	CORPUS LUTEUM	CYST	MULTIPLE
UTERUS	SUBSEROSA	CYST	

[ CYST TGLS = 1-7 ]

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1604	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40014

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

---

**OBSERVATIONS**

KIDNEYS	MINERAL	MILD
	NEPHROPATHY, CHRONIC PROGRESSIVE	MILD

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1606	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> GD22
<b>GENERATION:</b> F1			<b>DISP:</b> Euthanized Moribund	<b>HISTO:</b> 40015

---

**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYROID GLANDS	UTERUS
VAGINA			

---

**OBSERVATIONS**

KIDNEYS		MINERAL	MILD
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
THYMUS	CORTEX	DECREASED LYMPHOCYTE	DIFFUSE, MODERATE

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1608	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40016

---

**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

---

**OBSERVATIONS**

KIDNEYS	MINERAL	MILD
	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1610	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40017

---

**TISSUE STATUS**

**No Visible Lesions**

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ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

---

**OBSERVATIONS**

---

KIDNEYS	MINERAL	MILD
	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1612	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD0
<b>GENERATION:</b> F1			<b>DISP:</b> Euthanized Moribund	<b>HISTO:</b> 40060

---

**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	MAMMARY GLANDS	OVARIES
PITUITARY GLAND	THYROID GLANDS	UTERUS	VAGINA

---

**OBSERVATIONS**

KIDNEYS		MINERAL	MINIMAL
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIMB	BONE	DEFORMITY	MILD
[ DEFORMITY TGLS = 1-11 ]			
LIVER	CENTRILOBULAR	NECROSIS	FOCAL, MILD
THYMUS	CORTEX	DECREASED LYMPHOCYTE	DIFFUSE, MINIMAL

---



**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1614	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> GD23
<b>GENERATION:</b> F1			<b>DISP:</b> Euthanized Moribund	<b>HISTO:</b> 40061

---

**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYROID GLANDS	VAGINA

---

**OBSERVATIONS**

KIDNEYS		MINERAL NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL MINIMAL
THYMUS	CORTEX	DECREASED LYMPHOCYTE	DIFFUSE, MARKED
UTERUS	ENDOMETRIUM	INFLAMMATION	SUPPURATIVE, MINIMAL
	ENDOMETRIUM	ULCER	FOCAL, MILD

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1616	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40062

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	KIDNEYS	LIVER
MAMMARY GLANDS	OVARIES	PITUITARY GLAND	THYMUS
THYROID GLANDS	UTERUS	VAGINA	

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1618	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40063

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

---

**OBSERVATIONS**

KIDNEYS		MINERAL	MINIMAL
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIMB	BONE	DEFORMITY	MILD
[ DEFORMITY TGLS = 1-11 ]			

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1620	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40024

---

**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

---

**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1622	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND153
<b>GENERATION:</b> F1			<b>DISP:</b> Euthanized Moribund	<b>HISTO:</b> 40025

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	OVARIES	PITUITARY GLAND
THYMUS	THYROID GLANDS	UTERUS	VAGINA

---

**OBSERVATIONS**

KIDNEYS	RENAL TUBULE, EPITHELIUM	HYPERPLASIA NEPHROPATHY, CHRONIC PROGRESSIVE	FOCAL, MODERATE MINIMAL
LIVER	LYMPHOCYTE, PERIportal	INFILTRATION	MULTIFOCAL, MINIMAL
MAMMARY GLANDS		INFLAMMATION	SUPPURATIVE, MARKED

[ INFLAMMATION TGLS = 1-10A, 2-10A, 3-10A ]

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1624	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40027

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	MAMMARY GLANDS	OVARIES
PITUITARY GLAND	THYMUS	THYROID GLANDS	UTERUS
VAGINA			

---

**OBSERVATIONS**

KIDNEYS		MINERAL	MINIMAL
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER	LYMPHOCYTE, PERIportal	INFILTRATION	MULTIFOCAL, MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1626	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40028

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**TISSUE STATUS**

**No Visible Lesions**

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ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	UTERUS
VAGINA			

---

**LOST IN PROCESSING**

THYROID GLANDS

---

**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1628	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40029

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
VAGINA			

---

**OBSERVATIONS**

KIDNEYS		MINERAL	MILD
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
UTERUS	OVIDUCT	CYST	

---



**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1630	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND250
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40124

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	MAMMARY GLANDS	OVARIES
PITUITARY GLAND	THYMUS	THYROID GLANDS	UTERUS
VAGINA			

---

**OBSERVATIONS**

KIDNEYS		MINERAL	MINIMAL
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER	LYMPHOCYTE, PERIportal	INFILTRATION	MULTIFOCAL, MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1632	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> GD22
<b>GENERATION:</b> F1			<b>DISP:</b> Euthanized Moribund	<b>HISTO:</b> 40125

---

**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS  
PITUITARY GLAND

CERVIX  
THYROID GLANDS

MAMMARY GLANDS  
UTERUS

OVARIES  
VAGINA

---

**OBSERVATIONS**

KIDNEYS

MINERAL  
NEPHROPATHY, CHRONIC PROGRESSIVE

MINIMAL

LIVER

CENTRILOBULAR

NECROSIS

FOCAL, MILD

THYMUS

CORTEX

DECREASED LYMPHOCYTE

DIFFUSE, MODERATE

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1634	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND250
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40126

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
VAGINA			

---

**OBSERVATIONS**

KIDNEYS		MINERAL	MINIMAL
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
UTERUS	OVIDUCT	CYST	
[ CYST TGLS = 1-7 ]			

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1636	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40127

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	MAMMARY GLANDS	OVARIES
PITUITARY GLAND	THYMUS	THYROID GLANDS	UTERUS
VAGINA			

---

**OBSERVATIONS**

KIDNEYS		MINERAL	MINIMAL
		NEPHROPATHY, CHRONIC PROGRESSIVE	MILD
LIVER	LYMPHOCYTE, PERIportal	INFILTRATION	MULTIFOCAL, MINIMAL
		NO MICROSCOPIC CORRELATION	

---

[ NO MICROSCOPIC CORRELATION TGLS = 1-3 ]

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1638	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40128

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
PITUITARY GLAND	THYMUS	THYROID GLANDS	UTERUS
VAGINA			

---

**OBSERVATIONS**

KIDNEYS		MINERAL	MINIMAL
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
OVARIES	CORPUS LUTEUM	CYST	
[ CYST TGLS = 1-8 ]			

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1640	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40131

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

---

**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1642	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40244

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

---

**OBSERVATIONS**

KIDNEYS	PELVIS	CONCRETION	FOCAL, MINIMAL
		MINERAL	MINIMAL
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1644	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND250
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40113

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYROID GLANDS	UTERUS
VAGINA			

---

**OBSERVATIONS**

KIDNEYS		MINERAL	MINIMAL
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
THYMUS	CORTEX	DECREASED LYMPHOCYTE	DIFFUSE, MINIMAL

---



**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1646	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40114

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
PITUITARY GLAND	THYMUS	THYROID GLANDS	UTERUS
VAGINA			

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**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
OVARIES	CORPUS LUTEUM	CYST	

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1648	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40115

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	KIDNEYS	LIVER
MAMMARY GLANDS	OVARIES	PITUITARY GLAND	THYMUS
THYROID GLANDS	UTERUS	VAGINA	

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1650	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40116

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1652	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40104

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1654	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40220

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	MAMMARY GLANDS	OVARIES
PITUITARY GLAND	THYMUS	THYROID GLANDS	UTERUS
VAGINA			

---

**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER	HEPATODIAPHRAGMATIC NODULE	MILD

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[ HEPATODIAPHRAGMATIC NODULE TGLS = 1-3 ]

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1656	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND250
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40221

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	UTERUS
VAGINA			

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**OBSERVATIONS**

KIDNEYS		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
THYROID GLANDS	C-CELL	ADENOMA	
	C-CELL	HYPERPLASIA	FOCAL, MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1658	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40222

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

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**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1660	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND249
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40264

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1662	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40265

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

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**OBSERVATIONS**

KIDNEYS	PELVIS	CONCRETION NEPHROPATHY, CHRONIC PROGRESSIVE	FOCAL, MINIMAL MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1664	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40266

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1666	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40269

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	UTERUS
VAGINA			

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**OBSERVATIONS**

KIDNEYS		MINERAL	MILD
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
THYROID GLANDS	FOLLICULAR CELL	MINERAL	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1668	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40271

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

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**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1670	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40272

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	KIDNEYS	LIVER
MAMMARY GLANDS	OVARIES	PITUITARY GLAND	THYMUS
UTERUS	VAGINA		

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**LOST AT NECROPSY**

THYROID GLANDS

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1672	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND249
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40253

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	MAMMARY GLANDS	OVARIES
PITUITARY GLAND	THYMUS	THYROID GLANDS	UTERUS
VAGINA			

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**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER	HEPATODIAPHRAGMATIC NODULE	MILD

---

[ HEPATODIAPHRAGMATIC NODULE TGLS = 1-11 ]

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1674	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40254

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1676	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND249
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40255

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS  
PITUITARY GLAND

CERVIX  
THYROID GLANDS

MAMMARY GLANDS  
UTERUS

OVARIES  
VAGINA

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**OBSERVATIONS**

KIDNEYS

MINERAL  
NEPHROPATHY, CHRONIC PROGRESSIVE  
INFLAMMATION, CHRONIC

MINIMAL  
MINIMAL  
ACTIVE, FOCAL, MINIMAL

LIVER  
THYMUS

CORTEX

DECREASED LYMPHOCYTE

---



**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1678	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40256

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

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**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1680	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40257

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

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**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1682	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40313

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
SKIN	ALOPECIA	MODERATE

[ ALOPECIA TGLS = 1-11, 2-11 ]

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1684	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> GD15
<b>GENERATION:</b> F1			<b>DISP:</b> Euthanized Humane	<b>HISTO:</b> 40314

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

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**OBSERVATIONS**

KIDNEYS	MINERAL	MILD
	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1686	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND249
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40315

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	OVARIES	PITUITARY GLAND
THYROID GLANDS	UTERUS	VAGINA	

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**OBSERVATIONS**

KIDNEYS		MINERAL NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL MINIMAL
LIVER	BILE DUCT	HYPERPLASIA CARCINOMA	DIFFUSE, MINIMAL
MAMMARY GLANDS [ CARCINOMA TGLS = 1-11 ]			
THYMUS	CORTEX	DECREASED LYMPHOCYTE	DIFFUSE, MINIMAL

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1688	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40316

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	MAMMARY GLANDS	OVARIES
PITUITARY GLAND	THYMUS	THYROID GLANDS	UTERUS
VAGINA			

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**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER	INFLAMMATION, CHRONIC	ACTIVE, FOCAL, MINIMAL

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1690	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40317

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1692	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40318

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1694	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40319

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**TISSUE STATUS**

---

**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

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**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1696	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND248
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40395

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1698	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40396

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	MAMMARY GLANDS	OVARIES
PITUITARY GLAND	THYMUS	THYROID GLANDS	UTERUS
VAGINA			

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**OBSERVATIONS**

KIDNEYS		MINERAL	MINIMAL
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER	LYMPHOCYTE, PERIportal	INFILTRATION	MULTIFOCAL, MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1700	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> GD22
<b>GENERATION:</b> F1			<b>DISP:</b> Euthanized Moribund	<b>HISTO:</b> 40397

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYROID GLANDS	UTERUS
VAGINA			

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**OBSERVATIONS**

KIDNEYS		MINERAL	MINIMAL
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
THYMUS	CORTEX	DECREASED LYMPHOCYTE	DIFFUSE, MODERATE

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1702	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40399

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

---

**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
	NEPHROPATHY, CHRONIC PROGRESSIVE	MILD

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1704	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40427

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

---

**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1706	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND208
<b>GENERATION:</b> F1			<b>DISP:</b> Found Dead	<b>HISTO:</b> 40428

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1708	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40429

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1710	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40430

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	MAMMARY GLANDS	OVARIES
PITUITARY GLAND	THYMUS	THYROID GLANDS	UTERUS
VAGINA			

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**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER	HEPATODIAPHRAGMATIC NODULE	MILD
[ HEPATODIAPHRAGMATIC NODULE TGLS = 1-11 ]		
LYMPH NODE, MEDIASTINAL	CONGESTION	MILD
	DECREASED LYMPHOCYTE	MILD
[ CONGESTION TGLS = 2-12 ]		

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1712	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40431

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

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**OBSERVATIONS**

KIDNEYS	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

---

<b>ANIMAL ID:</b> 1714	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND91
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40432

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	THYMUS	THYROID GLANDS	UTERUS
VAGINA			

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**OBSERVATIONS**

KIDNEYS		MINERAL	MINIMAL
PITUITARY GLAND	PARS DISTALIS	CYST	

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1716	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD26
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40538

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
PITUITARY GLAND	THYMUS	THYROID GLANDS	UTERUS
VAGINA			

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**OBSERVATIONS**

KIDNEYS		MINERAL	MINIMAL
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
OVARIES	CORPUS LUTEUM	CYST	

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1718	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40539

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**TISSUE STATUS**

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**No Visible Lesions**

CERVIX	LIVER	MAMMARY GLANDS	OVARIES
PITUITARY GLAND	THYROID GLANDS	VAGINA	

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**OBSERVATIONS**

ADRENAL GLANDS	CORTEX	HYPERTROPHY	FOCAL, MILD
KIDNEYS		MINERAL	MINIMAL
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
THYMUS	CORTEX	DECREASED LYMPHOCYTE	DIFFUSE, MINIMAL
UTERUS	SUBSEROSA	CYST	

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1720	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND93
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40540

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

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**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1722	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND93
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40541

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**TISSUE STATUS**

**No Visible Lesions**

ADRENAL GLANDS	LIVER	MAMMARY GLANDS	OVARIES
PITUITARY GLAND	THYMUS	THYROID GLANDS	UTERUS
VAGINA			

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**LOST IN PROCESSING**

CERVIX

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**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1724	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40616

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**TISSUE STATUS**

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**No Visible Lesions**

CERVIX	LIVER	MAMMARY GLANDS	OVARIES
PITUITARY GLAND	THYMUS	THYROID GLANDS	UTERUS
VAGINA			

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**OBSERVATIONS**

ADRENAL GLANDS	CORTEX	VACUOLATION	FOCAL, MINIMAL
KIDNEYS		MINERAL	MINIMAL
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1726	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40617

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	MAMMARY GLANDS	PITUITARY GLAND
THYMUS	THYROID GLANDS	UTERUS	VAGINA

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**OBSERVATIONS**

KIDNEYS		MINERAL	MINIMAL
		NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL
LIVER	HEPATOCYTE	NECROSIS	DIFFUSE, MARKED
[ NECROSIS TGLS = 1-3A ]			
OVARIES	CORPUS LUTEUM	CYST	
[ CYST TGLS = 2-8 ]			

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1728	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> LD28
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40618

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

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**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
	NEPHROPATHY, CHRONIC PROGRESSIVE	MILD

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1730	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND92
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40619

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

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**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1732	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND92
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40620

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

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**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 1734	<b>TRT#:</b> F1-3	<b>DOSE:</b> 2500 ppm	<b>SEX:</b> Female	<b>REMOVAL DAY:</b> PND92
<b>GENERATION:</b> F1			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 40621

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**TISSUE STATUS**

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**No Visible Lesions**

ADRENAL GLANDS	CERVIX	LIVER	MAMMARY GLANDS
OVARIES	PITUITARY GLAND	THYMUS	THYROID GLANDS
UTERUS	VAGINA		

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**OBSERVATIONS**

KIDNEYS	MINERAL	MINIMAL
	NEPHROPATHY, CHRONIC PROGRESSIVE	MINIMAL

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 2021	<b>TRT#:</b> F2-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND28
<b>GENERATION:</b> F2			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 53503

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**OBSERVATIONS**

TESTIS	SEMINIFEROUS TUBULE	DEGENERATION	MILD
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 2025	<b>TRT#:</b> F2-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND28
<b>GENERATION:</b> F2			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 53505

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**OBSERVATIONS**

TESTIS	SEMINIFEROUS TUBULE	DEGENERATION	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 2103	<b>TRT#:</b> F2-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND28
<b>GENERATION:</b> F2			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 53972

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**OBSERVATIONS**

KIDNEYS	PELVIS, RIGHT	DILATION	MINIMAL
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 2105	<b>TRT#:</b> F2-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND28
<b>GENERATION:</b> F2			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 53973

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**OBSERVATIONS**

KIDNEYS	RENAL TUBULE, BILATERAL	CYST
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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 2109	<b>TRT#:</b> F2-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND28
<b>GENERATION:</b> F2			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 53976

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**OBSERVATIONS**

KIDNEYS	PELVIS, RIGHT	DILATION	MINIMAL
[ DILATION TGLS = 1-2 ]			

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 2143	<b>TRT#:</b> F2-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND28
<b>GENERATION:</b> F2			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 54026

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**OBSERVATIONS**

KIDNEYS	PELVIS, RIGHT	DILATION	MILD
[ DILATION TGLS = 1-2 ]			

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 2167	<b>TRT#:</b> F2-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND28
<b>GENERATION:</b> F2			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 54087

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**OBSERVATIONS**

TESTIS  
[ NO MICROSCOPIC CORRELATION TGLS = 1-8 ]

NO MICROSCOPIC CORRELATION

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 2179	<b>TRT#:</b> F2-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND28
<b>GENERATION:</b> F2			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 54043

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**OBSERVATIONS**

TESTIS  
[ NO MICROSCOPIC CORRELATION TGLS = 1-8 ]

NO MICROSCOPIC CORRELATION

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 2203	<b>TRT#:</b> F2-1	<b>DOSE:</b> 0 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND28
<b>GENERATION:</b> F2			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 54143

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**OBSERVATIONS**

KIDNEYS	PELVIS, RIGHT	DILATION NO MICROSCOPIC CORRELATION	MODERATE
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[ DILATION TGLS = 2-2, 3-2 ]

[ NO MICROSCOPIC CORRELATION TGLS = 1-2 ]

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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**ANIMAL ID:** 2213  
**GENERATION:** F2

**TRT#:** F2-1

**DOSE:** 0 ppm

**SEX:** Male

**DISP:** Scheduled Removal (Terminal)

**REMOVAL DAY:** PND28

**HISTO:** 54151

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**OBSERVATIONS**

KIDNEYS

NO MICROSCOPIC CORRELATION

[ NO MICROSCOPIC CORRELATION TGLS = 1-2 ]

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 3053	<b>TRT#:</b> F2-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND28
<b>GENERATION:</b> F2			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 53386

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**OBSERVATIONS**

TESTIS	SEMINIFEROUS TUBULE	DEGENERATION	MILD
		NO MICROSCOPIC FINDING RECORDED	

[ NO MICROSCOPIC FINDING RECORDED TGLS = 1-8A ]

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 3189	<b>TRT#:</b> F2-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND28
<b>GENERATION:</b> F2			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 53863

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**OBSERVATIONS**

KIDNEYS	PELVIS, RIGHT	DILATION	MODERATE
[ DILATION TGLS = 1-2 ]			

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 3191	<b>TRT#:</b> F2-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND28
<b>GENERATION:</b> F2			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 53865

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**OBSERVATIONS**

KIDNEYS	PELVIS, RIGHT	DILATION	MILD
[ DILATION TGLS = 1-2 ]			

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 3219	<b>TRT#:</b> F2-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND28
<b>GENERATION:</b> F2			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 53724

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**OBSERVATIONS**

KIDNEYS	PELVIS, RIGHT	DILATION	MILD
[ DILATION TGLS = 1-2 ]			

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**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

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<b>ANIMAL ID:</b> 3253	<b>TRT#:</b> F2-2	<b>DOSE:</b> 750 ppm	<b>SEX:</b> Male	<b>REMOVAL DAY:</b> PND28
<b>GENERATION:</b> F2			<b>DISP:</b> Scheduled Removal (Terminal)	<b>HISTO:</b> 54001

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**OBSERVATIONS**

KIDNEYS	PELVIS, LEFT	DILATION	MINIMAL
	LEFT	INFLAMMATION, CHRONIC	MINIMAL

[ DILATION TGLS = 1-2, 2-2 ]

[ INFLAMMATION, CHRONIC TGLS = 1-2, 2-2 ]

---

**Experiment Number:** R92025B  
**Test Type:** RACB  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**PA14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 12/08/2017  
**Time Report Requested:** 13:37:02  
**Lab:** RTI

LEGEND

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SD – Study Phase; GD – Gestation Phase; LD – Lactation Phase; PND – Postnatal Phase, adults post-weaning

**\*\* END OF REPORT \*\***