

Study Number: R88007B
Test Type: RACB
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

I05: Clinical Observations Summary

Test Compound: Butyl Paraben
CAS Number: 94-26-8

Date Report Requested: 03/22/2019
Time Report Requested: 15:11:00
Lab: RTI

C Number: R88007B
Study Gender: Both
PWG Approval Date See web page for date of PWG Approval

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F0 Male

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	5000	15000	40000
SD		Alopecia Left Fore Paw	2 / 22 SD 24	0 / 22	0 / 22	0 / 22
SD		Alopecia Left Forelimb	2 / 22 SD 133	0 / 22	0 / 22	0 / 22
SD		Alopecia Right Fore Paw	2 / 22 SD 24	0 / 22	0 / 22	0 / 22
SD		Alopecia Right Forelimb	2 / 22 SD 64	0 / 22	1 / 22 SD 59	0 / 22
SD		Cold To Touch	1 / 22 SD 199	0 / 22	1 / 22 SD 116	0 / 22
SD		Dehydrated	0 / 22	0 / 22	1 / 22 SD 116	0 / 22
SD		Eye Discharge Bilateral; Brown	1 / 22 SD 100	0 / 22	0 / 22	0 / 22
SD		Eye Discharge Bilateral; Clear	0 / 22	0 / 22	1 / 22 SD 116	0 / 22
SD		Eye Discharge Bilateral; Red	1 / 22 SD 10	0 / 22	1 / 22 SD 10	0 / 22
SD		Eye Discharge Left; Brown	1 / 22 SD 141	0 / 22	0 / 22	1 / 22 SD 163

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F0 Male

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	5000	15000	40000
SD		Eye Discharge Left; Red	1 / 22 SD 49	3 / 22 SD 17	2 / 22 SD 8	1 / 22 SD 213
SD		Eye Discharge Right; Brown	1 / 22 SD 170	0 / 22	0 / 22	0 / 22
SD		Eye Discharge Right; Red	1 / 22 SD 129	1 / 22 SD 197	1 / 22 SD 14	1 / 22 SD 7
SD		Fur Stained Left Fore Paw; Red	0 / 22	0 / 22	1 / 22 SD 7	0 / 22
SD		Fur Stained Nose/Snout; Red	2 / 22 SD 10	0 / 22	0 / 22	1 / 22 SD 1
SD		Fur Stained Right Fore Paw; Red	0 / 22	0 / 22	1 / 22 SD 7	0 / 22
SD		Hunched	1 / 22 SD 199	0 / 22	0 / 22	0 / 22
SD		Hypoactive	1 / 22 SD 199	0 / 22	1 / 22 SD 116	0 / 22
SD		Mass Abdomen	0 / 22	0 / 22	1 / 22 SD 156	0 / 22
SD		Mass Anogenital Area	1 / 22 SD 213	1 / 22 SD 116	0 / 22	0 / 22

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Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	5000	15000	40000
SD		Mass Face	0 / 22	0 / 22	1 / 22 SD 172	0 / 22
SD		Mass Head	1 / 22 SD 213	0 / 22	0 / 22	0 / 22
SD		Mass Left Flank	0 / 22	0 / 22	1 / 22 SD 168	0 / 22
SD		Nasal Discharge Brown	0 / 22	0 / 22	1 / 22 SD 116	0 / 22
SD		Pale	1 / 22 SD 199	0 / 22	0 / 22	0 / 22
SD		Piloerection	1 / 22 SD 199	0 / 22	1 / 22 SD 116	0 / 22
SD		Scab(s) Abdomen	0 / 22	0 / 22	1 / 22 SD 200	1 / 22 SD 212
SD		Scab(s) Face	1 / 22 SD 133	0 / 22	1 / 22 SD 197	0 / 22
SD		Sore(s) On Body Abdomen	0 / 22	0 / 22	1 / 22 SD 193	0 / 22
SD		Sore(s) On Body Head	1 / 22 SD 168	0 / 22	0 / 22	0 / 22

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Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	5000	15000	40000
SD		Sore(s) On Body Left Hind Paw	1 / 22 SD 154	0 / 22	0 / 22	0 / 22
SD		Sore(s) On Body Right Hind Paw	1 / 22 SD 191	0 / 22	0 / 22	0 / 22
SD		Staining Bilateral Eyes; Red	1 / 22 SD 162	0 / 22	0 / 22	0 / 22
SD		Staining Left Eye; Brown	0 / 22	0 / 22	0 / 22	1 / 22 SD 164
SD		Staining Left Eye; Red	1 / 22 SD 101	0 / 22	0 / 22	0 / 22
SD		Staining Right Eye; Red	1 / 22 SD 137	0 / 22	0 / 22	0 / 22
SD		Tail Damaged	0 / 22	1 / 22 SD 6	0 / 22	0 / 22
SD		Unkempt	0 / 22	0 / 22	1 / 22 SD 116	0 / 22
SD		Vocalization	0 / 22	1 / 22 SD 133	0 / 22	0 / 22

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F0 Female

Phase	Litter ID	Observation	Treatment Groups (ppm)				
			0	5000	15000	40000	40000 NF
GD	A	Eye Discharge Right; Black	1 / 18 GD 7	0 / 17	0 / 19	0 / 19	
GD	A	Eye Discharge Right; Red	1 / 18 GD 10	0 / 17	0 / 19	0 / 19	
GD	A	Tail Damaged	0 / 18	1 / 17 GD 10	0 / 19	0 / 19	
GD	A	Vaginal Thread	0 / 18	0 / 17	1 / 19 GD 0	1 / 19 GD 0	
LD	A	Vaginal Thread	0 / 19	0 / 18	0 / 19	1 / 19 LD 0	
GD	B	Mass Chest	0 / 18	1 / 18 GD 14	0 / 20	0 / 19	
LD	B	Delivering	0 / 20	2 / 17 LD 0	0 / 21	0 / 19	
GD	C	Mass Abdomen	0 / 16	0 / 12	1 / 19 GD 11	0 / 17	
GD	C	Mass Chest	0 / 16	0 / 12	0 / 19	1 / 17 GD 16	
GD	C	Mass Face	0 / 16	0 / 12	0 / 19	1 / 17 GD 7	

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F0 Female

Phase	Litter ID	Observation	Treatment Groups (ppm)				
			0	5000	15000	40000	40000 NF
GD	C	Scab(s) Face	0 / 16	0 / 12	0 / 19	2 / 17 GD 2	
GD	C	Staining Left Eye; Red	0 / 16	0 / 12	0 / 19	1 / 17 GD 7	
GD	C	Tail Damaged	0 / 16	0 / 12	1 / 19 GD 8	0 / 17	
LD	C	Eye Discharge Left; Red	1 / 20 LD 2	0 / 14	0 / 20	1 / 17 LD 0	
LD	C	Eye Discharge Right; Brown	0 / 20	0 / 14	1 / 20 LD 1	0 / 17	
LD	C	Mass Abdomen	0 / 20	0 / 14	1 / 20 LD 0	0 / 17	
LD	C	Mass Anogenital Area	0 / 20	0 / 14	1 / 20 LD 18	0 / 17	
LD	C	Mass Chest	0 / 20	0 / 14	0 / 20	2 / 17 LD 0	
LD	C	Nasal Discharge Red	0 / 20	0 / 14	1 / 20 LD 0	1 / 17 LD 0	
LD	C	Scab(s) Face	0 / 20	0 / 14	0 / 20	1 / 17 LD 0	

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			0	5000	15000	40000	40000 NF
LD	C	Staining Nose/Snout; Red	0 / 20	0 / 14	0 / 20	1 / 17 LD 21	
GD	D	Mass Chest				1 / 15 GD 0	0 / 16
LD	D	Mass Chest				1 / 15 LD 0	0 / 17
LD	D	Vaginal Discharge Red				0 / 15	1 / 17 LD 1
SD		Abnormal Gait	1 / 22 SD 149	0 / 22	0 / 22	0 / 22	0 / 22
SD		Alopecia Head	0 / 22	1 / 22 SD 154	0 / 22	0 / 22	0 / 22
SD		Alopecia Neck	0 / 22	0 / 22	0 / 22	1 / 22 SD 172	0 / 22
SD		Biting Self Abdomen	0 / 22	1 / 22 SD 52	0 / 22	0 / 22	0 / 22
SD		Damaged Tail	0 / 22	0 / 22	1 / 22 SD 1	0 / 22	0 / 22
SD		Eye Discharge Bilateral; Brown	0 / 22	1 / 22 SD 43	0 / 22	0 / 22	0 / 22

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F0 Female

Phase	Litter ID	Observation	Treatment Groups (ppm)				
			0	5000	15000	40000	40000 NF
SD		Eye Discharge Bilateral; Red	1 / 22 SD 149	0 / 22	0 / 22	0 / 22	0 / 22
SD		Eye Discharge Left; Brown	1 / 22 SD 146	1 / 22 SD 182	0 / 22	0 / 22	0 / 22
SD		Eye Discharge Left; Red	0 / 22	0 / 22	0 / 22	1 / 22 SD 197	0 / 22
SD		Fur Stained Left Fore Paw; Brown	1 / 22 SD 44	0 / 22	0 / 22	0 / 22	0 / 22
SD		Fur Stained Nose/Snout; Brown	1 / 22 SD 44	0 / 22	0 / 22	0 / 22	0 / 22
SD		Fur Stained Right Fore Paw; Brown	1 / 22 SD 44	0 / 22	0 / 22	0 / 22	0 / 22
SD		Head Tilt Left	0 / 22	1 / 22 SD 43	0 / 22	0 / 22	0 / 22
SD		Hunched	0 / 22	1 / 22 SD 43	0 / 22	0 / 22	0 / 22
SD		Hypoactive	0 / 22	1 / 22 SD 43	0 / 22	0 / 22	0 / 22
SD		Lethargic	1 / 22 SD 149	0 / 22	0 / 22	0 / 22	0 / 22

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F0 Female

Phase	Litter ID	Observation	Treatment Groups (ppm)				
			0	5000	15000	40000	40000 NF
SD		Loss of Limb Function Left Forelimb	0 / 22	1 / 22 SD 43	0 / 22	0 / 22	0 / 22
SD		Mass Abdomen	0 / 22	1 / 22 SD 150	0 / 22	0 / 22	0 / 22
SD		Mass Anogenital Area	0 / 22	0 / 22	1 / 22 SD 146	0 / 22	0 / 22
SD		Mass Chest	1 / 22 SD 148	1 / 22 SD 152	0 / 22	2 / 22 SD 143	0 / 22
SD		Mass Face	1 / 22 SD 161	1 / 22 SD 189	0 / 22	0 / 22	0 / 22
SD		Mass Left Forelimb	0 / 22	2 / 22 SD 145	0 / 22	0 / 22	0 / 22
SD		Mass Multiple Sites (>2)	0 / 22	1 / 22 SD 51	0 / 22	0 / 22	0 / 22
SD		Mass Right Flank	1 / 22 SD 182	0 / 22	0 / 22	0 / 22	0 / 22
SD		Mass Right Forelimb	1 / 22 SD 200	2 / 22 SD 145	0 / 22	1 / 22 SD 147	0 / 22
SD		Mass Right Shoulder	1 / 22 SD 172	0 / 22	0 / 22	0 / 22	0 / 22

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F0 Female

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			0	5000	15000	40000	40000 NF
SD		Nasal Discharge Red	1 / 22 SD 149	0 / 22	0 / 22	0 / 22	0 / 22
SD		Scab(s) Back	0 / 22	0 / 22	0 / 22	1 / 22 SD 199	0 / 22
SD		Scab(s) Face	1 / 22 SD 171	0 / 22	1 / 22 SD 85	0 / 22	0 / 22
SD		Scab(s) Multiple Sites (>2)	0 / 22	0 / 22	0 / 22	1 / 22 SD 207	0 / 22
SD		Sore(s) On Body Abdomen	0 / 22	1 / 22 SD 52	0 / 22	0 / 22	0 / 22
SD		Sore(s) On Body Back	0 / 22	0 / 22	0 / 22	1 / 22 SD 150	0 / 22
SD		Sore(s) On Body Head	0 / 22	0 / 22	0 / 22	1 / 22 SD 156	0 / 22
SD		Staining Left Eye; Red	0 / 22	0 / 22	0 / 22	1 / 22 SD 206	0 / 22
SD		Staining Nose/Snout; Red	0 / 22	0 / 22	0 / 22	1 / 22 SD 143	0 / 22
SD		Swelling Abdomen	1 / 22 SD 149	0 / 22	0 / 22	0 / 22	0 / 22

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F0 Female

Phase	Litter ID	Observation	Treatment Groups (ppm)				
			0	5000	15000	40000	40000 NF
SD		Swelling Chest	9 / 22 SD 145	8 / 22 SD 43	8 / 22 SD 145	3 / 22 SD 145	0 / 22
SD		Swelling Head	0 / 22	1 / 22 SD 43	0 / 22	0 / 22	0 / 22
SD		Swelling Left Forelimb	0 / 22	1 / 22 SD 43	0 / 22	0 / 22	0 / 22
SD		Tail Damaged	0 / 22	0 / 22	1 / 22 SD 157	1 / 22 SD 150	0 / 22
SD		Vaginal Thread	0 / 22	0 / 22	1 / 22 SD 15	1 / 22 SD 15	0 / 22

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F1 Male: All F1 Males

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	5000	15000	40000
PND		Alopecia Back	0 / 88	0 / 74	1 / 93 PND 37	0 / 71
PND		Alopecia Head	0 / 88	0 / 74	2 / 93 PND 44	0 / 71
PND		Alopecia Left Shoulder	1 / 88 PND 76	0 / 74	0 / 93	0 / 71
PND		Alopecia Right Fore Paw	0 / 88	0 / 74	1 / 93 PND 84	0 / 71
PND		Cold To Touch	0 / 88	0 / 74	0 / 93	3 / 71 PND 24
PND		Dehydrated	0 / 88	0 / 74	0 / 93	16 / 71 PND 23
PND		Eye Discharge Left; Clear	1 / 88 PND 63	0 / 74	0 / 93	0 / 71
PND		Eye Discharge Left; Red	1 / 88 PND 66	0 / 74	0 / 93	0 / 71
PND		Eye Discharge Right; Brown	3 / 88 PND 28	0 / 74	0 / 93	0 / 71
PND		Eye Discharge Right; Red	1 / 88 PND 76	0 / 74	0 / 93	0 / 71

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F1 Male: All F1 Males

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	5000	15000	40000
PND		Eye Squinting Right	1 / 88 PND 28	0 / 74	0 / 93	0 / 71
PND		Head Tilt Left	1 / 88 PND 42	0 / 74	0 / 93	0 / 71
PND		Hypoactive	0 / 88	0 / 74	0 / 93	16 / 71 PND 22
PND		Loss of Righting Reflex	0 / 88	0 / 74	0 / 93	1 / 71 PND 24
PND		Prone	0 / 88	0 / 74	0 / 93	1 / 71 PND 24
PND		Respiration Audible	0 / 88	0 / 74	0 / 93	1 / 71 PND 25
PND		Staining Nose/Snout; Brown	0 / 88	0 / 74	0 / 93	8 / 71 PND 23
PND		Tail Damaged	1 / 88 PND 28	0 / 74	0 / 93	1 / 71 PND 24
PND		Tail Kinked	0 / 88	0 / 74	0 / 93	1 / 71 PND 45
PND		Teeth Misaligned	1 / 88 PND 37	0 / 74	0 / 93	0 / 71

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F1 Male: All F1 Males

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	5000	15000	40000
PND		Testis Apparently Missing Left	0 / 88	0 / 74	1 / 93 PND 44	0 / 71
PND		Unkempt	0 / 88	0 / 74	0 / 93	8 / 71 PND 24

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F1 Female: All F1 Females

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	5000	15000	40000
PND		Abnormal Gait	0 / 89	0 / 78	0 / 87	1 / 60 PND 25
PND		Alopecia Right Fore Paw	0 / 89	0 / 78	0 / 87	1 / 60 PND 84
PND		Bruising Right Fore Paw	1 / 89 PND 77	0 / 78	0 / 87	0 / 60
PND		Cold To Touch	0 / 89	0 / 78	0 / 87	2 / 60 PND 24
PND		Dehydrated	1 / 89 PND 63	0 / 78	0 / 87	9 / 60 PND 23
PND		Ear Damaged Right	0 / 89	0 / 78	0 / 87	1 / 60 PND 28
PND		Emaciated	1 / 89 PND 67	0 / 78	0 / 87	0 / 60
PND		Eye Discharge Bilateral; Brown	1 / 89 PND 84	0 / 78	2 / 87 PND 84	0 / 60
PND		Eye Discharge Left; Brown	2 / 89 PND 25	0 / 78	2 / 87 PND 31	0 / 60
PND		Eye Discharge Left; Red	0 / 89	0 / 78	0 / 87	1 / 60 PND 74

Study Number: R88007B
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Species/Strain: Rat/Sprague-Dawley

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CAS Number: 94-26-8

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F1 Female: All F1 Females

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	5000	15000	40000
PND		Eye Discharge Right; Black	0 / 89	0 / 78	0 / 87	1 / 60 PND 28
PND		Eye Discharge Right; Brown	1 / 89 PND 84	0 / 78	0 / 87	2 / 60 PND 29
PND		Eye Shut Bilateral	0 / 89	0 / 78	1 / 87 PND 22	0 / 60
PND		Eye Squinting Left	0 / 89	0 / 78	0 / 87	3 / 60 PND 23
PND		Eye Squinting Right	0 / 89	0 / 78	1 / 87 PND 28	1 / 60 PND 24
PND		Feces Few	0 / 89	0 / 78	2 / 87 PND 84	0 / 60
PND		Fur Stained Abdomen; Yellow	0 / 89	0 / 78	0 / 87	6 / 60 PND 24
PND		Head Tilt Left	0 / 89	0 / 78	1 / 87 PND 48	0 / 60
PND		Hypoactive	0 / 89	0 / 78	0 / 87	5 / 60 PND 23
PND		Lethargic	0 / 89	0 / 78	0 / 87	1 / 60 PND 23

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F1 Female: All F1 Females

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	5000	15000	40000
PND		Nasal Discharge Brown	0 / 89	0 / 78	0 / 87	6 / 60 PND 23
PND		Nasal Discharge Red	0 / 89	0 / 78	1 / 87 PND 77	0 / 60
PND		Pale	0 / 89	0 / 78	0 / 87	6 / 60 PND 24
PND		Rough Coat	0 / 89	0 / 78	2 / 87 PND 84	0 / 60
PND		Scab(s) Face	0 / 89	0 / 78	2 / 87 PND 25	0 / 60
PND		Staining Nose/Snout; Brown	0 / 89	0 / 78	0 / 87	2 / 60 PND 24
PND		Tail Damaged	0 / 89	1 / 78 PND 26	1 / 87 PND 84	0 / 60
PND		Tail Kinked	0 / 89	0 / 78	1 / 87 PND 28	0 / 60
PND		Tail Tip Missing	1 / 89 PND 22	0 / 78	0 / 87	0 / 60
PND		Teeth Misaligned	0 / 89	0 / 78	1 / 87 PND 48	0 / 60

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F1 Female: All F1 Females

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	5000	15000	40000
PND		Unkempt	0 / 89	0 / 78	0 / 87	7 / 60 PND 23
PND		Vaginal Thread	4 / 89 PND 35	3 / 78 PND 35	5 / 87 PND 39	2 / 60 PND 46

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F1 Male: F1c Parental Males

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	5000	15000	40000
PND		Alopecia Head	0 / 40	0 / 40	2 / 40 PND 85	0 / 26
PND		Alopecia Left Fore Paw	0 / 40	1 / 40 PND 127	0 / 40	0 / 26
PND		Alopecia Right Fore Paw	0 / 40	1 / 40 PND 127	0 / 40	0 / 26
PND		Alopecia Right Forelimb	0 / 40	1 / 40 PND 137	0 / 40	0 / 26
PND		Convulsion	0 / 40	1 / 40 PND 148	0 / 40	0 / 26
PND		Emaciated	0 / 40	1 / 40 PND 117	0 / 40	0 / 26
PND		Eye Discharge Bilateral; Red	1 / 40 PND 191	0 / 40	0 / 40	0 / 26
PND		Eye Discharge Left; Clear	0 / 40	0 / 40	1 / 40 PND 154	0 / 26
PND		Eye Discharge Left; Red	0 / 40	2 / 40 PND 127	2 / 40 PND 150	0 / 26
PND		Eye Discharge Right; Red	2 / 40 PND 189	0 / 40	1 / 40 PND 175	0 / 26

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F1 Male: F1c Parental Males

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			0	5000	15000	40000
PND		Eye Exophthalmus Bilateral	0 / 40	0 / 40	1 / 40 PND 155	0 / 26
PND		Eye Exophthalmus Left	0 / 40	0 / 40	1 / 40 PND 157	0 / 26
PND		Eye Injury Left	0 / 40	1 / 40 PND 147	0 / 40	0 / 26
PND		Fur Stained Nose/Snout; Brown	1 / 40 PND 133	0 / 40	0 / 40	0 / 26
PND		Hypoactive	1 / 40 PND 191	1 / 40 PND 148	0 / 40	0 / 26
PND		Lethargic	1 / 40 PND 191	0 / 40	0 / 40	0 / 26
PND		Mass Right Inguinal	0 / 40	0 / 40	0 / 40	1 / 26 PND 210
PND		Nasal Discharge Brown	1 / 40 PND 175	0 / 40	0 / 40	0 / 26
PND		Nasal Discharge Red	2 / 40 PND 126	1 / 40 PND 210	0 / 40	0 / 26
PND		Respiration Labored	0 / 40	1 / 40 PND 148	0 / 40	0 / 26

Study Number: R88007B
Test Type: RACB
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

I05: Clinical Observations Summary
Test Compound: Butyl Paraben
CAS Number: 94-26-8

Date Report Requested: 03/22/2019
Time Report Requested: 15:11:00
Lab: RTI

F1 Male: F1c Parental Males

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	5000	15000	40000
PND		Respiration Slow	1 / 40 PND 191	0 / 40	0 / 40	0 / 26
PND		Scab(s) Face	2 / 40 PND 119	1 / 40 PND 171	0 / 40	0 / 26
PND		Scab(s) Left Eye	0 / 40	0 / 40	1 / 40 PND 199	0 / 26
PND		Scab(s) Left Fore Paw	0 / 40	1 / 40 PND 172	0 / 40	0 / 26
PND		Scab(s) Left Hind Paw	0 / 40	1 / 40 PND 172	0 / 40	0 / 26
PND		Scab(s) Multiple Sites (>2)	0 / 40	1 / 40 PND 147	0 / 40	0 / 26
PND		Scab(s) Right Hind Paw	0 / 40	1 / 40 PND 172	0 / 40	0 / 26
PND		Sore(s) On Body Face	0 / 40	1 / 40 PND 171	1 / 40 PND 205	0 / 26
PND		Sore(s) On Body Head	2 / 40 PND 113	1 / 40 PND 147	0 / 40	0 / 26
PND		Sore(s) On Body Left Eye	0 / 40	0 / 40	1 / 40 PND 194	0 / 26

Study Number: R88007B
Test Type: RACB
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

I05: Clinical Observations Summary
Test Compound: Butyl Paraben
CAS Number: 94-26-8

Date Report Requested: 03/22/2019
Time Report Requested: 15:11:00
Lab: RTI

F1 Male: F1c Parental Males

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	5000	15000	40000
PND		Sore(s) On Body Nose/Snout	0 / 40	1 / 40 PND 172	0 / 40	0 / 26
PND		Staining Left Eye; Brown	0 / 40	0 / 40	1 / 40 PND 175	0 / 26
PND		Staining Left Eye; Red	0 / 40	0 / 40	2 / 40 PND 176	0 / 26
PND		Staining Right Eye; Red	1 / 40 PND 189	0 / 40	1 / 40 PND 178	0 / 26
PND		Swelling Head	1 / 40 PND 126	0 / 40	0 / 40	0 / 26
PND		Tail Kinked	0 / 40	0 / 40	0 / 40	1 / 26 PND 85
PND		Testis Apparently Missing Left	0 / 40	0 / 40	1 / 40 PND 85	0 / 26

Study Number: R88007B
Test Type: RACB
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

I05: Clinical Observations Summary
Test Compound: Butyl Paraben
CAS Number: 94-26-8

Date Report Requested: 03/22/2019
Time Report Requested: 15:11:00
Lab: RTI

F1 Female: F1c Parental Females

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	5000	15000	40000
GD	A	Abnormal Posture	0 / 21	0 / 24	1 / 31 GD 0	0 / 23
GD	A	Alopecia Left Fore Paw	0 / 21	0 / 24	0 / 31	1 / 23 GD 13
GD	A	Alopecia Left Forelimb	0 / 21	0 / 24	0 / 31	1 / 23 GD 15
GD	A	Alopecia Neck	0 / 21	0 / 24	1 / 31 GD 0	0 / 23
GD	A	Alopecia Right Fore Paw	0 / 21	0 / 24	0 / 31	1 / 23 GD 0
GD	A	Alopecia Right Forelimb	0 / 21	0 / 24	1 / 31 GD 12	1 / 23 GD 13
GD	A	Convulsion	0 / 21	0 / 24	1 / 31 GD 0	0 / 23
GD	A	Eye Discharge Left; Red	1 / 21 GD 2	0 / 24	0 / 31	0 / 23
GD	A	Eye Discharge Right; Brown	1 / 21 GD 6	0 / 24	0 / 31	0 / 23
GD	A	Eye Discharge Right; Red	0 / 21	0 / 24	1 / 31 GD 19	1 / 23 GD 17

Study Number: R88007B
Test Type: RACB
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

I05: Clinical Observations Summary
Test Compound: Butyl Paraben
CAS Number: 94-26-8

Date Report Requested: 03/22/2019
Time Report Requested: 15:11:00
Lab: RTI

F1 Female: F1c Parental Females

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	5000	15000	40000
GD	A	Eye Squinting Bilateral	0 / 21	0 / 24	1 / 31 GD 0	0 / 23
GD	A	Fur Stained Nose/Snout; Red	0 / 21	0 / 24	0 / 31	1 / 23 GD 19
GD	A	Head Shaking	0 / 21	0 / 24	1 / 31 GD 0	0 / 23
GD	A	Hunched	0 / 21	0 / 24	1 / 31 GD 0	0 / 23
GD	A	Hypoactive	0 / 21	0 / 24	1 / 31 GD 12	0 / 23
GD	A	Mass Chest	0 / 21	1 / 24 GD 15	0 / 31	0 / 23
GD	A	Mass Right Axillary	0 / 21	1 / 24 GD 10	0 / 31	0 / 23
GD	A	Piloerection	0 / 21	0 / 24	1 / 31 GD 12	0 / 23
GD	A	Postural instability-rearing Moderate	0 / 21	0 / 24	1 / 31 GD 0	0 / 23
GD	A	Postural instability-standing Moderate	0 / 21	0 / 24	1 / 31 GD 0	0 / 23

Study Number: R88007B
Test Type: RACB
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

I05: Clinical Observations Summary
Test Compound: Butyl Paraben
CAS Number: 94-26-8

Date Report Requested: 03/22/2019
Time Report Requested: 15:11:00
Lab: RTI

F1 Female: F1c Parental Females

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	5000	15000	40000
GD	A	Respiration Labored	0 / 21	0 / 24	1 / 31 GD 0	0 / 23
GD	A	Rigidity Moderate	0 / 21	0 / 24	1 / 31 GD 0	0 / 23
GD	A	Salivation Moderate	0 / 21	0 / 24	1 / 31 GD 12	0 / 23
GD	A	Salivation Severe	0 / 21	0 / 24	1 / 31 GD 0	0 / 23
GD	A	Staining Bilateral Eyes; Red	1 / 21 GD 16	0 / 24	0 / 31	0 / 23
GD	A	Sustained posturing	0 / 21	0 / 24	1 / 31 GD 0	0 / 23
GD	A	Tail Kinked	0 / 21	0 / 24	1 / 31 GD 0	0 / 23
GD	A	Tremors Whole body	0 / 21	0 / 24	1 / 31 GD 12	0 / 23
GD	A	Vaginal Thread	0 / 21	0 / 24	1 / 31 GD 0	1 / 23 GD 0
LD	A	Alopecia Left Fore Paw	0 / 25	0 / 24	0 / 30	1 / 23 LD 0

Study Number: R88007B
Test Type: RACB
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

I05: Clinical Observations Summary
Test Compound: Butyl Paraben
CAS Number: 94-26-8

Date Report Requested: 03/22/2019
Time Report Requested: 15:11:00
Lab: RTI

F1 Female: F1c Parental Females

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	5000	15000	40000
LD	A	Alopecia Right Fore Paw	0 / 25	0 / 24	0 / 30	1 / 23 LD 0
LD	A	Eye Discharge Left; Red	1 / 25 LD 0	0 / 24	0 / 30	0 / 23
LD	A	Eye Discharge Right; Red	1 / 25 LD 1	0 / 24	0 / 30	0 / 23
LD	A	Tail Kinked	0 / 25	0 / 24	1 / 30 LD 0	0 / 23
LD	A	Tail Tip Missing	1 / 25 LD 0	0 / 24	0 / 30	0 / 23
GD	B	Alopecia Chest	0 / 29	0 / 25	0 / 28	1 / 23 GD 16
GD	B	Alopecia Left Fore Paw	0 / 29	0 / 25	0 / 28	1 / 23 GD 0
GD	B	Alopecia Neck	1 / 29 GD 0	0 / 25	0 / 28	0 / 23
GD	B	Alopecia Right Fore Paw	0 / 29	0 / 25	0 / 28	1 / 23 GD 0
GD	B	Alopecia Right Forelimb	0 / 29	0 / 25	0 / 28	1 / 23 GD 0

Study Number: R88007B
Test Type: RACB
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

I05: Clinical Observations Summary
Test Compound: Butyl Paraben
CAS Number: 94-26-8

Date Report Requested: 03/22/2019
Time Report Requested: 15:11:00
Lab: RTI

F1 Female: F1c Parental Females

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	5000	15000	40000
GD	B	Convulsion	0 / 29	1 / 25 GD 7	0 / 28	0 / 23
GD	B	Deformed Nose/Snout	0 / 29	1 / 25 GD 8	0 / 28	0 / 23
GD	B	Fur Stained Nose/Snout; Red	0 / 29	0 / 25	0 / 28	1 / 23 GD 13
GD	B	Hypoactive	0 / 29	1 / 25 GD 10	0 / 28	0 / 23
GD	B	Mass Chest	1 / 29 GD 0	0 / 25	1 / 28 GD 17	0 / 23
GD	B	Mass Left Inguinal	0 / 29	0 / 25	1 / 28 GD 8	0 / 23
GD	B	Respiration Labored	0 / 29	1 / 25 GD 10	0 / 28	0 / 23
GD	B	Scab(s) Multiple Sites (>2)	0 / 29	1 / 25 GD 10	0 / 28	0 / 23
GD	B	Scab(s) Neck	1 / 29 GD 3	0 / 25	0 / 28	0 / 23
GD	B	Scab(s) Right Forelimb	0 / 29	0 / 25	0 / 28	1 / 23 GD 21

Study Number: R88007B
Test Type: RACB
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

I05: Clinical Observations Summary
Test Compound: Butyl Paraben
CAS Number: 94-26-8

Date Report Requested: 03/22/2019
Time Report Requested: 15:11:00
Lab: RTI

F1 Female: F1c Parental Females

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	5000	15000	40000
GD	B	Sore(s) On Body Multiple Sites (>2)	0 / 29	1 / 25 GD 10	0 / 28	0 / 23
GD	B	Sore(s) On Body Neck	1 / 29 GD 0	0 / 25	0 / 28	0 / 23
GD	B	Sore(s) On Body Right Axillary	0 / 29	0 / 25	0 / 28	1 / 23 GD 20
GD	B	Sore(s) On Body Right Eye	0 / 29	1 / 25 GD 10	0 / 28	0 / 23
GD	B	Staining Nose/Snout; Red	0 / 29	1 / 25 GD 4	0 / 28	0 / 23
LD	B	Alopecia Chest	0 / 33	0 / 28	1 / 30 LD 0	1 / 25 LD 0
LD	B	Alopecia Left Fore Paw	0 / 33	0 / 28	0 / 30	1 / 25 LD 0
LD	B	Alopecia Left Forelimb	0 / 33	0 / 28	1 / 30 LD 1	0 / 25
LD	B	Alopecia Neck	1 / 33 LD 0	0 / 28	0 / 30	0 / 25
LD	B	Alopecia Right Fore Paw	0 / 33	0 / 28	0 / 30	1 / 25 LD 0

Study Number: R88007B
Test Type: RACB
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

I05: Clinical Observations Summary
Test Compound: Butyl Paraben
CAS Number: 94-26-8

Date Report Requested: 03/22/2019
Time Report Requested: 15:11:00
Lab: RTI

F1 Female: F1c Parental Females

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	5000	15000	40000
LD	B	Alopecia Right Forelimb	0 / 33	0 / 28	1 / 30 LD 0	1 / 25 LD 0
LD	B	Deformed Nose/Snout	0 / 33	1 / 28 LD 0	0 / 30	0 / 25
LD	B	Eye Discharge Right; Brown	1 / 33 LD 0	0 / 28	0 / 30	0 / 25
LD	B	Mass Chest	1 / 33 LD 0	0 / 28	1 / 30 LD 0	0 / 25
LD	B	Mass Face	0 / 33	1 / 28 LD 2	0 / 30	0 / 25
LD	B	Mass Right Axillary	0 / 33	1 / 28 LD 1	0 / 30	0 / 25
LD	B	Scab(s) Right Forelimb	0 / 33	0 / 28	0 / 30	1 / 25 LD 0
GD	C	Alopecia Chest	0 / 25	0 / 28	1 / 30 GD 0	0 / 23
GD	C	Alopecia Left Fore Paw	0 / 25	0 / 28	0 / 30	1 / 23 GD 5
GD	C	Alopecia Left Forelimb	0 / 25	0 / 28	1 / 30 GD 0	0 / 23

Study Number: R88007B
Test Type: RACB
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

I05: Clinical Observations Summary
Test Compound: Butyl Paraben
CAS Number: 94-26-8

Date Report Requested: 03/22/2019
Time Report Requested: 15:11:00
Lab: RTI

F1 Female: F1c Parental Females

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	5000	15000	40000
GD	C	Alopecia Right Fore Paw	0 / 25	0 / 28	0 / 30	1 / 23 GD 6
GD	C	Alopecia Right Forelimb	0 / 25	0 / 28	1 / 30 GD 0	0 / 23
GD	C	Deformed Nose/Snout	0 / 25	1 / 28 GD 0	0 / 30	0 / 23
GD	C	Eye Discharge Right; Red	0 / 25	0 / 28	1 / 30 GD 20	0 / 23
GD	C	Mass Chest	0 / 25	0 / 28	2 / 30 GD 0	0 / 23
GD	C	Mass Right Axillary	0 / 25	1 / 28 GD 0	0 / 30	0 / 23
GD	C	Tail Damaged	0 / 25	1 / 28 GD 18	0 / 30	0 / 23
GD	C	Tail Kinked	0 / 25	0 / 28	1 / 30 GD 0	0 / 23
LD	C	Alopecia Left Fore Paw	0 / 28	0 / 30	0 / 30	1 / 24 LD 0
LD	C	Alopecia Right Fore Paw	0 / 28	0 / 30	0 / 30	1 / 24 LD 0

Study Number: R88007B
Test Type: RACB
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

I05: Clinical Observations Summary
Test Compound: Butyl Paraben
CAS Number: 94-26-8

Date Report Requested: 03/22/2019
Time Report Requested: 15:11:00
Lab: RTI

F1 Female: F1c Parental Females

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	5000	15000	40000
LD	C	Convulsion	0 / 28	0 / 30	1 / 30 LD 10	0 / 24
LD	C	Deformed Nose/Snout	0 / 28	1 / 30 LD 0	0 / 30	0 / 24
LD	C	Eye Discharge Right; Red	0 / 28	0 / 30	1 / 30 LD 0	0 / 24
LD	C	Fur Stained Multiple Sites (>2); Red	0 / 28	0 / 30	0 / 30	2 / 24 LD 13
LD	C	Fur Stained Nose/Snout; Red	0 / 28	0 / 30	0 / 30	5 / 24 LD 13
LD	C	Loss of Limb Function Left Forelimb	1 / 28 LD 0	0 / 30	0 / 30	0 / 24
LD	C	Mass Chest	1 / 28 LD 1	0 / 30	0 / 30	0 / 24
LD	C	Mass Face	2 / 28 LD 1	0 / 30	0 / 30	0 / 24
LD	C	Mass Right Axillary	0 / 28	1 / 30 LD 0	0 / 30	0 / 24
LD	C	Mass Right Inguinal	0 / 28	0 / 30	1 / 30 LD 1	0 / 24

Study Number: R88007B
Test Type: RACB
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

I05: Clinical Observations Summary
Test Compound: Butyl Paraben
CAS Number: 94-26-8

Date Report Requested: 03/22/2019
Time Report Requested: 15:11:00
Lab: RTI

F1 Female: F1c Parental Females

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	5000	15000	40000
LD	C	Nasal Discharge Brown	0 / 28	0 / 30	0 / 30	1 / 24 LD 14
LD	C	Scab(s) Face	2 / 28 LD 13	0 / 30	0 / 30	0 / 24
LD	C	Staining Nose/Snout; Red	0 / 28	1 / 30 LD 13	0 / 30	6 / 24 LD 13
LD	C	Swelling Left Forelimb	1 / 28 LD 0	0 / 30	0 / 30	0 / 24
LD	C	Swelling Neck	0 / 28	0 / 30	0 / 30	1 / 24 LD 18
LD	C	Tail Damaged	0 / 28	1 / 30 LD 0	0 / 30	0 / 24
LD	C	Tail Kinked	0 / 28	0 / 30	1 / 30 LD 0	0 / 24
PND		Abnormal Gait	1 / 40 PND 176	0 / 40	0 / 40	0 / 26
PND		Alopecia Chest	1 / 40 PND 140	0 / 40	1 / 40 PND 146	0 / 26
PND		Alopecia Left Fore Paw	0 / 40	0 / 40	0 / 40	1 / 26 PND 132

Study Number: R88007B
Test Type: RACB
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

I05: Clinical Observations Summary
Test Compound: Butyl Paraben
CAS Number: 94-26-8

Date Report Requested: 03/22/2019
Time Report Requested: 15:11:00
Lab: RTI

F1 Female: F1c Parental Females

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	5000	15000	40000
PND		Alopecia Left Forelimb	0 / 40	0 / 40	1 / 40 PND 182	1 / 26 PND 187
PND		Alopecia Neck	1 / 40 PND 141	1 / 40 PND 189	1 / 40 PND 85	0 / 26
PND		Alopecia Right Fore Paw	0 / 40	0 / 40	0 / 40	1 / 26 PND 85
PND		Alopecia Right Forelimb	1 / 40 PND 140	1 / 40 PND 122	1 / 40 PND 150	1 / 26 PND 137
PND		Cold To Touch	0 / 40	0 / 40	1 / 40 PND 101	0 / 26
PND		Deformed Nose/Snout	0 / 40	1 / 40 PND 178	0 / 40	0 / 26
PND		Ear Damaged Right	0 / 40	0 / 40	0 / 40	1 / 26 PND 85
PND		Eye Discharge Bilateral; Brown	1 / 40 PND 103	0 / 40	1 / 40 PND 85	0 / 26
PND		Eye Discharge Bilateral; Red	2 / 40 PND 133	0 / 40	0 / 40	0 / 26
PND		Eye Discharge Right; Brown	2 / 40 PND 98	0 / 40	0 / 40	0 / 26

Study Number: R88007B
Test Type: RACB
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

I05: Clinical Observations Summary
Test Compound: Butyl Paraben
CAS Number: 94-26-8

Date Report Requested: 03/22/2019
Time Report Requested: 15:11:00
Lab: RTI

F1 Female: F1c Parental Females

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	5000	15000	40000
PND		Eye Discharge Right; Red	2 / 40 PND 154	0 / 40	0 / 40	1 / 26 PND 137
PND		Eye Squinting Bilateral	2 / 40 PND 121	0 / 40	0 / 40	0 / 26
PND		Eye Squinting Right	1 / 40 PND 217	0 / 40	0 / 40	0 / 26
PND		Feces Few	0 / 40	0 / 40	1 / 40 PND 85	0 / 26
PND		Fur Stained Head; Brown	0 / 40	0 / 40	1 / 40 PND 85	0 / 26
PND		Hunched	1 / 40 PND 176	0 / 40	0 / 40	0 / 26
PND		Hypoactive	1 / 40 PND 176	0 / 40	0 / 40	0 / 26
PND		Mass Abdomen	1 / 40 PND 176	0 / 40	0 / 40	0 / 26
PND		Mass Chest	1 / 40 PND 119	0 / 40	2 / 40 PND 179	0 / 26
PND		Mass Face	0 / 40	1 / 40 PND 176	0 / 40	0 / 26

Study Number: R88007B
Test Type: RACB
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

I05: Clinical Observations Summary
Test Compound: Butyl Paraben
CAS Number: 94-26-8

Date Report Requested: 03/22/2019
Time Report Requested: 15:11:00
Lab: RTI

F1 Female: F1c Parental Females

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	5000	15000	40000
PND		Mass Right Axillary	0 / 40	1 / 40 PND 176	0 / 40	0 / 26
PND		Nasal Discharge Red	0 / 40	0 / 40	1 / 40 PND 99	0 / 26
PND		Pale	0 / 40	0 / 40	1 / 40 PND 101	0 / 26
PND		Piloerection	1 / 40 PND 176	0 / 40	0 / 40	0 / 26
PND		Scab(s) Face	0 / 40	1 / 40 PND 179	0 / 40	0 / 26
PND		Scab(s) Neck	1 / 40 PND 143	1 / 40 PND 189	1 / 40 PND 85	0 / 26
PND		Sore(s) On Body Abdomen	0 / 40	0 / 40	1 / 40 PND 134	0 / 26
PND		Sore(s) On Body Chest	0 / 40	0 / 40	1 / 40 PND 146	0 / 26
PND		Sore(s) On Body Face	0 / 40	1 / 40 PND 183	0 / 40	0 / 26
PND		Sore(s) On Body Neck	1 / 40 PND 145	0 / 40	0 / 40	0 / 26

Study Number: R88007B
Test Type: RACB
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

I05: Clinical Observations Summary
Test Compound: Butyl Paraben
CAS Number: 94-26-8

Date Report Requested: 03/22/2019
Time Report Requested: 15:11:00
Lab: RTI

F1 Female: F1c Parental Females

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	5000	15000	40000
PND		Staining Bilateral Eyes; Red	1 / 40 PND 201	0 / 40	0 / 40	0 / 26
PND		Staining Left Eye; Red	0 / 40	0 / 40	1 / 40 PND 87	0 / 26
PND		Staining Nose/Snout; Red	0 / 40	0 / 40	1 / 40 PND 87	0 / 26
PND		Tail Damaged	0 / 40	0 / 40	0 / 40	1 / 26 PND 191
PND		Tail Kinked	0 / 40	0 / 40	1 / 40 PND 85	0 / 26
PND		Tail Tip Missing	1 / 40 PND 85	0 / 40	0 / 40	1 / 26 PND 223
PND		Vaginal Discharge Red	1 / 40 PND 152	0 / 40	0 / 40	2 / 26 PND 157
PND		Vaginal Thread	0 / 40	0 / 40	1 / 40 PND 85	1 / 26 PND 102

Study Number: R88007B
Test Type: RACB
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

I05: Clinical Observations Summary
Test Compound: Butyl Paraben
CAS Number: 94-26-8

Date Report Requested: 03/22/2019
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LEGEND

Animals exhibiting clinical observations "within normal limits" were recorded as scheduled but are omitted from the table for clarity.

Upper row displays cumulative number of animals with observation / total animals started on study for SD days, total number of pregnant animals for GD days, or total number of littered females for LD days.

Lower row displays day of observation onset

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

Females listed as SD were not pregnant

In multiple breeding/littering studies Litter A is the default designation for the first litter; subsequent litters would be B, C etc.

D Litter is crossover mating of F0 40000 ppm Females with F0 control Males and F0 naive Females with F0 40000 ppm Males (dose listed as 40000 NF are the F0 naive Females)

The F1 Males: All F1 Males includes all F1 males through postnatal day 91 except at postnatal days 86-89 F1 males designated as extra were removed. It includes only the F1 Parental cohort males from postnatal day 93 through 203 with postnatal day 213 representing the F1 Parental males that had not yet been sacrificed. The F1 Non-Parental cohort males were sacrificed on postnatal days 90 through 92.

The F1 Females: All F1 Females includes all the F1 females until mating with the exception at postnatal days 86-87 the F1 females designated as extra were removed and F1 females were removed for mammary gland whole mounts on postnatal days 33-39. The F1 Non-Parental females were removed on postnatal days 90 through 92 except for the 40000 ppm group which was removed by postnatal day 26 due to toxicity.

NF = Naive Females

**** END OF REPORT ****