

NTP Experiment-Test: 98004-01
Study Type: SUBCHRON 90-DAY
Route: GAVAGE

NONNEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
HEXACHLOROBENZENE

Report: PEIRPT09
Date: 10/23/02
Time: 10:20:35

Final#1/Rats

Facility: Battelle Columbus Laboratory

Chemical CAS #: 118-74-1

Lock Date: 01/17/02

Cage Range: All

Reasons For Removal: All

Removal Date Range: All

Treatment Groups: Include All

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	T (*) O A L
	9	9	9	9	9	9	9	9	9	9		
	3	3	3	3	3	3	3	3	3	3		
SPRAGUE-DAWLEY RATS FEMALE	0	0	0	0	0	0	0	0	0	0		
0 MG/KG	0	0	0	0	0	0	0	0	0	0		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	1	1		
	1	2	3	4	5	6	7	8	9	0		
GENITAL SYSTEM												
Ovary	+ + + + + + + + + +										10	
Corpus Luteum, Cyst	1 1										2 1.0	
Uterus	+ + + + + + + + + +										10	
Endometrium, Hyperplasia, Cystic	3										1 3.0	
Vagina	+ + + + + + + + + +										10	
HEMATOPOIETIC SYSTEM												
Spleen	+ + + + + + + + + +										10	
Hematopoietic Cell Proliferation	1 1 1 1 1 1 1 1 1 1										3 1.0	
Pigmentation, Hemosiderin	1 1 1 1 1 1 1 1 1 1										10 1.0	
Thymus	+ + + + + + + + + +										10	
Cyst	X										1	
INTEGUMENTARY SYSTEM												
Mammary Gland	+ + + + + + + + + +										10	
Hyperplasia	1 1										2 1.0	
Skin	+ + + + + + + + + +										10	
MUSCULOSKELETAL SYSTEM												
None												
NERVOUS SYSTEM												
None												
RESPIRATORY SYSTEM												
Lung	+ + + + + + + + + +										10	

* : Total animals with tissue examined microscopically; total animals with lesion and mean severity grade
 + : Tissue examined microscopically
 X : Lesion present but not qualified
 I : Insufficient tissue
 M : Missing tissue
 A : Autolysis precludes examination
 BLANK : Not examined
 1-4 : Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	T (*) O T A L	
	9	9	9	9	9	9	9	9	9	9	8		
	3	3	3	3	3	3	3	3	3	3	5		
SPRAGUE-DAWLEY RATS FEMALE	0	0	0	0	0	0	0	0	0	0	0		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0		
0.03	1	1	1	1	1	1	1	1	1	1	2		
MG/KG	1	2	3	4	5	6	7	8	9	0			
ALIMENTARY SYSTEM													
Intestine Small, Duodenum	+										1		
Liver	+ + + + + + + + + +										10		
Clear Cell Focus	X										1		
Infiltration Cellular, Mixed Cell	1			1	1	1	1			1		6 1.0	
Pancreas	+										1		
Stomach, Forestomach	+										1		
Tongue	+										1		
Tooth	+ + + + + + + + + +										10		
CARDIOVASCULAR SYSTEM													
None													
ENDOCRINE SYSTEM													
Adrenal Cortex	+										1		
Adrenal Medulla	+										1		
Pituitary Gland	+										1		
Thyroid Gland	+ + + + + + + + + +										10		
Ultimobranchial Cyst	X X X										3		
GENERAL BODY SYSTEM													
None													
GENITAL SYSTEM													

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	9	9	9	9	9	9	9	9	9	8													
	3	3	3	3	3	3	3	3	3	5													
SPRAGUE-DAWLEY RATS FEMALE	0	0	0	0	0	0	0	0	0	0													
ANIMAL ID	0	0	0	0	0	0	0	0	0	0													
0.03	1	1	1	1	1	1	1	1	1	2													
MG/KG	1	2	3	4	5	6	7	8	9	0													
GENITAL SYSTEM - cont																							
Ovary											+	1											
Uterus											+	1											
Vagina											+	1											
HEMATOPOIETIC SYSTEM																							
Spleen											+	+	+	+	+	+	+	+	+	+	10		
Hematopoietic Cell Proliferation																					4	1.0	
Pigmentation, Hemosiderin											1	1	1	1	1	1					8	1.0	
Thymus											+	+	+	+	+	+	+	+	+	+	10		
Atrophy																					4	1	4.0
INTEGUMENTARY SYSTEM																							
Mammary Gland											+	+	+	+	+	+	+	+	+	+	10		
Hyperplasia																					2	2	2.0
Skin											+	+	+	+	+	+	+	+	+	+	10		
MUSCULOSKELETAL SYSTEM																							
None																							
NERVOUS SYSTEM																							
None																							
RESPIRATORY SYSTEM																							
Lung											+	+	+	+	+	+	+	+	+	+	10		
Inflammation, Chronic																					1	1	1.0
Nose																					+	1	
SPECIAL SENSES SYSTEM																							
None																							

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	9	9	9	9	9	9	9	9	9	9	8		
	3	3	3	3	3	3	3	3	3	3	5		
SPRAGUE-DAWLEY RATS FEMALE	0	0	0	0	0	0	0	0	0	0	0		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0		
0.03	1	1	1	1	1	1	1	1	1	1	2		
MG/KG	1	2	3	4	5	6	7	8	9	0			
URINARY SYSTEM													
Kidney												1	
Nephropathy												1 1.0	
Cortex, Mineralization												1 2.0	
Papilla, Mineralization												1 1.0	

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	9	9	9	9	9	9	9	9	9	9	9		
	3	3	3	3	3	3	3	3	3	3	3		
SPRAGUE-DAWLEY RATS FEMALE	0	0	0	0	0	0	0	0	0	0	0		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0		
0.1	2	2	2	2	2	2	2	2	2	2	3		
MG/KG	1	2	3	4	5	6	7	8	9	0			
ALIMENTARY SYSTEM													
Liver	+	+	+	+	+	+	+	+	+	+	+	10	
Clear Cell Focus					X							1	
Infiltration Cellular, Mixed Cell	1			1		1	1			1		5 1.0	
Tooth	+	+	+	+	+	+	+	+	+	+	+	10	
CARDIOVASCULAR SYSTEM													
None													
ENDOCRINE SYSTEM													
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	10	
Ultimobranchial Cyst				X		X			X			3	
GENERAL BODY SYSTEM													
None													
GENITAL SYSTEM													
None													
HEMATOPOIETIC SYSTEM													
Spleen	+	+	+	+	+	+	+	+	+	+	+	10	
Hematopoietic Cell Proliferation	1	2		2					1			4 1.5	
Pigmentation, Hemosiderin	1	1	1	1	1	1	2	1	1	1		10 1.1	
Thymus	+	+	+	+	+	+	+	+	+	+	+	10	
INTEGUMENTARY SYSTEM													
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	10	
Hyperplasia								1				1 1.0	

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	3	3	3	3	3	3	3	3	3	3	3		
	0	0	0	0	0	0	0	0	0	0	0		
SPRAGUE-DAWLEY RATS FEMALE	0	0	0	0	0	0	0	0	0	0	0		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0		
0.3	3	3	3	3	3	3	3	3	3	4			
MG/KG	1	2	3	4	5	6	7	8	9	0			
ALIMENTARY SYSTEM													
Liver	+ + + + + + + + + + +											10	
Hematopoietic Cell Proliferation	3											1 3.0	
Hepatodiaphragmatic Nodule	X											1	
Infiltration Cellular, Mixed Cell	1	1	1	1	1	1	1	1	1	1		9 1.0	
Tooth	+ + + + + + + + + + +											10	
CARDIOVASCULAR SYSTEM													
None													
ENDOCRINE SYSTEM													
Thyroid Gland	+ + + + + + + + + + +											10	
Ultimobranchial Cyst	X X											2	
GENERAL BODY SYSTEM													
None													
GENITAL SYSTEM													
None													
HEMATOPOIETIC SYSTEM													
Spleen	+ + + + + + + + + + +											10	
Hematopoietic Cell Proliferation	1 1 1											3 1.0	
Pigmentation, Hemosiderin	1	1	1	1	1	1	1	1	2	1		10 1.1	
Thymus	+ + + + + + + + + + +											10	
INTEGUMENTARY SYSTEM													
Mammary Gland	+ + + + + + + + + + +											10	

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	9	9	9	9	9	9	9	9	9	9	9		
	3	3	3	3	3	3	3	3	3	3	3		
SPRAGUE-DAWLEY RATS FEMALE	0	0	0	0	0	0	0	0	0	0	0		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0		
1.0	4	4	4	4	4	4	4	4	4	5			
MG/KG	1	2	3	4	5	6	7	8	9	0			
ALIMENTARY SYSTEM													
Liver	+ + + + + + + + + +											10	
Infiltration Cellular, Mixed Cell	1 1 1 1 1 1 2 1											6 1.2	
Tooth	+ + + + + + + + + +											10	
Incisor, Degeneration	1 1 1 1 1											5 1.0	
CARDIOVASCULAR SYSTEM													
None													
ENDOCRINE SYSTEM													
Thyroid Gland	+ + + + + + + + + +											10	
GENERAL BODY SYSTEM													
None													
GENITAL SYSTEM													
None													
HEMATOPOIETIC SYSTEM													
Spleen	+ + + + + + + + + +											10	
Hematopoietic Cell Proliferation	1 1 1 1 1 1 1 1											4 1.0	
Pigmentation, Hemosiderin	1 1 1 1 1 1 1 1 1 1											10 1.0	
Thymus	+ + + + + + + + + +											10	
INTEGUMENTARY SYSTEM													
Mammary Gland	+ + + + + + + + + +											10	
Hyperplasia	1 1											2 1.0	
Skin	+ + + + + + + + + +											10	
MUSCULOSKELETAL SYSTEM													
None													

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	9	9	9	9	9	9	9	9	9	9	
	3	3	3	3	3	3	3	3	3	3	
SPRAGUE-DAWLEY RATS FEMALE	0	0	0	0	0	0	0	0	0	0	T (*)
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	O
1.0	0	0	0	0	0	0	0	0	0	0	T
MG/KG	4	4	4	4	4	4	4	4	4	5	A
	1	2	3	4	5	6	7	8	9	0	L
NERVOUS SYSTEM											
None											
RESPIRATORY SYSTEM											
Lung	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic				1		2	2	1	1	1	7 1.3
Alveolar Epithelium, Hyperplasia						1	1				2 1.0
Bronchiole, Hyperplasia						1	1				2 1.0
SPECIAL SENSES SYSTEM											
None											
URINARY SYSTEM											
None											

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	9	9	9	9	9	9	9	9	9	9	9		
	3	3	3	3	3	3	3	3	3	3	3		
SPRAGUE-DAWLEY RATS FEMALE	0	0	0	0	0	0	0	0	0	0	0		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0		
3.0	5	5	5	5	5	5	5	5	5	5	6		
MG/KG	1	2	3	4	5	6	7	8	9	0			
ALIMENTARY SYSTEM													
Liver	+ + + + + + + + + +											10	
Clear Cell Focus												1	
Hematopoietic Cell Proliferation	1											1 1.0	
Hepatodiaphragmatic Nodule	X											1	
Infiltration Cellular, Mixed Cell	2	2		2	2	2	2	1	1	2		9 1.8	
Tooth	+ + + + + + + + + +											10	
Incisor, Degeneration	2	2	2	1	2	1	1	1	1	2		10 1.5	
CARDIOVASCULAR SYSTEM													
Blood Vessel	+											1	
ENDOCRINE SYSTEM													
Adrenal Cortex	+											1	
Adrenal Medulla	+											1	
Thyroid Gland	+ + + + + + + + + +											9	
GENERAL BODY SYSTEM													
None													
GENITAL SYSTEM													
None													
HEMATOPOIETIC SYSTEM													
Spleen	+ + + + + + + + + +											10	
Hematopoietic Cell Proliferation	1			1		1	1	2	2			6 1.3	
Pigmentation, Hemosiderin	1	1	1	1	1	1	1	1	1	1		10 1.0	

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	9	9	9	9	9	9	9	9	9	9	9		
	3	3	3	3	3	3	3	3	3	3	3		
SPRAGUE-DAWLEY RATS FEMALE	0	0	0	0	0	0	0	0	0	0	0		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0		
3.0	5	5	5	5	5	5	5	5	5	5	6		
MG/KG	1	2	3	4	5	6	7	8	9	0			
HEMATOPOIETIC SYSTEM - cont													
Thymus	+	+	+	+	+	+	+	+	+	+	+	10	
INTEGUMENTARY SYSTEM													
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	10	
Hyperplasia				1	1							2 1.0	
Skin	+	+	+		+	+	+	+	+	+		9	
Hair Follicle, Inflammation, Chronic													
Active, Focal		1										1 1.0	
MUSCULOSKELETAL SYSTEM													
None													
NERVOUS SYSTEM													
None													
RESPIRATORY SYSTEM													
Lung	+	+	+	+	+	+	+	+	+	+		10	
Inflammation, Chronic	1	1	2		2	1		2	2	2		8 1.6	
Alveolus, Inflammation, Suppurative	1											1 1.0	
SPECIAL SENSES SYSTEM													
None													
URINARY SYSTEM													
None													

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	9	9	9	9	9	9	9	9	9	9	9		
	3	3	3	3	3	3	3	3	3	3	3		
SPRAGUE-DAWLEY RATS FEMALE	0	0	0	0	0	0	0	0	0	0	0		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0		
10.0	6	6	6	6	6	6	6	6	6	7	7		
MG/KG	1	2	3	4	5	6	7	8	9	0	0		
ALIMENTARY SYSTEM													
Liver	+ + + + + + + + + + +											10	
Hematopoietic Cell Proliferation	1											1 1.0	
Infiltration Cellular, Mixed Cell	2	2	2	2	2	1	2	1	2			10 1.8	
Hepatocyte, Hypertrophy	1	1	1	2	1	1	1	1		1		9 1.1	
Tooth	+ + + + + + + + + + +											10	
Incisor, Degeneration	1	2	2	2	2	3	3	2	2	2		10 2.1	
CARDIOVASCULAR SYSTEM													
None													
ENDOCRINE SYSTEM													
Adrenal Cortex	+ + + + + + + + + + +											2	
Thyroid Gland	+ + + + + + + + + + +											10	
Ultimobranchial Cyst	X X											2	
GENERAL BODY SYSTEM													
None													
GENITAL SYSTEM													
None													
HEMATOPOIETIC SYSTEM													
Spleen	+ + + + + + + + + + +											10	
Hematopoietic Cell Proliferation	2	2	1		1		2					5 1.6	
Hyperplasia, Lymphoid	1	1		1	1	1		1				6 1.0	
Pigmentation, Hemosiderin	1	1	1		1		1	1	1	1		8 1.0	
Thymus	+ + + + + + + + + + +											10	

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	3	3	3	3	3	3	3	3	3	3	3		
SPRAGUE-DAWLEY RATS FEMALE	0	0	0	0	0	0	0	0	0	0	0		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0		
10.0	6	6	6	6	6	6	6	6	6	7	7		
MG/KG	1	2	3	4	5	6	7	8	9	0	0		
INTEGUMENTARY SYSTEM													
Mammary Gland	+ + + + + + + + + +											10	
Hyperplasia	1 2 1											3 1.3	
Skin	+ + + + + + + + + +											10	
Dermis, Infiltration Cellular, Mononuclear Cell	1											1 1.0	
MUSCULOSKELETAL SYSTEM													
None													
NERVOUS SYSTEM													
None													
RESPIRATORY SYSTEM													
Lung	+ + + + + + + + + +											10	
Inflammation, Chronic	2 2 1 2 2 2 2 2 1 1											10 1.7	
Bronchiole, Hyperplasia	1 1											2 1.0	
Trachea	+											1	
Degeneration	2											1 2.0	
SPECIAL SENSES SYSTEM													
None													
URINARY SYSTEM													
None													

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 X : Lesion present but not qualified A : Autolysis precludes examination 1) Minimal 3) Moderate
 I : Insufficient tissue BLANK : Not examined 2) Mild 4) Marked

NTP Experiment-Test: 98004-01
 Study Type: SUBCHRON 90-DAY
 Route: GAVAGE

NONNEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 HEXACHLOROBENZENE

Report: PEIRPT09
 Date: 10/23/02
 Time: 10:20:35

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	T (*) O T A L	
	9	9	9	9	9	9	9	9	9	9	9		
	3	3	3	3	3	3	3	3	3	3	3		
SPRAGUE-DAWLEY RATS FEMALE	0	0	0	0	0	0	0	0	0	0	0		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0		
25.0	7	7	7	7	7	7	7	7	7	8			
MG/KG	1	2	3	4	5	6	7	8	9	0			
ALIMENTARY SYSTEM													
Intestine Small, Duodenum	+ + + + + + + + + + +											10	
Liver	+ + + + + + + + + + +											10	
Infiltration Cellular, Mixed Cell	2	2	2	2	2	2	2	2	2	2	2	10 2.0	
Vacuolization Cytoplasmic, Focal			1	1								2 1.0	
Hepatocyte, Hypertrophy	1	1	1	1	1	2	1	2	2	1		10 1.3	
Pancreas	+ + + + + + + + + + +											10	
Stomach, Forestomach	+ + + + + + + + + + +											10	
Tongue	+ + + + + + + + + + +											10	
Tooth	+ + + + + + + + + + +											10	
Incisor, Degeneration	2	3	3	3	3	3	3	3	3	3	3	10 2.9	
CARDIOVASCULAR SYSTEM													
None													
ENDOCRINE SYSTEM													
Adrenal Cortex	+ + + + + + + + + + +											10	
Adrenal Medulla	+ + + + + + + + + + +											10	
Pituitary Gland	+ + + + + + + + + + +											10	
Thyroid Gland	+ + + + + + + + + + +											10	
Ultimobranchial Cyst			1	X		X						3 1.0	
GENERAL BODY SYSTEM													
None													

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NONNEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 HEXACHLOROBENZENE

Report: PEIRPT09
 Date: 10/23/02
 Time: 10:20:35

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	T (*) O T A L
	9	9	9	9	9	9	9	9	9	9		
	3	3	3	3	3	3	3	3	3	3		
SPRAGUE-DAWLEY RATS FEMALE	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	
25.0	7	7	7	7	7	7	7	7	7	8		
MG/KG	1	2	3	4	5	6	7	8	9	0		
GENITAL SYSTEM												
Ovary	+	+	+	+	+	+	+	+	+	+	+	10
Corpus Luteum, Cyst											X	1
Uterus	+	+	+	+	+	+	+	+	+	+	+	10
Endometrium, Hyperplasia, Cystic				1		2						2 1.5
Vagina	+	+	+	+	+	+	+	+	+	+	+	10
HEMATOPOIETIC SYSTEM												
Spleen	+	+	+	+	+	+	+	+	+	+	+	10
Hematopoietic Cell Proliferation			1	2		2	2	2		2		6 1.8
Hyperplasia, Lymphoid	1	1	1		1	1	1	1	1			8 1.0
Pigmentation, Hemosiderin	1	1		1	1	1	1	1	1	1		9 1.0
Thymus	+	+	+	+	+	+	+	+	+	+	+	10
Atrophy	1		1	1								3 1.0
Cyst											X	1
INTEGUMENTARY SYSTEM												
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	10
Hyperplasia	1	2	1	2	1	1	1	1	1	1		10 1.2
Skin	+	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Suppurative	2	3	2		3	3	2	3	2	2		9 2.4
Ulcer			1		2	1	2	2	1	2		7 1.6
MUSCULOSKELETAL SYSTEM												
None												
NERVOUS SYSTEM												
None												

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