

Study Number: MOG002B

Test Type: MOG

Route: Dosing in Feed

Species/Strain: Rat/Sprague-Dawley

C Number:

Study Gender:

PWG Approval Date

PA10R: Statistical Analysis of Non-Neoplastic Lesions with Litter Incidence

Test Compound: 2-Hydroxy-4-methoxybenzophenone

CAS Number: 131-57-7

MOG002B

Both

See web page for date of PWG Approval

Date Report Requested: 01/13/2020

Time Report Requested: 10:01:21

Lab: RTI

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Lab: RTI

F1 Male : Prenatal Male

Treatment Groups (ppm)

	0	3000	10000	30000	0.05 ppm EE
Disposition Summary					
Animals Initially In Study	23	20	22	20	15
Early Deaths					
Scheduled Deaths					
Scheduled sacrifice, terminal (PND 111 - 113)	23	20	22	20	15
Number of Animals Examined				2	
Total number litters				2	

ALIMENTARY SYSTEM

None

CARDIOVASCULAR SYSTEM

None

ENDOCRINE SYSTEM

None

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

None

HEMATOLYMPHOID SYSTEM

None

INTEGUMENTARY SYSTEM

None

MUSCULOSKELETAL SYSTEM

None

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F1 Male : Prenatal Male

Treatment Groups (ppm)

0 3000 10000 30000 0.05 ppm EE

NERVOUS SYSTEM

None

RESPIRATORY SYSTEM

None

SPECIAL SENSES SYSTEM

None

URINARY SYSTEM

None

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F1 Female : Prenatal Female

Treatment Groups (ppm)

	0	3000	10000	30000	0.05 ppm EE
Disposition Summary					
Animals Initially In Study	22	20	22	20	15
Early Deaths					
Scheduled Deaths					
Scheduled sacrifice, terminal (GD 20 - 21, PND 109 - 123)	22	20	22	20	15
Number of Animals Examined					

ALIMENTARY SYSTEM

None

CARDIOVASCULAR SYSTEM

None

ENDOCRINE SYSTEM

None

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

None

HEMATOLYMPHOID SYSTEM

None

INTEGUMENTARY SYSTEM

None

MUSCULOSKELETAL SYSTEM

None

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F1 Female : Prenatal Female

Treatment Groups (ppm)

0 3000 10000 30000 0.05 ppm EE

NERVOUS SYSTEM

None

RESPIRATORY SYSTEM

None

SPECIAL SENSES SYSTEM

None

URINARY SYSTEM

None

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 Lab: RTI

F1 Male : Fertility Male

Treatment Groups (ppm)

	0	3000	10000	30000	0.05 ppm EE
Disposition Summary					
Animals Initially In Study	41	40	40	40	30
Early Deaths					
Scheduled Deaths					
Scheduled sacrifice, terminal (PND 153 - 155)	41	40	40	40	30
Number of Animals Examined	41	40	40	40	30
Total number litters	22	20	21	20	15
ALIMENTARY SYSTEM					
LIVER	(41)	(40)	(40)	(40)	(2)
HEPATODIAPHRAGMATIC NODULE			1 (2.5%) [1]	1 (2.5%) [1]	1 (50%) [1]
INFLAMMATION; FOCAL	3 (7.3%) [3]	10 (25%) [9] *	8 (20%) [8]	3 (7.5%) [3]	
HEPATOCTE; NECROSIS; FOCAL	1 (2.4%) [1]				
MESENTERY	(0)	(0)	(0)	(1)	(0)
FAT; NECROSIS				1 (100%) [1]	
CARDIOVASCULAR SYSTEM					
None					
ENDOCRINE SYSTEM					
ADRENAL GLANDS	(41)	(0)	(0)	(40)	(0)
CORTEX; VACUOLATION; DIFFUSE				3 (7.5%) [3]	
PITUITARY GLAND	(41)	(0)	(0)	(40)	(0)
RATHKES CLEFT; CYST; MULTILOCULAR	1 (2.4%) [1]				
THYROID GLANDS	(41)	(0)	(0)	(40)	(30)
FOLLICULAR CELL; HYPERTROPHY; DIFFUSE	1 (2.4%) [1]				

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F1 Male : Fertility Male

	Treatment Groups (ppm)				
	0	3000	10000	30000	0.05 ppm EE
GENERAL BODY SYSTEM					
FAT	(0)	(0)	(0)	(0)	(1)
INFLAMMATION; CHRONIC ACTIVE NECROSIS					1 (100%) [1] 1 (100%) [1]
GENITAL SYSTEM					
EPIDIDYMIDES	(41)	(0)	(1)	(40)	(30)
LUMEN; GERM CELL; EXFOLIATED (TOTAL)			1 (100%) [1]	1 (2.5%) [1]	
LUMEN; HYOSPERMIA (TOTAL)			1 (100%) [1]	1 (2.5%) [1]	
PREPUTIAL GLANDS	(41)	(5)	(4)	(40)	(5)
DUCT; ECTASIA	23 (56.1%) [18]	4 (80%) [3]	4 (100%) [4]	32 (80%) [19] *	5 (100%) [4]
DUCT; FOREIGN MATERIAL					1 (20%) [1]
INFLAMMATION; CHRONIC ACTIVE	12 (29.3%) [9]	3 (60%) [2]	3 (75%) [3]	18 (45%) [14]	1 (20%) [1]
PROSTATE	(0)	(0)	(0)	(0)	(3)
INFILTRATION CELLULAR; MONONUCLEAR CELL					3 (100%) [3]
TESTES	(41)	(0)	(1)	(40)	(30)
GERMINAL EPITHELIUM; UNILATERAL; ATROPHY	2 (4.9%) [2]			1 (2.5%) [1]	
GERM CELL; DEGENERATION (TOTAL)	2 (4.9%) [2]		1 (100%) [1]	1 (2.5%) [1]	
VENTRAL PROSTATE	(41)	(0)	(0)	(40)	(27)
INTERSTITIUM; LYMPHOCYTE; INFILTRATION CELLULAR	8 (19.5%) [6]			6 (15%) [5]	
HEMATOLYMPHOID SYSTEM					
SPLEEN	(2)	(1)	(0)	(0)	(0)
CONGESTION		1 (100%) [1]			

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F1 Male : Fertility Male

Treatment Groups (ppm)

	0	3000	10000	30000	0.05 ppm EE
INTEGUMENTARY SYSTEM					
SKIN	(0)	(0)	(1)	(1)	(0)
HAIR FOLLICLE; ATROPHY; FOCAL				1 (100%) [1]	
EPIDERMIS; HYPERKERATOSIS; FOCAL				1 (100%) [1]	
EPIDERMIS; HYPERPLASIA; FOCAL				1 (100%) [1]	
DERMIS; INFLAMMATION; CHRONIC ACTIVE (TOTAL)			1 (100%) [1]	1 (100%) [1]	
EPIDERMIS; ULCERATION; FOCAL			1 (100%) [1]		
MUSCULOSKELETAL SYSTEM					
BONE	(2)	(0)	(1)	(0)	(0)
DEFORMITY			1 (100%) [1]		
NERVOUS SYSTEM					
None					
RESPIRATORY SYSTEM					
None					
SPECIAL SENSES SYSTEM					
None					

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F1 Male : Fertility Male

Treatment Groups (ppm)

	0	3000	10000	30000	0.05 ppm EE
URINARY SYSTEM					
KIDNEYS	(41)	(40)	(40)	(40)	(0)
CHRONIC PROGRESSIVE NEPHROPATHY	40 (97.6%) [22]	40 (100%) [20]	39 (97.5%) [21]	39 (97.5%) [20]	
PELVIS; CONCRETION	0 **			17 (42.5%) [13] **	
RENAL TUBULE; CONCRETION	0 **			35 (87.5%) [19] **	
UROTHELIUM; CONCRETION				1 (2.5%) [1]	
RENAL TUBULE; CYST			1 (2.5%) [1]		
PELVIS; RIGHT; DILATION	3 (7.3%) [3]		2 (5%) [2]	5 (12.5%) [5]	
RENAL TUBULE; DILATION	0 **			37 (92.5%) [20] **	
UROTHELIUM; HYPERPLASIA (TOTAL)	0 **	1 (2.5%) [1]		18 (45%) [15] **	
INFARCT	1 (2.4%) [1]				
INTERSTITIUM; INFLAMMATION; CHRONIC ACTIVE	0 **			22 (55%) [14] **	
MEDULLA; INFLAMMATION; GRANULOMATOUS	1 (2.4%) [1]				
PAPILLA; NECROSIS	0 **			10 (25%) [10] **	
UROTHELIUM; NECROSIS				1 (2.5%) [1]	
NEPHROBLASTEMATOSIS; FOCAL	1 (2.4%) [1]				
RENAL TUBULE; EPITHELIUM; REGENERATION	0 **			33 (82.5%) [17] **	
UROTHELIUM; ULCER	0 **			12 (30%) [9] **	
URINARY BLADDER	(2)	(0)	(0)	(17)	(0)
CONCRETION				11 (64.7%) [8]	
UROTHELIUM; EROSION; FOCAL				2 (11.8%) [2]	
UROTHELIUM; HYPERPLASIA; DIFFUSE				1 (5.9%) [1]	
SUBMUCOSA; INFLAMMATION; CHRONIC ACTIVE				1 (5.9%) [1]	

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F1 Female : Fertility Female

Treatment Groups (ppm)

	0	3000	10000	30000	0.05 ppm EE
Disposition Summary					
Animals Initially In Study	41	40	40	40	30
Early Deaths					
Scheduled Deaths					
Scheduled sacrifice, terminal (GD 24, LD 28, PND 127 - 143)	41	40	40	40	30
Number of Animals Examined	35	37	33	32	28
Total number litters	22	20	20	20	15
ALIMENTARY SYSTEM					
LIVER	(35)	(2)	(1)	(32)	(0)
HEPATODIAPHRAGMATIC NODULE INFLAMMATION; FOCAL		2 (100%) [2]	1 (100%) [1]	4 (12.5%) [3] 2 (6.3%) [2]	
MESENTERY	(0)	(1)	(0)	(0)	(0)
FAT; NECROSIS		1 (100%) [1]			
CARDIOVASCULAR SYSTEM					
None					
ENDOCRINE SYSTEM					
ADRENAL GLANDS	(35)	(0)	(1)	(32)	(0)
UNILATERAL; CONGESTION; DIFFUSE CORTEX; HYPERTROPHY; FOCAL CORTEX; VACUOLATION; DIFFUSE	1 (2.9%) [1]		1 (100%) [1]	2 (6.3%) [2]	
PITUITARY GLAND	(35)	(0)	(0)	(32)	(0)
PARS DISTALIS; CYST	1 (2.9%) [1]				
THYROID GLANDS	(35)	(0)	(0)	(32)	(28)
FOLLICULAR CELL; HYPERTROPHY; DIFFUSE	1 (2.9%) [1]				

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F1 Female : Fertility Female

Treatment Groups (ppm)

0 3000 10000 30000 0.05 ppm EE

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

CLITORAL GLANDS	(3)	(1)	(1)	(0)	(1)
DUCT; ECTASIA (TOTAL)	3 (100%) [3]	1 (100%) [1]	1 (100%) [1]		1 (100%) [1]
INFLAMMATION, CHRONIC; ACTIVE	1 (33.3%) [1]				
OVARIES	(35)	(1)	(0)	(32)	(28)
CORPUS LUTEUM; CYST	3 (8.6%) [3]			2 (6.3%) [2]	1 (3.6%) [1]
FOLLICLE; CYST	3 (8.6%) [3]				
PERIOVARIAN; FAT; NECROSIS		1 (100%) [1]			
UTERUS	(35)	(0)	(0)	(32)	(0)
MUCOSA; DECIDUAL ALTERATION; FOCAL	1 (2.9%) [1]				
ENDOMETRIUM; HYPERPLASIA; CYSTIC	2 (5.7%) [2]				
VAGINA	(33)	(0)	(0)	(32)	(0)
EPITHELIUM; CYST	1 (3%) [1]			1 (3.1%) [1]	

HEMATOLYMPHOID SYSTEM

LYMPH NODE, MANDIBULAR	(0)	(0)	(0)	(1)	(0)
CONGESTION				1 (100%) [1]	
LYMPHOCYTE; DEPLETION				1 (100%) [1]	
SPLEEN	(2)	(0)	(0)	(0)	(0)
RED PULP; PIGMENTED MACROPHAGE; INCREASED	1 (50%) [1]				

INTEGUMENTARY SYSTEM

None

MUSCULOSKELETAL SYSTEM

None

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F1 Female : Fertility Female

Treatment Groups (ppm)

0

3000

10000

30000

0.05 ppm EE

NERVOUS SYSTEM

None

RESPIRATORY SYSTEM

None

SPECIAL SENSES SYSTEM

None

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F1 Female : Fertility Female

Treatment Groups (ppm)

	0	3000	10000	30000	0.05 ppm EE
URINARY SYSTEM					
KIDNEYS	(35)	(37)	(33)	(32)	(0)
CHRONIC PROGRESSIVE NEPHROPATHY	18 (51.4%) [14]	35 (94.6%) [19] **	29 (87.9%) [19] **	22 (68.8%) [17]	
PELVIS; CONCRETION	0 **			9 (28.1%) [5]	
RENAL TUBULE; CONCRETION	0 **			13 (40.6%) [12] **	
RENAL TUBULE; CYST			3 (9.1%) [3]	1 (3.1%) [1]	
RENAL TUBULE; EPITHELIUM; DEGENERATION	0 **			21 (65.6%) [14] **	
PELVIS; DILATION (TOTAL)	0 *	1 (2.7%) [1]		5 (15.6%) [5]	
RENAL TUBULE; DILATION	0 **			28 (87.5%) [19] **	
CAPSULE; FIBROSIS				1 (3.1%) [1]	
UROTHELIUM; HYPERPLASIA; DIFFUSE	0 **			15 (46.9%) [12] **	
INTERSTITIUM; INFLAMMATION; CHRONIC ACTIVE	0 **			8 (25%) [8] *	
UROTHELIUM; METAPLASIA; SQUAMOUS				1 (3.1%) [1]	
MINERALIZATION	9 (25.7%) [8]	28 (75.7%) [17] **	24 (72.7%) [18] **	10 (31.3%) [8]	
PAPILLA; NECROSIS	0 *			4 (12.5%) [3]	
NEPHROBLASTEMATOSIS; FOCAL		2 (5.4%) [2]			
RENAL TUBULE; EPITHELIUM; REGENERATION	0 **		3 (9.1%) [3]	13 (40.6%) [12] **	
UROTHELIUM; ULCER	0 **			6 (18.8%) [6] *	
URETERS	(1)	(0)	(0)	(1)	(0)
UROTHELIUM; HYPERPLASIA; DIFFUSE				1 (100%) [1]	
URINARY BLADDER	(0)	(0)	(0)	(1)	(0)
CONCRETION				1 (100%) [1]	
LUMEN; DILATION				1 (100%) [1]	
UROTHELIUM; HYPERPLASIA; FOCAL				1 (100%) [1]	

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F2 Male

Treatment Groups (ppm)

	0	3000	10000	30000	0.05 ppm EE
Disposition Summary					
Animals Initially In Study	91	110	101	88	87
Early Deaths					
Scheduled Deaths					
Scheduled sacrifice, terminal (PND 28)	91	110	101	88	87
Number of Animals Examined				3	1
Total number litters				3	1

ALIMENTARY SYSTEM

None

CARDIOVASCULAR SYSTEM

None

ENDOCRINE SYSTEM

None

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

None

HEMATOLYMPHOID SYSTEM

None

INTEGUMENTARY SYSTEM

None

MUSCULOSKELETAL SYSTEM

None

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F2 Male

Treatment Groups (ppm)

0

3000

10000

30000

0.05 ppm EE

NERVOUS SYSTEM

None

RESPIRATORY SYSTEM

None

SPECIAL SENSES SYSTEM

None

URINARY SYSTEM

None

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F2 Female

Treatment Groups (ppm)

	0	3000	10000	30000	0.05 ppm EE
Disposition Summary					
Animals Initially In Study	94	95	85	86	91
Early Deaths					
Scheduled Deaths					
Scheduled sacrifice, terminal (PND 28)	94	95	85	86	91
Number of Animals Examined	1	1			
Total number litters	1	1			

ALIMENTARY SYSTEM

None

CARDIOVASCULAR SYSTEM

None

ENDOCRINE SYSTEM

None

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

None

HEMATOLYMPHOID SYSTEM

None

INTEGUMENTARY SYSTEM

None

MUSCULOSKELETAL SYSTEM

None

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F2 Female

Treatment Groups (ppm)

0 3000 10000 30000 0.05 ppm EE

NERVOUS SYSTEM

None

RESPIRATORY SYSTEM

None

SPECIAL SENSES SYSTEM

None

URINARY SYSTEM

None

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LEGEND

Number of animals examined for each tissue shown in parentheses. If none of the animals examined have the specific lesion then there is a blank for that dose group for that specific lesion. The exception to this is if statistical significance is found for a lesion and the control group has no animals with the lesion then a 0 is included for the control group on the table for that lesion.

Number of animals with observation reported with percent incidence in parentheses

Number of litters with observations shown in square brackets for F1 and F2 animals. F1 litter incidence based on the number of F0 dams; F2 litter incidence based on number of F1 dams.

All trend and pairwise p-values are reported as one-sided.

Trend p-values are reported only for those organs that were fully examined in the control group plus two or more other dose groups. For organs that were fully examined in just the control and one other dose group, only the pairwise p-values are reported.

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 $P \leq 0.01$

Lesions in the F1 generation animals were analyzed using a Cochran-Armitage test with a poly-3 adjustment for age and a Rao-Scott modification for the random effect due to litter.

Lesions in the F2 animals were analyzed using a Cochran-Armitage test with a Rao-Scott modification for the random effect due to litter.

EE = Ethinyl estradiol

**** END OF REPORT ****