

Study Number: MOG003B

Test Type: MOG

Route: Dosing in Feed

Species/Strain: Rat/Sprague-Dawley

C Number:

Study Gender:

PWG Approval Date

I05P: Pup Clinical Observations Summary

Test Compound: 2-Ethylhexyl p-Methoxycinnamate

CAS Number: 5466-77-3

MOG003B

Both

See web page for date of PWG Approval

Date Report Requested: 01/14/2020

Time Report Requested: 09:53:34

Lab: RTI

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	F1 Pups			
	Treatment Groups (ppm)			
	0	1000	3000	6000
Total Pups (PND 0)	246	317	230	249
No. pups post cull (PND 4)	187	237	186	200
Total Litters (PND 0)	22	24	19	22
No. litters post cull (PND 4)	21	24	19	22

Pup Clinical Observations PND 0-4

Bruising	0	1 (0.3)	0	0
Abdomen	0	1 (4.2)	0	0
		PND 1-3		
Bruising	2 (0.8)	0	4 (1.7)	2 (0.8)
Face	2 (9.1)	0	4 (21.1)	2 (9.1)
	PND 1-2		PND 0-2	PND 0-2
Bruising	0	1 (0.3)	0	0
Neck	0	1 (4.2)	0	0
		PND 2-3		
Bruising	0	0	1 (0.4)	0
Right Hind Paw	0	0	1 (5.3)	0
			PND 0	
Cold To Touch	8 (3.3)	0	1 (0.4)	0
	1 (4.5)	0	1 (5.3)	0
	PND 3-4		PND 0	

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	F1 Pups			
	Treatment Groups (ppm)			
	0	1000	3000	6000
No Milk in Stomach	8 (3.3)	0	1 (0.4)	0
	1 (4.5)	0	1 (5.3)	0
	PND 3-4		PND 4	
Pale	11 (4.5)	1 (0.3)	2 (0.9)	1 (0.4)
	3 (13.6)	1 (4.2)	1 (5.3)	1 (4.5)
	PND 0-4	PND 1	PND 1-4	PND 0-2
Pup - Found Dead	17 (6.9)	6 (1.9)	10 (4.3)	7 (2.8)
	7 (31.8)	6 (25.0)	7 (36.8)	6 (27.3)
	PND 0-4	PND 0-4	PND 0-2	PND 0-4
Pup Cannibalised	0	1 (0.3)	0	0
	0	1 (4.2)	0	0
		PND 0		
Pup Missing - Presumed Dead	2 (0.8)	1 (0.3)	1 (0.4)	2 (0.8)
	2 (9.1)	1 (4.2)	1 (5.3)	2 (9.1)
	PND 1-4	PND 3	PND 4	PND 1-3
Tail Damaged	0	1 (0.3)	0	1 (0.4)
	0	1 (4.2)	0	1 (4.5)
		PND 1-4		PND 1-4
Tail Tip Missing	0	0	1 (0.4)	1 (0.4)
	0	0	1 (5.3)	1 (4.5)
			PND 0-4	PND 0-4

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	F1 Pups			
	Treatment Groups (ppm)			
	0	1000	3000	6000
Pup Clinical Observations PND 5-28				
Deformed	0	1 (0.4)	0	0
Right Hindlimb	0	1 (4.2)	0	0
		PND 7-13		
Dehydrated	1 (0.5)	0	0	0
	1 (4.8)	0	0	0
	PND 10			
Eye Missing	0	0	0	1 (0.5)
Right	0	0	0	1 (4.5)
				PND 19-28
No Milk in Stomach	1 (0.5)	1 (0.4)	0	1 (0.5)
	1 (4.8)	1 (4.2)	0	1 (4.5)
	PND 10	PND 7-8		PND 13
Pup - Found Dead	0	2 (0.8)	0	1 (0.5)
	0	2 (8.3)	0	1 (4.5)
		PND 8-11		PND 9
Pup Missing - Presumed Dead	0	0	0	3 (1.5)
	0	0	0	3 (13.6)
				PND 7-11

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	F1 Pups			
	Treatment Groups (ppm)			
	0	1000	3000	6000
Scab(s)	0	1 (0.4)	0	0
Abdomen	0	1 (4.2) PND 7-8	0	0
Scab(s)	1 (0.5)	0	0	0
Tail Tip	1 (4.8) PND 21-23	0	0	0
Sore(s) On Body	0	0	0	1 (0.5)
Head	0	0	0	1 (4.5) PND 10-18
Swelling	0	0	0	1 (0.5)
Left Forelimb	0	0	0	1 (4.5) PND 16-18
Tail Damaged	0	0	0	2 (1.0)
	0	0	0	2 (9.1) PND 5-28
Tail Tip Missing	1 (0.5)	0	1 (0.5)	1 (0.5)
	1 (4.8) PND 21-28	0	1 (5.3) PND 5-28	1 (4.5) PND 5-28
Umbilical Hernia	1 (0.5)	0	0	0
	1 (4.8) PND 13	0	0	0

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F2 Pups - Fertility Females

	Treatment Groups (ppm)			
	0	1000	3000	6000
Total Pups (PND 0)	396	464	382	363
No. pups post cull (PND 4)	248	303	223	236
Total Litters (PND 0)	26	34	24	26
No. litters post cull (PND 4)	26	32	23	25

Pup Clinical Observations PND 0-4

Bruising	0	2 (0.4)	1 (0.3)	0
Abdomen	0	2 (5.9)	1 (4.2)	0
		PND 1-3	PND 0	
Bruising	2 (0.5)	1 (0.2)	1 (0.3)	0
Back	2 (7.7)	1 (2.9)	1 (4.2)	0
	PND 1-4	PND 0-2	PND 0	
Bruising	0	1 (0.2)	0	1 (0.3)
Chest	0	1 (2.9)	0	1 (3.8)
		PND 0-3		PND 1
Bruising	4 (1.0)	8 (1.7)	4 (1.0)	4 (1.1)
Face	3 (11.5)	6 (17.6)	4 (16.7)	4 (15.4)
	PND 0-4	PND 0-2	PND 0-2	PND 0-2
Bruising	2 (0.5)	1 (0.2)	0	0
Head	2 (7.7)	1 (2.9)	0	0
	PND 0-4	PND 2		

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F2 Pups - Fertility Females

	Treatment Groups (ppm)			
	0	1000	3000	6000
Bruising	0	0	2 (0.5)	1 (0.3)
Left Hind Paw	0	0	2 (8.3) PND 0	1 (3.8) PND 0
Bruising	0	0	0	1 (0.3)
Multiple Sites (>2)	0	0	0	1 (3.8) PND 4
Bruising	2 (0.5)	0	0	0
Neck	1 (3.8) PND 0-4	0	0	0
Bruising	0	0	1 (0.3)	1 (0.3)
Right Hind Paw	0	0	1 (4.2) PND 0	1 (3.8) PND 0-2
Bruising	0	0	1 (0.3)	0
Right Hindlimb	0	0	1 (4.2) PND 0	0
Cold To Touch	0	4 (0.9)	8 (2.1)	0
	0	4 (11.8) PND 0-1	1 (4.2) PND 4	0
Dehydrated	1 (0.3)	0	10 (2.6)	0
	1 (3.8) PND 4	0	1 (4.2) PND 4	0

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F2 Pups - Fertility Females

	Treatment Groups (ppm)			
	0	1000	3000	6000
Emaciated	0	0	5 (1.3)	0
	0	0	1 (4.2) PND 4	0
No Milk in Stomach	1 (0.3)	8 (1.7)	5 (1.3)	3 (0.8)
	1 (3.8)	5 (14.7)	1 (4.2)	2 (7.7)
	PND 2-4	PND 0-4	PND 4	PND 3-4
Pale	3 (0.8)	4 (0.9)	3 (0.8)	4 (1.1)
	3 (11.5)	3 (8.8)	3 (12.5)	3 (11.5)
	PND 0-4	PND 0-3	PND 0-1	PND 0-1
Pup - Found Dead	38 (9.6)	38 (8.2)	33 (8.6)	34 (9.4)
	17 (65.4)	21 (61.8)	14 (58.3)	16 (61.5)
	PND 0-4	PND 0-4	PND 0-4	PND 0-3
Pup Cannibalised	2 (0.5)	2 (0.4)	2 (0.5)	4 (1.1)
	2 (7.7)	2 (5.9)	2 (8.3)	4 (15.4)
	PND 0	PND 0	PND 0	PND 0
Pup Missing - Presumed Dead	3 (0.8)	7 (1.5)	6 (1.6)	2 (0.6)
	3 (11.5)	5 (14.7)	6 (25.0)	2 (7.7)
	PND 1-4	PND 1-3	PND 1-4	PND 1
Scab(s) Back	1 (0.3)	0	0	0
	1 (3.8)	0	0	0
	PND 4			

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F2 Pups - Fertility Females

	Treatment Groups (ppm)			
	0	1000	3000	6000
Scab(s)	0	0	1 (0.3)	0
Face	0	0	1 (4.2) PND 1	0
Scab(s)	0	1 (0.2)	0	0
Head	0	1 (2.9) PND 1-4	0	0
Sore(s) On Body	1 (0.3)	1 (0.2)	0	0
Abdomen	1 (3.8) PND 0-1	1 (2.9) PND 4	0	0
Sore(s) On Body	0	0	0	1 (0.3)
Nose/Snout	0	0	0	1 (3.8) PND 4
Swelling	0	0	0	1 (0.3)
Left Hind Paw	0	0	0	1 (3.8) PND 0
Tail Damaged	0	0	1 (0.3)	0
	0	0	1 (4.2) PND 0-4	0

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F2 Pups - Fertility Females

	Treatment Groups (ppm)			
	0	1000	3000	6000
Pup Clinical Observations PND 5-28				
Alopecia	0	1 (0.3)	0	0
Chest	0	1 (3.1)	0	0
		PND 17-22		
Cold To Touch	4 (1.6)	8 (2.6)	7 (3.1)	3 (1.3)
	3 (11.5)	5 (15.6)	5 (21.7)	3 (12.0)
	PND 7-9	PND 7-15	PND 5-10	PND 8-9
Dehydrated	1 (0.4)	2 (0.7)	0	4 (1.7)
	1 (3.8)	2 (6.2)	0	2 (8.0)
	PND 7	PND 5-7		PND 8-16
Dragging limb	1 (0.4)	0	0	0
Left Hindlimb	1 (3.8)	0	0	0
	PND 7			
Emaciated	2 (0.8)	7 (2.3)	5 (2.2)	3 (1.3)
	2 (7.7)	3 (9.4)	3 (13.0)	3 (12.0)
	PND 7-8	PND 7-9	PND 7-13	PND 8-9
Feces	1 (0.4)	0	0	0
Soft	1 (3.8)	0	0	0
	PND 16			

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F2 Pups - Fertility Females

	Treatment Groups (ppm)			
	0	1000	3000	6000
Gasping	0	2 (0.7)	0	0
	0	2 (6.2) PND 7-9	0	0
Lethargic	0	0	1 (0.4)	0
	0	0	1 (4.3) PND 13	0
No Milk in Stomach	12 (4.8)	25 (8.3)	14 (6.3)	23 (9.7)
	7 (26.9)	9 (28.1)	10 (43.5)	6 (24.0)
	PND 7-12	PND 5-10	PND 5-11	PND 5-10
Pale	0	1 (0.3)	0	0
	0	1 (3.1) PND 5	0	0
Pup - Found Dead	23 (9.3)	18 (5.9)	20 (9.0)	13 (5.5)
	10 (38.5)	9 (28.1)	9 (39.1)	9 (36.0)
	PND 5-12	PND 5-11	PND 6-13	PND 5-14
Pup Cannibalised	2 (0.8)	4 (1.3)	0	1 (0.4)
	2 (7.7)	1 (3.1)	0	1 (4.0)
	PND 10-12	PND 10-16		PND 9
Pup Missing - Presumed Dead	13 (5.2)	11 (3.6)	20 (9.0)	4 (1.7)
	7 (26.9)	6 (18.8)	8 (34.8)	4 (16.0)
	PND 6-12	PND 6-11	PND 5-13	PND 7-10

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F2 Pups - Fertility Females

	Treatment Groups (ppm)			
	0	1000	3000	6000
Respiration Audible	2 (0.8) 2 (7.7) PND 18-20	3 (1.0) 2 (6.2) PND 7-14	1 (0.4) 1 (4.3) PND 7	3 (1.3) 3 (12.0) PND 15-22
Respiration Labored	1 (0.4) 1 (3.8) PND 12	3 (1.0) 2 (6.2) PND 7-9	0 0	0 0
Respiration Slow	0 0	0 0	1 (0.4) 1 (4.3) PND 13	0 0
Scab(s) Back	1 (0.4) 1 (3.8) PND 5-8	0 0	0 0	0 0
Scab(s) Head	0 0	1 (0.3) 1 (3.1) PND 7-8	0 0	0 0
Sore(s) On Body Tail	0 0	0 0	1 (0.4) 1 (4.3) PND 16-17	0 0
Swelling Chest	0 0	1 (0.3) 1 (3.1) PND 10-17	0 0	0 0

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	Treatment Groups (ppm)			
	0	1000	3000	6000
Tail Damaged	1 (0.4)	0	3 (1.3)	0
	1 (3.8)	0	3 (13.0)	0
	PND 19-28		PND 5-27	
Tail Tip Missing	0	0	2 (0.9)	0
	0	0	2 (8.7)	0
			PND 24-28	

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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 denotes the pup incidence N (%)

Middle row denotes the litter incidence N (%)

Lower row denotes the range of postnatal days the finding was seen for the group

F1 litter incidence based on the number of F0 dams; F2 litter incidence based on number of F1 dams.

No. live litters includes litters with ≥ 1 live pup

Percent incidence calculated using number of live pups or litters on PND 0 (pre cull) or PND 4 (post cull)

PND - Postnatal Day, pups pre-weaning

**** END OF REPORT ****