Experiment Number: 10188 - 01	P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)	Date Report Requested: 10/25/2019
Test Type: CHRONIC Route: DOSED FEED Species/Strain: RATS/HSD	Di(2-ethylhexyl) Phthalate CAS Number: 117-81-7	Time Report Requested: 13:54:54 First Dose M/F: 02/17/11 / 02/18/11 Lab: BAT
	Final 2_HSD Rats	
NTP Study Number:	C10188B	
Lock Date:	04/01/2015	
Cage Range:	ALL	
Date Range:	ALL	
Reasons For Removal:	ALL	
Removal Date Range:	ALL	
Treatment Groups:	Include ALL	

Study Gender:

TDMSE Version:

PWG Approval Date:

Both

NONE

3.0.2.3_002

Experiment Number: 10188 - 01	P05: INCIDENCE RA	Date Report Requested: 10/25/2019			
Test Type: CHRONIC		Di(2-ethylhe	xyl) Phthalate		Time Report Requested: 13:54:54
Route: DOSED FEED		CAS Numb	er: 117-81-7		First Dose M/F: 02/17/11 / 02/18/11
Species/Strain: RATS/HSD					Lab: BAT
Harlan Sprague Dawley RATS MALE	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
Disposition Summary					
Animals Initially In Study	50	50	50	50	50
Early Deaths					
Moribund Sacrifice	4	8	2	8	4
Natural Death	14	8	9	7	4
Survivors					
Natural Death		1			
Terminal Sacrifice	32	33	39	35	42
Animals Examined Microscopically	50	50	50	50	50
ALIMENTARY SYSTEM					
Esophagus	(50)	(50)	(49)	(50)	(50)
Intestine Large, Cecum	(49)	(50)	(50)	(50)	(50)
Intestine Large, Colon	(49)	(50)	(50)	(50)	(50)
Intestine Large, Rectum	(50)	(50)	(50)	(50)	(50)
Intestine Small, Duodenum	(50)	(50)	(50)	(50)	(50)
Intestine Small, Ileum	(48)	(50)	(50)	(50)	(50)
Intestine Small, Jejunum	(49)	(50)	(50)	(50)	(50)
Adenocarcinoma	1 (2%)	()		1 (2%)	1 (2%)
Liver	(50)	(50)	(50)	(50)	(50)
Adenocarcinoma, Metastatic, Intestine Small, Jejunum	1 (2%)				
Carcinoma, Metastatic, Pancreas					1 (2%)
Hemangioma	1 (2%)				
Hepatocellular Adenoma		2 (4%)		1 (2%)	6 (12%)
Hepatocellular Carcinoma					6 (12%)
Mesentery	(2)	(5)	(1)	(3)	(4)
Carcinoma, Metastatic, Pancreas		1 (20%)			2 (50%)
Oral Mucosa	(0)	(1)	(0)	(1)	(1)
Squamous Cell Carcinoma			·	1 (100%)	
Sebaceous Gland, Adenoma		1 (100%)		. ,	
Pancreas	(49)	(50)	(50)	(50)	(50)
Acinus, Adenoma	1 (2%)	3 (6%)	5 (10%)	5 (10%)	7 (14%)
Acinus, Adenoma, Multiple	· · /	1 (2%)	· · /	18 (36%)	23 (46%)

Experiment Number: 10188 - 01	P05: INCIDENCE RA	Date Report Requested: 10/25/201				
Test Type: CHRONIC		ABRIDGED) (a) Di(2-ethylhexyl) Phthalate				
Route: DOSED FEED		CAS Numb	er: 117-81-7		First Dose M/F: 02/17/11 / 02/18/11	
Species/Strain: RATS/HSD					Lab: BAT	
Harlan Sprague Dawley RATS MALE	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male	
Acinus, Carcinoma Acinus, Carcinoma, Multiple		1 (2%)		1 (2%)	4 (8%) 1 (2%)	
Salivary Glands Fibrosarcoma Sarcoma	(50)	(50)	(50) 1 (2%) 1 (2%)	(50)	(50)	
Stomach, Forestomach	(50)	(50)	(50)	(50)	(50)	
Stomach, Glandular	(50)	(50)	(50)	(50)	(50)	
Tooth	(0)	(1)	(0)	(0)	(0)	
CARDIOVASCULAR SYSTEM						
Blood Vessel	(50)	(50)	(50)	(50)	(50)	
Heart	(50)	(50)	(50)	(50)	(50)	
Schwannoma Malignant	3 (6%)	1 (2%)	1 (2%)	1 (2%)	1 (2%)	
ENDOCRINE SYSTEM						
Adrenal Cortex	(50)	(49)	(50)	(50)	(50)	
Adenoma	1 (2%)	2 (4%)	2 (4%)	1 (2%)	1 (2%)	
Adrenal Medulla	(50)	(50)	(50)	(50)	(50)	
Pheochromocytoma Benign	3 (6%)	7 (14%)	3 (6%)	3 (6%)	1 (2%)	
Pheochromocytoma Malignant	1 (2%)		2 (4%)			
Bilateral, Pheochromocytoma Benign	1 (2%)	1 (2%)	1 (2%)			
Islets, Pancreatic	(49)	(50)	(50)	(50)	(50)	
Adenoma	3 (6%)	2 (4%)	4 (8%)	7 (14%)	1 (2%)	
Adenoma, Multiple		1 (2%)	. (2,0)	. (
Parathyroid Gland	(43)	(43)	(45)	(50)	(40)	
Adenoma	()	1 (2%)		()	()	
Pituitary Gland	(50)	(50)	(50)	(50)	(50)	
Meningioma Malignant, Metastatic, Brain	()	1 (2%)		()	(/	
Pars Distalis, Adenoma	3 (6%)	7 (14%)	7 (14%)	7 (14%)	4 (8%)	
Pars Intermedia, Adenoma	1 (2%)		. (, . , . ,	. (. ()	
Thyroid Gland	(50)	(50)	(50)	(50)	(50)	
Bilateral, C-cell, Adenoma	1 (2%)	1 (2%)	2 (4%)	(00)	1 (2%)	
Bilateral, C-cell, Carcinoma	. (270)	1 (2%)	- (170)		. (=,0)	

Experiment Number: 10188 - 01	P05: INCIDENCE RA	P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)					
Test Type: CHRONIC Route: DOSED FEED Species/Strain: RATS/HSD		Time Report Requested: 13:54:54 First Dose M/F: 02/17/11 / 02/18/11 Lab: BAT					
Harlan Sprague Dawley RATS MALE	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male		
C-cell, Adenoma C-cell, Carcinoma Follicular Cell, Adenoma	12 (24%) 2 (4%)	8 (16%) 6 (12%)	12 (24%) 3 (6%)	8 (16%) 2 (4%) 1 (2%)	9 (18%) 1 (2%)		
GENERAL BODY SYSTEM							
Peritoneum Tissue NOS Sarcoma	(1) (0)	(0) (0)	(0) (1) 1 (100%)	(0) (0)	(0) (0)		
GENITAL SYSTEM							
Epididymis Carcinoma, Metastatic, Pancreas	(50)	(50) 1 (2%)	(50)	(50)	(50)		
Penis Preputial Gland Carcinoma	(0) (49) 1 (2%)	(0) (50)	(1) (50)	(0) (50)	(0) (50)		
Squamous Cell Carcinoma Prostate Adenoma Carcinoma, Metastatic, Pancreas	(50) 1 (2%)	2 (4%) (50) 1 (2%) 1 (2%)	(50)	(50)	1 (2%) (50)		
Ventral, Adenoma Seminal Vesicle Carcinoma, Metastatic, Pancreas	(50)	(50) 1 (2%)	(50)	1 (2%) (50)	(50)		
Testis Carcinoma, Metastatic, Pancreas	(50)	(50) 1 (2%)	(50)	(50)	(50)		
Bilateral, Interstitial Cell, Adenoma Interstitial Cell, Adenoma	1 (2%) 6 (12%)	3 (6%)	3 (6%)	1 (2%) 5 (10%)	4 (8%) 11 (22%)		
HEMATOPOIETIC SYSTEM							
Bone Marrow Lymph Node	(50) (1)	(50) (2)	(50) (2)	(50) (4)	(50) (0)		

Experiment Number: 10188 - 01	P05: INCIDENCE RA	TES OF NEOPLASMS	Date Report Requested: 10/25/2019 Time Report Requested: 13:54:54 First Dose M/F: 02/17/11 / 02/18/11 Lab: BAT		
Test Type: CHRONIC Route: DOSED FEED Species/Strain: RATS/HSD		Di(2-ethylhe CAS Numb			
Harlan Sprague Dawley RATS MALE	0 ppm Male	300 ppm Male	3000 ppm Male	10000 ppm Male	
Deep Cervical, Carcinoma, Metastatic, Thyroid Gland				1 (25%)	
Mediastinal, Carcinoma, Metastatic, Pancreas		1 (50%)			
Lymph Node, Mandibular	(49)	(50)	(50)	(50)	(50)
Lymph Node, Mesenteric	(49)	(50)	(50)	(50)	(50)
Adenocarcinoma, Metastatic, Intestine Small, Jejunum	1 (2%)	()	()	()	
Spleen	(50)	(50)	(50)	(50)	(50)
Lipoma	·			1 (2%)	
Thymus	(48)	(47)	(49)	(50)	(46)
Thymoma Malignant		1 (2%)			
INTEGUMENTARY SYSTEM					
Mammary Gland	(50)	(50)	(49)	(50)	(50)
Fibroadenoma		1 (2%)	1 (2%)	1 (2%)	
Skin	(49)	(50)	(50)	(50)	(50)
Keratoacanthoma	1 (2%)		2 (4%)	2 (4%)	
Neural Crest Tumor		1 (2%)			
Trichoepithelioma		1 (2%)			
Sebaceous Gland, Adenoma		1 (2%)			
Subcutaneous Tissue, Fibroma	3 (6%)	3 (6%)	4 (8%)	2 (4%)	1 (2%)
Subcutaneous Tissue, Fibrosarcoma	· · ·	1 (2%)	2 (4%)	. ,	
Subcutaneous Tissue, Lipoma	3 (6%)		. ,		
Subcutaneous Tissue, Osteosarcoma	· · /		1 (2%)		
Subcutaneous Tissue, Squamous Cell Carcinoma			1 (2%)		
MUSCULOSKELETAL SYSTEM					
Bone	(50)	(50)	(50)	(50)	(50)
Skeletal Muscle	(0)	(1)	(0)	(0)	(0)
Carcinoma, Metastatic, Pancreas	· · /	1 (100%)	. /	. /	· · ·

Experiment Number: 10188 - 01	P05: INCIDENCE RA	SYSTEMIC LESIONS	Date Report Requested: 10/25/2019 Time Report Requested: 13:54:54 First Dose M/F: 02/17/11 / 02/18/11		
Test Type: CHRONIC Route: DOSED FEED		ABRID Di(2-ethylhe: CAS Numb			
Species/Strain: RATS/HSD					Lab: BAT
Harlan Sprague Dawley RATS MALE	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
NERVOUS SYSTEM					
Brain	(50)	(50)	(50)	(50)	(50)
Glioma Malignant	4 (8%)	2 (4%)	2 (4%)	1 (2%)	2 (4%)
Granular Cell Tumor Benign	3 (6%)		1 (2%)		
Meningioma Malignant		1 (2%)			
Nerve Trigeminal	(0)	(1)	(0)	(0)	(0)
Peripheral Nerve	(1)	(1)	(0)	(0)	(0)
Spinal Cord	(0)	(1)	(0)	(0)	(0)
RESPIRATORY SYSTEM			<u>.</u>		
Lung	(50)	(50)	(50)	(50)	(50)
Carcinoma, Metastatic, Pancreas		1 (2%)			
Carcinoma, Metastatic, Thyroid Gland				1 (2%)	
Cystic Keratinizing Epithelioma					1 (2%)
Pheochromocytoma Malignant, Metastatic, Adrenal Medulla	1 (2%)		1 (2%)		
Nose	(50)	(50)	(50)	(50)	(50)
Trachea	(50)	(50)	(50)	(50)	(50)
SPECIAL SENSES SYSTEM					
Eye	(50)	(50)	(50)	(50)	(50)
Squamous Cell Carcinoma, Metastatic, Oral Mucosa	(00)	(00)	(00)	1 (2%)	(00)
Harderian Gland	(50)	(50)	(50)	(50)	(50)
URINARY SYSTEM					
Kidney	(50)	(50)	(50)	(50)	(50)
Papilla, Polyp Adenomatous	· · /	. /	. ,	1 (2%)	· ·
Renal Tubule, Adenoma			1 (2%)	. ,	
Urothelium, Polyp Adenomatous	1 (2%)				

a - Number of animals examined microscopically at site and number of animals with lesion

P05: INCIDENCE RA	TES OF NEOPLASMS	Date Report Requested: 10/25/2019		
	Di(2-ethylhe)	(yl) Phthalate		Time Report Requested: 13:54:54
	CAS Numb	er: 117-81-7		First Dose M/F: 02/17/11 / 02/18/11
				Lab: BAT
0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
(0)	(1)	(0)	(0)	(0)
(0)	(1)	(0)	(0)	(0)
	1 (100%)			
(50)	(50)	(50)	(50)	(50)
	1 (2%)			
*(50)	*(50)	*(50)	*(50)	*(50)
		1 (2%)		1 (2%)
	1 (2%)	3 (6%)	2 (4%)	
2 (4%)	1 (2%)		4 (8%)	
2 (4%)	3 (6%)	1 (2%)		1 (2%)
	0 ppm Male (0) (0) (50) *(50) 2 (4%)	ABRIDO Di(2-ethylhe) CAS Numb 0 ppm Male 300 ppm Male (0) (1) (0) (1) (0) (1) (0) (1) (0) (1) (50) 1 (100%) (50) (50) *(50) 1 (2%) 2 (4%) 1 (2%)	ABRIDGED) (a) Di(2-ethylhexyl) Phthalate CAS Number: 117-81-7 0 ppm Male 300 ppm Male 1000 ppm Male (0) (1) (0) (0) (1) (0) (0) (1) (0) (0) (1) (0) (0) (1) (0) (1) (0) (1) (50) (50) (50) (50) (50) (50) *(50) *(50) 1 (2%) *(50) 1 (2%) 3 (6%) 2 (4%) 1 (2%) 3 (6%)	Di(2-ethylhexyl) Phthalate CAS Number: 117-81-7 0 ppm Male 300 ppm Male 1000 ppm Male 3000 ppm Male (0) (1) (0) (0) (0) (1) (0) (0) (0) (1) (0) (0) (0) (1) (0) (0) (0) (1) (0) (0) (50) (50) (50) (50) (50) (50) (50) (50) *(50) *(50) *(50) *(50) 1 (2%) 3 (6%) 2 (4%) 2 (4%) 1 (2%) 4 (8%)

* Number of animals with any tissue examined microscopically

Experiment Number: 10188 - 01	P05: INCIDENCE RA	TES OF NEOPLASMS	Date Report Requested: 10/25/2019			
Test Type: CHRONIC		Di(2-ethylhe:	xyl) Phthalate		Time Report Requested: 13:54:54	
Route: DOSED FEED		CAS Numb	er: 117-81-7		First Dose M/F: 02/17/11 / 02/18/11	
Species/Strain: RATS/HSD					Lab: BAT	
Harlan Sprague Dawley RATS MALE	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male	
Tumor Summary for Males						
Total Animals with Primary Neoplasms (b)	32	40	38	39	46	
Total Primary Neoplasms	62	70	67	78	88	
Total Animals with Benign Neoplasms	27	31	30	37	41	
Total Benign Neoplasms	46	47	48	65	70	
Total Animals with Malignant Neoplasms	13	18	15	10	16	
Total Malignant Neoplasms	16	22	19	13	18	
Total Animals with Metastatic Neoplasms	2	2	1	2	2	
Total Metastatic Neoplasms	3	13	1	3	3	
Total Animals with Malignant Neoplasms Uncertain Primary Site						
Total Animals with Neoplasms Uncertain- Benign or Malignant		1				
Total Uncertain Neoplasms		1				

*** END OF MALE ***

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors

.

Experiment Number: 10188 - 01	P05: INCIDENCE RA	Date Report Requested: 10/25/2019			
Test Type: CHRONIC			Time Report Requested: 13:54:54		
Route: DOSED FEED			xyl) Phthalate er: 117-81-7		First Dose M/F: 02/17/11 / 02/18/11
Species/Strain: RATS/HSD					Lab: BAT
Harlan Sprague Dawley RATS FEMALE	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Disposition Summary					
Animals Initially In Study	50	50	50	50	50
Early Deaths					
Moribund Sacrifice	9	10	13	9	6
Natural Death	8	6	4	7	12
Survivors					
Moribund Sacrifice			1		
Natural Death			1		1
Terminal Sacrifice	33	34	31	34	31
Animals Examined Microscopically	50	50	50	50	50
ALIMENTARY SYSTEM					
Esophagus	(50)	(50)	(50)	(50)	(49)
Intestine Large, Cecum	(50)	(50)	(50)	(49)	(48)
Intestine Large, Colon	(50)	(50)	(50)	(50)	(48)
Intestine Large, Rectum	(50)	(49)	(50)	(50)	(50)
Intestine Small, Duodenum	(50)	(50)	(50)	(50)	(48)
Serosa, Adenocarcinoma, Metastatic, Uterus				1 (2%)	
Intestine Small, Ileum	(50)	(50)	(49)	(50)	(48)
Intestine Small, Jejunum	(50)	(50)	(50)	(50)	(48)
Liver	(50)	(50)	(50)	(50)	(49)
Adenocarcinoma, Metastatic, Uterus		1 (2%)		1 (2%)	
Carcinoma, Metastatic, Kidney					1 (2%)
Cholangioma	1 (2%)				
Hepatocellular Adenoma			1 (2%)	1 (2%)	11 (22%)
Hepatocellular Adenoma, Multiple					2 (4%)
Hepatocellular Carcinoma					2 (4%)
Sarcoma, Metastatic, Pancreas					1 (2%)
Mesentery	(0)	(1)	(1)	(2)	(2)
Adenocarcinoma, Metastatic, Uterus				2 (100%)	
Carcinoma, Metastatic, Pancreas					1 (50%)
Paraganglioma		1 (100%)			
Oral Mucosa	(1)	(0)	(0)	(0)	(0)
Pancreas	(50)	(50)	(50)	(50)	(47)

Experiment Number: 10188 - 01	P05: INCIDENCE RA	Date Report Requested: 10/25/2019			
Test Type: CHRONIC			Time Report Requested: 13:54:54		
Route: DOSED FEED		CAS Numb	er: 117-81-7		First Dose M/F: 02/17/11 / 02/18/11
Species/Strain: RATS/HSD					Lab: BAT
Harlan Sprague Dawley RATS FEMALE	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Adenocarcinoma, Metastatic, Uterus		1 (2%)		2 (4%)	
Sarcoma					1 (2%)
Acinus, Adenoma				1 (2%)	1 (2%)
Acinus, Carcinoma					1 (2%)
Salivary Glands	(49)	(50)	(50)	(47)	(49)
Stomach, Forestomach	(50)	(50)	(50)	(50)	(50)
Squamous Cell Papilloma	. ,	1 (2%)	. ,	. ,	
Stomach, Glandular	(50)	(50)	(50)	(50)	(50)
CARDIOVASCULAR SYSTEM					
Blood Vessel	(50)	(50)	(50)	(50)	(49)
Heart	(50)	(50)	(50)	(49)	(49)
Schwannoma Malignant	1 (2%)				1 (2%)
ENDOCRINE SYSTEM					
Adrenal Cortex	(50)	(50)	(50)	(50)	(50)
Carcinoma		1 (2%)			
Capsule, Adenocarcinoma, Metastatic, Uterus				1 (2%)	
Adrenal Medulla	(50)	(50)	(50)	(50)	(50)
Pheochromocytoma Benign	1 (2%)	2 (4%)	1 (2%)	1 (2%)	2 (4%)
Pheochromocytoma Malignant		1 (2%)			
Islets, Pancreatic	(50)	(50)	(50)	(50)	(48)
Adenoma	1 (2%)	3 (6%)	3 (6%)		2 (4%)
Parathyroid Gland	(42)	(48)	(47)	(41)	(43)
Pituitary Gland	(49)	(50)	(50)	(50)	(50)
Pars Distalis, Adenoma	13 (27%)	11 (22%)	12 (24%)	8 (16%)	3 (6%)
Thyroid Gland	(50)	(50)	(50)	(48)	(49)
Bilateral, C-cell, Adenoma	1 (2%)	3 (6%)		1 (2%)	
C-cell, Adenoma	9 (18%)	7 (14%)	13 (26%)	9 (19%)	4 (8%)
C-cell, Adenoma, Multiple	2 (4%)		-		
C-cell, Carcinoma	2 (4%)	2 (4%)			
Follicular Cell, Adenoma		•		1 (2%)	1 (2%)

Experiment Number: 10188 - 01	P05: INCIDENCE RA	Date Report Requested: 10/25/2019			
Test Type: CHRONIC Route: DOSED FEED Species/Strain: RATS/HSD		Time Report Requested: 13:54:54 First Dose M/F: 02/17/11 / 02/18/11 Lab: BAT			
Harlan Sprague Dawley RATS FEMALE	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
GENERAL BODY SYSTEM					
Peritoneum Adenocarcinoma, Metastatic, Uterus	(1)	(1) 1 (100%)	(0)	(1) 1 (100%)	(1)
GENITAL SYSTEM					
Clitoral Gland	(49)	(49)	(47)	(49)	(48)
Squamous Cell Carcinoma Squamous Cell Papilloma	1 (2%)	1 (2%)			
Ovary	(50)	(50)	(50)	(49)	(48)
Adenocarcinoma, Metastatic, Mammary Gland	1 (2%)	(00)	(00)	(10)	
Adenocarcinoma, Metastatic, Uterus	. (= /0)	1 (2%)		1 (2%)	
Granulosa Cell Tumor Benign	1 (2%)				
Hemangiosarcoma	(),				1 (2%)
Luteoma	1 (2%)				, , , , , , , , , , , , , , , , , , ,
Oviduct	(0)	(1)	(0)	(0)	(0)
Uterus	(50)	(50)	(50)	(50)	(49)
Carcinoma, Metastatic, Pancreas					1 (2%)
Leiomyoma			1 (2%)		
Paraganglioma Malignant, Metastatic,		1 (2%)			
Mesentery Datus Stremat	2 (00/)	4 (00/)	E (100/)	0 (400/)	7(140/)
Polyp Stromal	3 (6%)	4 (8%)	5 (10%)	9 (18%)	7 (14%)
Polyp Stromal, Multiple Sarcoma Stromal	2 (4%)	1 (2%)	2 (4%)	1 (2%)	1 (2%) 1 (2%)
Schwannoma Malignant				1 (2%)	1 (2 /0)
Squamous Cell Carcinoma		1 (2%)		1 (2%)	
Squamous Cell Papilloma		· (2/0)		· (~ /0)	1 (2%)
Squamous Cell Papilloma, Multiple					1 (2%)
Cervix, Adenocarcinoma				2 (4%)	- ()
Cervix, Sarcoma	1 (2%)				
Cervix, Sarcoma Stromal				1 (2%)	
Cervix, Squamous Cell Carcinoma				1 (2%)	1 (2%)
Endometrium, Adenocarcinoma	2 (4%)	2 (4%)	1 (2%)	2 (4%)	10 (20%)

Experiment Number: 10188 - 01	P05: INCIDENCE RA	TES OF NEOPLASMS	Date Report Requested: 10/25/2019		
Test Type: CHRONIC		Di(2-ethylhe)		Time Report Requested: 13:54:54	
Route: DOSED FEED		· ·	er: 117-81-7		First Dose M/F: 02/17/11 / 02/18/11
Species/Strain: RATS/HSD					Lab: BAT
Harlan Sprague Dawley RATS FEMALE	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Endometrium, Adenoma		1 (2%)			
Vagina	(1)	(1)	(1)	(1)	(0)
Schwannoma Malignant		1 (100%)			
Schwannoma Malignant, Metastatic, Uterus				1 (100%)	
HEMATOPOIETIC SYSTEM					
Bone Marrow	(50)	(50)	(50)	(50)	(50)
Lymph Node	(2)	(1)	(2)	(2)	(4)
Lumbar, Adenocarcinoma, Metastatic, Uterus				1 (50%)	1 (25%)
Mediastinal, Sarcoma, Metastatic, Skin	1 (50%)				
Pancreatic, Adenocarcinoma, Metastatic, Uterus				1 (50%)	
Renal, Adenocarcinoma, Metastatic, Uterus				1 (50%)	1 (25%)
Lymph Node, Mandibular	(48)	(50)	(50)	(47)	(49)
Lymph Node, Mediastinal	(0)	(1)	(0)	(0)	(0)
Paraganglioma Malignant, Metastatic, Mesentery		1 (100%)			
Lymph Node, Mesenteric	(50)	(50)	(50)	(50)	(48)
Adenocarcinoma, Metastatic, Uterus				1 (2%)	
Sarcoma, Metastatic, Pancreas					1 (2%)
Spleen	(50)	(50)	(50)	(50)	(47)
Adenocarcinoma, Metastatic, Uterus				2 (4%)	
Carcinoma, Metastatic, Pancreas					1 (2%)
Thymus	(49)	(49)	(50)	(47)	(48)
INTEGUMENTARY SYSTEM		-			
Mammary Gland	(50)	(50)	(50)	(50)	(50)
Adenocarcinoma	8 (16%)	4 (8%)	3 (6%)	2 (4%)	3 (6%)
Adenocarcinoma, Multiple			1 (2%)	2 (4%)	
Adenoma		1 (2%)		1 (2%)	
Fibroadenoma	18 (36%)	24 (48%)	15 (30%)	15 (30%)	9 (18%)
Fibroadenoma, Multiple	7 (14%)	7 (14%)	8 (16%)	3 (6%)	3 (6%)
Skin	(50)	(50)	(50)	(50)	(50)

Experiment Number: 10188 - 01	P05: INCIDENCE RA	TES OF NEOPLASMS	Date Report Requested: 10/25/2019 Time Report Requested: 13:54:54 First Dose M/F: 02/17/11 / 02/18/11 Lab: BAT		
Test Type: CHRONIC Route: DOSED FEED Species/Strain: RATS/HSD Harlan Sprague Dawley RATS FEMALE		Di(2-ethylhe: CAS Numb			
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Keratoacanthoma Squamous Cell Papilloma Subcutaneous Tissue, Sarcoma	1 (2%)			1 (2%)	1 (2%)
MUSCULOSKELETAL SYSTEM	· · · · · · · · · · · · · · · · · · ·				
Bone Cranium, Osteosarcoma	(50)	(50)	(50)	(50) 1 (2%)	(50)
Skeletal Muscle Carcinoma, Metastatic, Pancreas Sarcoma, Metastatic, Pancreas	(0)	(0)	(0)	(0)	(3) 1 (33%) 1 (33%)
NERVOUS SYSTEM					
Brain Granular Cell Tumor Benign Pineal Gland, Carcinoma	(50) 2 (4%)	(50)	(50)	(50) 1 (2%)	(50) 1 (2%)
Peripheral Nerve Spinal Cord	(0) (0)	(0) (0)	(0) (0)	(0) (0)	(1) (1)
RESPIRATORY SYSTEM	·	· · · · · · · · · · · · · · · · · · ·	·	·	
Lung Adenocarcinoma, Metastatic, Mammary Gland Adenocarcinoma, Metastatic, Uterus Alveolar/Bronchiolar Adenoma	(50) 2 (4%)	(50) 1 (2%)	(50) 2 (4%)	(50) 1 (2%) 2 (4%) 1 (2%)	(49)
Carcinoma, Metastatic, Kidney Carcinoma, Metastatic, Pancreas Paraganglioma Malignant, Metastatic, Mesentery		1 (2%)			1 (2%) 1 (2%)
Pheochromocytoma Malignant, Metastatic, Adrenal Medulla		1 (2%)			
Nose Nasolacrimal Duct, Squamous Cell Carcinoma	(50)	(50)	(50)	(50) 1 (2%)	(50)
Trachea a - Number of animals examined microscopical	(50) Iv at site and number	(50) of animals with lesio	(50) n	(49)	(49)

Experiment Number: 10188 - 01	P05: INCIDENCE RA	Date Report Requested: 10/25/2019 Time Report Requested: 13:54:54 First Dose M/F: 02/17/11 / 02/18/11 Lab: BAT			
Test Type: CHRONIC Route: DOSED FEED Species/Strain: RATS/HSD Harlan Sprague Dawley RATS FEMALE					
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
SPECIAL SENSES SYSTEM					
Eye Harderian Gland	(50) (50)	(50) (50)	(50) (50)	(49) (49)	(50) (49)
URINARY SYSTEM					
Kidney Adenocarcinoma, Metastatic, Uterus Carcinoma, Metastatic, Pancreas Squamous Cell Carcinoma, Metastatic, Uterus Renal Tubule, Carcinoma	(50)	(50) 1 (2%)	(50)	(50) 1 (2%) 1 (2%)	(50) 1 (2%) 1 (2%)
Ureter Urinary Bladder Adenocarcinoma, Metastatic, Uterus Paraganglioma Malignant, Metastatic, Mesentery	(0) (50)	(0) (50) 1 (2%)	(0) (49)	(1) (50) 2 (4%)	(0) (47) 1 (2%)
Sarcoma Stromal, Metastatic, Uterus Schwannoma Malignant, Metastatic, Vagina Urothelium, Carcinoma		1 (2%)		1 (2%) 1 (2%)	
SYSTEMIC LESIONS					
Multiple Organ Histiocytic Sarcoma Leukemia Mononuclear	*(50)	*(50) 1 (2%)	*(50) 1 (2%)	*(50) 1 (2%) 1 (2%)	*(50) 1 (2%) 1 (2%)
Lymphoma Malignant	1 (2%)		1 (2%)		1 (2%)

* Number of animals with any tissue examined microscopically

Experiment Number: 10188 - 01	P05: INCIDENCE RA	TES OF NEOPLASMS	Date Report Requested: 10/25/2019 Time Report Requested: 13:54:54 First Dose M/F: 02/17/11 / 02/18/11 Lab: BAT		
Test Type: CHRONIC		Di(2-ethylhe			
Route: DOSED FEED		CAS Numb			
Species/Strain: RATS/HSD Harlan Sprague Dawley RATS FEMALE					
	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
Tumor Summary for Females					
Total Animals with Primary Neoplasms (b)	41	46	39	45	43
Total Primary Neoplasms	79	80	68	71	75
Total Animals with Benign Neoplasms	37	44	37	37	29
Total Benign Neoplasms	63	70	61	54	49
Total Animals with Malignant Neoplasms	16	14	7	15	24
Total Malignant Neoplasms	16	14	7	17	26
Total Animals with Metastatic Neoplasms	3	6	2	7	4
Total Metastatic Neoplasms	4	13	2	26	14
Total Animals with Malignant Neoplasms Uncertain Primary Site					
Total Animals with Neoplasms Uncertain- Benign or Malignant					
Total Uncertain Neoplasms					

*** END OF REPORT ***

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors