Study Number: R88007B Test Type: RACB 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: Butyl Paraben CAS Number: 94-26-8 Date Report Requested: 11/20/2018 Time Report Requested: 07:22:53 Lab: RTI

R88007B

Both

See web page for date of PWG Approval

Study Number: R88007B Test Type: RACB Route: Dosing in Feed	Abridged) (a) Test Compound: Butyl Pa	PA05R: Incidence Rates of Neoplastic Lesions with Litter Incidence (Systemic Lesions Abridged) (a) Test Compound: Butyl Paraben CAS Number: 94-26-8				
Species/Strain: Rat/Sprague-Dawley	CAS Number: 94-26-					
	F0 Male					
		Treatment Groups (ppm)				
	0	5000	15000	40000		
Disposition Summary						
Animals Initially In Study	22	22	22	22		
Scheduled Sacrifice						
Early Deaths						
Euthanized, moribund	2	1	1			
Scheduled Deaths						
Scheduled sacrifice, terminal (SD 224 - 226	-	21	21	22		
Animals Examined Microscopically	22	22	22	22		
ALIMENTARY SYSTEM						
LIVER	(22)	(22)	(22)	(22)		
MESENTERY	(0)	(0)	(1)	(1)		
SALIVARY GLANDS	(1)	(0)	(0)	(0)		
CARDIOVASCULAR SYSTEM						
HEART	(1)	(0)	(0)	(0)		
ENDOCRINE SYSTEM						
ADRENAL CORTEX	(22)	(1)	(1)	(22)		
ADRENAL MEDULLA	(22)	(1)	(1)	(22)		
PITUITARY GLAND	(22)	(1)	(1)	(22)		
THYROID GLANDS	(22)	(1)	(1)	(22)		
GENERAL BODY SYSTEM						
No Tissues/Organs Examined						

Study Number: R88007B Test Type: RACB Route: Dosing in Feed Species/Strain: Rat/Sprague-Dawley	Abridged) (a) Test Compound: Butyl Paraben		-	Time Report Requested: 07:22:53	
	F0 Male				
		Treatment G	Groups (ppm)		
	0	5000	15000	40000	
GENITAL SYSTEM					
COAGULATING GLANDS	(22)	(1)	(1)	(22)	
DORSAL PROSTATE	(22)	(1)	(1)	(22)	
EPIDIDYMIDES	(22)	(1)	(1)	(22)	
PREPUTIAL GLANDS	(5)	(5)	(4)	(8)	
SEMINAL VESICLES	(22)	(1)	(1)	(22)	
TESTES	(22)	(1)	(1)	(22)	
VENTRAL PROSTATE	(22)	(1)	(1)	(22)	
HEMATOPOIETIC SYSTEM					
SPLEEN	(22)	(1)	(1)	(22)	
THYMUS	(22)	(2)	(1)	(21)	
NTEGUMENTARY SYSTEM					
SKIN	(1)	(0)	(0)	(1)	
NEURAL CREST TUMOR; MALIGNANT	1 (100%)	(0)	(0)	(1)	
	1 (10070)				
LYMPHOID SYSTEM					
No Tissues/Organs Examined					
MUSCULOSKELETAL SYSTEM					
DIAPHRAGM	(1)	(0)	(0)	(0)	
NERVOUS SYSTEM					
No Tissues/Organs Examined					
RESPIRATORY SYSTEM					
LUNGS	(1)	(0)	(0)	(0)	
		(*)			
SPECIAL SENSES SYSTEM					
EYES	(1)	(0)	(0)	(0)	

Study Number: R88007B Test Type: RACB Route: Dosing in Feed Species/Strain: Rat/Sprague-Dawley	PA05R: Incidence Rates of	Neoplastic Lesions with L Abridged) (a) Test Compound: Butyl Pa CAS Number: 94-26-0	iraben	•	quested: 11/20/2018 equested: 07:22:53
		F0 Male			
		Treatment Groups (ppm)			
		0	5000	15000	40000
URINARY SYSTEM					
KIDNEYS		(22)	(4)	(1)	(22)
No Systemic Lesions					

Study Number: R88007B	PA05R: Incidence Rates of Neoplastic Lesions with Litter Incidence (Systemic Lesions	Date Report Requested: 11/20/2018
Test Type: RACB	Abridged) (a) Test Compound: Butyl Paraben	Time Report Requested: 07:22:53
Route: Dosing in Feed Species/Strain: Rat/Sprague-Dawley	CAS Number: 94-26-8	Lab: RTI
Species/Strain. RavSprague-Dawley		

Tumor Summary Data for F0 Male	Treatment Groups (ppm)				
	0	5000	15000	40000	
Total Animals with Primary Neoplasms	0	0	0	0	
Total Primary Neoplasms	0	0	0	0	
Total Animals with Benign Neoplasms	1	0	0	0	
Total Benign Neoplasms	1	0	0	0	
Total Animals with Malignant Neoplasms	1	0	0	0	
Total Malignant Neoplasms	1	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: R88007BPTest Type: RACBRoute: Dosing in Feed	PA05R: Incidence Rates of Neoplastic Lesions with Litter Incidence (Systemic Lesion Abridged) (a) Test Compound: Butyl Paraben		cidence (Systemic Lesions	Date Report Requested: 11/20/2018 Time Report Requested: 07:22:53 Lab: RTI	
Species/Strain: Rat/Sprague-Dawley	CAS N	umber: 94-26-8			
	F0 F	emale			
		-	Treatment Groups (Females	3)	
		0	5000	15000	40000
Disposition Summary					
Animals Initially In Study	22	22	22	22	22
Scheduled Sacrifice					
Early Deaths			•		
Euthanized, moribund Unscheduled Sacrifice		4	3 1	1	
Scheduled Deaths		1	I		
Scheduled sacrifice, terminal (LD 4, SD 32 - 2	19) 22	21	18	21	22
Animals Examined Microscopically		22	22	22	22
ALIMENTARY SYSTEM					
LIVER	(0)	(22)	(22)	(22)	(22)
CARDIOVASCULAR SYSTEM					
No Tissues/Organs Examined					
ENDOCRINE SYSTEM					
ADRENAL CORTEX	(0)	(22)	(4)	(1)	(22)
ADRENAL MEDULLA	(0)	(22)	(4)	(1)	(22)
PITUITARY GLAND	(0)	(22)	(4)	(1)	(22)
THYROID GLANDS	(0)	(22)	(4)	(1)	(22)
GENERAL BODY SYSTEM					
No Tissues/Organs Examined					
GENITAL SYSTEM					
CERVIX	(0)	(22)	(4)	(1)	(22)
CLITORAL GLANDS	(0)	(1)	(0)	(0)	(0)
OVARIES	(0)	(22)	(22)	(22)	(22)
UTERUS	(0)	(22)	(22)	(22)	(22)
VAGINA	(0)	(22)	(4)	(1)	(22)

Study Number: R88007B Test Type: RACB Route: Dosing in Feed Species/Strain: Rat/Sprague-Dawley				Date Report Requested: 11/20/2018 Time Report Requested: 07:22:53 Lab: RTI	
	F0 F	emale			
		Tre	eatment Groups (Females)	
		0	5000	15000	40000
HEMATOPOIETIC SYSTEM					
LYMPH NODE	(0)	(0)	(1)	(0)	(0)
SPLEEN	(0)	(22)	(4)	(1)	(22)
THYMUS	(0)	(22)	(4)	(1)	(22)
INTEGUMENTARY SYSTEM					
MAMMARY GLANDS	(0)	(2)	(3)	(1)	(1)
ADENOCARCINOMA			1 (33%)		
FIBROADENOMA		1 (50%)	1 (33%)	1 (100%)	1 (100%)
SKIN	(0)	(0)	(1)	(0)	(1)
SKIN, ABDOMINAL	(0)	(0)	(1)	(0)	(0)
LYMPHOID SYSTEM					
No Tissues/Organs Examined					
MUSCULOSKELETAL SYSTEM					
No Tissues/Organs Examined					
NERVOUS SYSTEM					
No Tissues/Organs Examined					
X			· · · · · · · · · · · · · · · · · · ·		
RESPIRATORY SYSTEM					
No Tissues/Organs Examined					
SPECIAL SENSES SYSTEM					
ZYMBALS GLANDS	(0)	(0)	(1)	(0)	(0)
ADENOMA			1 (100%)		
URINARY SYSTEM					
KIDNEYS	(0)	(22)	(22)	(22)	(22)
No Systemic Lesions					

Study Number: R88007B	PA05R: Incidence Rates of Neoplastic Lesions with Litter Incidence (Systemic Lesions	Date Report Requested: 11/20/2018
Test Type: RACB Route: Dosing in Feed	Abridged) (a) Test Compound: Butyl Paraben CAS Number: 94-26-8	Time Report Requested: 07:22:53 Lab: RTI
Species/Strain: Rat/Sprague-Dawley		

Tumor Summary Data for F0 Female	Treatment Groups (Females)				
		0	5000	15000	40000
Total Animals with Primary Neoplasms	0	0	0	0	0
Total Primary Neoplasms	0	0	0	0	0
Total Animals with Benign Neoplasms	0	1	2	1	1
Total Benign Neoplasms	0	1	2	1	1
Total Animals with Malignant Neoplasms	0	0	1	0	0
Total Malignant Neoplasms	0	0	1	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

Test Type: RACB Route: Dosing in Feed Species/Strain: Rat/Sprague-Dawley	Abridged) (a) Test Compound: Butyl Par CAS Number: 94-26-8		Time Report R Lab: R⊺I	equested: 07:22:53	
	F1 Male: F1c NonParent Males				
		Treatment G	Broups (ppm)		
	0	5000	15000	40000	
Disposition Summary					
Animals Initially In Study	45	34	46	45	
Scheduled Sacrifice					
Early Deaths					
Euthanized, moribund	1			30	
Found Dead	1			9	
Scheduled Deaths					
Scheduled sacrifice, terminal (PND 90 - 92)	43	34	46	6	
Animals Examined Microscopically	45	34	46	6	
Total number litters	16	12	18	5	
ALIMENTARY SYSTEM					
INTESTINE, COLON	(1)	(1)	(0)	(0)	
LIVER	(45)	(34)	(46)	(6)	
CARDIOVASCULAR SYSTEM					
No Tissues/Organs Examined					
ENDOCRINE SYSTEM					
ADRENAL CORTEX	(45)	(0)	(2)	(6)	
ADRENAL MEDULLA	(45)	(0)	(2)	(6)	
PITUITARY GLAND	(45)	(0)	(0)	(6)	
THYROID GLANDS	(44)	(0)	(0)	(6)	
GENERAL BODY SYSTEM					
No Tissues/Organs Examined					

Study Number: R88007B Test Type: RACB Route: Dosing in Feed Species/Strain: Rat/Sprague-Dawley	Abridged) (a) Test Compound: Butyl Pa	: Incidence Rates of Neoplastic Lesions with Litter Incidence (Systemic Lesions Abridged) (a) Test Compound: Butyl Paraben CAS Number: 94-26-8		equested: 11/20/2018 equested: 07:22:53
	F1 Male: F1c NonParent Male	s		
		Treatment G	roups (ppm)	
	0	5000	15000	40000
GENITAL SYSTEM				
COAGULATING GLANDS	(45)	(0)	(0)	(6)
DORSAL PROSTATE	(45)	(0)	(0)	(6)
EPIDIDYMIDES	(45)	(0)	(1)	(6)
SEMINAL VESICLES	(45)	(0)	(2)	(6)
TESTES	(45)	(1)	(1)	(6)
VENTRAL PROSTATE	(45)	(0)	(1)	(6)
HEMATOPOIETIC SYSTEM				
SPLEEN	(45)	(0)	(1)	(6)
THYMUS	(44)	(0)	(1)	(6)
INTEGUMENTARY SYSTEM No Tissues/Organs Examined				
LYMPHOID SYSTEM No Tissues/Organs Examined				
MUSCULOSKELETAL SYSTEM DIAPHRAGM	(1)	(0)	(0)	(0)
		(0)	(0)	(0)
NERVOUS SYSTEM				
No Tissues/Organs Examined				
RESPIRATORY SYSTEM				
LUNGS	(1)	(0)	(0)	(0)
SPECIAL SENSES SYSTEM				
EYES	(1)	(0)	(0)	(0)
URINARY SYSTEM				
KIDNEYS	(45)	(4)	(4)	(6)
	(43)	(Ŧ)	(¬)	(0)
No Systemic Lesions				

PA05R: Incidence Rates of Neoplastic Lesions with Litter Incidence (Systemic Lesions Date Report Requested: 11/20/2018

Study Number: R88007B	PA05R: Incidence Rates of Neoplastic Lesions with Litter Incidence (Systemic Lesions	Date Report Requested: 11/20/2018
Test Type: RACB	Abridged) (a)	Time Report Requested: 07:22:53
Route: Dosing in Feed	Test Compound: Butyl Paraben CAS Number: 94-26-8	Lab: RTI
Species/Strain: Rat/Sprague-Dawley		

umor Summary Data for F1 Male F1c NonParent Males	Treatment Groups (ppm)			
	0	5000	15000	40000
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: R88007B Test Type: RACB Route: Dosing in Feed Species/Strain: Rat/Sprague-Dawley	PA05R: Incidence Rates of Neoplastic Lesions with Litter Incidence (Systemic Lesions Abridged) (a) Test Compound: Butyl Paraben CAS Number: 94-26-8			equested: 11/20/2018 equested: 07:22:53
	F1 Female: F1c NonParent Fem	ale		
		Treatment G	roups (ppm)	
	0	5000	15000	40000
Disposition Summary				
Animals Initially In Study Scheduled Sacrifice	40	35	41	34
Early Deaths Euthanized, moribund Found Dead	1			20 14
Scheduled Deaths Scheduled sacrifice, terminal (PND 90 - 92)		35	41	
Animals Examined Microscopically	40	35	41	
Total number litters	17	14	15	
ALIMENTARY SYSTEM LIVER	(40)	(35)	(41)	(0)
CARDIOVASCULAR SYSTEM No Tissues/Organs Examined				
ENDOCRINE SYSTEM				
ADRENAL CORTEX	(40)	(35)	(41)	(0)
ADRENAL MEDULLA	(40)	(35)	(41)	(0)
PITUITARY GLAND	(40)	(0)	(0)	(0)
THYROID GLANDS	(40)	(0)	(0)	(0)
GENERAL BODY SYSTEM				
No Tissues/Organs Examined				

Route: Dosing in Feed Species/Strain: Rat/Sprague-Dawley	Test Compound: Butyl Parabe CAS Number: 94-26-8	en	Lab: RTI	
	F1 Female: F1c NonParent Female	9		
		Treatment G	Groups (ppm)	
	0	5000	15000	40000
GENITAL SYSTEM				
CERVIX	(40)	(0)	(0)	(0)
CLITORAL GLANDS	(1)	(0)	(0)	(0)
OVARIES	(39)	(0)	(1)	(0)
OVIDUCTS	(1)	(0)	(0)	(0)
UTERUS	(40)	(2)	(41)	(0)
VAGINA	(40)	(0)	(0)	(0)
HEMATOPOIETIC SYSTEM				
LYMPH NODE	(0)	(0)	(3)	(0)
SPLEEN	(40)	(0)	(2)	(0)
THYMUS	(39)	(35)	(41)	(0)
INTEGUMENTARY SYSTEM				
MAMMARY GLANDS	(39)	(0)	(41)	(0)
LYMPHOID SYSTEM				
No Tissues/Organs Examined				
MUSCULOSKELETAL SYSTEM				
BONE, MAXILLA	(0)	(0)	(1)	(0)
DIAPHRAGM	(1)	(0)	(0)	(0)
NERVOUS SYSTEM				
No Tissues/Organs Examined				
RESPIRATORY SYSTEM				
LUNGS	(1)	(0)	(0)	(0)
SPECIAL SENSES SYSTEM				
EYES	(0)	(0)	(1)	(0)

Test Type: RACB

PA05R: Incidence Rates of Neoplastic Lesions with Litter Incidence (Systemic Lesions Abridged) (a) Test Compound: Butyl Paraben CAS Number: 94-26-8 Date Report Requested: 11/20/2018 Time Report Requested: 07:22:53 Lab: RTI

Study Number: R88007B Test Type: RACB Route: Dosing in Feed Species/Strain: Rat/Sprague-Dawley	PA05R: Incidence Rates of Neoplastic Lesions with Litter Incidence (Systemic Lesions Abridged) (a) Test Compound: Butyl Paraben CAS Number: 94-26-8			•	quested: 11/20/2018 equested: 07:22:53
	F1 Fe	emale: F1c NonParent Fem	nale		
		Treatment Groups (ppm)			
		0	5000	15000	40000
URINARY SYSTEM					
KIDNEYS		(40) (1) (2) (0)			(0)
No Systemic Lesions					

Study Number: R88007BPA05R: Incidence Rates of Neoplastic Lesions with Litter Incidence (Systemic Lesions
Abridged) (a)Date Report Requested: 11/20/2018Test Type: RACBTime Report Requested: 07:22:53Route: Dosing in FeedTest Compound: Butyl ParabenSpecies/Strain: Rat/Sprague-DawleyCAS Number: 94-26-8

Tumor Summary Data for F1 Female F1c NonParent Female	Treatment Groups (ppm)			
	0	5000	15000	40000
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

Test Type: RACB Route: Dosing in Feed Species/Strain: Rat/Sprague-Dawley	Abridged) (a) Test Compound: Butyl Paraben CAS Number: 94-26-8		Time Report Ro Lab: RTI	equested: 07:22:53		
F1 Male: F1c Parental Males						
		Treatment G	iroups (ppm)			
	0	5000	15000	40000		
Disposition Summary						
Animals Initially In Study	40	40	40	26		
Scheduled Sacrifice						
Early Deaths		-				
Euthanized, moribund	1	3	4			
Unscheduled Sacrifice Scheduled Deaths			1			
Scheduled bearins Scheduled sacrifice, terminal (PND 207 - 213)	39	37	39	26		
Animals Examined Microscopically	40	40	40	26		
Total number litters	19	14	18	7		
ALIMENTARY SYSTEM				,		
LIVER	(40)	(40)	(40)	(26)		
PANCREAS	(1)	(1)	(0)	(0)		
SALIVARY GLANDS	(2)	(0)	(1)	(0)		
STOMACH	(1)	(0)	(0)	(0)		
CARDIOVASCULAR SYSTEM						
HEART	(0)	(2)	(0)	(0)		
ENDOCRINE SYSTEM						
ADRENAL CORTEX	(40)	(3)	(1)	(26)		
ADRENAL MEDULLA	(40)	(3)	(1)	(26)		
PITUITARY GLAND	(40)	(3)	(1)	(25)		
THYROID GLANDS	(40)	(3)	(1)	(26)		
GENERAL BODY SYSTEM						
FAT	(1)	(0)	(1)	(0)		

PA05R: Incidence Rates of Neoplastic Lesions with Litter Incidence (Systemic Lesions Date Report Requested: 11/20/2018

Study Number: R88007B Test Type: RACB Route: Dosing in Feed Species/Strain: Rat/Sprague-Dawley	Test Compound: Dutid Database			Time Report Requested: 07:22:53	
	F1 Male: F1c Parental Male	95			
		Treatment G	Groups (ppm)		
	0	5000	15000	40000	
GENITAL SYSTEM					
COAGULATING GLANDS	(40)	(3)	(1)	(26)	
DORSAL PROSTATE	(40)	(3)	(1)	(26)	
EPIDIDYMIDES	(40)	(3)	(1)	(26)	
PREPUTIAL GLANDS	(2)	(2)	(1)	(1)	
SEMINAL VESICLES	(40)	(3)	(1)	(26)	
TESTES	(40)	(3)	(1)	(26)	
VENTRAL PROSTATE	(40)	(3)	(1)	(26)	
HEMATOPOIETIC SYSTEM					
LYMPH NODE	(1)	(0)	(0)	(0)	
LYMPH NODE, CERVICAL	(2)	(0)	(1)	(0)	
SPLEEN	(40)	(3)	(1)	(26)	
THYMUS	(40)	(3)	(1)	(26)	
INTEGUMENTARY SYSTEM					
MAMMARY GLANDS	(2)	(0)	(0)	(0)	
SKIN	(0)	(1)	(1)	(0)	
LYMPHOID SYSTEM					
No Tissues/Organs Examined					
MUSCULOSKELETAL SYSTEM					
No Tissues/Organs Examined					
NERVOUS SYSTEM					
BRAIN	(0)	(2)	(0)	(0)	
BRAIN, FOREBRAIN	(1)	(0)	(0)	(0)	
SCHWANNOMA; MALIGNANT	1 (100%) [1]				
RESPIRATORY SYSTEM					
LUNGS	(1)	(0)	(0)	(0)	

Study Number: R88007B Test Type: RACB Route: Dosing in Feed Species/Strain: Rat/Sprague-Dawley		A bridged) (a)		-	equested: 11/20/2018 equested: 07:22:53
	F1	Male: F1c Parental Male	S		
		Treatment Groups (ppm)			
		0	5000	15000	40000
SPECIAL SENSES SYSTEM					
EYES		(0)	(0)	(1)	(0)
URINARY SYSTEM					
KIDNEYS		(40) (6)		(2)	(26)
No Systemic Lesions					

Study Number: R88007B	PA05R: Incidence Rates of Neoplastic Lesions with Litter Incidence (Systemic Lesions	Date Report Requested: 11/20/2018
Test Type: RACB	Abridged) (a)	Time Report Requested: 07:22:53
Route: Dosing in Feed	Test Compound: Butyl Paraben CAS Number: 94-26-8	Lab: RTI
Species/Strain: Rat/Sprague-Dawley		

Tumor Summary Data for F1 Male F1c Parental Males	Treatment Groups (ppm)			
	0	5000	15000	40000
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	1	0	0	0
Total Malignant Neoplasms	1	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

Test Type: RACB Route: Dosing in Feed Species/Strain: Rat/Sprague-Dawley	Abridged) (a) Test Compound: Butyl Paraben CAS Number: 94-26-8		Time Report Requested: 07:22: Lab: RTI			
F1 Female: F1c Parental Females						
		Treatment	Groups (ppm)			
	0	5000	15000	40000		
Disposition Summary						
Animals Initially In Study	40	40	40	26		
Scheduled Sacrifice						
Early Deaths						
Euthanized, moribund	1	2	2			
Found Dead	_		1			
Unscheduled Sacrifice	2		2			
Scheduled Deaths						
Scheduled sacrifice, terminal (LD 21, PND 227 - 236)	37	38	35	26		
Animals Examined Microscopically	40	40	40	26		
Total number litters	20	14	18	8		
ALIMENTARY SYSTEM						
LIVER	(40)	(40)	(40)	(26)		
MESENTERY	(0)	(0)	(2)	(0)		
PANCREAS	(0)	(1)	(1)	(0)		
CARDIOVASCULAR SYSTEM						
HEART	(0)	(1)	(0)	(0)		
ENDOCRINE SYSTEM						
ADRENAL CORTEX	(40)	(40)	(40)	(26)		
ADRENAL MEDULLA	(40)	(40)	(40)	(26)		
PITUITARY GLAND	(40)	(2)	(5)	(26)		
THYROID GLANDS	(40)	(2)	(5)	(25)		
GENERAL BODY SYSTEM						
FAT	(0)	(1)	(0)	(0)		

PA05R: Incidence Rates of Neoplastic Lesions with Litter Incidence (Systemic Lesions Date Report Requested: 11/20/2018 Abridged) (a) Time Report Requested: 07:22:53

Study Number: R88007B	PA05R: Incidenc
Test Type: RACB	
Route: Dosing in Feed	
Species/Strain: Rat/Sprague-Dawley	

A05R: Incidence Rates of Neoplastic Lesions with Litter Incidence (Systemic Lesions Abridged) (a) Test Compound: Butyl Paraben CAS Number: 94-26-8 Date Report Requested: 11/20/2018 Time Report Requested: 07:22:53 Lab: RTI

F1 Female: F1c Parental Females				
		Treatment Groups (ppm)		
	0	5000	15000	40000
GENITAL SYSTEM				
CERVIX	(40)	(2)	(5)	(26)
CLITORAL GLANDS	(1)	(1)	(1)	(2)
OVARIES	(40)	(3)	(5)	(26)
UTERUS	(40)	(3)	(6)	(26)
VAGINA	(40)	(2)	(5)	(26)
HEMATOPOIETIC SYSTEM				
LYMPH NODE	(0)	(0)	(1)	(0)
SPLEEN	(40)	(2)	(5)	(26)
THYMUS	(40)	(40)	(39)	(26)
INTEGUMENTARY SYSTEM				
MAMMARY GLANDS	(40)	(3)	(4)	(26)
ADENOCARCINOMA		2 (67%) [2]	1 (25%) [1]	
FIBROADENOMA			2 (50%) [2]	
SKIN	(1)	(1)	(0)	(1)
LYMPHOID SYSTEM				
No Tissues/Organs Examined				
MUSCULOSKELETAL SYSTEM				
LIMB	(1)	(0)	(0)	(0)
NOT OTHERWISE SPECIFIED; SARCOMA	1 (100%) [1]	(- <i>)</i>	(-)	(-)
PAW	(1)	(0)	(0)	(0)
SARCOMA	1 (100%) [1]			,
NERVOUS SYSTEM				
BRAIN	(0)	(1)	(1)	(0)
RESPIRATORY SYSTEM				
No Tissues/Organs Examined				

Study Number: R88007B Test Type: RACB Route: Dosing in Feed Species/Strain: Rat/Sprague-Dawley	PA05R: Incidence Rates of Neoplastic Lesions with Litter Incidence (Systemic Lesions Abridged) (a) Test Compound: Butyl Paraben CAS Number: 94-26-8		=	Time Report Requested: 07:22:53	
	F1 Fe	emale: F1c Parental Fer	nales		
		Treatment Groups (ppm)			
		0	5000	15000	40000
SPECIAL SENSES SYSTEM EYES		(1)	(0)	(0)	(0)
URINARY SYSTEM KIDNEYS		(40)	(3)	(6)	(26)
No Systemic Lesions					

Study Number: R88007B		Date Report Requested: 11/20/2018
Test Type: RACB	Abridged) (a) Test Compound: Butyl Paraben	Time Report Requested: 07:22:53
Route: Dosing in Feed	CAS Number: 94-26-8	Lab: RTI
Species/Strain: Rat/Sprague-Dawley		

Tumor Summary Data for F1 Female F1c Parental Females	Treatment Groups (ppm)			
	0	5000	15000	40000
Total Animals with Primary Neoplasms	0	0	0	0
Total Primary Neoplasms	0	0	0	0
Total Animals with Benign Neoplasms	0	0	2	0
Total Benign Neoplasms	0	0	2	0
Total Animals with Malignant Neoplasms	1	2	1	0
Total Malignant Neoplasms	2	2	1	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: R88007B
Test Type: RACB
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 **