

Study Number: R92025
Test Type: RACB - Range Finding
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

I04: Mean Body Weight Summary
Test Compound: 4-Methylimidazole
CAS Number: 822-36-6

Date Report Requested: 09/18/2018
Time Report Requested: 08:34:54
Lab: RTI

C Number: R92025
Study Gender: Both
PWG Approval Date See web page for date of PWG Approval

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F0 Males

Treatment Groups (ppm)

Phase Day	Litter ID	0			625			1250			2500		
		Wt (g)	N		Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N
SD0		229.7 ± 3.2	8		227.2 ± 2.7	98.9	8	230.2 ± 2.8	100.2	8	228.9 ± 3.5	99.6	8
SD3		241.5 ± 6.7 **	8		241.2 ± 2.9	99.9	8	236.8 ± 3.0	98.0	8	223.9 ± 3.4 **	92.7	8
SD7		266.6 ± 3.8 **	8		261.4 ± 3.0	98.1	8	258.8 ± 3.3	97.1	8	242.3 ± 3.9 **	90.9	8
SD10		276.6 ± 3.8 **	8		273.2 ± 3.0	98.7	8	271.2 ± 3.2	98.0	8	256.8 ± 3.6 **	92.8	8
SD14		296.0 ± 4.5 **	8		292.1 ± 3.6	98.7	8	292.0 ± 4.2	98.6	8	273.7 ± 3.9 **	92.4	8
SD17		305.8 ± 4.5 **	8		301.6 ± 3.9	98.6	8	302.1 ± 4.2	98.8	8	283.4 ± 3.6 **	92.7	8
SD21		317.1 ± 4.9 **	8		310.6 ± 4.6	97.9	8	313.5 ± 4.0	98.9	8	295.8 ± 4.2 **	93.3	8
SD24		324.9 ± 4.7 **	8		319.1 ± 5.3	98.2	8	321.5 ± 4.3	98.9	8	303.6 ± 4.0 **	93.4	8
SD28		335.9 ± 5.5 **	8		330.2 ± 5.9	98.3	8	332.0 ± 5.0	98.8	8	314.6 ± 4.7 **	93.7	8
SD31		343.4 ± 5.6 **	8		338.1 ± 6.6	98.5	8	339.3 ± 4.8	98.8	8	320.1 ± 4.7 **	93.2	8
SD35		352.4 ± 5.6 **	8		346.4 ± 6.7	98.3	8	346.7 ± 6.7	98.4	8	328.6 ± 4.5 *	93.2	8
SD38		358.5 ± 5.8 **	8		350.8 ± 7.0	97.9	8	355.2 ± 5.2	99.1	8	332.3 ± 4.6 **	92.7	8
SD42		366.4 ± 5.5 **	8		359.9 ± 7.7	98.2	8	364.5 ± 5.2	99.5	8	342.5 ± 4.5 *	93.5	8
SD45		368.0 ± 5.6 **	8		363.2 ± 7.7	98.7	8	367.1 ± 5.4	99.8	8	345.6 ± 5.1 *	93.9	8
SD49		374.7 ± 5.8 **	8		371.9 ± 8.6	99.2	8	372.0 ± 5.7	99.3	8	353.5 ± 4.9 *	94.3	8
SD52		378.6 ± 5.9 **	8		377.8 ± 8.4	99.8	8	378.0 ± 6.1	99.8	8	357.1 ± 4.9 *	94.3	8
SD56		384.6 ± 6.3 **	8		382.6 ± 9.0	99.5	8	384.0 ± 5.7	99.9	8	362.7 ± 4.1 *	94.3	8
SD59		390.1 ± 6.4 **	8		387.3 ± 9.2	99.3	8	388.6 ± 5.3	99.6	8	366.1 ± 4.3 *	93.8	8
SD63		395.0 ± 7.2 **	8		393.5 ± 9.3	99.6	8	393.0 ± 5.6	99.5	8	372.2 ± 4.6 *	94.2	8
SD66		397.6 ± 6.9 **	8		396.0 ± 9.4	99.6	8	395.8 ± 6.1	99.6	8	375.5 ± 4.7 *	94.4	8
SD70		402.6 ± 7.4 *	8		401.0 ± 10.0	99.6	8	403.4 ± 5.8	100.2	8	382.0 ± 4.8	94.9	8
SD73		394.4 ± 6.3 *	8		395.0 ± 9.5	100.1	8	394.0 ± 6.6	99.9	8	379.1 ± 4.8	96.1	8
SD77		397.6 ± 6.7	8		396.7 ± 9.8	99.8	8	396.9 ± 7.3	99.8	8	386.6 ± 4.6	97.2	8
SD80		399.4 ± 5.9	8		400.3 ± 9.6	100.2	8	400.3 ± 8.1	100.2	8	383.9 ± 5.8	96.1	8
SD84		406.7 ± 7.4 *	7		399.3 ± 9.2	98.2	7	400.4 ± 7.2	98.5	8	386.4 ± 6.1	95.0	8

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F0 Males

Phase Day	Litter ID	Treatment Groups (ppm)					
		5000			10000		
		Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N
SD0		228.0 ± 3.1	99.2	8	227.2 ± 3.5	98.9	8
SD3		208.6 ± 2.8 **	86.4	8	196.7 ± 3.6 **	81.5	8
SD7		218.0 ± 3.1 **	81.8	8	180.5 ± 3.9 **	67.7	8
SD10		235.8 ± 3.5 **	85.2	8	NR		
SD14		255.0 ± 3.6 **	86.1	8	NR		
SD17		266.2 ± 4.0 **	87.1	8	NR		
SD21		281.3 ± 4.6 **	88.7	8	NR		
SD24		288.4 ± 4.3 **	88.8	8	NR		
SD28		302.2 ± 5.5 **	90.0	8	NR		
SD31		309.3 ± 6.4 **	90.1	8	NR		
SD35		319.1 ± 6.8 **	90.5	8	NR		
SD38		323.3 ± 7.1 **	90.2	8	NR		
SD42		333.7 ± 7.5 **	91.1	8	NR		
SD45		337.5 ± 7.5 **	91.7	8	NR		
SD49		345.2 ± 8.2 **	92.1	8	NR		
SD52		350.6 ± 7.9 **	92.6	8	NR		
SD56		358.6 ± 8.7 *	93.2	8	NR		
SD59		361.0 ± 8.9 **	92.5	8	NR		
SD63		366.3 ± 8.6 **	92.7	8	NR		
SD66		370.8 ± 8.7 *	93.3	8	NR		
SD70		377.4 ± 8.6	93.7	8	NR		
SD73		379.3 ± 9.2	96.2	8	NR		
SD77		380.2 ± 9.5	95.6	8	NR		
SD80		383.6 ± 9.7	96.0	8	NR		
SD84		387.0 ± 10.7	95.2	8	NR		

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F0 Females

Treatment Groups (ppm)

Phase Day	Litter ID	0			625			1250			2500		
		Wt (g)	N		Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N
SD0		197.4 ± 4.1	8		196.7 ± 3.6	99.6	8	197.5 ± 3.8	100.1	8	196.4 ± 3.5	99.5	8
SD3		204.5 ± 4.4 **	8		202.9 ± 3.1	99.2	8	196.8 ± 3.8	96.3	8	188.3 ± 2.3 **	92.1	8
SD7		212.1 ± 3.2 **	8		215.0 ± 2.5	101.4	8	202.9 ± 4.1 *	95.7	8	202.0 ± 2.1 *	95.2	8
GD0	A	225.9 ± 5.7	6		223.6 ± 4.4	99.0	7	216.3 ± 6.0	95.7	7	213.5 ± 3.3	94.5	7
GD1	A	231.8 ± 5.1 **	6		231.6 ± 3.5	99.9	7	221.2 ± 5.0	95.4	7	216.4 ± 2.5 *	93.4	7
GD2	A	238.4 ± 4.7 **	6		238.6 ± 3.0	100.1	7	223.7 ± 4.9 *	93.8	7	219.3 ± 2.9 **	92.0	7
GD3	A	243.8 ± 5.2 **	6		241.3 ± 3.5	99.0	7	227.8 ± 4.8 *	93.4	7	223.0 ± 2.8 **	91.5	7
GD4	A	249.2 ± 5.9 **	6		246.7 ± 2.7	99.0	7	230.7 ± 4.4 **	92.6	7	225.8 ± 2.7 **	90.6	7
GD5	A	253.5 ± 5.4 **	6		252.1 ± 3.4	99.5	7	231.8 ± 4.8 **	91.5	7	229.3 ± 2.3 **	90.5	7
GD6	A	257.4 ± 5.7 **	6		255.4 ± 3.5	99.2	7	237.5 ± 4.5 **	92.3	7	232.8 ± 1.8 **	90.4	7
GD7	A	262.2 ± 5.6 **	6		257.7 ± 3.1	98.3	7	241.8 ± 4.6 **	92.2	7	235.5 ± 2.4 **	89.8	7
GD8	A	266.0 ± 5.7 **	6		262.3 ± 3.3	98.6	7	244.6 ± 4.5 **	92.0	7	238.8 ± 2.1 **	89.8	7
GD9	A	270.8 ± 4.8 **	6		268.4 ± 3.1	99.1	7	248.9 ± 4.6 **	91.9	7	240.9 ± 2.3 **	89.0	7
GD10	A	276.6 ± 5.3 **	6		273.2 ± 3.4	98.8	7	252.7 ± 4.6 **	91.4	7	247.8 ± 2.5 **	89.6	7
GD11	A	282.0 ± 5.2 **	6		277.4 ± 3.6	98.4	7	257.2 ± 4.8 **	91.2	7	251.1 ± 2.3 **	89.1	7
GD12	A	285.8 ± 5.0 **	6		281.0 ± 4.0	98.3	7	260.8 ± 4.9 **	91.2	7	254.5 ± 2.0 **	89.0	7
GD13	A	292.1 ± 4.9 **	6		286.1 ± 4.4	98.0	7	265.7 ± 4.8 **	91.0	7	259.4 ± 1.7 **	88.8	7
GD14	A	297.2 ± 4.7 **	6		290.3 ± 4.8	97.7	7	271.2 ± 5.1 **	91.3	7	263.7 ± 2.5 **	88.7	7
GD15	A	306.8 ± 4.3 **	6		298.1 ± 4.7	97.1	7	278.7 ± 4.7 **	90.8	7	268.7 ± 2.6 **	87.6	7
GD16	A	318.0 ± 4.4 **	6		308.0 ± 4.9	96.9	7	287.7 ± 5.2 **	90.5	7	277.3 ± 3.0 **	87.2	7
GD17	A	332.7 ± 3.9 **	6		319.5 ± 6.2	96.0	7	300.8 ± 6.8 **	90.4	7	289.7 ± 3.6 **	87.1	7
GD18	A	350.2 ± 5.0 **	6		334.0 ± 7.5	95.4	7	314.8 ± 7.3 **	89.9	7	302.6 ± 4.6 **	86.4	7
GD19	A	367.1 ± 5.2 **	6		349.8 ± 7.1	95.3	7	329.6 ± 8.5 **	89.8	7	312.7 ± 5.0 **	85.2	7
GD20	A	387.1 ± 5.6 **	6		364.6 ± 8.2	94.2	7	345.4 ± 9.7 **	89.2	7	326.3 ± 5.6 **	84.3	7
GD21	A	401.1 ± 6.7 **	6		379.9 ± 8.6	94.7	7	361.2 ± 11.7 **	90.1	7	341.7 ± 5.7 **	85.2	7

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F0 Females

Treatment Groups (ppm)

Phase Day	Litter ID	0			625			1250			2500		
		Wt (g)	N		Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N
LD1	A	290.8 ± 5.2 **	6		279.5 ± 6.5	96.1	7	263.0 ± 5.9 **	90.5	7	246.4 ± 3.1 **	84.7	7
LD4	A	305.5 ± 4.8 **	6		287.9 ± 6.2 *	94.2	7	273.1 ± 5.9 **	89.4	7	259.1 ± 2.7 **	84.8	7
LD7	A	315.9 ± 3.8 **	6		294.0 ± 3.8 **	93.1	7	284.9 ± 5.9 **	90.2	7	266.3 ± 4.5 **	84.3	7
LD14	A	317.7 ± 4.5 **	6		303.1 ± 7.3	95.4	7	288.8 ± 8.7 **	90.9	6	276.8 ± 2.2 **	87.1	7
LD21	A	286.9 ± 11.1 *	6		284.5 ± 7.0	99.2	7	269.4 ± 7.5	93.9	7	266.7 ± 3.5	93.0	7

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Phase Day	Litter ID	Treatment Groups (ppm)		
		5000		
		Wt (g)	% of CNTL	N
SD0		201.0 ± 4.5	101.8	8
SD3		183.3 ± 3.8 **	89.6	8
SD7		189.8 ± 3.2 **	89.5	8
GD0	A	193.4 ± 11.6	85.6	2
GD1	A	195.4 ± 12.1	84.3	2
GD2	A	197.8 ± 10.1	83.0	2
GD3	A	199.7 ± 10.3	81.9	2
GD4	A	205.5 ± 10.8	82.4	2
GD5	A	209.2 ± 10.8	82.5	2
GD6	A	212.3 ± 6.4	82.5	2
GD7	A	210.4 ± 8.0	80.2	2
GD8	A	214.9 ± 7.3	80.8	2
GD9	A	216.8 ± 9.8	80.1	2
GD10	A	218.0 ± 9.2	78.8	2
GD11	A	221.1 ± 10.3	78.4	2
GD12	A	227.3 ± 7.8	79.5	2
GD13	A	230.5 ± 5.3	78.9	2
GD14	A	234.8 ± 7.5	79.0	2
GD15	A	238.1 ± 5.9	77.6	2
GD16	A	249.6 ± 6.6	78.5	2
GD17	A	256.8 ± 2.1	77.2	2
GD18	A	264.9 ± 1.8	75.6	2
GD19	A	275.7 ± 1.2	75.1	2
GD20	A	283.8 ± 1.1	73.3	2
GD21	A	287.8 ± 0.4	71.7	2

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Phase Day	Litter ID	Treatment Groups (ppm)		
		5000		
		Wt (g)	% of CNTL	N
LD1	A	214.9	73.9	1
LD4	A	219.0	71.7	1
LD7	A	228.3	72.3	1
LD14	A	242.1	76.2	1
LD21	A	247.3	86.2	1

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LEGEND

Data are displayed as mean \pm SEM

Statistical analysis performed by Jonckheere (trend) and Williams or Dunnett (pairwise) tests (unless otherwise noted).

Statistical significance for the control group indicates a significant trend test

Statistical significance for a treatment group indicates a significant pairwise test compared to the vehicle control group

* Statistically significant at $P \leq 0.05$

** Statistically significant at $P \leq 0.01$

SD – Study Day; GD – Gestation Day; LD – Lactation Day; PND – Postnatal Day, adults post-weaning

SD – Study Day

In multigenerational studies bodyweights reported for all animals until mating; pregnant animals only during gestation and littering; all animals post-weaning of the last litter

Data with sample sizes of 1 or 2 were excluded from the trend and multiple comparisons tests.

NR not recorded

**** END OF REPORT ****