

Experiment Number: 92003-02
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS
ABRIDGED) (a)**

Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:00:41
First Dose M/F: NA / NA
Lab: NIEHS

C Number: C92003
Lock Date: 04/27/1994
Cage Range: All
Date Range: All
Reasons For Removal: All
Removal Date Range: All
Treatment Groups: All
Study Gender: Both
PWG Approval Date: NONE

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First Dose M/F: NA / NA

Lab: NIEHS

B6C3F1 Mouse MALE	7M	9M
Disposition Summary		
Animals Initially In Study	70	70
Early Deaths		
Moribund Sacrifice	1	
Natural Death	15	9
Survivors		
Accidentally Killed		1
Moribund Sacrifice		1
Natural Death	16	9
Terminal Sacrifice	38	50
Animals Examined Microscopically	60	65

ALIMENTARY SYSTEM

Intestine Large, Cecum	(1)	(0)
Intestine Small, Jejunum	(1)	(0)
Liver	(57)	(62)
Fibrous Histiocytoma, Metastatic, Uncertain Primary Site		1 (2%)
Hemangiosarcoma	3 (5%)	2 (3%)
Hepatoblastoma	1 (2%)	
Hepatocellular Adenoma	10 (18%)	19 (31%)
Hepatocellular Adenoma, Multiple	1 (2%)	5 (8%)
Hepatocellular Carcinoma	17 (30%)	4 (6%)
Hepatocellular Carcinoma, Multiple	1 (2%)	1 (2%)
Mesentery	(1)	(3)
Pancreas	(48)	(59)
Acinus, Carcinoma		1 (2%)
Stomach, Forestomach	(1)	(0)
Stomach, Glandular	(1)	(0)

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B6C3F1 Mouse MALE	7M	9M
CARDIOVASCULAR SYSTEM		
Heart	(57)	(64)
Carcinoma, Metastatic, Pancreas		1 (2%)
ENDOCRINE SYSTEM		
Adrenal Cortex	(45)	(46)
Adenoma	1 (2%)	
Capsule, Adenoma		1 (2%)
Capsule, Fibrous Histiocytoma, Metastatic, Uncertain Primary Site		1 (2%)
Fibrous Histiocytoma, Metastatic, Uncertain Primary Site		1 (2%)
Adrenal Medulla	(39)	(43)
Fibrous Histiocytoma, Metastatic, Uncertain Primary Site		1 (2%)
Islets, Pancreatic	(51)	(60)
Adenoma, Multiple	1 (2%)	
Pituitary Gland	(42)	(48)
Thyroid Gland	(49)	(56)
Follicular Cel, Adenoma		1 (2%)
GENERAL BODY SYSTEM		
Tissue NOS	(1)	(0)
Carcinoma	1 (100%)	
GENITAL SYSTEM		
Preputial Gland	(1)	(0)
Seminal Vesicle	(39)	(26)
Testes	(57)	(62)

HEMATOPOIETIC SYSTEM

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B6C3F1 Mouse MALE	7M	9M
Lymph Node, Mandibular	(44)	(56)
Mast Cell Tumor Malignant, Metastatic, Uncertain Primary Site	1 (2%)	
Lymph Node, Mesenteric	(45)	(53)
Spleen	(49)	(55)
Fibrous Histiocytoma, Metastatic, Uncertain Primary Site		1 (2%)
Hemangiosarcoma		3 (5%)
Thymus	(11)	(13)
INTEGUMENTARY SYSTEM		
Mammary Gland	(0)	(1)
Skin	(2)	(3)
Melanoma Malignant		1 (33%)
MUSCULOSKELETAL SYSTEM		
None		
NERVOUS SYSTEM		
Brain	(0)	(1)
RESPIRATORY SYSTEM		
Lung	(58)	(63)
Alveolar/Bronchiolar Adenoma	13 (22%)	13 (21%)
Alveolar/Bronchiolar Adenoma, Multiple	1 (2%)	5 (8%)
Alveolar/Bronchiolar Carcinoma	3 (5%)	6 (10%)
Carcinoma, Metastatic, Liver	1 (2%)	
Hepatocellular Carcinoma, Metastatic, Liver	3 (5%)	1 (2%)
Sarcoma, Multiple	1 (2%)	
Pleura	(1)	(0)

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B6C3F1 Mouse MALE	7M	9M
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung	1 (100%)	
SPECIAL SENSES SYSTEM		
Eye	(0)	(1)
Harderian Gland	(0)	(3)
Adenoma		2 (67%)
Carcinoma		1 (33%)
Zymbal's Gland	(1)	(0)
URINARY SYSTEM		
Kidney	(53)	(61)
Cortex, Renal Tubule, Carcinoma		1 (2%)
Fibrous Histiocytoma, Metastatic, Uncertain Primary Site		1 (2%)
Urinary Bladder	(50)	(59)
SYSTEMIC LESIONS		
Multiple Organ	*(60)	*(65)
Lymphoma Malignant	2 (3%)	2 (3%)
Mesothelioma Malignant	1 (2%)	

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First Dose M/F: NA / NA

Lab: NIEHS

B6C3F1 Mouse MALE	7M	9M
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Tumor Summary for MALE		
Total Animals with Primary Neoplasms (b)	42	46
Total Primary Neoplasms	57	68
Total Animals with Benign Neoplasms	23	36
Total Benign Neoplasms	27	46
Total Animals with Malignant Neoplasms	25	18
Total Malignant Neoplasms	30	22
Total Animals with Metastatic Neoplasms	6	3
Total Metastatic Neoplasms	6	8
Total Animals with Malignant Neoplasms Uncertain Primary Site	1	1
Total Animals with Neoplasms Uncertain - Benign or Malignant		
Total Uncertain Neoplasms		

END OF MALE DATA

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First Dose M/F: NA / NA

Lab: NIEHS

B6C3F1 Mouse FEMALE	7F	9F
Disposition Summary		
Animals Initially In Study	70	70
Early Deaths		
Natural Death	14	7
Survivors		
Moribund Sacrifice	2	
Natural Death	5	9
Terminal Sacrifice	49	54
Animals Examined Microscopically	62	67
ALIMENTARY SYSTEM		
Intestine Small, Jejunum	(1)	(0)
Liver	(60)	(62)
Carcinoma, Metastatic, Islets, Pancreatic		1 (2%)
Hemangiosarcoma	2 (3%)	2 (3%)
Hemangiosarcoma, Metastatic, Spleen		1 (2%)
Hepatocellular Adenoma	15 (25%)	11 (18%)
Hepatocellular Adenoma, Multiple	12 (20%)	6 (10%)
Hepatocellular Carcinoma	8 (13%)	7 (11%)
Hepatocellular Carcinoma, Multiple		1 (2%)
Mesentery	(15)	(12)
Pancreas	(54)	(57)
CARDIOVASCULAR SYSTEM		
Heart	(62)	(64)
Ventricle, Carcinoma, Metastatic, Skin		1 (2%)
ENDOCRINE SYSTEM		
Adrenal Cortex	(52)	(52)

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Lab: NIEHS

B6C3F1 Mouse FEMALE	7F	9F
Carcinoma		1 (2%)
Adrenal Medulla	(45)	(45)
Pheochromocytoma Benign	1 (2%)	
Islets, Pancreatic	(53)	(58)
Adenoma	1 (2%)	1 (2%)
Carcinoma		1 (2%)
Pituitary Gland	(47)	(52)
Adenoma	4 (9%)	1 (2%)
Pars Distalis, Adenoma	4 (9%)	1 (2%)
Thyroid Gland	(54)	(60)
Bilateral, Follicular Cel, Adenoma		1 (2%)
Follicle, Adenoma	2 (4%)	
Follicular Cel, Adenoma		2 (3%)
GENERAL BODY SYSTEM		
Tissue NOS	(3)	(2)
Thoracic, Hemangiosarcoma	1 (33%)	
Thoracic, Sarcoma		1 (50%)
GENITAL SYSTEM		
Ovary	(52)	(59)
Cystadenoma	3 (6%)	7 (12%)
Uterus	(58)	(63)
Carcinoma	1 (2%)	1 (2%)
Leiomyoma	1 (2%)	
Vagina	(1)	(0)
HEMATOPOIETIC SYSTEM		
Lymph Node, Mandibular	(49)	(54)
Lymph Node, Mesenteric	(43)	(51)

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* Number of animals with any tissue examined microscopically

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First Dose M/F: NA / NA

Lab: NIEHS

B6C3F1 Mouse FEMALE	7F	9F
Plasma Cell Tumor Malignant		1 (2%)
Spleen	(55)	(61)
Hemangiosarcoma	2 (4%)	1 (2%)
Thymus	(20)	(25)
Thymoma Benign		1 (4%)
INTEGUMENTARY SYSTEM		
Mammary Gland	(0)	(1)
Carcinoma		1 (100%)
Skin	(4)	(7)
Pinna, Carcinoma		1 (14%)
Sarcoma	2 (50%)	2 (29%)
Sarcoma, Multiple		1 (14%)
Schwannoma Malignant	2 (50%)	
MUSCULOSKELETAL SYSTEM		
None		
NERVOUS SYSTEM		
None		
RESPIRATORY SYSTEM		
Lung	(60)	(64)
Alveolar/Bronchiolar Adenoma	4 (7%)	5 (8%)
Alveolar/Bronchiolar Adenoma, Multiple		1 (2%)
Alveolar/Bronchiolar Carcinoma	1 (2%)	3 (5%)
Carcinoma, Metastatic, Skin		1 (2%)
Hepatocellular Carcinoma, Metastatic, Liver	3 (5%)	1 (2%)
Osteosarcoma, Metastatic, Uncertain Primary Site		1 (2%)
Sarcoma, Metastatic, Skin		1 (2%)

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Lab: NIEHS

B6C3F1 Mouse FEMALE	7F	9F
SPECIAL SENSES SYSTEM		
Eye	(1)	(0)
Harderian Gland	(1)	(4)
Adenoma	1 (100%)	4 (100%)
URINARY SYSTEM		
Kidney	(56)	(62)
Sarcoma		1 (2%)
Urinary Bladder	(51)	(54)
SYSTEMIC LESIONS		
Multiple Organ	*(62)	*(67)
Lymphoma Malignant	2 (3%)	9 (13%)

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Lab: NIEHS

B6C3F1 Mouse FEMALE	7F	9F
<hr/>		
Tumor Summary for FEMALE		
Total Animals with Primary Neoplasms (b)	45	52
Total Primary Neoplasms	69	75
Total Animals with Benign Neoplasms	34	32
Total Benign Neoplasms	48	41
Total Animals with Malignant Neoplasms	17	26
Total Malignant Neoplasms	21	34
Total Animals with Metastatic Neoplasms	3	6
Total Metastatic Neoplasms	3	7
Total Animals with Malignant Neoplasms Uncertain Primary Site		1
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

* Number of animals with any tissue examined microscopically