Study Number: MOG08002B 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) (a) Test Compound: Bisphenol AF CAS Number: 1478-61-1 Date Report Requested: 08/27/2019 Time Report Requested: 12:24:28 Lab: RTI

MOG08002B

Both

See web page for date of PWG Approval

Study Number: MOG08002BPA05R: Incidence RateTest Type: MOGRoute: Dosing in FeedSpecies/Strain: Rat/Sprague-DawleyState	es of Neoplastic Lesions with Abridged) (a) Test Compound: Bisph CAS Number: 1478-1			equested: 08/27/2019 Requested: 12:24:28
	F0 Female			
		Treatment Groups (pp	om)	
	0	338	1125	3750
Disposition Summary Animals Initially In Study Scheduled Sacrifice Early Deaths Scheduled Deaths	35	35	35	35
Scheduled sacrifice, terminal (GD 18 - 24, LD 0 - 28, SD 24 - 27)	35	35	35	35
Animals Examined Microscopically	3	2		2
ALIMENTARY SYSTEM LIVER	(2)	(2)	(0)	(0)
CARDIOVASCULAR SYSTEM No Tissues/Organs Examined	(2)	(2)	(0)	
ENDOCRINE SYSTEM No Tissues/Organs Examined				
GENERAL BODY SYSTEM No Tissues/Organs Examined				
GENITAL SYSTEM OVARY UTERUS	(3) (0)	(0) (0)	(0) (0)	(0) (2)
HEMATOLYMPHOID SYSTEM No Tissues/Organs Examined				
INTEGUMENTARY SYSTEM No Tissues/Organs Examined				
MUSCULOSKELETAL SYSTEM No Tissues/Organs Examined				
NERVOUS SYSTEM No Tissues/Organs Examined				

Study Number: MOG08002B Test Type: MOG Route: Dosing in Feed Species/Strain: Rat/Sprague-Dawley	PA05R: Incidence Rates of	Abridged) (a)		=	quested: 08/27/2019 equested: 12:24:28
		F0 Female			
			Treatment Groups (p	om)	
		0	338	1125	3750
RESPIRATORY SYSTEM No Tissues/Organs Examined					
SPECIAL SENSES SYSTEM No Tissues/Organs Examined					
URINARY SYSTEM No Tissues/Organs Examined					
No Systemic Lesions					

Study Number: MOG08002B		Date Report Requested: 08/27/2019
Test Type: MOG	Abridged) (a)	Time Report Requested: 12:24:28
Route: Dosing in Feed	Test Compound: Bisphenol AF CAS Number: 1478-61-1	Lab: RTI
Species/Strain: Rat/Sprague-Dawley		

Tumor Summary Data for F0 Female	Treatment Groups (ppm)			
	0	338	1125	3750
Total Animals with Primary Neoplasms	0	0	0	0
Total Primary Neoplasms	0	0	0	0
Total Animals with Benign Neoplasms	0	0	0	0
Total Benign Neoplasms	0	0	0	0
Total Animals with Malignant Neoplasms	0	0	0	0
Total Malignant Neoplasms	0	0	0	0
Total Animals with Metastatic Neoplasms	0	0	0	0
Total Metastatic Neoplasms	0	0	0	0
Total Animals with Malignant Neoplasms Uncertain Primary Site	0	0	0	0

-	PA05R: Incidence Rates of Neoplastic Lesions with L Abridged) (a)	05R: Incidence Rates of Neoplastic Lesions with Litter Incidence (Systemic Lesions Abridged) (a)			
Test Type: MOG	Test Osmasanda Di Ala			Time Report Requested: 12:24:28 Lab: RTI	
Route: Dosing in Feed Species/Strain: Rat/Sprague-Dawley		<b>CAS Number:</b> 1478-61-1			
	F1 Male: Subchronic Male				
		Treatment Groups (p	om)		
	0	338	1125	3750	
Disposition Summary					
Animals Initially In Study	10	10	10	10	
Scheduled Sacrifice					
Early Deaths					
Scheduled Deaths					
Scheduled sacrifice, terminal (PND 115 - 119	9) 10	10	10	10	
Animals Examined Microscopically	10	10	10	10	
Total number litters	10	10	10	10	
ALIMENTARY SYSTEM					
ESOPHAGUS	(10)	(0)	(0)	(10)	
INTESTINE, CECUM	(10)	(0)	(0)	(10)	
INTESTINE, COLON	(10)	(0)	(0)	(10)	
INTESTINE, DUODENUM	(10)	(0)	(0)	(10)	
INTESTINE, ILEUM	(10)	(0)	(0)	(10)	
INTESTINE, JEJUNUM	(10)	(0)	(0)	(10)	
INTESTINE, RECTUM	(10)	(0)	(0)	(10)	
LIVER	(10)	(0)	(2)	(10)	
PANCREAS	(10)	(0)	(0)	(10)	
SALIVARY GLAND	(10)	(0)	(0)	(10)	
STOMACH	(10)	(0)	(0)	(10)	
CARDIOVASCULAR SYSTEM					
AORTA	(10)	(0)	(0)	(10)	
HEART	(10)	(0)	(0)	(10)	

Study Number: MOG08002B Test Type: MOG Route: Dosing in Feed Species/Strain: Rat/Sprague-Dawley	PA05R: Incidence Rates of Neoplastic Lesions with I Abridged) (a) Test Compound: Bisphe CAS Number: 1478-6	nol AF		equested: 08/27/2019 Requested: 12:24:28
	F1 Male: Subchronic Male	)		
		Treatment G	roups (ppm)	
	0	338	1125	3750
ENDOCRINE SYSTEM				
ADRENAL GLAND	(10)	(0)	(0)	(10)
PARATHYROID GLAND	(10)	(0)	(0)	(10)
PITUITARY GLAND	(10)	(0)	(0)	(10)
THYROID GLAND	(10)	(0)	(0)	(10)
GENERAL BODY SYSTEM				
No Tissues/Organs Examined				
GENITAL SYSTEM				
COAGULATING GLAND	(10)	(10)	(10)	(9)
EPIDIDYMIS	(10)	(10)	(10)	(10)
PENIS	(2)	(0)	(0)	(1)
PREPUTIAL GLAND	(10)	(10)	(10)	(10)
PROSTATE GLAND	(10)	(10)	(10)	(10)
SEMINAL VESICLE	(10)	(10)	(10)	(10)
TESTIS	(10)	(10)	(10)	(10)
HEMATOLYMPHOID SYSTEM				
BONE MARROW, FEMUR	(10)	(0)	(0)	(10)
LYMPH NODE, MANDIBULAR	(10)	(0)	(0)	(10)
LYMPH NODE, MESENTERIC	(10)	(0)	(0)	(10)
SPLEEN	(10)	(0)	(0)	(10)
THYMUS	(9)	(0)	(0)	(10)
INTEGUMENTARY SYSTEM				
MAMMARY GLAND	(9)	(0)	(0)	(9)
SKIN	(10)	(0)	(0)	(10)
MUSCULOSKELETAL SYSTEM				
BONE, FEMUR	(10)	(0)	(0)	(10)
NASAL TURBINATES	(10)	(0)	(0)	(9)

Study Number: MOG08002B Test Type: MOG Route: Dosing in Feed Species/Strain: Rat/Sprague-Dawley	Abridged) (a) Test Compound: Bisphe	Abridged) (a)		<b>bate Report Requested:</b> 08/27/2019 <b>Time Report Requested:</b> 12:24:28 <b>Lab:</b> RTI	
	F1 Male: Subchronic Male	9			
		Treatment G	Groups (ppm)		
	0	338	1125	3750	
NERVOUS SYSTEM BRAIN	(10)	(0)	(0)	(10)	
RESPIRATORY SYSTEM LUNGS WITH BRONCHI	(10)	(0)	(0)	(10)	
TRACHEA	(10)	(0)	(0)	(10)	
SPECIAL SENSES SYSTEM					
EYE	(10)	(0)	(0)	(10)	
HARDERIAN GLAND	(10)	(0)	(0)	(10)	
ZYMBALS GLAND	(7)	(0)	(0)	(10)	
URINARY SYSTEM					
KIDNEY	(10)	(0)	(0)	(10)	
URINARY BLADDER	(10)	(0)	(0)	(10)	
No Systemic Lesions					

Study Number: MOG08002B		Date Report Requested: 08/27/2019
Test Type: MOG	Abridged) (a)	Time Report Requested: 12:24:28
Route: Dosing in Feed	Test Compound: Bisphenol AF CAS Number: 1478-61-1	Lab: RTI
Species/Strain: Rat/Sprague-Dawley		

Tumor Summary Data for F1 Male Subchronic Male	Treatment Groups (ppm)			
	0	338	1125	3750
Total Animals with Primary Neoplasms	0	0	0	0
Total Primary Neoplasms	0	0	0	0
Total Animals with Benign Neoplasms	0	0	0	0
Total Benign Neoplasms	0	0	0	0
Total Animals with Malignant Neoplasms	0	0	0	0
Total Malignant Neoplasms	0	0	0	0
Total Animals with Metastatic Neoplasms	0	0	0	0
Total Metastatic Neoplasms	0	0	0	0
Total Animals with Malignant Neoplasms Uncertain Primary Site	0	0	0	0

Study Number: MOG08002B Test Type: MOG Route: Dosing in Feed Species/Strain: Rat/Sprague-Dawley	PA05R: Incidence Rates of Neoplastic Lesions with Abridged) (a) Test Compound: Bisphe CAS Number: 1478-6	nol AF	-	equested: 08/27/2019 Requested: 12:24:28
	F1 Female: Subchronic Fema	ales		
		Treatment Groups (p	pm)	
	0	338	1125	3750
Disposition Summary				
Animals Initially In Study	10	10	10	10
Scheduled Sacrifice				
Early Deaths				
Scheduled Deaths				
Scheduled sacrifice, terminal (PND 116 - 12	0) 10	10	10	10
Animals Examined Microscopically	10	10	10	10
Total number litters	10	10	10	10
ALIMENTARY SYSTEM				
ESOPHAGUS	(10)	(0)	(0)	(10)
INTESTINE, CECUM	(10)	(0)	(0)	(10)
INTESTINE, COLON	(10)	(0)	(0)	(10)
INTESTINE, DUODENUM	(10)	(0)	(0)	(10)
INTESTINE, ILEUM	(10)	(0)	(0)	(10)
INTESTINE, JEJUNUM	(10)	(0)	(0)	(10)
INTESTINE, RECTUM	(10)	(0)	(0)	(10)
LIVER	(10)	(1)	(0)	(10)
PANCREAS	(10)	(0)	(0)	(10)
SALIVARY GLAND	(10)	(0)	(0)	(10)
STOMACH	(10)	(0)	(0)	(10)
CARDIOVASCULAR SYSTEM				
AORTA	(10)	(0)	(0)	(10)
HEART	(10)	(0)	(0)	(10)

Study Number: MOG08002B Test Type: MOG Route: Dosing in Feed Species/Strain: Rat/Sprague-Dawley	PA05R: Incidence Rates of Neoplastic Lesions with Abridged) (a) Test Compound: Bisphe CAS Number: 1478-6	enol AF		equested: 08/27/2019 equested: 12:24:28
	F1 Female: Subchronic Fem	ales		
		Treatment G	iroups (ppm)	
	0	338	1125	3750
ENDOCRINE SYSTEM				
ADRENAL GLAND	(10)	(0)	(0)	(10)
PARATHYROID GLAND	(7)	(0)	(0)	(8)
PITUITARY GLAND	(10)	(0)	(0)	(10)
THYROID GLAND	(10)	(0)	(0)	(10)
GENERAL BODY SYSTEM				
No Tissues/Organs Examined				
GENITAL SYSTEM				
CERVIX	(10)	(10)	(10)	(10)
CLITORAL GLAND	(10)	(1)	(0)	(10)
OVARY	(10)	(10)	(10)	(10)
UTERUS	(10)	(10)	(10)	(10)
VAGINA	(10)	(10)	(10)	(10)
HEMATOLYMPHOID SYSTEM				
BONE MARROW, FEMUR	(10)	(0)	(0)	(10)
LYMPH NODE, MANDIBULAR	(10)	(0)	(0)	(10)
LYMPH NODE, MESENTERIC	(9)	(0)	(0)	(10)
SPLEEN	(10)	(0)	(0)	(10)
THYMUS	(10)	(0)	(0)	(10)
INTEGUMENTARY SYSTEM				
MAMMARY GLAND	(10)	(0)	(0)	(10)
SKIN	(10)	(0)	(0)	(10)
MUSCULOSKELETAL SYSTEM				
BONE, FEMUR	(10)	(0)	(0)	(10)
NASAL TURBINATES	(10)	(0)	(0)	(10)
NERVOUS SYSTEM				
BRAIN	(10)	(0)	(0)	(10)

Study Number: MOG08002B Test Type: MOG Route: Dosing in Feed Species/Strain: Rat/Sprague-Dawley	Abridged) (a) Test Compound: Bisph			equested: 08/27/2019 Requested: 12:24:28
	F1 Female: Subchronic Fen	nales		
		Treatment G	Groups (ppm)	
	0	338	1125	3750
RESPIRATORY SYSTEM				
LUNGS WITH BRONCHI	(10)	(0)	(0)	(10)
TRACHEA	(10)	(0)	(0)	(10)
SPECIAL SENSES SYSTEM				
EYE	(10)	(0)	(0)	(10)
HARDERIAN GLAND	(10)	(0)	(0)	(10)
ZYMBALS GLAND	(10)	(0)	(0)	(10)
URINARY SYSTEM				
KIDNEY	(10)	(0)	(0)	(10)
URINARY BLADDER	(10)	(0)	(0)	(9)
No Systemic Lesions				

Study Number: MOG08002B		Date Report Requested: 08/27/2019
Test Type: MOG	Abridged) (a) Test Compound: Bisphenol AF	Time Report Requested: 12:24:28
Route: Dosing in Feed Species/Strain: Rat/Spraque-Dawley	CAS Number: 1478-61-1	Lab: RTI

Tumor Summary Data for F1 Female Subchronic Females	Treatment Groups (ppm)			
	0	338	1125	3750
Total Animals with Primary Neoplasms	0	0	0	0
Total Primary Neoplasms	0	0	0	0
Total Animals with Benign Neoplasms	0	0	0	0
Total Benign Neoplasms	0	0	0	0
Total Animals with Malignant Neoplasms	0	0	0	0
Total Malignant Neoplasms	0	0	0	0
Total Animals with Metastatic Neoplasms	0	0	0	0
Total Metastatic Neoplasms	0	0	0	0
Total Animals with Malignant Neoplasms Uncertain Primary Site	0	0	0	0

Study Number: MOG08002BPA05R: IncidTest Type: MOGRoute: Dosing in FeedSpecies/Strain: Rat/Sprague-DawleyState State Sta	cidence Rates of Neoplastic Lesions with Litter Incidence (Systemic Lesions Abridged) (a) Test Compound: Bisphenol AF CAS Number: 1478-61-1			Time Report Requested: 12:24:28	
	F1 Male: Prenatal Males				
		Treatment G	iroups (ppm)		
	0	338	1125	3750	
Disposition Summary Animals Initially In Study Scheduled Sacrifice Early Deaths Scheduled Deaths	22	21	22	20	
Scheduled sacrifice, terminal (PND 119 - 121)	22	21	22	20	
Animals Examined Microscopically	7	3	2	20	
Total number litters	7	3	2	20	
ALIMENTARY SYSTEM INTESTINE, COLON	(2)	(1)	(0)	(0)	
CARDIOVASCULAR SYSTEM No Tissues/Organs Examined					
ENDOCRINE SYSTEM No Tissues/Organs Examined					
GENERAL BODY SYSTEM No Tissues/Organs Examined					
GENITAL SYSTEM COWPERS GLAND	(2)	(0)	(1)	(16)	
	(3)	(0)	(0)	(1)	
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	(2)	(0)	(1)	(18)	
PREPUTIAL GLAND PROSTATE GLAND	(7) (2)	(2) (0)	(0) (0)	(1) (19)	
SEMINAL VESICLE	(2)	(0) (1)	(0) (1)	(19)	
TESTIS	(2)	(1)	(1)	(13)	
HEMATOLYMPHOID SYSTEM No Tissues/Organs Examined					

Study Number: MOG08002B Test Type: MOG Route: Dosing in Feed Species/Strain: Rat/Sprague-Dawley	PA05R: Incidence Rates	tes of Neoplastic Lesions with Litter Incidence (Systemic Lesions Abridged) (a) Test Compound: Bisphenol AF CAS Number: 1478-61-1			equested: 08/27/2019 equested: 12:24:28
		F1 Male: Prenatal Males			
			Treatment Groups (pp	om)	
		0	338	1125	3750
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					
No Tissues/Organs Examined					
No Systemic Lesions					

Study Number: MOG08002B	PA05R: Incidence Rates of Neoplastic Lesions with Litter Incidence (Systemic Lesions	Date Report Requested: 08/27/2019
Test Type: MOG Route: Dosing in Feed	Abridged) (a) Test Compound: Bisphenol AF	Time Report Requested: 12:24:28 Lab: RTI
Species/Strain: Rat/Sprague-Dawley	CAS Number: 1478-61-1	

Tumor Summary Data for F1 Male Prenatal Males	Treatment Groups (ppm)			
	0	338	1125	3750
Total Animals with Primary Neoplasms	0	0	0	0
Total Primary Neoplasms	0	0	0	0
Total Animals with Benign Neoplasms	0	0	0	0
Total Benign Neoplasms	0	0	0	0
Total Animals with Malignant Neoplasms	0	0	0	0
Total Malignant Neoplasms	0	0	0	0
Total Animals with Metastatic Neoplasms	0	0	0	0
Total Metastatic Neoplasms	0	0	0	0
Total Animals with Malignant Neoplasms Uncertain Primary Site	0	0	0	0

Study Number: MOG08002BPATest Type: MOGRoute: Dosing in FeedSpecies/Strain: Rat/Sprague-Dawley	A05R: Incidence Rates of Neoplastic Lesions Abridged Test Compound: CAS Number:	) (a) Bisphenol AF	-	equested: 08/27/2019 Requested: 12:24:28
	F1 Female: Prenatal	Females		
		Treatment C	Groups (ppm)	
	0	338	1125	3750
Disposition Summary				
Animals Initially In Study	22	21	22	20
Scheduled Sacrifice				
Early Deaths				
Euthanized, moribund	1			
Unscheduled Sacrifice				1
Scheduled Deaths Scheduled sacrifice, terminal (GD 21, LD 0, PM	ND 125 - 129) 21	21	22	19
Animals Examined Microscopically	3	21	1	19
	-		-	19
Total number litters	3		1	19
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				
CERVIX	(0)	(0)	(1)	(19)
OVARY	(2)	(0)	(1)	(19)
UTERUS	(0)	(0)	(1)	(19)
VAGINA	(0)	(0)	(1)	(19)
HEMATOLYMPHOID SYSTEM				
No Tissues/Organs Examined				

Study Number: MOG08002B Test Type: MOG Route: Dosing in Feed Species/Strain: Rat/Sprague-Dawley	PA05R: Incidence Rates of	Incidence Rates of Neoplastic Lesions with Litter Incidence (Systemic Lesions Abridged) (a) Test Compound: Bisphenol AF CAS Number: 1478-61-1		=	equested: 08/27/2019 Requested: 12:24:28
	F	1 Female: Prenatal Fema	les		
			Treatment Groups (p	om)	
		0	338	1125	3750
INTEGUMENTARY SYSTEM No Tissues/Organs Examined					
MUSCULOSKELETAL SYSTEM No Tissues/Organs Examined					
NERVOUS SYSTEM BRAIN		(1)	(0)	(0)	(0)
RESPIRATORY SYSTEM No Tissues/Organs Examined					
SPECIAL SENSES SYSTEM No Tissues/Organs Examined					
URINARY SYSTEM No Tissues/Organs Examined					
No Systemic Lesions					

Study Number: MOG08002B		Date Report Requested: 08/27/2019
Test Type: MOG	Abridged) (a)	Time Report Requested: 12:24:28
Route: Dosing in Feed	Test Compound: Bisphenol AF CAS Number: 1478-61-1	Lab: RTI
Species/Strain: Rat/Sprague-Dawley		

Tumor Summary Data for F1 Female Prenatal Females	Treatment Groups (ppm)				
	0	338	1125	3750	
Total Animals with Primary Neoplasms	0	0	0	0	
Total Primary Neoplasms	0	0	0	0	
Total Animals with Benign Neoplasms	0	0	0	0	
Total Benign Neoplasms	0	0	0	0	
Total Animals with Malignant Neoplasms	0	0	0	0	
Total Malignant Neoplasms	0	0	0	0	
Total Animals with Metastatic Neoplasms	0	0	0	0	
Total Metastatic Neoplasms	0	0	0	0	
Total Animals with Malignant Neoplasms Uncertain Primary Site	0	0	0	0	

Study Number: MOG08002B Test Type: MOG Route: Dosing in Feed Species/Strain: Rat/Sprague-Dawley	Abridged) (a) Test Compound: Bisp	Abridged) (a)		s Date Report Requested: 08/27/2019 Time Report Requested: 12:24:28 Lab: RTI	
	F1 Male: Fertility Male	S			
		Treatment C	Groups (ppm)		
	0	338	1125	3750	
Disposition Summary					
Animals Initially In Study	22	24	21	20	
Scheduled Sacrifice					
Early Deaths					
Found Dead		1			
Scheduled Deaths		22	24	20	
Scheduled sacrifice, terminal (PND 152 - 154 Animals Examined Microscopically	22 22	23 24	21 21	20 20	
Total number litters	22	24	21	20	
ALIMENTARY SYSTEM					
LIVER	(2)	(1)	(1)	(0)	
CARDIOVASCULAR SYSTEM					
No Tissues/Organs Examined					
ENDOCRINE SYSTEM					
PITUITARY GLAND	(22)	(0)	(0)	(20)	
GENERAL BODY SYSTEM					
No Tissues/Organs Examined					

Study Number: MOG08002BPA05R: IncTest Type: MOGRoute: Dosing in FeedSpecies/Strain: Rat/Sprague-Dawley	Abridged) (a Test Compound: Bis	nce Rates of Neoplastic Lesions with Litter Incidence (Systemic Lesions Abridged) (a) Test Compound: Bisphenol AF CAS Number: 1478-61-1			
	F1 Male: Fertility Males				
		Treatment Groups	(ppm)		
	0	338	1125	3750	
GENITAL SYSTEM					
COAGULATING GLAND	(22)	(24)	(21)	(20)	
COWPERS GLAND	(22)	(24)	(21)	(20)	
EPIDIDYMIS	(22)	(24)	(21)	(20)	
LEVATOR ANI PLUS BULBOCAVERNOSUS MUSCLE	(22)	(24)	(21)	(20)	
PENIS	(1)	(0)	(0)	(0)	
PENIS, GLANS	(0)	(0)	(0)	(1)	
PREPUTIAL GLAND	(22)	(24)	(21)	(20)	
PROSTATE GLAND	(22)	(24)	(21)	(20)	
SEMINAL VESICLE	(22)	(24)	(21)	(20)	
TESTIS	(22)	(24)	(21)	(20)	
HEMATOLYMPHOID SYSTEM					
SPLEEN	(0)	(1)	(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					
No Tissues/Organs Examined					

Study Number: MOG08002B Test Type: MOG Route: Dosing in Feed Species/Strain: Rat/Sprague-Dawley	PA05R: Incidence Rates of	Abridged) (a)		-	equested: 08/27/2019 Requested: 12:24:28
		F1 Male: Fertility Male	S		
		Treatment Groups (ppm)			
		0	338	1125	3750
SYSTEMIC LESIONS					
Multiple Organ(a)		(0)	(1)	(0)	(0)
LEUKEMIA			1 (100%) [1]		

Study Number: MOG08002B		Date Report Requested: 08/27/2019
Test Type: MOG	Abridged) (a) Test Compound: Bisphenol AF	Time Report Requested: 12:24:28
Route: Dosing in Feed Species/Strain: Rat/Spraque-Dawley	CAS Number: 1478-61-1	Lab: RTI

Tumor Summary Data for F1 Male Fertility Males	Treatment Groups (ppm)			
	0	338	1125	3750
Total Animals with Primary Neoplasms	0	0	0	0
Total Primary Neoplasms	0	0	0	0
Total Animals with Benign Neoplasms	0	0	0	0
Total Benign Neoplasms	0	0	0	0
Total Animals with Malignant Neoplasms	0	1	0	0
Total Malignant Neoplasms	0	2	0	0
Total Animals with Metastatic Neoplasms	0	0	0	0
Total Metastatic Neoplasms	0	0	0	0
Total Animals with Malignant Neoplasms Uncertain Primary Site	0	0	0	0

Study Number: MOG08002B       PA05R: Incidence F         Test Type: MOG       F         Route: Dosing in Feed       F         Species/Strain: Rat/Sprague-Dawley       F	ates of Neoplastic Lesions with Litter Incidence (Systemic Lesions Abridged) (a) Test Compound: Bisphenol AF CAS Number: 1478-61-1			Time Report Requested: 12:24:28		
	F1 Female: Fertility Fema	les				
	Treatment Groups (ppm)					
	0	0 338 1125 3				
Disposition Summary						
Animals Initially In Study	22	24	21	20		
Scheduled Sacrifice						
Early Deaths						
Unscheduled Sacrifice				1		
Scheduled Deaths	400) 00	04	04	40		
Scheduled sacrifice, terminal (GD 46 - 50, LD 26 - 28, PND 158 - Animals Examined Microscopically	162) 22 22	24 24	21 21	19 20		
				-		
Total number litters	22	24	21	20		
ALIMENTARY SYSTEM						
No Tissues/Organs Examined						
CARDIOVASCULAR SYSTEM						
No Tissues/Organs Examined						
ENDOCRINE SYSTEM						
PITUITARY GLAND	(22)	(0)	(0)	(19)		
GENERAL BODY SYSTEM						
No Tissues/Organs Examined						
GENITAL SYSTEM						
CERVIX	(22)	(24)	(21)	(20)		
OVARY	(22)	(24)	(21)	(20)		
OVIDUCT	(1)	(0)	(0)	(1)		
UTERUS	(22)	(24)	(21)	(20)		
VAGINA	(22)	(24)	(21)	(20)		
HEMATOLYMPHOID SYSTEM						
No Tissues/Organs Examined						

Study Number: MOG08002B Test Type: MOG Route: Dosing in Feed Species/Strain: Rat/Sprague-Dawley	PA05R: Incidence Rates of	ates of Neoplastic Lesions with Litter Incidence (Systemic Lesions Abridged) (a) Test Compound: Bisphenol AF CAS Number: 1478-61-1		=	equested: 08/27/2019 Requested: 12:24:28
		F1 Female: Fertility Femal	es		
			Treatment Groups (p	pm)	
		0	338	1125	3750
INTEGUMENTARY SYSTEM No Tissues/Organs Examined					
MUSCULOSKELETAL SYSTEM No Tissues/Organs Examined					
NERVOUS SYSTEM BRAIN		(3)	(0)	(0)	(0)
RESPIRATORY SYSTEM No Tissues/Organs Examined					
SPECIAL SENSES SYSTEM No Tissues/Organs Examined					
URINARY SYSTEM No Tissues/Organs Examined					
No Systemic Lesions					

Study Number: MOG08002B	PA05R: Incidence Rates of Neoplastic Lesions with Litter Incidence (Systemic Lesions	Date Report Requested: 08/27/2019
Test Type: MOG	Abridged) (a)	Time Report Requested: 12:24:28
Route: Dosing in Feed	Test Compound: Bisphenol AF CAS Number: 1478-61-1	Lab: RTI
Species/Strain: Rat/Sprague-Dawley		

Tumor Summary Data for F1 Female Fertility Females	Treatment Groups (ppm)				
	0	338	1125	3750	
Total Animals with Primary Neoplasms	0	0	0	0	
Total Primary Neoplasms	0	0	0	0	
Total Animals with Benign Neoplasms	0	0	0	0	
Total Benign Neoplasms	0	0	0	0	
Total Animals with Malignant Neoplasms	0	0	0	0	
Total Malignant Neoplasms	0	0	0	0	
Total Animals with Metastatic Neoplasms	0	0	0	0	
Total Metastatic Neoplasms	0	0	0	0	
Total Animals with Malignant Neoplasms Uncertain Primary Site	0	0	0	0	

Study Number: MOG08002B Test Type: MOG Route: Dosing in Feed Species/Strain: Rat/Sprague-Dawley	PA05R: Incidence Rates of Neoplastic Lesions with Litter Incidence (Systemic Lesion Abridged) (a) Test Compound: Bisphenol AF CAS Number: 1478-61-1			Time Report Requested: 12:24:28	
	F1 Male: F1 Extra Males				
	Treatment Groups (ppm)				
	0	0 338		3750	
Disposition Summary Animals Initially In Study Scheduled Sacrifice Early Deaths Scheduled Deaths	21	46	46	40	
Scheduled Deams Scheduled sacrifice, terminal (PND 28) Animals Examined Microscopically	21 3	46	46 8	40 20	
Total number litters	2		5	9	
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 EPIDIDYMIS TESTIS	(2) (2)	(0) (0)	(8) (8)	(18) (20)	
HEMATOLYMPHOID SYSTEM No Tissues/Organs Examined INTEGUMENTARY SYSTEM No Tissues/Organs Examined					
MUSCULOSKELETAL SYSTEM No Tissues/Organs Examined					

Study Number: MOG08002B Test Type: MOG Route: Dosing in Feed Species/Strain: Rat/Sprague-Dawley	PA05R: Incidence Rates of	Neoplastic Lesions with Abridged) (a) Test Compound: Bisphe CAS Number: 1478-6		-	equested: 08/27/2019 Requested: 12:24:28
		F1 Male: F1 Extra Males			
			Treatment Groups (p	pm)	
		0	338	1125	3750
NERVOUS SYSTEM No Tissues/Organs Examined					
RESPIRATORY SYSTEM <u>No Tissues/Organs Examined</u>					
SPECIAL SENSES SYSTEM No Tissues/Organs Examined					
URINARY SYSTEM KIDNEY		(2)	(0)	(0)	(0)
No Systemic Lesions					

Study Number: MOG08002B	PA05R: Incidence Rates of Neoplastic Lesions with Litter Incidence (Systemic Lesions	Date Report Requested: 08/27/2019
Test Type: MOG	Abridged) (a)	Time Report Requested: 12:24:28
Route: Dosing in Feed	Test Compound: Bisphenol AF CAS Number: 1478-61-1	Lab: RTI
Species/Strain: Rat/Sprague-Dawley		

Tumor Summary Data for F1 Male F1 Extra Males	Treatment Groups (ppm)				
	0	338	1125	3750	
Total Animals with Primary Neoplasms	0	0	0	0	
Total Primary Neoplasms	0	0	0	0	
Total Animals with Benign Neoplasms	0	0	0	0	
Total Benign Neoplasms	0	0	0	0	
Total Animals with Malignant Neoplasms	0	0	0	0	
Total Malignant Neoplasms	0	0	0	0	
Total Animals with Metastatic Neoplasms	0	0	0	0	
Total Metastatic Neoplasms	0	0	0	0	
Total Animals with Malignant Neoplasms Uncertain Primary Site	0	0	0	0	

Study Number: MOG08002B Test Type: MOG Route: Dosing in Feed Species/Strain: Rat/Sprague-Dawley	PA05R: Incidence Rates of Neoplastic Lesions with Litter Incidence (Systemic Lesions Abridged) (a) Test Compound: Bisphenol AF CAS Number: 1478-61-1				s Date Report Requested: 08/27/2019 Time Report Requested: 12:24:28 Lab: RTI		
		F1 Female: F1 Extra Fema	lles				
		Treatment Groups (ppm)					
		0	338	1125	3750		
Disposition Summary Animals Initially In Study Scheduled Sacrifice Early Deaths Scheduled Deaths		45	29	48	17		
Scheduled sacrifice, terminal (PND 28) Animals Examined Microscopically		45 1	29	48	17		
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 No Tissues/Organs Examined							
HEMATOLYMPHOID SYSTEM No Tissues/Organs Examined							
INTEGUMENTARY SYSTEM No Tissues/Organs Examined							
MUSCULOSKELETAL SYSTEM No Tissues/Organs Examined							
NERVOUS SYSTEM No Tissues/Organs Examined							

Study Number: MOG08002B Test Type: MOG Route: Dosing in Feed Species/Strain: Rat/Sprague-Dawley	PA05R: Incidence Rates c	Abridged) (a)		Tin	Date Report Requested: 08/27/2019 Time Report Requested: 12:24:28 Lab: RTI	
		F1 Female: F1 Extra Fema	les			
			Treatment Gro	ups (ppm)		
		0	338	112	5 37	750
RESPIRATORY SYSTEM No Tissues/Organs Examined						
SPECIAL SENSES SYSTEM No Tissues/Organs Examined						
URINARY SYSTEM KIDNEY		(1)	(0)	(0)	)(	(0)
No Systemic Lesions						

Study Number: MOG08002B		Date Report Requested: 08/27/2019
Test Type: MOG	Abridged) (a)	Time Report Requested: 12:24:28
Route: Dosing in Feed	Test Compound: Bisphenol AF CAS Number: 1478-61-1	Lab: RTI
Species/Strain: Rat/Sprague-Dawley		

Fumor Summary Data for F1 Female F1 Extra Females	Treatment Groups (ppm)			
	0	338	1125	3750
Total Animals with Primary Neoplasms	0	0	0	0
Total Primary Neoplasms	0	0	0	0
Total Animals with Benign Neoplasms	0	0	0	0
Total Benign Neoplasms	0	0	0	0
Total Animals with Malignant Neoplasms	0	0	0	0
Total Malignant Neoplasms	0	0	0	0
Total Animals with Metastatic Neoplasms	0	0	0	0
Total Metastatic Neoplasms	0	0	0	0
Total Animals with Malignant Neoplasms Uncertain Primary Site	0	0	0	0

Study Number: MOG08002B Test Type: MOG Route: Dosing in Feed Species/Strain: Rat/Sprague-Dawley	PA05R: Incidence Rates of Neoplastic Lesions with Abridged) (a) Test Compound: Bisphe CAS Number: 1478-6	nol AF		equested: 08/27/2019 Requested: 12:24:28
	F1 Male: PND28 Bio&MGWM	Male		
		Treatment Group	os (ppm)	
	0	338	1125	3750
Disposition Summary Animals Initially In Study Scheduled Sacrifice Early Deaths Scheduled Deaths	12	12	12	12
Scheduled Deaths Scheduled sacrifice, terminal (PND 28) Animals Examined Microscopically	12	12	12 1	12 3
Total number litters			1	3
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 EPIDIDYMIS TESTIS	(0) (0)	(0) (0)	(0) (1)	(3) (3)
HEMATOLYMPHOID SYSTEM No Tissues/Organs Examined				
INTEGUMENTARY SYSTEM No Tissues/Organs Examined				
MUSCULOSKELETAL SYSTEM No Tissues/Organs Examined				

Study Number: MOG08002B Test Type: MOG Route: Dosing in Feed Species/Strain: Rat/Sprague-Dawley	PA05R: Incidence Rates of N	Abridged) (a)		<b>Date Report Requested:</b> 08/27/2019 <b>Time Report Requested:</b> 12:24:28 <b>Lab:</b> RTI	
	F1 Ma	ale: PND28 Bio&MGWM	Male		
			Treatment Groups (pp	om)	
		0 338 1			3750
NERVOUS SYSTEM No Tissues/Organs Examined					
RESPIRATORY SYSTEM No Tissues/Organs Examined					
SPECIAL SENSES SYSTEM No Tissues/Organs Examined					
URINARY SYSTEM No Tissues/Organs Examined					
No Systemic Lesions			· · · · · · · · · · · · · · · · · · ·		

Study Number: MOG08002B	PA05R: Incidence Rates of Neoplastic Lesions with Litter Incidence (Systemic Lesions	Date Report Requested: 08/27/2019
Test Type: MOG Route: Dosing in Feed Species/Strain: Rat/Sprague-Dawley	Abridged) (a) Test Compound: Bisphenol AF CAS Number: 1478-61-1	Time Report Requested: 12:24:28 Lab: RTI

Tumor Summary Data for F1 Male PND28 Bio&MGWM Male	Treatment Groups (ppm)			
	0	338	1125	3750
Total Animals with Primary Neoplasms	0	0	0	0
Total Primary Neoplasms	0	0	0	0
Total Animals with Benign Neoplasms	0	0	0	0
Total Benign Neoplasms	0	0	0	0
Total Animals with Malignant Neoplasms	0	0	0	0
Total Malignant Neoplasms	0	0	0	0
Total Animals with Metastatic Neoplasms	0	0	0	0
Total Metastatic Neoplasms	0	0	0	0
Total Animals with Malignant Neoplasms Uncertain Primary Site	0	0	0	0

Study Number: MOG08002B Test Type: MOG Route: Dosing in Feed Species/Strain: Rat/Sprague-Dawley	PA05R: Incidence Rates of Neoplastic Lesions with Litter Incidence (Systemic Lesions Abridged) (a) Test Compound: Bisphenol AF CAS Number: 1478-61-1		=	Time Report Requested: 12:24:28	
	F1 Female: Bio&MGWM @ V	0			
		Treatment G	iroups (ppm)		
	0	338	1125	3750	
Disposition Summary					
Animals Initially In Study	12	12	12	12	
Scheduled Sacrifice					
Early Deaths Unscheduled Sacrifice				4	
Scheduled Deaths				1	
Scheduled Seaths Scheduled sacrifice, terminal (PND 26 - 39)	12	12	12	11	
Animals Examined Microscopically	12	12	12	12	
Total number litters	12	11	9	12	
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					
CERVIX	(2)	(0)	(0)	(0)	
OVARY	(12)	(12)	(12)	(12)	
OVIDUCT	(0)	(0)	(0)	(1)	
UTERUS	(2)	(0)	(0)	(1)	
VAGINA	(2)	(0)	(0)	(1)	
HEMATOLYMPHOID SYSTEM					
No Tissues/Organs Examined					

Study Number: MOG08002B Test Type: MOG Route: Dosing in Feed Species/Strain: Rat/Sprague-Dawley	PA05R: Incidence Rates o	Abridged) (a)		<ul> <li>Date Report Requested: 08/27/2019</li> <li>Time Report Requested: 12:24:28</li> <li>Lab: RTI</li> </ul>	
	F	1 Female: Bio&MGWM @	VO		
		_	Treatment Groups (pp	om)	
		0	338	1125	3750
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 No Tissues/Organs Examined					
No Systemic Lesions					

Study Number: MOG08002B	PA05R: Incidence Rates of Neoplastic Lesions with Litter Incidence (Systemic Lesions	Date Report Requested: 08/27/2019
Test Type: MOG Route: Dosing in Feed Species/Strain: Rat/Sprague-Dawley	Abridged) (a) Test Compound: Bisphenol AF CAS Number: 1478-61-1	Time Report Requested: 12:24:28 Lab: RTI

Гитог Summary Data for F1 Female Bio&MGWM @ VO	Treatment Groups (ppm)			
	0	338	1125	3750
Total Animals with Primary Neoplasms	0	0	0	0
Total Primary Neoplasms	0	0	0	0
Total Animals with Benign Neoplasms	0	0	0	0
Total Benign Neoplasms	0	0	0	0
Total Animals with Malignant Neoplasms	0	0	0	0
Total Malignant Neoplasms	0	0	0	0
Total Animals with Metastatic Neoplasms	0	0	0	0
Total Metastatic Neoplasms	0	0	0	0
Total Animals with Malignant Neoplasms Uncertain Primary Site	0	0	0	0

Study Number: MOG08002B
Test Type: MOG
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

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

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

Number of litters shown in square brackets for F1 and F2 animals

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

\*\* END OF REPORT \*\*