

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

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:01:24
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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B6C3F1 Mouse Male 7M	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
		8	4	4	6	4	4	4	8	6	4	7	4	4	4	4	7	1	4	4	7	4	9	8	9	4	6	1	4	4	1	4
		1	2	4	5	8	0	1	4	6	9	0	1	3	4	0	1	2	5	6	8	9	1	2	0	5	8	0	2	7	0	1

Alimentary System

Intestine Large, Cecum									+																										
Intestine Small, Jejunum															+																				
Liver		+				+	+	+		+	+													A	+		+	+	+	+	+	+			
Hemangiosarcoma								X						X																					
Hepatoblastoma																																			
Hepatocellular Adenoma												X	X	X				X	X																
Hepatocellular Adenoma, Multiple									X																										
Hepatocellular Carcinoma		X										X		X														X	X						
Hepatocellular Carcinoma, Multiple																X																			
Mesentery									+																										
Pancreas		+				+	+	+		A	+			+	+			A	A	+	+	A	+	A	+		+	A	M	+	+	A	+		
Stomach, Forestomach																																			
Stomach, Glandular																																			

Cardiovascular System

Heart		+				+	+	+		+	+	+	+	+	+	+	+						A	+		+	A	+	+	+	+	+	
-------	--	---	--	--	--	---	---	---	--	---	---	---	---	---	---	---	---	--	--	--	--	--	---	---	--	---	---	---	---	---	---	---	--

Endocrine System

Adrenal Cortex Adenoma		+			M	+	+			+	+												A	+	A	+		+	M	M	+	+	A	+
Adrenal Medulla		+			M	+	+			A	+		M	+	+			+	A	+	+	A	+	A	+		+	M	M	+	+	A	+	
Islets, Pancreatic		+				+	+	+		A	+		+	+	+			+	A	+	+	A	M	A	+		+	+	M	+	+	+	+	

* ..Total animals with tissue examined microscopically; Total animals with tumor
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B6C3F1 Mouse Male 7M	DAY ON TEST																														
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	7	0	0	6	7	7	0	5	7	6	7	7	7	0	7	4	7	7	2	7	7	3	1	7	5	6	7	7	7	7
	3	3	1	1	6	3	3	1	8	3	5	3	3	3	1	0	7	3	3	8	3	2	2	3	3	2	6	3	3	2	3
	8	4	4	6	4	4	4	8	6	4	7	4	4	4	7	1	4	4	7	4	9	8	9	4	6	1	4	4	1	4	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
	0	0	0	0	0	1	1	1	1	1	2	2	2	2	3	3	3	3	3	3	4	5	6	6	6	7	7	7	8	8	
	1	2	4	5	8	0	1	4	6	9	2	1	3	4	0	1	2	5	6	8	9	1	2	0	5	8	0	2	7	0	

Adenoma, Multiple	X																																					
Pituitary Gland	M				M	+	+			+	M					+	+	+			+	M	+	+	+	+	M	+			+	A	+	+	+	A	+	
Thyroid Gland	+				+	+	+			A	+					+	+	+			+	A	+	+	A	M	A	+			+	A	M	+	+	M	+	
General Body System																																						
Tissue NOS																																						
Carcinoma																																						
Genital System																																						
Preputial Gland																																						
Seminal Vesicle	+				+	+	+			+											+	+																
Testes	+				+	+	+			+	+										+	+	+	+	+	+	A	+			+	A	+	+	+	+	+	
Hematopoietic System																																						
Lymph Node, Mandibular	+				+	M	+			M	+											+	A	+	+	A	+	M	+			+	A	M	+	+	M	+
Mast Cell Tumor Malignant, Metastatic, Uncertain Primary Site																																						
Lymph Node, Mesenteric	+				+	+	+			A	+											+	A	+	+	A	M	A	+			+	A	M	+	+	+	+
Spleen	+				+	+	+			A	+											+	M	+	+	A	+	A	+			+	A	A	+	+	+	+
Thymus	M				M	M	M			M	+											M	+	+	+	M	M	M	M			+	M	M	M	M	M	M
Integumentary System																																						
Skin																																						
Musculoskeletal System																																						

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B6C3F1 Mouse Male 7M	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	7	0	0	6	7	7	0	5	7	6	7	7	7	0	7	4	7	7	2	7	7	3	1	7	5	6	7	7	7	7	
		3	3	1	1	6	3	3	1	8	3	5	3	3	3	1	0	7	3	3	8	3	2	2	3	3	2	6	3	3	2	3	
		8	4	4	6	4	4	4	8	6	4	7	4	4	4	4	7	1	4	4	7	4	9	8	9	4	6	1	4	4	4	1	4
	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
		0	0	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	3	3	4	5	6	6	6	6	7	7	7	8	8		
		1	2	4	5	8	0	1	4	6	9	0	1	3	4	0	1	2	5	6	8	9	1	2	0	5	8	0	2	7	7	0	1

NONE

Nervous System

NONE

Respiratory System

Lung		+		+	+	+		+	+		+	+	+		+	+	+	+	+	A	+		+	A	+	+	+	+	+	+	+			
Alveolar/Bronchiolar Adenoma	X						X				X					X					X						X	X						
Alveolar/Bronchiolar Adenoma, Multiple																	X																	
Alveolar/Bronchiolar Carcinoma																					X												X	
Carcinoma, Metastatic, Liver																																		
Hepatocellular Carcinoma, Metastatic, Liver	X								X							X																		
Sarcoma, Multiple																																		X
Pleura																																		
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung																																		

Special Senses System

Zymbal's Gland																																			+
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Urinary System

Kidney		+		+	+	+		A	+		+	+	+		+	A	+	+	A	+	A	+		+	A	+	+	+	+	+	+	+	+
Urinary Bladder		+		+	+	+		A	+		+	+	+		A	A	+	+	A	+	A	+		+	A	M	+	+	+	+	+	+	

SYSTEMIC LESIONS

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B6C3F1 Mouse Male 7M	DAY ON TEST	ANIMAL ID																																																		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0													
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
		7	0	0	6	7	7	0	5	7	6	7	7	7	0	7	4	7	7	2	7	7	3	1	7	5	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7											
		3	3	1	1	6	3	3	1	8	3	5	3	3	3	1	0	7	3	3	8	3	2	2	3	3	2	6	3	3	2	3	3	2	6	3	3	2	3	3	3	3										
		8	4	4	6	4	4	4	8	6	4	7	4	4	4	7	1	4	4	7	4	9	8	9	4	6	1	4	4	4	4	1	4	4	1	4	4	1	4	4	4	4	4									
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3							
		0	0	0	0	0	1	1	1	1	1	2	2	2	2	2	3	3	3	3	3	3	4	5	6	6	7	7	7	8	8																					
		1	2	4	5	8	0	1	4	6	9	0	1	3	4	0	1	2	5	6	8	9	1	2	0	5	8	0	2	7	8																					
Multiple Organ																																																				
Lymphoma Malignant																																																				
Mesothelioma Malignant																																																				

* ..Total animals with tissue examined microscopically; Total animals with tumor
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First Dose M/F: NA / NA

Lab: NIEHS

B6C3F1 Mouse Male 7M	DAY ON TEST																														
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	6	6	5	7	7	7	6	7	7	6	7	7	7	7	6	7	7	7	5	7	7	7	6	5	6	7	7	7	7		
	6	2	9	3	3	3	7	3	3	7	3	3	3	3	8	3	2	3	0	3	2	2	3	5	3	5	0	3	3		
	8	3	5	4	4	4	2	4	4	0	4	4	4	4	5	4	1	4	8	4	9	9	4	0	6	0	4	4	4		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		
	8	8	8	9	9	9	9	9	9	0	0	0	0	0	0	0	0	1	1	1	1	1	1	2	2	2	2	3	3		
	4	8	9	0	1	3	4	6	9	2	3	4	5	7	8	9	0	1	4	5	7	9	0	1	4	5	6	0	5	9	0

Alimentary System

Intestine Large, Cecum

Intestine Small, Jejunum

Liver

Hemangiosarcoma

Hepatoblastoma

Hepatocellular Adenoma

Hepatocellular Adenoma, Multiple

Hepatocellular Carcinoma

Hepatocellular Carcinoma, Multiple

Mesentery

Pancreas

Stomach, Forestomach

Stomach, Glandular

Cardiovascular System

Heart

Endocrine System

Adrenal Cortex

Adenoma

Adrenal Medulla

Islets, Pancreatic

	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	A	+	+		+	+	+	+	+
				X																											
	X												X	X																	
	X	X		X			X	X		X							X							X				X			
	+	+		+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	A	A	+	+		+	M	+	+	+
	M	+		+	+	+	+	+	+	M	+	+	+	M	+	+	M	+	M	+	+	A	+	M	+		+	M	+	+	+
	M	+		+	+	+	M	+	+	M	+	+	M	+	M	M	+	M	+	+	+	A	A	M	+		+	M	+	+	+
	+	+		+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+		+	M	+	+	+

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		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		6	6	5	7	7	7	6	7	7	6	7	7	7	7	6	7	7	7	5	7	7	7	6	5	6	7	7	7	7	
		6	2	9	3	3	3	7	3	3	7	3	3	3	3	8	3	2	3	0	3	2	2	3	5	3	5	0	3	3	
		8	3	5	4	4	4	2	4	4	0	4	4	4	4	5	4	1	4	8	4	9	9	4	0	6	0	4	4	4	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
		8	8	8	9	9	9	9	9	9	0	0	0	0	0	0	1	1	1	1	1	1	1	2	2	2	2	3	3	4	
		4	8	9	0	1	3	4	6	9	2	3	4	5	7	8	9	0	1	4	5	7	9	0	1	4	5	6	0	0	
Adenoma, Multiple																															
Pituitary Gland		+	M		+	+	+	+	+	+	M	+	+	M	+	+	+	+	+	+	+	A	+	M	M		+	A	+	M	+
Thyroid Gland		+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	A	+	M	+		+	+	+	+	+
General Body System																															
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Genital System																															
Preputial Gland																															
Seminal Vesicle		+			+	+	+	+		+		+	+		+	+	+		+	+		+		+					+	+	+
Testes		+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+		+	+	+	+	+
Hematopoietic System																															
Lymph Node, Mandibular		M	M		+	+	+	+	+	+	M	+	+	M	+	+	+	+	+	+	+	A	M	+	+		M	M	+	+	+
Mast Cell Tumor Malignant, Metastatic, Uncertain Primary Site																															X
Lymph Node, Mesenteric		+	+		+	+	+	+	+	+	M	+	+	+	+	M	+	+	+	+	+	A	A	M	+		+	M	+	M	+
Spleen		+	+		+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	M	+	A	A	+	+		+	A	+	+	+
Thymus		M	M		+	+	M	M	M	M	M	M	M	M	M	M	M	M	+	M	+	M	M	M	M		M	M	M	M	M
Integumentary System																															
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	6	6	5	7	7	7	6	7	7	6	7	7	7	7	6	7	7	7	5	7	7	7	6	5	6	7	7	7			
	6	2	9	3	3	3	7	3	3	7	3	3	3	3	8	3	2	3	0	3	2	2	3	5	3	5	0	3	3		
	8	3	5	4	4	4	2	4	4	0	4	4	4	4	5	4	1	4	8	4	9	9	4	0	6	0	4	4	4		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		
	8	8	8	9	9	9	9	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	4	8	9	0	1	3	4	6	9	2	3	4	5	7	8	9	0	1	4	5	7	9	0	1	4	5	6	0	5	9	0

NONE																																				
Nervous System																																				
NONE																																				
Respiratory System																																				
Lung	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Alveolar/Bronchiolar Adenoma																																				
Alveolar/Bronchiolar Adenoma, Multiple																																				
Alveolar/Bronchiolar Carcinoma																																				
Carcinoma, Metastatic, Liver																																				
Hepatocellular Carcinoma, Metastatic, Liver																																				
Sarcoma, Multiple																																				
Pleura																																				
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung																																				
Special Senses System																																				
Zymbal's Gland																																				
Urinary System																																				
Kidney	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Urinary Bladder	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
SYSTEMIC LESIONS																																				

* ..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

Experiment Number: 92003-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: NTP 90 diet study

CAS Number: DIET90

Date Report Requested: 10/21/2014

Time Report Requested: 22:01:25

First Dose M/F: NA / NA

Lab: NIEHS

B6C3F1 Mouse Male 7M	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		6	6	5	7	7	7	6	7	7	6	7	7	7	7	6	7	7	7	5	7	7	7	6	5	6	7	7	7	7	7	7	7	7	7	7	7	7	7		
		6	2	9	3	3	3	7	3	3	7	3	3	3	3	8	3	2	3	0	3	2	2	3	5	3	5	0	3	3	3	3	3	3	3	3	3	3	3		
	ANIMAL ID	8	3	5	4	4	4	2	4	4	0	4	4	4	4	5	4	1	4	8	4	9	9	4	0	6	0	4	4	4	4	4	4	4	4	4	4	4	4	4	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
	8	8	8	9	9	9	9	9	9	0	0	0	0	0	0	1	1	1	1	1	1	1	2	2	2	2	3	3	4	4	4	4	4	4	4	4	4	4	4	5	
	4	8	9	0	1	3	4	6	9	2	3	4	5	7	8	9	0	1	1	4	5	7	9	0	1	4	5	6	0	4	5	6	0	3	5	9	0	0	0		
Multiple Organ		+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymphoma Malignant																																									
Mesothelioma Malignant																																									

* ..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

Experiment Number: 92003-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: NTP 90 diet study

CAS Number: DIET90

Date Report Requested: 10/21/2014

Time Report Requested: 22:01:25

First Dose M/F: NA / NA

Lab: NIEHS

B6C3F1 Mouse Male	7M	DAY ON TEST	0	0	0	0	0	0	0	0
		7	7	7	7	7	0	7	7	
		3	3	3	3	3	1	3	3	
		4	4	4	4	4	4	4	4	
	ANIMAL ID	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	
		4	4	4	4	4	4	4	4	
		5	5	6	6	6	6	6	6	
		2	5	0	2	4	5	6	7	
*TOTALS										

Alimentary System

Intestine Large, Cecum									1
Intestine Small, Jejunum									1
Liver	+	+	+	+	+		+	+	57
Hemangiosarcoma									3
Hepatoblastoma									1
Hepatocellular Adenoma									10
Hepatocellular Adenoma, Multiple									1
Hepatocellular Carcinoma			X						17
Hepatocellular Carcinoma, Multiple									1
Mesentery									1
Pancreas	+	+	+	+	+		+	+	48
Stomach, Forestomach									1
Stomach, Glandular									1

Cardiovascular System

Heart	+	+	+	+	+		+	+	57
-------	---	---	---	---	---	--	---	---	----

Endocrine System

Adrenal Cortex	+	+	+	+	+		+	M	45
Adenoma									1
Adrenal Medulla	+	+	+	+	+		+	M	39
Islets, Pancreatic	+	+	+	+	+		+	+	51

* ..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

Experiment Number: 92003-02

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/21/2014

Test Type: CHRONIC

Test Compound: NTP 90 diet study

Time Report Requested: 22:01:25

Species/Strain: Mouse/B6C3F1

CAS Number: DIET90

First Dose M/F: NA / NA

Lab: NIEHS

B6C3F1 Mouse Male 7M	DAY ON TEST								ANIMAL ID	*TOTALS
	0 7 3 4	0 7 3 4	0 7 3 4	0 7 3 4	0 7 3 4	0 7 1 4	0 7 3 4	0 7 3 4		
	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	
	4	4	4	4	4	4	4	4	4	
	5	5	6	6	6	6	6	6	6	
	2	5	0	2	4	5	6	6	7	
Adenoma, Multiple										1
Pituitary Gland	M	+	+	+	M		+	I		42
Thyroid Gland	+	+	+	+	+		+	+		49
General Body System										
Tissue NOS										1
Carcinoma										1
Genital System										
Preputial Gland										1
Seminal Vesicle	+	+	+	+	+		+			39
Testes	+	+	+	+	+		+	+		57
Hematopoietic System										
Lymph Node, Mandibular	+	+	+	+	+		+	+		44
Mast Cell Tumor Malignant, Metastatic, Uncertain Primary Site										1
Lymph Node, Mesenteric	+	+	+	+	+		+	M		45
Spleen	+	+	+	+	+		+	+		49
Thymus	M	M	+	+	M		M	M		11
Integumentary System										
Skin				+						2
Musculoskeletal System										

* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

BLANK ..Not examined microscopically

I ..Insufficient tissue

Experiment Number: 92003-02

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/21/2014

Test Type: CHRONIC

Test Compound: NTP 90 diet study

Time Report Requested: 22:01:25

Species/Strain: Mouse/B6C3F1

CAS Number: DIET90

First Dose M/F: NA / NA

Lab: NIEHS

B6C3F1 Mouse Male	7M	DAY ON TEST	0	0	0	0	0	0	0	0
			7	7	7	7	7	0	7	7
			3	3	3	3	3	1	3	3
			4	4	4	4	4	4	4	4
	ANIMAL ID	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	
		4	4	4	4	4	4	4	4	
		5	5	6	6	6	6	6	6	
		2	5	0	2	4	5	6	7	
*TOTALS										

NONE										
Nervous System										
NONE										
Respiratory System										
Lung		+	+	+	+	+		+	+	58
Alveolar/Bronchiolar Adenoma			X					X	X	13
Alveolar/Bronchiolar Adenoma, Multiple										1
Alveolar/Bronchiolar Carcinoma										3
Carcinoma, Metastatic, Liver										1
Hepatocellular Carcinoma, Metastatic, Liver										3
Sarcoma, Multiple										1
Pleura										1
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung										1
Special Senses System										
Zymbal's Gland										1
Urinary System										
Kidney		+	+	+	+	+		+	+	53
Urinary Bladder		+	+	+	+	+		+	+	50
SYSTEMIC LESIONS										

* ..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

Experiment Number: 92003-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: NTP 90 diet study

CAS Number: DIET90

Date Report Requested: 10/21/2014

Time Report Requested: 22:01:25

First Dose M/F: NA / NA

Lab: NIEHS

B6C3F1 Mouse Male
7M

DAY ON TEST	0	0	0	0	0	0	0	0	
	7	7	7	7	7	0	7	7	
	3	3	3	3	3	1	3	3	
	4	4	4	4	4	4	4	4	
ANIMAL ID	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	
	4	4	4	4	4	4	4	4	
	5	5	6	6	6	6	6	6	
	2	5	0	2	4	5	6	7	
									*TOTALS
Multiple Organ	+	+	+	+	+		+	+	60
Lymphoma Malignant									2
Mesothelioma Malignant									1

* ..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

Experiment Number: 92003-02

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/21/2014

Test Type: CHRONIC

Test Compound: NTP 90 diet study

Time Report Requested: 22:01:25

Species/Strain: Mouse/B6C3F1

CAS Number: DIET90

First Dose M/F: NA / NA

Lab: NIEHS

B6C3F1 Mouse Male 9M	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		7	7	7	7	0	7	7	7	6	7	6	7	7	7	7	7	6	7	6	7	7	7	7	7	7	5	7
ANIMAL ID		3	3	1	3	1	1	2	3	4	3	0	3	3	3	3	3	1	3	5	3	3	3	3	1	7	3	3
		5	5	7	5	6	3	1	5	5	5	9	5	5	5	5	4	5	8	5	5	5	5	0	7	5	5	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
		0	0	0	0	1	1	2	2	2	2	2	3	3	4	4	4	4	4	5	5	5	5	5	6	6	6	6
		0	3	6	7	7	8	5	6	7	8	9	3	7	0	2	3	4	5	6	0	1	3	4	9	1	2	3

Alimentary System

Liver	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Fibrous Histiocytoma, Metastatic, Uncertain Primary Site					X																																				
Hemangiosarcoma																																							X		
Hepatocellular Adenoma	X	X	X	X		X	X		X						X		X	X			X	X															X				
Hepatocellular Adenoma, Multiple											X												X																		
Hepatocellular Carcinoma				X															X																						
Hepatocellular Carcinoma, Multiple																																									
Mesentery																																									
Pancreas	+	+	+	+		+	+	+	A	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Acinus, Carcinoma																																									

Cardiovascular System

Heart	+	+	+	+		+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Carcinoma, Metastatic, Pancreas																																									

Endocrine System

Adrenal Cortex	+	+	+	+		+	+	+	M	+	M	+	M	M	+	M	+	M	+	M	+	M	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Capsule, Adenoma																																									
Capsule, Fibrous Histiocytoma, Metastatic, Uncertain Primary Site						X																																			
Fibrous Histiocytoma, Metastatic, Uncertain Primary Site						X																																			

* ..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

Experiment Number: 92003-02

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/21/2014

Test Type: CHRONIC

Test Compound: NTP 90 diet study

Time Report Requested: 22:01:26

Species/Strain: Mouse/B6C3F1

CAS Number: DIET90

First Dose M/F: NA / NA

Lab: NIEHS

B6C3F1 Mouse Male 9M	DAY ON TEST																														
	0 7 3 5	0 7 3 5	0 7 1 7	0 7 3 5	0 7 1 6	0 7 1 3	0 7 2 1	0 7 3 5	0 7 4 5	0 7 3 5	0 7 0 9	0 7 3 5	0 7 3 5	0 7 3 5	0 7 3 5	0 7 3 5	0 7 3 5	0 7 3 5	0 7 3 5	0 7 3 5	0 7 3 5	0 7 3 5	0 7 3 5	0 7 3 5	0 7 3 5	0 7 3 5	0 7 3 5	0 7 3 5			
ANIMAL ID	0 0 3 0 0	0 0 3 0 0	0 0 3 0 0	0 0 3 0 0	0 0 3 1 1	0 0 3 2 2	0 0 3 2 2	0 0 3 2 2	0 0 3 2 2	0 0 3 2 2	0 0 3 2 2	0 0 3 3 3	0 0 3 3 3	0 0 3 3 3	0 0 3 3 3	0 0 3 3 3	0 0 3 3 3	0 0 3 3 3	0 0 3 3 3	0 0 3 3 3	0 0 3 3 3	0 0 3 3 3	0 0 3 3 3	0 0 3 3 3	0 0 3 3 3	0 0 3 3 3	0 0 3 3 3	0 0 3 3 3	0 0 3 3 3		
Adrenal Medulla	+	+	+	+		+	+	+	M	+	M	+	M	M	+	M	+	M	M	M	+	+	+	M	+	+	+	+	+	+	
Fibrous Histiocytoma, Metastatic, Uncertain Primary Site									X																						
Islets, Pancreatic	+	+	+	+		+	+	+	A	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	
Pituitary Gland	+	+	M	+		I	+	+	M	+	+	+	M	M	+	+	+	M	M	A	+	+	+	M	+	+	+	+	+	M	+
Thyroid Gland	+	+	+	+		+	+	+	A	+	+	+	M	+	M	M	+	A	+	M	+	+	+	+	+	+	+	+	+	+	
Follicular Cel, Adenoma									X																						
General Body System																															
NONE																															
Genital System																															
Seminal Vesicle			+	+				+							+	+	+	+		+	+								+		
Testes	+	+	+	+		+	+	+	A	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	
Hematopoietic System																															
Lymph Node, Mandibular	+	+	+	+		+	+	+	A	+	+	+	+	+	+	+	M	+	M	+	+	+	+	+	M	+	+	+	+	+	
Lymph Node, Mesenteric	+	+	+	+		+	+	+	A	+	A	+	+	+	+	+	+	M	M	M	+	+	+	+	+	+	+	+	+	+	
Spleen	+	+	+	+		+	M	+	A	+	+	+	+	+	+	+	M	+	A	M	+	+	+	+	+	+	+	+	+	+	
Fibrous Histiocytoma, Metastatic, Uncertain Primary Site									X																						
Hemangiosarcoma	X														X																
Thymus	+	+	M	+		M	M	+	M	M	M	M	+	M	+	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	
Integumentary System																															

* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

BLANK ..Not examined microscopically

I ..Insufficient tissue

Experiment Number: 92003-02

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/21/2014

Test Type: CHRONIC

Test Compound: NTP 90 diet study

Time Report Requested: 22:01:26

Species/Strain: Mouse/B6C3F1

CAS Number: DIET90

First Dose M/F: NA / NA

Lab: NIEHS

DAY ON TEST	ANIMAL ID																												
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B6C3F1 Mouse Male	7	7	7	7	0	7	7	7	6	7	6	7	7	7	7	7	6	7	6	7	7	7	7	7	7	7	7	7	7
9M	3	3	1	3	1	1	2	3	4	3	0	3	3	3	3	3	1	3	5	3	3	3	3	3	3	1	7	3	3
	5	5	7	5	6	3	1	5	5	5	9	5	5	5	5	5	4	5	8	5	5	5	5	5	0	7	5	5	5
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	0	0	0	0	1	1	2	2	2	2	3	3	4	4	4	4	4	4	5	5	5	5	5	6	6	6	6	6	7
	0	3	6	7	7	8	5	6	7	8	9	3	7	0	2	3	4	5	6	0	1	3	4	9	1	2	3	6	7

Mammary Gland																														
Skin																														
Melanoma Malignant																														
Musculoskeletal System																														
NONE																														
Nervous System																														
Brain																														
Respiratory System																														
Lung																														
Alveolar/Bronchiolar Adenoma																														
Alveolar/Bronchiolar Adenoma, Multiple																														
Alveolar/Bronchiolar Carcinoma																														
Hepatocellular Carcinoma, Metastatic, Liver																														
Special Senses System																														
Eye																														
Harderian Gland																														
Adenoma																														
Carcinoma																														
Urinary System																														
Kidney																														

* ..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

Experiment Number: 92003-02

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/21/2014

Test Type: CHRONIC

Test Compound: NTP 90 diet study

Time Report Requested: 22:01:27

Species/Strain: Mouse/B6C3F1

CAS Number: DIET90

First Dose M/F: NA / NA

Lab: NIEHS

B6C3F1 Mouse Male 9M	DAY ON TEST																													
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	6	7	0	7	7	7	7	7	5	7	7	7	7	7	7	7	7	6	7	7	4	0	7	7	7	7	7	6	7	7
	8	3	1	3	3	3	3	3	8	3	3	3	3	3	3	3	2	3	0	8	1	3	3	0	3	3	6	3	3	3
	3	5	7	5	5	5	5	8	5	5	5	5	5	5	5	5	3	5	1	9	4	5	5	4	5	5	5	5	5	5
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	7	8	8	8	9	9	9	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	4	4	4	4	4
	9	2	5	6	2	5	7	0	6	2	3	6	8	2	3	7	8													
Adrenal Medulla	M	+		+	M	M	+	+	A	+	+	+	+	M	+	M	+	+	M	+	M		+	+	M	M	+	+	+	+
Fibrous Histiocytoma, Metastatic, Uncertain Primary Site																														
Islets, Pancreatic	M	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pituitary Gland	+	+		+	M	+	+	+	M	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	M	M	
Thyroid Gland	M	+		+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Follicular Cel, Adenoma																														
General Body System																														
NONE																														
Genital System																														
Seminal Vesicle				+	+		+		+			+		+	+									+			+			+
Testes	+	+		+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hematopoietic System																														
Lymph Node, Mandibular	M	+		+	+	+	+	+	A	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymph Node, Mesenteric	M	+		+	+	+	+	+	M	+	+	+	+	M	+	M	+	A	+	+	+	+	+	+	+	+	+	+	+	+
Spleen	A	+		+	+	+	+	+	A	+	+	M	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+
Fibrous Histiocytoma, Metastatic, Uncertain Primary Site																														
Hemangiosarcoma																														
Thymus	M	M		M	M	M	+	M	A	M	M	+	M	M	M	M	M	M	M	M	M	+	M							
Integumentary System																														

* ..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

Experiment Number: 92003-02

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/21/2014

Test Type: CHRONIC

Test Compound: NTP 90 diet study

Time Report Requested: 22:01:27

Species/Strain: Mouse/B6C3F1

CAS Number: DIET90

First Dose M/F: NA / NA

Lab: NIEHS

B6C3F1 Mouse Male	9M	DAY ON TEST	0	0	0	0	0	0	0	0
			6	7	7	7	7	7	7	7
			3	3	3	3	3	3	3	3
			7	5	5	5	5	5	5	5
	ANIMAL ID	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	
		4	4	4	4	4	4	7	7	
		5	5	5	5	6	6	0	0	
		4	6	7	9	1	3	1	2	
*TOTALS										

Alimentary System

Liver	+	+	+	+	+	+	+	62
Fibrous Histiocytoma, Metastatic, Uncertain Primary Site								1
Hemangiosarcoma	X							2
Hepatocellular Adenoma		X		X				19
Hepatocellular Adenoma, Multiple						X		5
Hepatocellular Carcinoma								4
Hepatocellular Carcinoma, Multiple								1
Mesentery					+			3
Pancreas	A	+	+	+	+	+	+	59
Acinus, Carcinoma								1

Cardiovascular System

Heart	+	+	+	+	+	+	+	64
Carcinoma, Metastatic, Pancreas								1

Endocrine System

Adrenal Cortex	+	+	+	+	+	M	M	46
Capsule, Adenoma			X					1
Capsule, Fibrous Histiocytoma, Metastatic, Uncertain Primary Site								1
Fibrous Histiocytoma, Metastatic, Uncertain Primary Site								1

* ..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

Experiment Number: 92003-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: NTP 90 diet study

CAS Number: DIET90

Date Report Requested: 10/21/2014

Time Report Requested: 22:01:27

First Dose M/F: NA / NA

Lab: NIEHS

B6C3F1 Mouse Male 9M	DAY ON TEST	0	0	0	0	0	0	0	0	*TOTALS
	ANIMAL ID	6	7	7	7	7	7	7	7	
		3	3	3	3	3	3	3	3	
		7	5	5	5	5	5	5	5	
		0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	
		4	4	4	4	4	4	7	7	
		5	5	5	5	6	6	0	0	
		4	6	7	9	1	3	1	2	
Adrenal Medulla	A	+	+	+	+	M	M			43
Fibrous Histiocytoma, Metastatic, Uncertain Primary Site										1
Islets, Pancreatic	A	+	+	+	+	+	+			60
Pituitary Gland	A	+	+	+	+	+	M			48
Thyroid Gland	A	+	+	+	+	+	+			56
Follicular Cel, Adenoma										1
General Body System										
NONE										
Genital System										
Seminal Vesicle					+			+		26
Testes		+	+	+	+	+	+	+		62
Hematopoietic System										
Lymph Node, Mandibular	A	+	+	+	+	+	+			56
Lymph Node, Mesenteric	M	+	+	+	+	+	+			53
Spleen	A	+	+	+	+	+	+			55
Fibrous Histiocytoma, Metastatic, Uncertain Primary Site										1
Hemangiosarcoma										3
Thymus	M	+	M	M	M	M	M			13
Integumentary System										

* ..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

Experiment Number: 92003-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: NTP 90 diet study

CAS Number: DIET90

Date Report Requested: 10/21/2014

Time Report Requested: 22:01:27

First Dose M/F: NA / NA

Lab: NIEHS

B6C3F1 Mouse Male 9M	DAY ON TEST	0	0	0	0	0	0	0	0	*TOTALS
	ANIMAL ID	6	7	7	7	7	7	7	7	
		3	3	3	3	3	3	3	3	
		7	5	5	5	5	5	5	5	
		0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	
		4	4	4	4	4	4	7	7	
		5	5	5	5	6	6	0	0	
		4	6	7	9	1	3	1	2	
Mammary Gland										1
Skin										3
Melanoma Malignant										1
Musculoskeletal System										
NONE										
Nervous System										
Brain										1
Respiratory System										
Lung		+	+	+	+	+	+	+		63
Alveolar/Bronchiolar Adenoma		X		X	X					13
Alveolar/Bronchiolar Adenoma, Multiple						X	X			5
Alveolar/Bronchiolar Carcinoma			X				X			6
Hepatocellular Carcinoma, Metastatic, Liver										1
Special Senses System										
Eye										1
Harderian Gland										3
Adenoma										2
Carcinoma										1
Urinary System										
Kidney		+	+	+	+	+	+	+		61

* ..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

Experiment Number: 92003-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: NTP 90 diet study

CAS Number: DIET90

Date Report Requested: 10/21/2014

Time Report Requested: 22:01:27

First Dose M/F: NA / NA

Lab: NIEHS

**B6C3F1 Mouse Male
9M**

DAY ON TEST	0	0	0	0	0	0	0	0
	6	7	7	7	7	7	7	7
	3	3	3	3	3	3	3	3
	7	5	5	5	5	5	5	5
ANIMAL ID	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0
	4	4	4	4	4	4	7	7
	5	5	5	5	6	6	0	0
	4	6	7	9	1	3	1	2

***TOTALS**

Cortex, Renal Tubule, Carcinoma									1
Fibrous Histiocytoma, Metastatic, Uncertain Primary Site									1
Urinary Bladder	A	+	+	+	+	+	+		59
SYSTEMIC LESIONS									
Multiple Organ	+	+	+	+	+	+	+		64
Lymphoma Malignant									2

END OF MALE DATA

* ..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

Experiment Number: 92003-02

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/21/2014

Test Type: CHRONIC

Test Compound: NTP 90 diet study

Time Report Requested: 22:01:28

Species/Strain: Mouse/B6C3F1

CAS Number: DIET90

First Dose M/F: NA / NA

Lab: NIEHS

DAY ON TEST	ANIMAL ID																												
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B6C3F1 Mouse Female	7	7	7	5	7	7	7	7	5	5	7	7	7	0	7	6	7	7	7	7	6	7	6	1	6	7	7	7	7
7F	3	3	3	7	3	3	3	1	6	8	3	3	3	1	3	2	3	3	3	3	3	4	3	6	3	2	3	3	3
	6	6	6	0	6	6	7	7	0	8	6	6	7	0	6	3	6	6	6	6	4	6	5	9	8	6	1	6	6

Follicle, Adenoma																														
				X																										

General Body System

Tissue NOS +

Thoracic, Hemangiosarcoma

Genital System

Ovary	+	+	+	A	+	+	+	+	M	A	+	+	+		M	+	+	+	+	+		+	A	I	+		+	+	+	A
Cystadenoma												X										X								
Uterus	+	+	+	A	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+		+	A	+	+		+	+	+	+
Carcinoma																														
Leiomyoma																														X
Vagina																														

Hematopoietic System

Lymph Node, Mandibular	+	+	+	A	+	+	+	A	A	A	+	+	+		+	+	+	+	+	+		+	A	M	+		+	+	M	A
Lymph Node, Mesenteric	+	+	+	A	M	+	M	A	A	A	+	+	+		+	+	+	+	M	M		+	M	+	+		M	M	M	A
Spleen	+	+	+	A	+	+	+	A	M	A	+	+	+		+	+	+	+	+	+		+	M	+	+		+	+	+	A
Hemangiosarcoma																														
Thymus	M	+	M	M	+	+	M	M	M	A	+	M	M		M	M	+	M	+	M		+	M	M	M		+	+	M	M

Integumentary System

Skin																														
Sarcoma																														
Schwannoma Malignant																														

* ..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

Experiment Number: 92003-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: NTP 90 diet study

CAS Number: DIET90

Date Report Requested: 10/21/2014

Time Report Requested: 22:01:28

First Dose M/F: NA / NA

Lab: NIEHS

	DAY ON TEST																																			
B6C3F1 Mouse Female	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	5	7	7	7	7	5	5	7	7	7	0	7	6	7	7	7	7	6	7	6	1	6	7	7	7	7	7	7	7	7	7	7	7
	3	3	3	7	3	3	3	1	6	8	3	3	3	1	3	2	3	3	3	3	3	3	4	3	6	3	2	3	3	3	3	3	3	3	3	3
7F	6	6	6	0	6	6	7	7	0	8	6	6	7	0	6	3	6	6	6	6	4	6	5	9	8	6	1	6	6	6	6	6	6	8	8	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	6	7	7	7	7	7	7	8	8	8	8	9	9	9	9	0	0	0	0	0	1	2	2	2	2	3	3	3	4	4	4	4	4	5	5	
	8	1	2	3	5	6	9	0	1	5	8	0	2	5	6	1	3	7	9	5	0	2	2	3	6	1	2	3	1	5	7	7	0	0	0	

Lymphoma Malignant

X

* ..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

Experiment Number: 92003-02

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/21/2014

Test Type: CHRONIC

Test Compound: NTP 90 diet study

Time Report Requested: 22:01:28

Species/Strain: Mouse/B6C3F1

CAS Number: DIET90

First Dose M/F: NA / NA

Lab: NIEHS

B6C3F1 Mouse Female 7F	DAY ON TEST																												
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	7	7	7	7	7	6	7	7	7	6	7	7	7	7	7	1	6	7	7	7	7	6	7	4	7	7	7	7
	3	3	3	3	1	3	2	3	3	3	7	3	3	3	3	3	3	5	3	3	3	3	3	3	2	3	3	3	3
	9	7	6	6	4	6	3	7	6	6	6	6	6	6	6	6	9	3	6	7	6	6	4	7	1	6	7	6	6
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6
	5	5	5	5	6	6	6	6	6	7	7	8	8	9	9	9	9	9	9	0	0	0	0	0	0	0	1	1	1
	3	4	6	8	0	2	4	5	6	0	7	4	6	0	1	2	4	8	9	1	2	3	5	7	9	0	1	2	3

Alimentary System

Intestine Small, Jejunum

Liver +

Hemangiosarcoma X

Hepatocellular Adenoma X X X X X

Hepatocellular Adenoma, Multiple X X X X X X X X

Hepatocellular Carcinoma X X X X

Mesentery +

Pancreas + + + + + A + + + M + + + + + + + + + + + M + + + + + + + + + +

Cardiovascular System

Heart +

Endocrine System

Adrenal Cortex + + + + + + + + + M + + + + + + + + + + + M + + + + + M + + + +

Adrenal Medulla + M + + + A M + + M + + + + + + + + + + + A + + M M + + M + + +

Pheochromocytoma Benign X

Islets, Pancreatic Adenoma + + + + + A + + + M + + + + + + + + + + + M + + + + + + + + + +

Pituitary Gland Adenoma + + + M + M + + M + + + + + + + + + + + M I + + + + + M + + + +

Pars Distalis, Adenoma X X X

Thyroid Gland + + + + + A + + + M + + + + + + + + + + + M + + + + + + + + + +

* ..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

Experiment Number: 92003-02

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/21/2014

Test Type: CHRONIC

Test Compound: NTP 90 diet study

Time Report Requested: 22:01:29

Species/Strain: Mouse/B6C3F1

CAS Number: DIET90

First Dose M/F: NA / NA

Lab: NIEHS

		DAY ON TEST																																					
B6C3F1 Mouse Female 7F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	7	7	7	7	7	6	7	7	7	6	7	7	7	7	7	1	6	7	7	7	6	7	4	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
	3	3	3	3	1	3	2	3	3	3	7	3	3	3	3	3	3	5	3	3	3	3	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	9	7	6	6	4	6	3	7	6	6	6	6	6	6	6	6	9	3	6	7	6	6	4	7	1	6	7	6	7	6	7	6	7	6	6	6	6	6	
ANIMAL ID		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
		5	5	5	5	6	6	6	6	6	7	7	8	8	9	9	9	9	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	4	6	8	0	2	4	5	6	0	7	4	6	0	1	2	4	8	9	1	2	3	5	7	9	0	1	1	2	3	5	7	8	8	5	8		

Schwannoma Malignant

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

Lung		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Alveolar/Bronchiolar Adenoma				X											X																								X		
Alveolar/Bronchiolar Carcinoma																																									X
Hepatocellular Carcinoma, Metastatic, Liver												X																													

Special Senses System

- Eye
- Harderian Gland
- Adenoma

Urinary System

Kidney		+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Urinary Bladder		+	+	M	+	A	+	+	+	+	+	+	+	M	+	+	+	+	+	+	M	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

SYSTEMIC LESIONS

Multiple Organ		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
----------------	--	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

* ..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

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

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
Test Compound: NTP 90 diet study
CAS Number: DIET90

Date Report Requested: 10/21/2014
Time Report Requested: 22:01:29
First Dose M/F: NA / NA
Lab: NIEHS

B6C3F1 Mouse Female 7F	DAY ON TEST																																
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
	1	7	7	7	7	7	6	7	7	7	6	7	7	7	7	7	1	6	7	7	7	7	6	7	4	7	7	7	7	7	7	7	
	3	3	3	3	1	3	2	3	3	3	7	3	3	3	3	3	3	5	3	3	3	3	3	3	2	3	3	3	3	3	3	3	
	9	7	6	6	4	6	3	7	6	6	6	6	6	6	6	6	9	3	6	7	6	6	6	4	7	1	6	7	6	7	6	6	
ANIMAL ID		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6
		5	5	5	5	6	6	6	6	7	7	8	8	9	9	9	9	9	9	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	3	4	6	8	0	2	4	5	6	0	7	4	6	0	1	2	4	8	9	1	2	3	5	7	9	0	1	1	2	3	5	8	

Lymphoma Malignant

* ..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

Experiment Number: 92003-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: NTP 90 diet study

CAS Number: DIET90

Date Report Requested: 10/21/2014

Time Report Requested: 22:01:29

First Dose M/F: NA / NA

Lab: NIEHS

B6C3F1 Mouse Female 7F	DAY ON TEST	0	0	0	0	0	0	0	0
		7	0	7	7	7	7	0	7
	3	1	3	3	3	3	6	3	
	6	4	6	6	6	6	8	6	
ANIMAL ID	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	
	6	6	6	6	6	6	6	6	
	1	2	2	2	2	2	3	3	
	9	0	3	5	6	8	4	6	*TOTALS

Alimentary System

Intestine Small, Jejunum									1
Liver	+		+	+	+	+		+	60
Hemangiosarcoma									2
Hepatocellular Adenoma									15
Hepatocellular Adenoma, Multiple			X					X	12
Hepatocellular Carcinoma									8
Mesentery			+						15
Pancreas	+		+	+	+	+		+	54

Cardiovascular System

Heart	+		+	+	+	+		+	62
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Endocrine System

Adrenal Cortex	+		+	+	+	+		+	52
Adrenal Medulla	+		+	+	+	+		+	45
Pheochromocytoma Benign									1
Islets, Pancreatic	+		+	+	+	+		+	53
Adenoma									1
Pituitary Gland	M		+	+	+	+		+	47
Adenoma			X						4
Pars Distalis, Adenoma								X	4
Thyroid Gland	+		+	+	+	+		+	54

* ..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

Experiment Number: 92003-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: NTP 90 diet study

CAS Number: DIET90

Date Report Requested: 10/21/2014

Time Report Requested: 22:01:29

First Dose M/F: NA / NA

Lab: NIEHS

B6C3F1 Mouse Female 7F	DAY ON TEST								*TOTALS
	0	0	0	0	0	0	0	0	
	7	0	7	7	7	7	0	7	
	3	1	3	3	3	3	6	3	
	6	4	6	6	6	6	8	6	
ANIMAL ID		0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	
	6	6	6	6	6	6	6	6	
	1	2	2	2	2	2	3	3	
	9	0	3	5	6	8	4	6	
<hr/>									
Follicle, Adenoma									2
General Body System									
Tissue NOS									3
Thoracic, Hemangiosarcoma									1
Genital System									
Ovary	+	+	+	+	+	+	+	52	
Cystadenoma									3
Uterus	+	+	+	+	+	+	+	58	
Carcinoma									1
Leiomyoma									1
Vagina									1
Hematopoietic System									
Lymph Node, Mandibular	+	+	+	+	+	+	+	49	
Lymph Node, Mesenteric	M	+	+	+	+	+	M	43	
Spleen	+	+	+	+	+	+	+	55	
Hemangiosarcoma									2
Thymus	M	+	M	M	+	+	M	20	
Integumentary System									
Skin									4
Sarcoma									2
Schwannoma Malignant									2

* ..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

Experiment Number: 92003-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: NTP 90 diet study

CAS Number: DIET90

Date Report Requested: 10/21/2014

Time Report Requested: 22:01:29

First Dose M/F: NA / NA

Lab: NIEHS

B6C3F1 Mouse Female 7F	DAY ON TEST	0	0	0	0	0	0	0	0
		7	0	7	7	7	7	0	7
	3	1	3	3	3	3	6	3	
	6	4	6	6	6	6	8	6	
ANIMAL ID	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	
	6	6	6	6	6	6	6	6	
	1	2	2	2	2	2	3	3	
	9	0	3	5	6	8	4	6	*TOTALS

Schwannoma Malignant 2

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

Lung	+		+	+	+	+		+	60
Alveolar/Bronchiolar Adenoma									4
Alveolar/Bronchiolar Carcinoma									1
Hepatocellular Carcinoma, Metastatic, Liver									3

Special Senses System

Eye									1
Harderian Gland									1
Adenoma									1

Urinary System

Kidney	+		+	+	+	+		+	56
Urinary Bladder	+		+	+	+	+		+	51

SYSTEMIC LESIONS

Multiple Organ	+		+	+	+	+		+	62
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* ..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

Experiment Number: 92003-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: NTP 90 diet study

CAS Number: DIET90

Date Report Requested: 10/21/2014

Time Report Requested: 22:01:29

First Dose M/F: NA / NA

Lab: NIEHS

B6C3F1 Mouse Female	DAY ON TEST	0	0	0	0	0	0	0	0
		7	0	7	7	7	7	0	7
		3	1	3	3	3	3	6	3
		6	4	6	6	6	6	8	6
7F	ANIMAL ID	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0
		6	6	6	6	6	6	6	6
		1	2	2	2	2	2	3	3
		9	0	3	5	6	8	4	6
		*TOTALS							

Lymphoma Malignant

2

* ..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

Experiment Number: 92003-02

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/21/2014

Test Type: CHRONIC

Test Compound: NTP 90 diet study

Time Report Requested: 22:01:29

Species/Strain: Mouse/B6C3F1

CAS Number: DIET90

First Dose M/F: NA / NA

Lab: NIEHS

DAY ON TEST	B6C3F1 Mouse Female 9F																												
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	0	1	7	7	7	7	6	6	7	7	5	7	7	6	7	7	7	7	7	7	7	7	7	7	7	7	7
	3	3	7	2	3	3	3	3	9	7	3	3	6	3	3	6	3	3	3	3	3	3	3	3	3	3	3	3	3
	8	7	0	1	8	7	7	7	5	8	8	8	1	8	7	1	7	8	7	8	7	8	7	7	7	8	7	4	7
	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	6	7	7	8	8	8	9	9	9	9	9	0	0	0	0	1	1	1	1	1	1	1	1	2	2	2	2	3	3
	9	4	8	2	3	9	3	4	7	8	9	0	4	5	6	8	0	1	2	6	7	8	9	1	4	5	7	8	4

Alimentary System

Liver	+	+	+	+	+	+	+	+	A	+	+	+	A	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Carcinoma, Metastatic, Islets, Pancreatic									X																							
Hemangiosarcoma																						X										
Hemangiosarcoma, Metastatic, Spleen				X																												
Hepatocellular Adenoma						X	X																		X					X		
Hepatocellular Adenoma, Multiple												X									X	X										
Hepatocellular Carcinoma														X																	X	
Hepatocellular Carcinoma, Multiple																																
Mesentery								+	+				+							+				+							+	
Pancreas	+	+	+	+	+	+	+	+	M	M	+	+	A	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+

Cardiovascular System

Heart	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Ventricle, Carcinoma, Metastatic, Skin																X															

Endocrine System

Adrenal Cortex	+	+	+	+	+	+	+	+	M	+	+	+	A	M	+	+	+	+	+	+	+	+	+	+	+	M	+	M	+	+	+	+
Carcinoma																																
Adrenal Medulla	+	+	M	M	+	+	+	+	M	+	+	+	A	M	+	M	+	+	+	+	+	+	+	+	+	M	+	M	+	+	+	+
Islets, Pancreatic	+	+	+	+	+	+	+	+	M	+	+	+	A	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+
Adenoma																																X
Carcinoma										X																						

* ..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

Experiment Number: 92003-02

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/21/2014

Test Type: CHRONIC

Test Compound: NTP 90 diet study

Time Report Requested: 22:01:30

Species/Strain: Mouse/B6C3F1

CAS Number: DIET90

First Dose M/F: NA / NA

Lab: NIEHS

B6C3F1 Mouse Female 9F	DAY ON TEST																														
	0 7 3 8	0 7 3 7	0 7 3 0	0 1 2 1	0 7 3 3	0 7 3 3	0 7 3 3	0 7 3 3	0 7 9 7	0 6 7 5	0 6 7 3	0 7 3 8	0 7 3 8	0 5 6 1	0 7 3 3	0 7 3 3	0 6 3 3	0 7 3 3	0 7 3 3	0 7 3 3	0 7 3 3	0 7 3 3	0 7 3 3	0 7 3 3	0 7 3 3	0 7 3 3	0 5 7 4	0 7 3 7			
ANIMAL ID	0 0 4 6 9	0 0 4 7 4	0 0 4 7 8	0 0 4 8 2	0 0 4 8 3	0 0 4 8 9	0 0 4 9 3	0 0 4 9 4	0 0 4 9 7	0 0 4 8 8	0 0 4 9 9	0 0 4 9 9	0 0 4 9 9	0 0 5 0 0	0 0 5 0 0	0 0 5 0 0	0 0 5 0 0	0 0 5 0 0	0 0 5 0 0	0 0 5 0 0	0 0 5 0 0	0 0 5 0 0	0 0 5 0 0	0 0 5 0 0	0 0 5 0 0	0 0 5 0 0	0 0 5 0 0	0 0 5 0 0			
Pituitary Gland	+	+	+	+	+	+	M	+	M	M	+	+	A	+	+	+	+	+	+	M	+	+	M	+	M	M	+	M	M	+	+
Adenoma																															
Pars Distalis, Adenoma																															
Thyroid Gland	+	+	+	+	+	+	+	+	M	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Bilateral, Follicular Cel, Adenoma																															
Follicular Cel, Adenoma									X																						
General Body System																															
Tissue NOS																															
Thoracic, Sarcoma																															
Genital System																															
Ovary	+	+	M	+	+	+	+	+	M	+	+	+	A	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cystadenoma									X																						
Uterus	+	+	M	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Carcinoma																															
Hematopoietic System																															
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	M	+	+	+	M	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	M	+	+	+	A	+	+	M	M	+	+	+	+	+	+	M	M	+	+	+	M	+	+
Plasma Cell Tumor Malignant																															
Spleen	+	+	+	+	+	+	+	+	A	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+
Hemangiosarcoma																															
Thymus	M	+	+	M	M	+	+	M	M	M	M	M	M	M	M	M	M	M	M	+	+	+	M	M	M	+	M	M	+	M	M

* ..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

Experiment Number: 92003-02

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/21/2014

Test Type: CHRONIC

Test Compound: NTP 90 diet study

Time Report Requested: 22:01:30

Species/Strain: Mouse/B6C3F1

CAS Number: DIET90

First Dose M/F: NA / NA

Lab: NIEHS

	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B6C3F1 Mouse Female		7	7	0	1	7	7	7	7	6	6	7	7	5	7	7	6	7	7	7	7	7	7	7	7	7	7	7	7	5	7	7
9F		3	3	7	2	3	3	3	3	9	7	3	3	6	3	3	6	3	3	3	3	3	3	3	3	3	3	3	3	7	3	3
		8	7	0	1	8	7	7	7	5	8	8	1	8	7	1	7	8	7	8	7	8	7	7	7	8	7	4	7	7	7	
	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
		6	7	7	8	8	8	9	9	9	9	9	0	0	0	0	1	1	1	1	1	1	2	2	2	2	2	3	3	3	3	
		9	4	8	2	3	9	3	4	7	8	9	0	4	5	6	8	0	1	2	6	7	8	9	1	4	5	7	8	4	5	6

Thymoma Benign

Integumentary System

Mammary Gland

Carcinoma

Skin

Pinna, Carcinoma

Sarcoma

Sarcoma, Multiple

		+														+																						
																X																						
		X																																				

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

Lung

Alveolar/Bronchiolar Adenoma

Alveolar/Bronchiolar Adenoma, Multiple

Alveolar/Bronchiolar Carcinoma

Carcinoma, Metastatic, Skin

Hepatocellular Carcinoma, Metastatic, Liver

Osteosarcoma, Metastatic, Uncertain

Primary Site

		+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
													X																										
																			X																				

* ..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

Experiment Number: 92003-02

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/21/2014

Test Type: CHRONIC

Test Compound: NTP 90 diet study

Time Report Requested: 22:01:30

Species/Strain: Mouse/B6C3F1

CAS Number: DIET90

First Dose M/F: NA / NA

Lab: NIEHS

		DAY ON TEST																													
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		7	7	0	1	7	7	7	7	6	6	7	7	5	7	7	6	7	7	7	7	7	7	7	7	7	7	7	7	7	
		3	3	7	2	3	3	3	3	9	7	3	3	6	3	3	6	3	3	3	3	3	3	3	3	3	3	3	3	3	
		8	7	0	1	8	7	7	7	5	8	8	1	8	7	1	7	8	7	8	7	8	7	7	7	7	8	7	4	7	
B6C3F1 Mouse Female 9F	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
		6	7	7	8	8	8	9	9	9	9	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2
	9	4	8	2	3	9	3	4	7	8	9	0	4	5	6	8	0	1	2	6	7	8	9	1	4	5	7	8	4	5	6
Sarcoma, Metastatic, Skin		X																													
Special Senses System																															
Harderian Gland																															
Adenoma																															
Urinary System																															
Kidney		+ + + + + + + + A + + + A + + A +																													
Sarcoma																															
Urinary Bladder		+ + M + + M + + M + + + A + + A + + M + + + + + + M + + + + + + + +																													
SYSTEMIC LESIONS																															
Multiple Organ		+ +																													
Lymphoma Malignant		X X X X X X																													

* ..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

Experiment Number: 92003-02

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/21/2014

Test Type: CHRONIC

Test Compound: NTP 90 diet study

Time Report Requested: 22:01:30

Species/Strain: Mouse/B6C3F1

CAS Number: DIET90

First Dose M/F: NA / NA

Lab: NIEHS

B6C3F1 Mouse Female 9F	DAY ON TEST																												
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	3	3	3	3	3	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	7	7	7	7	7	1	8	8	7	8	7	8	7	8	7	4	8	7	7	7	7	6	7	7	7	7	7	6	7
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	3	3	4	4	4	5	5	5	5	5	6	6	6	7	7	7	8	8	8	8	8	8	9	0	0	0	0	1	1
	7	8	6	8	9	1	2	5	7	9	1	3	7	2	8	9	1	2	7	8	9	5	0	4	6	8	4	6	7

Alimentary System

Liver	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Carcinoma, Metastatic, Islets, Pancreatic																													
Hemangiosarcoma			X																										
Hemangiosarcoma, Metastatic, Spleen																													
Hepatocellular Adenoma							X		X			X			X			X										X	
Hepatocellular Adenoma, Multiple	X						X															X							
Hepatocellular Carcinoma													X		X								X		X		X		
Hepatocellular Carcinoma, Multiple																					X								
Mesentery													+	+		+						+	+			+			
Pancreas	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	M	+	+	+	+	+	+	+

Cardiovascular System

Heart	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Ventricle, Carcinoma, Metastatic, Skin																													

Endocrine System

Adrenal Cortex	+	+	M	M	+		+	+	+	+	+	+	+	+	+	+	+	+	M	+	M	+	+	+	+	M	A	M	+	+	+
Carcinoma																						X									
Adrenal Medulla	+	M	M	M	+		+	+	+	M	+	M	+	+	+	+	+	+	M	+	M	+	+	+	M	M	A	M	+	+	+
Islets, Pancreatic	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	M	+	+	+	+	+	+	+	
Adenoma																															
Carcinoma																															

* ..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

Experiment Number: 92003-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: NTP 90 diet study

CAS Number: DIET90

Date Report Requested: 10/21/2014

Time Report Requested: 22:01:30

First Dose M/F: NA / NA

Lab: NIEHS

DAY ON TEST	B6C3F1 Mouse Female 9F																															
	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07		
ANIMAL ID	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00		
Pituitary Gland Adenoma																																
Pars Distalis, Adenoma																																
Thyroid Gland Bilateral, Follicular Cel, Adenoma																																
Follicular Cel, Adenoma																																
General Body System																																
Tissue NOS Thoracic, Sarcoma																																
Genital System																																
Ovary Cystadenoma																																
Uterus Carcinoma																																
Hematopoietic System																																
Lymph Node, Mandibular																																
Lymph Node, Mesenteric Plasma Cell Tumor Malignant																																
Spleen Hemangiosarcoma																																
Thymus																																

* ..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

Experiment Number: 92003-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: NTP 90 diet study

CAS Number: DIET90

Date Report Requested: 10/21/2014

Time Report Requested: 22:01:30

First Dose M/F: NA / NA

Lab: NIEHS

B6C3F1 Mouse Female 9F	DAY ON TEST																												
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	3	3	3	3	3	2	3	3	3	3	3	3	3	3	3	3	3	3	3	7	3	3	3	3	9	3	3	3	3
	7	7	7	7	7	1	8	8	7	7	8	7	7	8	8	8	7	4	8	7	7	7	7	7	7	7	7	7	7
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6
	3	3	4	4	4	5	5	5	5	5	6	6	6	7	7	7	8	8	8	8	8	8	9	0	0	0	0	1	1
	7	8	6	8	9	1	2	5	7	9	1	3	7	2	8	9	1	2	7	8	8	9	5	0	4	6	8	4	6

Thymoma Benign	X																												
Integumentary System																													
Mammary Gland																													
Carcinoma																													
Skin																													
Pinna, Carcinoma																													
Sarcoma																													
Sarcoma, Multiple																													
Musculoskeletal System																													
NONE																													
Nervous System																													
NONE																													
Respiratory System																													
Lung	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Alveolar/Bronchiolar Adenoma		X												X					X										
Alveolar/Bronchiolar Adenoma, Multiple															X														
Alveolar/Bronchiolar Carcinoma				X						X																			X
Carcinoma, Metastatic, Skin																													
Hepatocellular Carcinoma, Metastatic, Liver																											X		
Osteosarcoma, Metastatic, Uncertain																													
Primary Site																													

* ..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

Experiment Number: 92003-02

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/21/2014

Test Type: CHRONIC

Test Compound: NTP 90 diet study

Time Report Requested: 22:01:31

Species/Strain: Mouse/B6C3F1

CAS Number: DIET90

First Dose M/F: NA / NA

Lab: NIEHS

	DAY ON TEST	0	0	0	0	0	0	0	0
B6C3F1 Mouse Female		6	7	7	6	4	6	7	7
		4	3	3	5	9	2	2	3
	9F	8	7	8	0	7	3	1	7
	ANIMAL ID	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0
		6	6	6	6	6	6	7	7
		2	2	2	3	3	3	0	0
		4	7	9	1	2	3	3	4
		*TOTALS							

Alimentary System

Liver		+	+	+	A	+	A	62
Carcinoma, Metastatic, Islets, Pancreatic								1
Hemangiosarcoma								2
Hemangiosarcoma, Metastatic, Spleen								1
Hepatocellular Adenoma			X					11
Hepatocellular Adenoma, Multiple								6
Hepatocellular Carcinoma								7
Hepatocellular Carcinoma, Multiple								1
Mesentery								12
Pancreas		M	+	+	M	+	A	57

Cardiovascular System

Heart		+	+	+	A	+	A	64
Ventricle, Carcinoma, Metastatic, Skin								1

Endocrine System

Adrenal Cortex		M	+	+	M	+	A	52
Carcinoma								1
Adrenal Medulla		M	+	+	M	+	A	45
Islets, Pancreatic		M	+	+	M	+	A	58
Adenoma								1
Carcinoma								1

* ..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

Experiment Number: 92003-02

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/21/2014

Test Type: CHRONIC

Test Compound: NTP 90 diet study

Time Report Requested: 22:01:31

Species/Strain: Mouse/B6C3F1

CAS Number: DIET90

First Dose M/F: NA / NA

Lab: NIEHS

B6C3F1 Mouse Female 9F	DAY ON TEST								ANIMAL ID		
	0 6 4 8	0 7 3 7	0 7 3 8	0 6 3 0	0 4 9 7	0 6 2 3	0 7 2 3	0 7 2 3			
	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0		
	6	6	6	6	6	6	7	7	7		
	2	2	2	3	3	3	0	0	0		
	4	7	9	1	2	3	3	4		*TOTALS	
Pituitary Gland	+	+	+	+	+	M					52
Adenoma											1
Pars Distalis, Adenoma											1
Thyroid Gland	M	+	+	A	+	A					60
Bilateral, Follicular Cel, Adenoma			X								1
Follicular Cel, Adenoma											2
General Body System											
Tissue NOS											2
Thoracic, Sarcoma											1
Genital System											
Ovary	M	+	+	A	+	A					59
Cystadenoma											7
Uterus	+	+	+	A	+	A					63
Carcinoma											1
Hematopoietic System											
Lymph Node, Mandibular	M	+	+	A	M	A					54
Lymph Node, Mesenteric	M	+	M	M	A	M					51
Plasma Cell Tumor Malignant											1
Spleen	+	+	+	A	+	A					61
Hemangiosarcoma											1
Thymus	M	M	+	M	M	M					25

* ..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

Experiment Number: 92003-02

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/21/2014

Test Type: CHRONIC

Test Compound: NTP 90 diet study

Time Report Requested: 22:01:31

Species/Strain: Mouse/B6C3F1

CAS Number: DIET90

First Dose M/F: NA / NA

Lab: NIEHS

B6C3F1 Mouse Female 9F	DAY ON TEST	0	0	0	0	0	0	0	0
		6	7	7	6	4	6	7	7
	4	3	3	5	9	2	2	3	
	8	7	8	0	7	3	1	7	
ANIMAL ID	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	
	6	6	6	6	6	6	7	7	
	2	2	2	3	3	3	0	0	
	4	7	9	1	2	3	3	4	*TOTALS

Thymoma Benign 1

Integumentary System

Mammary Gland 1
 Carcinoma 1
 Skin A 7
 Pinna, Carcinoma 1
 Sarcoma 2
 Sarcoma, Multiple 1

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

Lung + + + A + A 64
 Alveolar/Bronchiolar Adenoma X 5
 Alveolar/Bronchiolar Adenoma, Multiple 1
 Alveolar/Bronchiolar Carcinoma 3
 Carcinoma, Metastatic, Skin 1
 Hepatocellular Carcinoma, Metastatic, Liver 1
 Osteosarcoma, Metastatic, Uncertain X 1
 Primary Site

* ..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

Experiment Number: 92003-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: NTP 90 diet study

CAS Number: DIET90

Date Report Requested: 10/21/2014

Time Report Requested: 22:01:31

First Dose M/F: NA / NA

Lab: NIEHS

B6C3F1 Mouse Female 9F	DAY ON TEST								ANIMAL ID	
	0	0	0	0	0	0	0	0		
	6	7	7	6	4	6	7	7		
	4	3	3	5	9	2	2	3		
	8	7	8	0	7	3	1	7		
	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0		
	6	6	6	6	6	6	7	7		
	2	2	2	3	3	3	0	0		
	4	7	9	1	2	3	3	4		
	*TOTALS									
Sarcoma, Metastatic, Skin										1
Special Senses System										
Harderian Gland										4
Adenoma										4
Urinary System										
Kidney	+	+	+	+	+	A				62
Sarcoma				X						1
Urinary Bladder	M	+	+	A	+	A				54
SYSTEMIC LESIONS										
Multiple Organ	+	+	+	+	+					66
Lymphoma Malignant										9

** END OF REPORT **

* ..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