

Experiment Number: 96014 - 05

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

Date Report Requested: 03/05/2013

Test Type: CHRONIC

Water disinfection byproducts (Bromodichloroacetic acid)

Time Report Requested: 08:02:51

Route: DOSED WATER

CAS Number: 71133-14-7

First Dose M/F: 10/26/06 / 10/27/06

Species/Strain: RATS/F344/N Tac

Lab: BAT

F1\_RD\_Rev. 1

**NTP Study Number:**

C96014B

**Lock Date:**

11/17/2009

**Cage Range:**

ALL

**Date Range:**

ALL

**Reasons For Removal:**

25021 TSAC

25020 NATD

25019 MSAC

**Removal Date Range:**

ALL

**Treatment Groups:**

Include ALL

**Study Gender:**

Both

**TDMSE Version:**

3.0.1.1\_001

**PWG Approval Date:**

NONE

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First Dose M/F: 10/26/06 / 10/27/06

Species/Strain: RATS/F344/N Tac

Lab: BAT

Fischer 344-Taconic RATS MALE	0 mg/L	250 mg/L	500 mg/L	1000 mg/L
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**Disposition Summary**

<b>Animals Initially In Study</b>	<b>66</b>	<b>66</b>	<b>66</b>	<b>66</b>
<b>Early Deaths</b>				
<b>Moribund Sacrifice</b>	<b>26</b>	<b>23</b>	<b>20</b>	<b>27</b>
<b>Natural Death</b>	<b>5</b>	<b>6</b>	<b>5</b>	<b>4</b>
<b>Survivors</b>				
<b>Terminal Sacrifice</b>	<b>19</b>	<b>21</b>	<b>25</b>	<b>19</b>
<b>Animals Examined Microscopically</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>

## ALIMENTARY SYSTEM

Esophagus	(50)	(50)	(50)	(50)
Intestine Large, Cecum	(50)	(50)	(49)	(50)
Adenoma			1 (2%)	
Intestine Large, Colon	(50)	(50)	(50)	(50)
Adenoma			1 (2%)	1 (2%)
Intestine Large, Rectum	(50)	(50)	(50)	(50)
Adenoma				1 (2%)
Intestine Small, Duodenum	(50)	(50)	(49)	(50)
Intestine Small, Ileum	(50)	(50)	(49)	(50)
Intestine Small, Jejunum	(50)	(50)	(49)	(50)
Liver	(50)	(50)	(50)	(50)
Cholangiocarcinoma			1 (2%)	
Fibrous Histiocytoma	1 (2%)			
Hemangioma				1 (2%)
Hepatocellular Adenoma		1 (2%)	2 (4%)	
Osteosarcoma, Metastatic, Bone				1 (2%)
Mesentery	(7)	(4)	(9)	(10)
Oral Mucosa	(50)	(50)	(50)	(50)
Squamous Cell Carcinoma	1 (2%)			
Squamous Cell Papilloma			2 (4%)	1 (2%)
Pancreas	(50)	(50)	(49)	(50)
Adenoma, Mixed Cell				1 (2%)
Acinus, Adenoma	1 (2%)		2 (4%)	1 (2%)
Salivary Glands	(50)	(50)	(50)	(50)

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

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Species/Strain: RATS/F344/N Tac

Lab: BAT

Fischer 344-Taconic RATS MALE	0 mg/L	250 mg/L	500 mg/L	1000 mg/L
Stomach, Forestomach	(50)	(50)	(50)	(50)
Squamous Cell Papilloma	1 (2%)		1 (2%)	
Stomach, Glandular	(50)	(50)	(50)	(50)
Tongue	(50)	(50)	(50)	(50)
Squamous Cell Carcinoma			1 (2%)	1 (2%)
Squamous Cell Papilloma				1 (2%)
Tooth	(1)	(0)	(0)	(0)

## CARDIOVASCULAR SYSTEM

Blood Vessel	(50)	(50)	(50)	(50)
Heart	(50)	(50)	(50)	(50)
Atrium, Endocardium, Schwannoma Malignant				1 (2%)

## ENDOCRINE SYSTEM

Adrenal Cortex	(50)	(50)	(50)	(50)
Adenoma	2 (4%)		4 (8%)	
Carcinoma		1 (2%)		
Osteosarcoma, Metastatic, Bone				1 (2%)
Adrenal Medulla	(50)	(50)	(50)	(50)
Pheochromocytoma Benign	8 (16%)	7 (14%)	8 (16%)	11 (22%)
Pheochromocytoma Malignant		1 (2%)	2 (4%)	1 (2%)
Bilateral, Carcinoma, Metastatic, Thyroid Gland		1 (2%)		
Bilateral, Pheochromocytoma Benign	2 (4%)	1 (2%)	1 (2%)	
Islets, Pancreatic	(50)	(50)	(49)	(50)
Adenoma		3 (6%)	2 (4%)	
Parathyroid Gland	(49)	(48)	(46)	(44)
Pituitary Gland	(50)	(49)	(49)	(48)
Pars Distalis, Adenoma	26 (52%)	29 (59%)	26 (53%)	20 (42%)
Pars Distalis, Carcinoma		1 (2%)		
Thyroid Gland	(50)	(50)	(50)	(50)
Bilateral, C-cell, Adenoma	2 (4%)		1 (2%)	
C-cell, Adenoma	5 (10%)	9 (18%)	8 (16%)	8 (16%)
C-cell, Carcinoma	1 (2%)	1 (2%)		

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Lab: BAT

Fischer 344-Taconic RATS MALE	0 mg/L	250 mg/L	500 mg/L	1000 mg/L
Follicular Cell, Adenoma	1 (2%)	3 (6%)		2 (4%)
Follicular Cell, Carcinoma				2 (4%)

## GENERAL BODY SYSTEM

None

## GENITAL SYSTEM

Epididymis	(50)	(50)	(50)	(50)
Preputial Gland	(50)	(50)	(50)	(49)
Adenoma	2 (4%)	1 (2%)	5 (10%)	
Carcinoma	2 (4%)			1 (2%)
Bilateral, Carcinoma		1 (2%)		
Prostate	(50)	(50)	(50)	(50)
Adenoma	1 (2%)	1 (2%)		
Osteosarcoma		1 (2%)		
Seminal Vesicle	(50)	(50)	(50)	(50)
Testes	(50)	(50)	(50)	(50)
Bilateral, Interstitial Cell, Adenoma	25 (50%)	20 (40%)	19 (38%)	20 (40%)
Interstitial Cell, Adenoma	9 (18%)	11 (22%)	12 (24%)	19 (38%)

## HEMATOPOIETIC SYSTEM

Bone Marrow	(50)	(50)	(50)	(50)
Lymph Node	(5)	(2)	(8)	(7)
Mediastinal, Fibrous Histiocytoma	1 (20%)			
Renal, Hemangiosarcoma			1 (13%)	
Lymph Node, Mandibular	(50)	(50)	(50)	(50)
Lymph Node, Mesenteric	(50)	(50)	(49)	(50)
Spleen	(50)	(50)	(49)	(50)
Hemangiosarcoma			1 (2%)	1 (2%)
Osteosarcoma, Metastatic, Bone				1 (2%)
Thymus	(48)	(47)	(48)	(49)

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Species/Strain: RATS/F344/N Tac

Lab: BAT

Fischer 344-Taconic RATS MALE	0 mg/L	250 mg/L	500 mg/L	1000 mg/L
Thymoma Benign				2 (4%)

## INTEGUMENTARY SYSTEM

Mammary Gland	(49)	(50)	(49)	(49)
Fibroadenoma		2 (4%)	3 (6%)	1 (2%)
Skin	(50)	(50)	(50)	(50)
Basal Cell Adenoma			4 (8%)	4 (8%)
Basal Cell Carcinoma				1 (2%)
Keratoacanthoma	7 (14%)	3 (6%)	10 (20%)	12 (24%)
Keratoacanthoma, Multiple				3 (6%)
Squamous Cell Carcinoma		1 (2%)	1 (2%)	
Squamous Cell Papilloma	2 (4%)	1 (2%)		1 (2%)
Pinna, Squamous Cell Papilloma	1 (2%)			
Sebaceous Gland, Adenoma		2 (4%)	2 (4%)	2 (4%)
Subcutaneous Tissue, Fibroma	4 (8%)	5 (10%)	10 (20%)	13 (26%)
Subcutaneous Tissue, Fibroma, Multiple		1 (2%)		2 (4%)
Subcutaneous Tissue, Fibrosarcoma	1 (2%)		2 (4%)	1 (2%)
Subcutaneous Tissue, Fibrosarcoma, Multiple				1 (2%)
Subcutaneous Tissue, Fibrous Histiocytoma	1 (2%)			
Subcutaneous Tissue, Lipoma	1 (2%)		1 (2%)	
Subcutaneous Tissue, Schwannoma Malignant		1 (2%)		

## MUSCULOSKELETAL SYSTEM

Bone	(50)	(50)	(50)	(50)
Osteoma	1 (2%)			1 (2%)
Osteosarcoma				2 (4%)
Tendon, Fibrosarcoma				1 (2%)
Skeletal Muscle	(4)	(0)	(2)	(0)
Fibroma			1 (50%)	
Fibrous Histiocytoma	1 (25%)			

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Lab: BAT

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<b>NERVOUS SYSTEM</b>				
Brain	(50)	(50)	(50)	(50)
Fibrous Histiocytoma	1 (2%)			
Glioma		1 (2%)	2 (4%)	2 (4%)
Oligodendroglioma Nos			1 (2%)	1 (2%)
Meninges, Granular Cell Tumor Benign	2 (4%)			
Peripheral Nerve	(0)	(2)	(0)	(0)
Spinal Cord	(0)	(2)	(0)	(0)
<b>RESPIRATORY SYSTEM</b>				
Lung	(50)	(50)	(50)	(50)
Alveolar/Bronchiolar Adenoma	3 (6%)	2 (4%)		1 (2%)
Alveolar/Bronchiolar Carcinoma				1 (2%)
Carcinoma, Metastatic, Harderian Gland	1 (2%)		1 (2%)	
Carcinoma, Metastatic, Thyroid Gland		1 (2%)		
Fibrous Histiocytoma	1 (2%)			
Osteosarcoma, Metastatic, Bone				1 (2%)
Squamous Cell Carcinoma	1 (2%)			1 (2%)
Nose	(50)	(50)	(50)	(50)
Trachea	(50)	(50)	(50)	(50)
<b>SPECIAL SENSES SYSTEM</b>				
Ear	(1)	(0)	(0)	(0)
Neural Crest Tumor	1 (100%)			
Eye	(50)	(50)	(50)	(50)
Iris, Melanoma Malignant				1 (2%)
Harderian Gland	(50)	(50)	(50)	(50)
Adenoma		1 (2%)		
Carcinoma	1 (2%)		1 (2%)	
Zymbal's Gland	(1)	(2)	(0)	(2)
Carcinoma	1 (100%)	2 (100%)		2 (100%)

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

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Species/Strain: RATS/F344/N Tac

Lab: BAT

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Fischer 344-Taconic RATS MALE

0 mg/L

250 mg/L

500 mg/L

1000 mg/L

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URINARY SYSTEM

Kidney	(50)	(50)	(50)	(50)
Lipoma	1 (2%)			
Mesenchymal Tumor Malignant			1 (2%)	
Renal Tubule, Adenoma	1 (2%)		1 (2%)	1 (2%)
Urinary Bladder	(50)	(50)	(50)	(50)

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SYSTEMIC LESIONS

Multiple Organ	*(50)	*(50)	*(50)	*(50)
Leukemia Mononuclear	15 (30%)	11 (22%)	15 (30%)	11 (22%)
Mesothelioma Malignant	1 (2%)	12 (24%)	18 (36%)	37 (74%)

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\* Number of animals with any tissue examined microscopically

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Lab: BAT

Fischer 344-Taconic RATS MALE	0 mg/L	250 mg/L	500 mg/L	1000 mg/L
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**Tumor Summary for Males**

Total Animals with Primary Neoplasms (b)	49	48	48	50
Total Primary Neoplasms	139	137	174	199
Total Animals with Benign Neoplasms	46	44	47	49
Total Benign Neoplasms	108	103	127	130
Total Animals with Malignant Neoplasms	24	25	33	46
Total Malignant Neoplasms	30	33	44	66
Total Animals with Metastatic Neoplasms	1	1	1	1
Total Metastatic Neoplasms	1	2	1	4
Total Animals with Malignant Neoplasms Uncertain Primary Site				
Total Animals with Neoplasms Uncertain- Benign or Malignant	1	1	3	3
Total Uncertain Neoplasms	1	1	3	3

\*\*\* END OF MALE \*\*\*

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

b - Primary tumors: all tumors except metastatic tumors



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Lab: BAT

Fischer 344-Taconic RATS FEMALE	0 mg/L	250 mg/L	500 mg/L	1000 mg/L
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**Disposition Summary**

<b>Animals Initially In Study</b>	<b>66</b>	<b>66</b>	<b>66</b>	<b>66</b>
<b>Early Deaths</b>				
<b>Moribund Sacrifice</b>	<b>10</b>	<b>22</b>	<b>42</b>	<b>44</b>
<b>Natural Death</b>	<b>6</b>	<b>2</b>	<b>1</b>	<b>4</b>
<b>Survivors</b>				
<b>Terminal Sacrifice</b>	<b>34</b>	<b>26</b>	<b>7</b>	<b>2</b>
<b>Animals Examined Microscopically</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>

## ALIMENTARY SYSTEM

Esophagus	(50)	(50)	(50)	(50)
Intestine Large, Cecum	(50)	(50)	(50)	(50)
Intestine Large, Colon	(50)	(50)	(50)	(50)
Adenoma				2 (4%)
Intestine Large, Rectum	(50)	(50)	(50)	(50)
Adenoma	1 (2%)		1 (2%)	
Intestine Small, Duodenum	(50)	(50)	(50)	(50)
Intestine Small, Ileum	(50)	(50)	(50)	(50)
Intestine Small, Jejunum	(50)	(50)	(50)	(50)
Sarcoma		1 (2%)		
Liver	(50)	(50)	(50)	(50)
Hemangioma	1 (2%)			
Hemangiosarcoma				1 (2%)
Hepatocellular Adenoma			2 (4%)	1 (2%)
Mesentery	(3)	(4)	(3)	(2)
Oral Mucosa	(0)	(0)	(0)	(1)
Pharyngeal, Squamous Cell Papilloma				1 (100%)
Pancreas	(50)	(50)	(50)	(50)
Salivary Glands	(50)	(50)	(50)	(50)
Stomach, Forestomach	(50)	(50)	(50)	(50)
Stomach, Glandular	(50)	(50)	(50)	(50)
Tongue	(50)	(50)	(50)	(50)
Squamous Cell Carcinoma			1 (2%)	
Squamous Cell Papilloma		2 (4%)		1 (2%)

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Lab: BAT

Fischer 344-Taconic RATS FEMALE	0 mg/L	250 mg/L	500 mg/L	1000 mg/L
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## CARDIOVASCULAR SYSTEM

Blood Vessel	(50)	(50)	(50)	(50)
Heart	(50)	(50)	(50)	(50)
Schwannoma Malignant		1 (2%)		

## ENDOCRINE SYSTEM

Adrenal Cortex	(50)	(50)	(50)	(50)
Adenoma			1 (2%)	
Adrenal Medulla	(50)	(50)	(50)	(50)
Pheochromocytoma Benign	1 (2%)	1 (2%)	2 (4%)	1 (2%)
Pheochromocytoma Benign, Multiple				1 (2%)
Pheochromocytoma Malignant	1 (2%)	1 (2%)		1 (2%)
Islets, Pancreatic	(50)	(50)	(50)	(50)
Adenoma	1 (2%)			
Carcinoma		1 (2%)		
Parathyroid Gland	(47)	(46)	(49)	(49)
Pituitary Gland	(50)	(50)	(49)	(50)
Pars Distalis, Adenoma	23 (46%)	20 (40%)	11 (22%)	11 (22%)
Thyroid Gland	(50)	(50)	(50)	(50)
C-cell, Adenoma	11 (22%)	10 (20%)	6 (12%)	7 (14%)
C-cell, Carcinoma			1 (2%)	
Follicular Cell, Adenoma			1 (2%)	1 (2%)

## GENERAL BODY SYSTEM

None

## GENITAL SYSTEM

Clitoral Gland	(50)	(49)	(49)	(48)
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Adenoma	7 (14%)	11 (22%)	8 (16%)	7 (15%)
Carcinoma	1 (2%)			
Bilateral, Adenoma	1 (2%)			
Ovary	(50)	(50)	(50)	(50)
Granulosa Cell Tumor Malignant			1 (2%)	
Hemangiosarcoma			1 (2%)	
Pheochromocytoma Malignant, Metastatic, Adrenal Medulla				1 (2%)
Uterus	(50)	(50)	(50)	(50)
Deciduoma Nos	1 (2%)			
Fibrous Histiocytoma	1 (2%)			
Leiomyosarcoma	1 (2%)			
Polyp Stromal	3 (6%)	6 (12%)	8 (16%)	5 (10%)
Polyp Stromal, Multiple	1 (2%)			
Sarcoma Stromal	1 (2%)			1 (2%)
Cervix, Granular Cell Tumor Nos			1 (2%)	
Cervix, Hemangiosarcoma			1 (2%)	
Endometrium, Adenoma		1 (2%)		
Endometrium, Carcinoma				1 (2%)
Vagina	(1)	(0)	(0)	(0)

## HEMATOPOIETIC SYSTEM

Bone Marrow	(50)	(50)	(50)	(50)
Lymph Node	(4)	(4)	(2)	(2)
Lymph Node, Mandibular	(50)	(50)	(50)	(50)
Lymph Node, Mesenteric	(50)	(50)	(50)	(50)
Spleen	(50)	(50)	(50)	(50)
Hemangiosarcoma				1 (2%)
Thymus	(48)	(49)	(47)	(48)
Thymoma Malignant	1 (2%)			

## INTEGUMENTARY SYSTEM

Mammary Gland	(50)	(50)	(50)	(50)
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Fischer 344-Taconic RATS FEMALE	0 mg/L	250 mg/L	500 mg/L	1000 mg/L
Adenoma	1 (2%)	2 (4%)	3 (6%)	1 (2%)
Carcinoma		1 (2%)	3 (6%)	8 (16%)
Fibroadenoma	22 (44%)	13 (26%)	10 (20%)	12 (24%)
Fibroadenoma, Multiple	6 (12%)	34 (68%)	37 (74%)	27 (54%)
Skin	(50)	(50)	(50)	(50)
Basal Cell Adenoma				1 (2%)
Subcutaneous Tissue, Fibroma	2 (4%)		3 (6%)	2 (4%)
Subcutaneous Tissue, Lipoma	2 (4%)			

## MUSCULOSKELETAL SYSTEM

Bone	(50)	(50)	(50)	(50)
Skeletal Muscle	(0)	(1)	(0)	(0)
Rhabdomyosarcoma		1 (100%)		

## NERVOUS SYSTEM

Brain	(50)	(50)	(50)	(50)
Glioma	1 (2%)		2 (4%)	
Oligodendroglioma Nos			1 (2%)	1 (2%)
Spinal Cord	(0)	(0)	(1)	(0)

## RESPIRATORY SYSTEM

Lung	(50)	(50)	(50)	(50)
Alveolar/Bronchiolar Adenoma		1 (2%)		
Carcinoma, Metastatic, Mammary Gland			1 (2%)	
Pheochromocytoma Malignant, Metastatic, Adrenal Medulla	1 (2%)	1 (2%)		1 (2%)
Nose	(50)	(50)	(50)	(50)
Trachea	(50)	(50)	(50)	(50)

## SPECIAL SENSES SYSTEM

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Lab: BAT

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Fischer 344-Taconic RATS FEMALE	0 mg/L	250 mg/L	500 mg/L	1000 mg/L
Eye	(50)	(50)	(50)	(50)
Harderian Gland	(50)	(50)	(50)	(50)
Lacrimal Gland	(0)	(2)	(0)	(0)
Zymbal's Gland	(0)	(0)	(0)	(2)
Carcinoma				2 (100%)

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URINARY SYSTEM

Kidney	(50)	(50)	(50)	(50)
Urinary Bladder	(50)	(50)	(50)	(50)

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SYSTEMIC LESIONS

Multiple Organ	*(50)	*(50)	*(50)	*(50)
Histiocytic Sarcoma		1 (2%)		
Leukemia Mononuclear	19 (38%)	17 (34%)	8 (16%)	10 (20%)

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\* Number of animals with any tissue examined microscopically

Experiment Number: 96014 - 05

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

Date Report Requested: 03/05/2013

Test Type: CHRONIC

Water disinfection byproducts (Bromodichloroacetic acid)

Time Report Requested: 08:02:51

Route: DOSED WATER

CAS Number: 71133-14-7

First Dose M/F: 10/26/06 / 10/27/06

Species/Strain: RATS/F344/N Tac

Lab: BAT

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Fischer 344-Taconic RATS FEMALE	0 mg/L	250 mg/L	500 mg/L	1000 mg/L
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**Tumor Summary for Females**

Total Animals with Primary Neoplasms (b)	47	50	49	48
Total Primary Neoplasms	110	125	113	107
Total Animals with Benign Neoplasms	41	48	48	46
Total Benign Neoplasms	83	101	93	81
Total Animals with Malignant Neoplasms	23	21	13	22
Total Malignant Neoplasms	25	24	16	25
Total Animals with Metastatic Neoplasms	1	2	1	1
Total Metastatic Neoplasms	1	2	1	2
Total Animals with Malignant Neoplasms Uncertain Primary Site				
Total Animals with Neoplasms Uncertain- Benign or Malignant	2		4	1
Total Uncertain Neoplasms	2		4	1

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\*\*\* 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