

Study Number: MOG002B

Test Type: MOG

Route: Dosing in Feed

Species/Strain: Rat/Sprague-Dawley

C Number:

Study Gender:

PWG Approval Date

PA05R: Incidence Rates of Neoplastic Lesions with Litter Incidence (Systemic Lesions Abridged)

Test Compound: 2-Hydroxy-4-methoxybenzophenone

CAS Number: 131-57-7

MOG002B

Both

See web page for date of PWG Approval

Date Report Requested: 12/13/2019

Time Report Requested: 13:28:49

Lab: RTI

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	F0 Female				
	Treatment Groups (ppm)				
	0	3000	10000	30000	0.05 ppm EE
Disposition Summary					
Animals Initially In Study	25	25	25	25	25
Scheduled Sacrifice					
Early Deaths					
Euthanized, moribund					1
Scheduled Deaths					
Scheduled sacrifice, terminal (GD 24, LD 4 - 28, SD 24 - 27)	25	25	25	25	24
Animals Examined Microscopically	1		1	7	1
ALIMENTARY SYSTEM					
LIVER	(0)	(0)	(0)	(0)	(1)
CARDIOVASCULAR SYSTEM					
No Tissues/Organs Examined					
ENDOCRINE SYSTEM					
ADRENAL GLANDS	(0)	(0)	(0)	(0)	(1)
GENERAL BODY SYSTEM					
No Tissues/Organs Examined					
GENITAL SYSTEM					
UTERUS	(0)	(0)	(1)	(4)	(0)
VAGINA	(0)	(0)	(0)	(2)	(0)
HEMATOLYMPHOID SYSTEM					
SPLEEN	(0)	(0)	(0)	(0)	(1)
INTEGUMENTARY SYSTEM					
MAMMARY GLANDS	(0)	(0)	(0)	(1)	(0)
ADENOCARCINOMA				1 (100%)	
MUSCULOSKELETAL SYSTEM					
No Tissues/Organs Examined					

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	F0 Female				
	Treatment Groups (ppm)				
	0	3000	10000	30000	0.05 ppm EE
NERVOUS SYSTEM					
No Tissues/Organs Examined					
RESPIRATORY SYSTEM					
No Tissues/Organs Examined					
SPECIAL SENSES SYSTEM					
No Tissues/Organs Examined					
URINARY SYSTEM					
KIDNEYS	(1)	(0)	(0)	(3)	(0)
SYSTEMIC LESIONS					
Multiple Organ(a)	(0)	(0)	(0)	(0)	(1)
LYMPHOMA					1 (100%)

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Tumor Summary Data for F0 Female	Treatment Groups (ppm)				
	0	3000	10000	30000	0.05 ppm EE
Total Animals with Primary Neoplasms	0	0	0	0	0
Total Primary Neoplasms	0	0	0	0	0
Total Animals with Benign Neoplasms	0	0	0	0	0
Total Benign Neoplasms	0	0	0	0	0
Total Animals with Malignant Neoplasms	0	0	0	1	1
Total Malignant Neoplasms	0	0	0	1	3
Total Animals with Metastatic Neoplasms	0	0	0	0	0
Total Metastatic Neoplasms	0	0	0	0	0
Total Animals with Malignant Neoplasms Uncertain Primary Site	0	0	0	0	0

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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
Scheduled Sacrifice					
Early Deaths					
Scheduled Deaths					
Scheduled sacrifice, terminal (PND 111 - 113)	23	20	22	20	15
Animals Examined Microscopically	5	1	2	15	1
Total number litters	5	1	2	15	1
ALIMENTARY SYSTEM					
LIVER	(2)	(0)	(0)	(1)	(0)
CARDIOVASCULAR SYSTEM					
No Tissues/Organs Examined					
ENDOCRINE SYSTEM					
No Tissues/Organs Examined					
GENERAL BODY SYSTEM					
No Tissues/Organs Examined					
GENITAL SYSTEM					
PENIS	(2)	(0)	(0)	(1)	(0)
PREPUTIAL GLANDS	(3)	(1)	(0)	(0)	(1)
HEMATOLYMPHOID SYSTEM					
No Tissues/Organs Examined					
INTEGUMENTARY SYSTEM					
No Tissues/Organs Examined					
MUSCULOSKELETAL SYSTEM					
No Tissues/Organs Examined					

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Test Compound: 2-Hydroxy-4-methoxybenzophenone
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Lab: RTI

F1 Male: Prenatal Male

Treatment Groups (ppm)

0 3000 10000 30000 0.05 ppm EE

NERVOUS SYSTEM

No Tissues/Organs Examined

RESPIRATORY SYSTEM

No Tissues/Organs Examined

SPECIAL SENSES SYSTEM

No Tissues/Organs Examined

URINARY SYSTEM

KIDNEYS (2) (0) (2) (13) (0)

URINARY BLADDER (2) (0) (0) (9) (0)

No Systemic Lesions

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Species/Strain: Rat/Sprague-Dawley

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Test Compound: 2-Hydroxy-4-methoxybenzophenone
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Lab: RTI

Tumor Summary Data for F1 Male Prenatal Male	Treatment Groups (ppm)				
	0	3000	10000	30000	0.05 ppm EE
Total Animals with Primary Neoplasms	0	0	0	0	0
Total Primary Neoplasms	0	0	0	0	0
Total Animals with Benign Neoplasms	0	0	0	0	0
Total Benign Neoplasms	0	0	0	0	0
Total Animals with Malignant Neoplasms	0	0	0	0	0
Total Malignant Neoplasms	0	0	0	0	0
Total Animals with Metastatic Neoplasms	0	0	0	0	0
Total Metastatic Neoplasms	0	0	0	0	0
Total Animals with Malignant Neoplasms Uncertain Primary Site	0	0	0	0	0

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Test Type: MOG
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

PA05R: Incidence Rates of Neoplastic Lesions with Litter Incidence (Systemic Lesions Abridged)

Test Compound: 2-Hydroxy-4-methoxybenzophenone
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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
Scheduled Sacrifice					
Early Deaths					
Scheduled Deaths					
Scheduled sacrifice, terminal (GD 20 - 21, PND 109 - 123)	22	20	22	20	15
Animals Examined Microscopically		1			
Total number litters		1			

ALIMENTARY SYSTEM

No Tissues/Organs Examined

CARDIOVASCULAR SYSTEM

No Tissues/Organs Examined

ENDOCRINE SYSTEM

No Tissues/Organs Examined

GENERAL BODY SYSTEM

No Tissues/Organs Examined

GENITAL SYSTEM

UTERUS	(0)	(1)	(0)	(0)	(0)
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HEMATOLYMPHOID SYSTEM

No Tissues/Organs Examined

INTEGUMENTARY SYSTEM

No Tissues/Organs Examined

MUSCULOSKELETAL SYSTEM

No Tissues/Organs Examined

NERVOUS SYSTEM

No Tissues/Organs Examined

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F1 Female: Prenatal Female

Treatment Groups (ppm)

0

3000

10000

30000

0.05 ppm EE

RESPIRATORY SYSTEM

No Tissues/Organs Examined

SPECIAL SENSES SYSTEM

No Tissues/Organs Examined

URINARY SYSTEM

No Tissues/Organs Examined

No Systemic Lesions

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Tumor Summary Data for F1 Female Prenatal Female	Treatment Groups (ppm)				
	0	3000	10000	30000	0.05 ppm EE
Total Animals with Primary Neoplasms	0	0	0	0	0
Total Primary Neoplasms	0	0	0	0	0
Total Animals with Benign Neoplasms	0	0	0	0	0
Total Benign Neoplasms	0	0	0	0	0
Total Animals with Malignant Neoplasms	0	0	0	0	0
Total Malignant Neoplasms	0	0	0	0	0
Total Animals with Metastatic Neoplasms	0	0	0	0	0
Total Metastatic Neoplasms	0	0	0	0	0
Total Animals with Malignant Neoplasms Uncertain Primary Site	0	0	0	0	0

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 Species/Strain: Rat/Sprague-Dawley

PA05R: Incidence Rates of Neoplastic Lesions with Litter Incidence (Systemic Lesions Abridged)

Test Compound: 2-Hydroxy-4-methoxybenzophenone
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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
Scheduled Sacrifice					
Early Deaths					
Scheduled Deaths					
Scheduled sacrifice, terminal (PND 153 - 155)	41	40	40	40	30
Animals Examined Microscopically	41	40	40	40	30
Total number litters	22	20	21	20	15
ALIMENTARY SYSTEM					
LIVER	(41)	(40)	(40)	(40)	(2)
MESENTERY	(0)	(0)	(0)	(1)	(0)
CARDIOVASCULAR SYSTEM					
No Tissues/Organs Examined					
ENDOCRINE SYSTEM					
ADRENAL GLANDS	(41)	(0)	(0)	(40)	(0)
PITUITARY GLAND	(41)	(0)	(0)	(40)	(0)
THYROID GLANDS	(41)	(0)	(0)	(40)	(30)
GENERAL BODY SYSTEM					
FAT	(0)	(0)	(0)	(0)	(1)

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PA05R: Incidence Rates of Neoplastic Lesions with Litter Incidence (Systemic Lesions Abridged)

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 CAS Number: 131-57-7

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 Lab: RTI

F1 Male: Fertility Male

	Treatment Groups (ppm)				
	0	3000	10000	30000	0.05 ppm EE
GENITAL SYSTEM					
COAGULATING GLANDS	(41)	(0)	(0)	(40)	(0)
COWPERS GLANDS	(41)	(0)	(0)	(40)	(0)
DORSAL PROSTATE	(41)	(0)	(0)	(40)	(27)
EPIDIDYMIDES	(41)	(0)	(1)	(40)	(30)
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	(41)	(0)	(0)	(40)	(0)
PREPUTIAL GLANDS	(41)	(5)	(4)	(40)	(5)
PROSTATE	(0)	(0)	(0)	(0)	(3)
SEMINAL VESICLES	(41)	(0)	(0)	(40)	(0)
TESTES	(41)	(0)	(1)	(40)	(30)
VENTRAL PROSTATE	(41)	(0)	(0)	(40)	(27)
HEMATOLYMPHOID SYSTEM					
SPLEEN	(2)	(1)	(0)	(0)	(0)
INTEGUMENTARY SYSTEM					
MAMMARY GLANDS	(1)	(0)	(0)	(0)	(0)
SKIN	(0)	(0)	(1)	(1)	(0)
MUSCULOSKELETAL SYSTEM					
BONE	(2)	(0)	(1)	(0)	(0)
NERVOUS SYSTEM					
No Tissues/Organs Examined					
RESPIRATORY SYSTEM					
No Tissues/Organs Examined					
SPECIAL SENSES SYSTEM					
No Tissues/Organs Examined					

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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)
URINARY BLADDER	(2)	(0)	(0)	(17)	(0)
No Systemic Lesions					

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PA05R: Incidence Rates of Neoplastic Lesions with Litter Incidence (Systemic Lesions Abridged)

Test Compound: 2-Hydroxy-4-methoxybenzophenone
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Tumor Summary Data for F1 Male Fertility Male	Treatment Groups (ppm)				
	0	3000	10000	30000	0.05 ppm EE
Total Animals with Primary Neoplasms	0	0	0	0	0
Total Primary Neoplasms	0	0	0	0	0
Total Animals with Benign Neoplasms	0	0	0	0	0
Total Benign Neoplasms	0	0	0	0	0
Total Animals with Malignant Neoplasms	0	0	0	0	0
Total Malignant Neoplasms	0	0	0	0	0
Total Animals with Metastatic Neoplasms	0	0	0	0	0
Total Metastatic Neoplasms	0	0	0	0	0
Total Animals with Malignant Neoplasms Uncertain Primary Site	0	0	0	0	0

Study Number: MOG002B
 Test Type: MOG
 Route: Dosing in Feed
 Species/Strain: Rat/Sprague-Dawley

PA05R: Incidence Rates of Neoplastic Lesions with Litter Incidence (Systemic Lesions Abridged)

Test Compound: 2-Hydroxy-4-methoxybenzophenone
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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
Scheduled Sacrifice					
Early Deaths					
Scheduled Deaths					
Scheduled sacrifice, terminal (GD 24, LD 28, PND 127 - 143)	41	40	40	40	30
Animals Examined Microscopically	35	37	33	32	28
Total number litters	22	20	20	20	15
ALIMENTARY SYSTEM					
LIVER	(35)	(2)	(1)	(32)	(0)
MESENTERY	(0)	(1)	(0)	(0)	(0)
PANCREAS	(2)	(0)	(0)	(1)	(0)
CARDIOVASCULAR SYSTEM					
No Tissues/Organs Examined					
ENDOCRINE SYSTEM					
ADRENAL GLANDS	(35)	(0)	(1)	(32)	(0)
PITUITARY GLAND	(35)	(0)	(0)	(32)	(0)
THYROID GLANDS	(35)	(0)	(0)	(32)	(28)
GENERAL BODY SYSTEM					
No Tissues/Organs Examined					
GENITAL SYSTEM					
CERVIX	(33)	(0)	(0)	(31)	(0)
CLITORAL GLANDS	(3)	(1)	(1)	(0)	(1)
OVARIES	(35)	(1)	(0)	(32)	(28)
UTERUS	(35)	(0)	(0)	(32)	(0)
VAGINA	(33)	(0)	(0)	(32)	(0)

Study Number: MOG002B
Test Type: MOG
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Species/Strain: Rat/Sprague-Dawley

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Test Compound: 2-Hydroxy-4-methoxybenzophenone
CAS Number: 131-57-7

Date Report Requested: 12/13/2019
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F1 Female: Fertility Female

	Treatment Groups (ppm)				
	0	3000	10000	30000	0.05 ppm EE
HEMATOLYMPHOID SYSTEM					
LYMPH NODE, MANDIBULAR	(0)	(0)	(0)	(1)	(0)
SPLEEN	(2)	(0)	(0)	(0)	(0)
INTEGUMENTARY SYSTEM					
No Tissues/Organs Examined					
MUSCULOSKELETAL SYSTEM					
No Tissues/Organs Examined					
NERVOUS SYSTEM					
No Tissues/Organs Examined					
RESPIRATORY SYSTEM					
No Tissues/Organs Examined					
SPECIAL SENSES SYSTEM					
No Tissues/Organs Examined					
URINARY SYSTEM					
KIDNEYS	(35)	(37)	(33)	(32)	(0)
URETERS	(1)	(0)	(0)	(1)	(0)
URINARY BLADDER	(0)	(0)	(0)	(1)	(0)
No Systemic Lesions					

Study Number: MOG002B
Test Type: MOG
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Species/Strain: Rat/Sprague-Dawley

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Tumor Summary Data for F1 Female Fertility Female	Treatment Groups (ppm)				
	0	3000	10000	30000	0.05 ppm EE
Total Animals with Primary Neoplasms	0	0	0	0	0
Total Primary Neoplasms	0	0	0	0	0
Total Animals with Benign Neoplasms	0	0	0	0	0
Total Benign Neoplasms	0	0	0	0	0
Total Animals with Malignant Neoplasms	0	0	0	0	0
Total Malignant Neoplasms	0	0	0	0	0
Total Animals with Metastatic Neoplasms	0	0	0	0	0
Total Metastatic Neoplasms	0	0	0	0	0
Total Animals with Malignant Neoplasms Uncertain Primary Site	0	0	0	0	0

Study Number: MOG002B
Test Type: MOG
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

PA05R: Incidence Rates of Neoplastic Lesions with Litter Incidence (Systemic Lesions Abridged)

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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
Scheduled Sacrifice					
Early Deaths					
Scheduled Deaths					
Scheduled sacrifice, terminal (PND 28)	91	110	101	88	87
Animals Examined Microscopically	6	5	6	6	4
Total number litters	3	4	6	6	4
ALIMENTARY SYSTEM					
LIVER	(0)	(1)	(0)	(0)	(0)
CARDIOVASCULAR SYSTEM					
No Tissues/Organs Examined					
ENDOCRINE SYSTEM					
No Tissues/Organs Examined					
GENERAL BODY SYSTEM					
No Tissues/Organs Examined					
GENITAL SYSTEM					
TESTES	(2)	(4)	(3)	(3)	(2)
HEMATOLYMPHOID SYSTEM					
No Tissues/Organs Examined					
INTEGUMENTARY SYSTEM					
No Tissues/Organs Examined					
MUSCULOSKELETAL SYSTEM					
DIAPHRAGM	(0)	(0)	(0)	(3)	(1)
LIMB	(3)	(0)	(0)	(0)	(0)

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F2 Male

Treatment Groups (ppm)

0

3000

10000

30000

0.05 ppm EE

NERVOUS SYSTEM

No Tissues/Organs Examined

RESPIRATORY SYSTEM

No Tissues/Organs Examined

SPECIAL SENSES SYSTEM

No Tissues/Organs Examined

URINARY SYSTEM

KIDNEYS

(3)

(0)

(3)

(0)

(1)

No Systemic Lesions

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Tumor Summary Data for F2 Male

	Treatment Groups (ppm)				
	0	3000	10000	30000	0.05 ppm EE
Total Animals with Primary Neoplasms	0	0	0	0	0
Total Primary Neoplasms	0	0	0	0	0
Total Animals with Benign Neoplasms	0	0	0	0	0
Total Benign Neoplasms	0	0	0	0	0
Total Animals with Malignant Neoplasms	0	0	0	0	0
Total Malignant Neoplasms	0	0	0	0	0
Total Animals with Metastatic Neoplasms	0	0	0	0	0
Total Metastatic Neoplasms	0	0	0	0	0
Total Animals with Malignant Neoplasms Uncertain Primary Site	0	0	0	0	0

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PA05R: Incidence Rates of Neoplastic Lesions with Litter Incidence (Systemic Lesions Abridged)

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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
Scheduled Sacrifice					
Early Deaths					
Scheduled Deaths					
Scheduled sacrifice, terminal (PND 28)	94	95	85	86	91
Animals Examined Microscopically	4	2		8	2
Total number litters	2	2		5	2
ALIMENTARY SYSTEM					
No Tissues/Organs Examined					
CARDIOVASCULAR SYSTEM					
No Tissues/Organs Examined					
ENDOCRINE SYSTEM					
No Tissues/Organs Examined					
GENERAL BODY SYSTEM					
No Tissues/Organs Examined					
GENITAL SYSTEM					
No Tissues/Organs Examined					
HEMATOLYMPHOID SYSTEM					
No Tissues/Organs Examined					
INTEGUMENTARY SYSTEM					
No Tissues/Organs Examined					
MUSCULOSKELETAL SYSTEM					
LIMB	(3)	(0)	(0)	(0)	(1)
NERVOUS SYSTEM					
No Tissues/Organs Examined					

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Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

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F2 Female

Treatment Groups (ppm)

	0	3000	10000	30000	0.05 ppm EE
RESPIRATORY SYSTEM					
No Tissues/Organs Examined					
SPECIAL SENSES SYSTEM					
EYES	(0)	(1)	(0)	(0)	(0)
URINARY SYSTEM					
KIDNEYS	(1)	(1)	(0)	(7)	(1)
NEPHROBLASTOMA					1 (100%) [1]
URINARY BLADDER	(0)	(0)	(0)	(2)	(0)
No Systemic Lesions					

Study Number: MOG002B
Test Type: MOG
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

PA05R: Incidence Rates of Neoplastic Lesions with Litter Incidence (Systemic Lesions Abridged)

Test Compound: 2-Hydroxy-4-methoxybenzophenone
CAS Number: 131-57-7

Date Report Requested: 12/13/2019
Time Report Requested: 13:28:49
Lab: RTI

Tumor Summary Data for F2 Female	Treatment Groups (ppm)				
	0	3000	10000	30000	0.05 ppm EE
Total Animals with Primary Neoplasms	0	0	0	0	0
Total Primary Neoplasms	0	0	0	0	0
Total Animals with Benign Neoplasms	0	0	0	0	0
Total Benign Neoplasms	0	0	0	0	0
Total Animals with Malignant Neoplasms	0	0	0	0	1
Total Malignant Neoplasms	0	0	0	0	1
Total Animals with Metastatic Neoplasms	0	0	0	0	0
Total Metastatic Neoplasms	0	0	0	0	0
Total Animals with Malignant Neoplasms Uncertain Primary Site	0	0	0	0	0

Study Number: MOG002B
Test Type: MOG
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

PA05R: Incidence Rates of Neoplastic Lesions with Litter Incidence (Systemic Lesions Abridged)

Test Compound: 2-Hydroxy-4-methoxybenzophenone
CAS Number: 131-57-7

Date Report Requested: 12/13/2019
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Lab: RTI

LEGEND

Number of animals examined given for each tissue. If none of the animals examined have the specific lesion then there is a blank for that dose group for that specific lesion.

Number of animals with observation reported with percent incidence in parentheses

Systemic lesions are included once in the total lesion count regardless of how many times they occurred in a single animal

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.

Phase day range of terminal sacrifice shown in parentheses in disposition summary

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

EE = Ethinyl estradiol

**** END OF REPORT ****