

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

NEOPLASMS BY INDIVIDUAL ANIMAL
HEXACHLOROBENZENE

Report: PEIRPT04
Date: 10/23/02
Time: 10:19:05

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

Note: Animals arranged according to CID number

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DAY ON TEST	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 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	0	1	
	1	2	3	4	5	6	7	8	9	0	
ALIMENTARY SYSTEM											
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	10
Oral Mucosa				+	+				+		3
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Tongue	+	+	+	+	+	+	+	+	+	+	10
Tooth	+	+	+	+	+	+	+	+	+	+	10
CARDIOVASCULAR SYSTEM											
None											
ENDOCRINE SYSTEM											
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10
GENERAL BODY SYSTEM											
None											
GENITAL SYSTEM											

* : Total animals with tissue examined microscopically; total animals with tumor
 + : Tissue examined microscopically
 X : Lesion present
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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	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
0 MG/KG	0	0	0	0	0	0	0	0	0	1	
	1	2	3	4	5	6	7	8	9	0	
GENITAL SYSTEM - cont											
Ovary	+	+	+	+	+	+	+	+	+	+	10
Uterus	+	+	+	+	+	+	+	+	+	+	10
Vagina	+	+	+	+	+	+	+	+	+	+	10
HEMATOPOIETIC SYSTEM											
Spleen	+	+	+	+	+	+	+	+	+	+	10
Thymus	+	+	+	+	+	+	+	+	+	+	10
INTEGUMENTARY SYSTEM											
Mammary Gland	+	+	+	+	+	+	+	+	+	+	10
Skin	+	+	+	+	+	+	+	+	+	+	10
MUSCULOSKELETAL SYSTEM											
None											
NERVOUS SYSTEM											
None											
RESPIRATORY SYSTEM											
Lung	+	+	+	+	+	+	+	+	+	+	10
Nose	+	+	+	+	+	+	+	+	+	+	10
SPECIAL SENSES 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		
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	0	1		
	1	2	3	4	5	6	7	8	9	0		
URINARY SYSTEM												
Kidney	+	+	+	+	+	+	+	+	+	+	10	
SYSTEMIC LESIONS												
Multiple Organs	+	+	+	+	+	+	+	+	+	+	10	

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0	T (*) O T A L
	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	0	0	0	0	0	0	0	0	0	0	
MG/KG	1	1	1	1	1	1	1	1	1	2	
	1	2	3	4	5	6	7	8	9	0	
ALIMENTARY SYSTEM											
Intestine Small, Duodenum	+										1
Liver	+ + + + + + + + + +										10
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
GENERAL BODY SYSTEM											
None											
GENITAL SYSTEM											
Ovary	+										1

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0	T (*) O T A L	
	9	9	9	9	9	9	9	9	9	8		
	3	3	3	3	3	3	3	3	3	5		
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0	0	0	0	0	0	0	0	0	0		
0.03 MG/KG	0	0	0	0	0	0	0	0	0	0		
	1	1	1	1	1	1	1	1	1	2		
	1	2	3	4	5	6	7	8	9	0		
GENITAL SYSTEM - cont												
Uterus											1	
Vagina											1	
HEMATOPOIETIC SYSTEM												
Spleen	+ + + + + + + + + +										10	
Thymus	+ + + + + + + + + +										10	
INTEGUMENTARY SYSTEM												
Mammary Gland	+ + + + + + + + + +										10	
Basal Cell Carcinoma											1	
Skin	+ + + + + + + + + +										10	
MUSCULOSKELETAL SYSTEM												
None												
NERVOUS SYSTEM												
None												
RESPIRATORY SYSTEM												
Lung	+ + + + + + + + + +										10	
Nose											1	
SPECIAL SENSES SYSTEM												
None												

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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	O
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	T
0.03	1	1	1	1	1	1	1	1	1	2	A
MG/KG	1	2	3	4	5	6	7	8	9	0	L
URINARY SYSTEM											
Kidney	+										1
SYSTEMIC LESIONS											
Multiple Organs	+ + + + + + + + + +										10

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	9	9	9	9	9	9	9	9	9	9	O
	3	3	3	3	3	3	3	3	3	3	T
SPRAGUE-DAWLEY RATS FEMALE	0	0	0	0	0	0	0	0	0	0	A
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	L
0.1	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
Tooth	+ + + + + + + + + +										10
CARDIOVASCULAR SYSTEM											
None											
ENDOCRINE SYSTEM											
Thyroid Gland	+ + + + + + + + + +										10
GENERAL BODY SYSTEM											
None											
GENITAL SYSTEM											
None											
HEMATOPOIETIC SYSTEM											
Spleen	+ + + + + + + + + +										10
Thymus	+ + + + + + + + + +										10
INTEGUMENTARY SYSTEM											
Mammary Gland	+ + + + + + + + + +										10
Skin	+ + + + + + + + + +										9
MUSCULOSKELETAL SYSTEM											
None											
NERVOUS 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		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0		
0.1	2	2	2	2	2	2	2	2	2	3		
MG/KG	1	2	3	4	5	6	7	8	9	0		
RESPIRATORY SYSTEM												
Lung	+ + + + + + + + + +										10	
SPECIAL SENSES SYSTEM												
None												
URINARY SYSTEM												
None												
SYSTEMIC LESIONS												
Multiple Organs	+ + + + + + + + + +										10	

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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	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
0.3	0	0	0	0	0	0	0	0	0	0	
MG/KG	3	3	3	3	3	3	3	3	3	4	
	1	2	3	4	5	6	7	8	9	0	
ALIMENTARY SYSTEM											
Liver	+	+	+	+	+	+	+	+	+	+	10
Tooth	+	+	+	+	+	+	+	+	+	+	10
CARDIOVASCULAR SYSTEM											
None											
ENDOCRINE SYSTEM											
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10
GENERAL BODY SYSTEM											
None											
GENITAL SYSTEM											
None											
HEMATOPOIETIC SYSTEM											
Spleen	+	+	+	+	+	+	+	+	+	+	10
Thymus	+	+	+	+	+	+	+	+	+	+	10
INTEGUMENTARY SYSTEM											
Mammary Gland	+	+	+	+	+	+	+	+	+	+	10
Skin	+	+	+	+	+	+	+	+	+	+	10
MUSCULOSKELETAL SYSTEM											
None											
NERVOUS 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		
	0	0	0	0	0	0	0	0	0	0		
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		
0.3	3	3	3	3	3	3	3	3	3	4		
MG/KG	1	2	3	4	5	6	7	8	9	0		
RESPIRATORY SYSTEM												
Lung	+ + + + + + + + + +										10	
SPECIAL SENSES SYSTEM												
None												
URINARY SYSTEM												
None												
SYSTEMIC LESIONS												
Multiple Organs	+ + + + + + + + + +										10	

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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	
ANIMAL ID	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
Tooth	+ + + + + + + + + +										10
CARDIOVASCULAR SYSTEM											
None											
ENDOCRINE SYSTEM											
Thyroid Gland	+ + + + + + + + + +										10
GENERAL BODY SYSTEM											
None											
GENITAL SYSTEM											
None											
HEMATOPOIETIC SYSTEM											
Spleen	+ + + + + + + + + +										10
Thymus	+ + + + + + + + + +										10
INTEGUMENTARY SYSTEM											
Mammary Gland	+ + + + + + + + + +										10
Skin	+ + + + + + + + + +										10
MUSCULOSKELETAL SYSTEM											
None											
NERVOUS 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		
ANIMAL ID	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		
RESPIRATORY SYSTEM												
Lung	+	+	+	+	+	+	+	+	+	+	10	
SPECIAL SENSES SYSTEM												
None												
URINARY SYSTEM												
None												
SYSTEMIC LESIONS												
Multiple Organs	+	+	+	+	+	+	+	+	+	+	10	

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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 ANIMAL ID	0	0	0	0	0	0	0	0	0	0		
3.0 MG/KG	0	0	0	0	0	0	0	0	0	0		
	5	5	5	5	5	5	5	5	5	6		
	1	2	3	4	5	6	7	8	9	0		
ALIMENTARY SYSTEM												
Liver	+ + + + + + + + + +										10	
Tooth	+ + + + + + + + + +										10	
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	
Thymus	+ + + + + + + + + +										10	
INTEGUMENTARY SYSTEM												
Mammary Gland	+ + + + + + + + + +										10	

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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		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0		
3.0	5	5	5	5	5	5	5	5	5	6		
MG/KG	1	2	3	4	5	6	7	8	9	0		
INTEGUMENTARY SYSTEM - cont												
Skin	+	+	+		+	+	+	+	+	+	9	
MUSCULOSKELETAL SYSTEM												
None												
NERVOUS SYSTEM												
None												
RESPIRATORY SYSTEM												
Lung	+	+	+	+	+	+	+	+	+	+	10	
SPECIAL SENSES SYSTEM												
None												
URINARY SYSTEM												
None												
SYSTEMIC LESIONS												
Multiple Organs	+	+	+	+	+	+	+	+	+	+	10	

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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 ANIMAL ID	0	0	0	0	0	0	0	0	0	0		
10.0 MG/KG	0	0	0	0	0	0	0	0	0	0		
	6	6	6	6	6	6	6	6	6	7		
	1	2	3	4	5	6	7	8	9	0		
ALIMENTARY SYSTEM												
Liver	+ + + + + + + + + +										10	
Tooth	+ + + + + + + + + +										10	
CARDIOVASCULAR SYSTEM												
None												
ENDOCRINE SYSTEM												
Adrenal Cortex	+ + + + + + + + + +										2	
Thyroid Gland	+ + + + + + + + + +										10	
GENERAL BODY SYSTEM												
None												
GENITAL SYSTEM												
None												
HEMATOPOIETIC SYSTEM												
Spleen	+ + + + + + + + + +										10	
Thymus	+ + + + + + + + + +										10	
INTEGUMENTARY SYSTEM												
Mammary Gland	+ + + + + + + + + +										10	
Skin	+ + + + + + + + + +										10	
MUSCULOSKELETAL SYSTEM												
None												

* : Total animals with tissue examined microscopically; total animals with tumor
 + : Tissue examined microscopically
 X : Lesion present
 I : Insufficient tissue
 M : Missing tissue
 A : Autolysis precludes evaluation
 BLANK : Not examined microscopically

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

NEOPLASMS BY INDIVIDUAL ANIMAL
 HEXACHLOROBENZENE

Report: PEIRPT04
 Date: 10/23/02
 Time: 10:19:05

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		
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		
NERVOUS SYSTEM													
None													
RESPIRATORY SYSTEM													
Lung	+ + + + + + + + + +											10	
Trachea	+											1	
SPECIAL SENSES SYSTEM													
None													
URINARY SYSTEM													
None													
SYSTEMIC LESIONS													
Multiple Organs	+ + + + + + + + + +											10	

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 Study Type: SUBCHRON 90-DAY
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 HEXACHLOROBENZENE

Report: PEIRPT04
 Date: 10/23/02
 Time: 10:19:05

DAY ON TEST	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	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
SPRAGUE-DAWLEY RATS FEMALE	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
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Tongue	+	+	+	+	+	+	+	+	+	+	10
Tooth	+	+	+	+	+	+	+	+	+	+	10
CARDIOVASCULAR SYSTEM											
None											
ENDOCRINE SYSTEM											
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10
GENERAL BODY SYSTEM											
None											
GENITAL SYSTEM											
Ovary	+	+	+	+	+	+	+	+	+	+	10

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 HEXACHLOROBENZENE

Report: PEIRPT04
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DAY ON TEST	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	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
25.0	0	0	0	0	0	0	0	0	0	0	
MG/KG	7	7	7	7	7	7	7	7	7	8	
	1	2	3	4	5	6	7	8	9	0	
GENITAL SYSTEM - cont											
Uterus	+	+	+	+	+	+	+	+	+	+	10
Vagina	+	+	+	+	+	+	+	+	+	+	10
HEMATOPOIETIC SYSTEM											
Spleen	+	+	+	+	+	+	+	+	+	+	10
Thymus	+	+	+	+	+	+	+	+	+	+	10
INTEGUMENTARY SYSTEM											
Mammary Gland	+	+	+	+	+	+	+	+	+	+	10
Skin	+	+	+	+	+	+	+	+	+	+	10
MUSCULOSKELETAL SYSTEM											
None											
NERVOUS SYSTEM											
None											
RESPIRATORY SYSTEM											
Lung	+	+	+	+	+	+	+	+	+	+	10
Nose	+	+	+	+	+	+	+	+	+	+	10
SPECIAL SENSES SYSTEM											
None											
URINARY SYSTEM											

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DAY ON TEST		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		
ANIMAL ID		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		
URINARY SYSTEM - cont													
Kidney		+ + + + + + + + + +										10	
SYSTEMIC LESIONS													
Multiple Organs		+ + + + + + + + + +										10	

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 END OF REPORT
