

Experiment Number: 20609 - 01
Test Type: 90-DAY
Route: DOSED FEED
Species/Strain: RATS/F 344/NCTR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
(+)-Usnic Acid
CAS Number: 7562-61-0

Date Report Requested: 12/03/2020
Time Report Requested: 12:50:16
First Dose M/F: 08/07/08 / 08/07/08
Lab: NCTR

NTP Study Number: C20609
Lock Date: 07/01/2013
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 3.0.2.3_002
PWG Approval Date: NONE

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	FISCHER 344 RATS-NCTR RATS MALE	9	9	9	9	9	9	9	9	9
Control 0 ppm	5	5	5	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	0	0	0	0
	0	0	0	0	0	0	0	1	1	1
	2	2	3	3	6	6	8	9	1	1
	1	3	3	5	1	3	9	1	7	9
* TOTALS										

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	10
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	10
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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

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 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE Control 0 ppm	DAY ON TEST										ANIMAL ID	
	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5		
	0 0 2 1	0 0 2 3	0 0 3 3	0 0 0 5	0 0 6 1	0 0 6 3	0 0 8 9	0 0 1 1	0 0 7 9	0 0 1 1		
	* TOTALS											
Heart	+	+	+	+	+	+	+	+	+	+		10
ENDOCRINE SYSTEM												
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+		10
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+		10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+		10
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+		10
Pituitary Gland	+	+	+	+	+	+	+	+	+	+		10
Thyroid Gland	+	+	+	+	+	+	+	+	+	+		10
GENERAL BODY SYSTEM												
NONE												
GENITAL SYSTEM												
Epididymis	+	+	+	+	+	+	+	+	+	+		10
Preputial Gland	+	+	+	+	+	+	+	+	+	+		10
Prostate	+	+	+	+	+	+	+	+	+	+		10
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+		10

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FISCHER 344 RATS-NCTR RATS MALE Control 0 ppm	DAY ON TEST										ANIMAL ID		
	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5			
	0 0 0 2 1	0 0 0 2 3	0 0 0 3 3	0 0 0 3 5	0 0 0 6 1	0 0 0 6 3	0 0 0 8 9	0 0 0 8 1	0 0 0 9 7	0 0 0 1 1	0 0 0 1 9		
	* TOTALS												
Testes	+ + + + + + + + + +											10	
HEMATOPOIETIC SYSTEM													
Bone Marrow	+ + + + + + + + + +											10	
Lymph Node, Mandibular	+ + + + + + + + + +											10	
Lymph Node, Mesenteric	+ + + + + + + + + +											10	
Spleen	+ + + + + + + + + +											10	
Thymus	+ + + + + + + + + +											10	
INTEGUMENTARY SYSTEM													
Mammary Gland	+ + M + + + + + + +											9	
Skin	+ + + + + + + + + +											10	
MUSCULOSKELETAL SYSTEM													
Bone, Femur	+ + + + + + + + + +											10	
NERVOUS SYSTEM													
Brain, Brain Stem	+ + + + + + + + + +											10	
Brain, Cerebellum	+ + + + + + + + + +											10	

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FISCHER 344 RATS-NCTR RATS MALE Control 0 ppm	DAY ON TEST										ANIMAL ID	
	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5		
	0 0 0 2 1	0 0 0 2 3	0 0 0 3 3	0 0 0 3 5	0 0 0 6 1	0 0 0 6 3	0 0 0 8 9	0 0 0 9 1	0 0 0 1 7	0 0 0 1 9		
												* TOTALS
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+		10
RESPIRATORY SYSTEM												
Lung	+	+	+	+	+	+	+	+	+	+		10
Nose	+	+	+	+	+	+	+	+	+	+		10
Trachea	+	+	+	+	+	+	+	+	+	+		10
SPECIAL SENSES SYSTEM												
Eye	+	+	+	+	+	+	+	+	+	+		10
Harderian Gland	+	+	+	+	+	+	+	+	+	+		10
URINARY SYSTEM												
Kidney	+	+	+	+	+	+	+	+	+	+		10
Urinary Bladder	+	+	+	+	+	+	+	+	+	+		10
SYSTEMIC LESIONS												
Multiple Organ	+	+	+	+	+	+	+	+	+	+		10

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DAY ON TEST		0	0	0	0	0	0	0	0	0	0
FISCHER 344 RATS-NCTR RATS MALE		0	0	0	0	0	0	0	0	0	0
	Usnic 30 ppm	9	9	9	9	9	9	9	9	9	9
		5	5	5	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	0	0	0	0
		0	0	0	0	0	0	0	1	1	0
		0	0	4	4	5	5	7	7	0	0
		1	3	5	7	3	5	3	5	1	3
* TOTALS											

ALIMENTARY SYSTEM

Liver + + + + + + + + + +

10

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

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DAY ON TEST		0	0	0	0	0	0	0	0	0	0	
FISCHER 344 RATS-NCTR RATS MALE	0	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	9	
Usnic 30 ppm	5	5	5	5	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	0	0	0	0	0	
	0	0	0	0	0	0	0	0	1	1	0	
	0	0	4	4	5	5	7	7	0	0	0	
	1	3	5	7	3	5	3	5	1	3		* TOTALS

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

NONE

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

SYSTEMIC LESIONS

Multiple Organ

+ + + + + + + + + +

10

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DAY ON TEST		0	0	0	0	0	0	0	0	0	0	0
FISCHER 344 RATS-NCTR RATS MALE		0	0	0	0	0	0	0	0	0	0	0
		9	9	9	9	9	9	9	9	9	9	9
		5	5	5	5	5	5	5	5	5	5	5
	Usnic 60 ppm	0	0	0	0	0	0	0	0	0	0	0
	ANIMAL ID	0	0	0	0	0	0	0	0	1	1	0
	0	0	0	0	0	0	0	0	1	1	0	
	0	1	2	3	6	7	8	8	0	0	0	
	9	1	9	1	9	1	1	3	5	7		
											* TOTALS	

ALIMENTARY SYSTEM

Liver + + + + + + + + + +

10

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

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 + .. Tissue examined microscopically
 X .. Lesion present
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M .. Missing tissue
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 Lab: NCTR

		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FISCHER 344 RATS-NCTR RATS MALE	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Usnic 60 ppm	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
		5	5	5	5	5	5	5	5	5	5	5	5	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	0	0	0
		0	0	0	0	0	0	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	1	1	1	1	1	1	1
		0	1	2	3	6	7	8	8	8	8	0	0	0	0	0	0	0	0	0
		9	1	9	1	9	1	1	3	5	7									
* TOTALS																				

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

NONE

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

SYSTEMIC LESIONS

Multiple Organ

+ + + + + + + + + +

10

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
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M .. Missing tissue
 A .. Autolysis precludes evaluation
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 Test Type: 90-DAY
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 Species/Strain: RATS/F 344/NCTR

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DAY ON TEST		0	0	0	0	0	0	0	0	0	0
FISCHER 344 RATS-NCTR RATS MALE		0	0	0	0	0	0	0	0	0	0
	Usnic 120 ppm	9	9	9	9	9	9	9	9	9	9
		5	5	5	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	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		1	1	3	3	5	5	7	7	9	9
		7	9	7	9	7	9	7	9	7	9
* TOTALS											

ALIMENTARY SYSTEM

Liver + + + + + + + + + +

10

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
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Experiment Number: 20609 - 01
 Test Type: 90-DAY
 Route: DOSED FEED
 Species/Strain: RATS/F 344/NCTR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 (+)-Usnic Acid
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Date Report Requested: 12/03/2020
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 First Dose M/F: 08/07/08 / 08/07/08
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE Usnic 120 ppm	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
		9	9	9	9	9	9	9	9	9	9	
		5	5	5	5	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	
		1	1	3	3	5	5	7	7	9	9	
		7	9	7	9	7	9	7	9	7	9	
* TOTALS												

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

NONE

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

Kidney + + + + + + + + + +

10

SYSTEMIC LESIONS

Multiple Organ + + + + + + + + + +

10

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DAY ON TEST		0	0	0	0	0	0	0	0	0	0
FISCHER 344 RATS-NCTR RATS MALE		0	0	0	0	0	0	0	0	0	0
	Usnic 360 ppm	9	9	9	9	9	9	9	9	9	9
		5	5	5	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	0	0	0	0
		0	0	0	0	0	0	0	1	1	1
		0	0	4	4	6	6	9	9	1	1
		5	7	1	3	5	7	3	5	3	5
* TOTALS											

ALIMENTARY SYSTEM

Liver + + + + + + + + + +

10

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with tumor
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 X .. Lesion present
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M .. Missing tissue
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FISCHER 344 RATS-NCTR RATS MALE Usnic 360 ppm	DAY ON TEST	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	1	1
		5	5	5	5	5	5	5	5	5	5	3	5	
		0	0	0	0	0	0	0	0	0	0	1	1	
		5	7	1	3	5	7	3	5	3	5	3	5	
* TOTALS														

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

NONE

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

Kidney + + + + + + + + + + 10

SYSTEMIC LESIONS

Multiple Organ + + + + + + + + + + 10

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 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE Usnic 720 ppm	DAY ON TEST										ANIMAL ID		
	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5			
	0	0	0	0	0	0	0	0	0	0	0 0 1 3		
	* TOTALS												

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+		10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+		10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+		10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+		10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+		10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+		10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+		10
Liver	+	+	+	+	+	+	+	+	+	+		10
Pancreas	+	+	+	+	+	+	+	+	+	+		10
Salivary Glands	+	+	+	+	+	+	+	+	+	+		10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+		10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+		10

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+		10
--------------	---	---	---	---	---	---	---	---	---	---	--	----

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 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE Usnic 720 ppm	DAY ON TEST										ANIMAL ID		
	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5			
	0	0	0	0	0	0	0	0	0	0	0 0 0 1 3		* TOTALS
Heart	+	+	+	+	+	+	+	+	+	+		10	
ENDOCRINE SYSTEM													
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+		10	
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+		10	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+		10	
Parathyroid Gland	+	+	+	+	+	+	+	+	+	M		9	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+		10	
Thyroid Gland	+	+	+	+	+	+	+	+	+	+		10	
GENERAL BODY SYSTEM													
NONE													
GENITAL SYSTEM													
Epididymis	+	+	+	+	+	+	+	+	+	+		10	
Preputial Gland	+	+	+	+	+	+	+	+	+	+		10	
Prostate	+	+	+	+	+	+	+	+	+	+		10	
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+		10	

* .. 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: 20609 - 01
 Test Type: 90-DAY
 Route: DOSED FEED
 Species/Strain: RATS/F 344/NCTR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 (+)-Usnic Acid
 CAS Number: 7562-61-0

Date Report Requested: 12/03/2020
 Time Report Requested: 12:50:16
 First Dose M/F: 08/07/08 / 08/07/08
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE Usnic 720 ppm	DAY ON TEST										* TOTALS
	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	
	ANIMAL ID										
	0 0 1 3	0 0 1 5	0 0 2 5	0 0 2 7	0 0 4 9	0 0 5 1	0 0 8 5	0 0 8 7	0 0 8 9	0 0 1 1	
Testes	+	+	+	+	+	+	+	+	+	+	10
HEMATOPOIETIC SYSTEM											
Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10
Spleen	+	+	+	+	+	+	+	+	+	+	10
Thymus	+	+	+	+	+	+	+	+	+	+	10
INTEGUMENTARY SYSTEM											
Mammary Gland	+	+	+	M	M	+	M	+	+	+	7
Skin	+	+	+	+	+	+	+	+	+	+	10
MUSCULOSKELETAL SYSTEM											
Bone, Femur	+	+	+	+	+	+	+	+	+	+	10
NERVOUS SYSTEM											
Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	10
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	10

* .. 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: 20609 - 01
 Test Type: 90-DAY
 Route: DOSED FEED
 Species/Strain: RATS/F 344/NCTR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 (+)-Usnic Acid
 CAS Number: 7562-61-0

Date Report Requested: 12/03/2020
 Time Report Requested: 12:50:16
 First Dose M/F: 08/07/08 / 08/07/08
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE Usnic 720 ppm	DAY ON TEST										ANIMAL ID		
	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5			
	0 0 0 1 3	0 0 0 1 5	0 0 0 2 5	0 0 0 2 7	0 0 0 4 9	0 0 0 5 1	0 0 0 8 5	0 0 0 8 7	0 0 0 8 9	0 0 0 0 1	0 0 0 1 1		* TOTALS
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+		10	
RESPIRATORY SYSTEM													
Lung	+	+	+	+	+	+	+	+	+	+		10	
Nose	+	+	+	+	+	+	+	+	+	+		10	
Trachea	+	+	+	+	+	+	+	+	+	+		10	
SPECIAL SENSES SYSTEM													
Eye	+	+	+	+	+	+	+	+	+	+		10	
Harderian Gland	+	+	+	+	+	+	+	+	+	+		10	
URINARY SYSTEM													
Kidney	+	+	+	+	+	+	+	+	+	+		10	
Urinary Bladder	+	+	+	+	+	+	+	+	+	+		10	
SYSTEMIC LESIONS													
Multiple Organ	+	+	+	+	+	+	+	+	+	+		10	

*** 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: 20609 - 01
 Test Type: 90-DAY
 Route: DOSED FEED
 Species/Strain: RATS/F 344/NCTR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 (+)-Usnic Acid
 CAS Number: 7562-61-0

Date Report Requested: 12/03/2020
 Time Report Requested: 12:50:16
 First Dose M/F: 08/07/08 / 08/07/08
 Lab: NCTR

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	FISCHER 344 RATS-NCTR RATS FEMALE	9	9	9	9	9	9	9	9	9
Control 0 ppm	5	5	5	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	0	0	0	0
	0	0	0	0	0	0	0	1	1	1
	2	2	3	3	6	6	9	9	1	2
	2	4	4	6	2	4	0	2	8	0
* TOTALS										

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	10
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	10
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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: 20609 - 01
 Test Type: 90-DAY
 Route: DOSED FEED
 Species/Strain: RATS/F 344/NCTR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 (+)-Usnic Acid
 CAS Number: 7562-61-0

Date Report Requested: 12/03/2020
 Time Report Requested: 12:50:16
 First Dose M/F: 08/07/08 / 08/07/08
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS FEMALE Control 0 ppm	DAY ON TEST										ANIMAL ID		
	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5			
	0	0	0	0	0	0	0	0	0	0	0 0 0 2 2		
	* TOTALS												
Heart	+	+	+	+	+	+	+	+	+	+		10	
ENDOCRINE SYSTEM													
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+		10	
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+		10	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+		10	
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+		10	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+		10	
Thyroid Gland	+	+	+	+	+	+	+	+	+	+		10	
GENERAL BODY SYSTEM													
NONE													
GENITAL SYSTEM													
Clitoral Gland	+	+	+	+	+	+	+	+	+	+		10	
Ovary	+	+	+	+	+	+	+	+	+	+		10	
Uterus	+	+	+	+	+	+	+	+	+	+		10	
HEMATOPOIETIC 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: 20609 - 01
 Test Type: 90-DAY
 Route: DOSED FEED
 Species/Strain: RATS/F 344/NCTR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 (+)-Usnic Acid
 CAS Number: 7562-61-0

Date Report Requested: 12/03/2020
 Time Report Requested: 12:50:16
 First Dose M/F: 08/07/08 / 08/07/08
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS FEMALE Control 0 ppm	DAY ON TEST										ANIMAL ID	
	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5		
	0 0 0 2 2	0 0 0 2 4	0 0 0 3 4	0 0 0 3 6	0 0 0 6 2	0 0 0 6 4	0 0 0 9 0	0 0 0 9 2	0 0 0 9 1 8	0 0 0 1 2 0		* TOTALS
Bone Marrow	+	+	+	+	+	+	+	+	+	+		10
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+		10
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+		10
Spleen	+	+	+	+	+	+	+	+	+	+		10
Thymus	+	+	+	+	+	+	+	+	+	+		10
INTEGUMENTARY SYSTEM												
Mammary Gland	+	+	+	+	+	+	+	+	+	+		10
Skin	+	+	+	+	+	+	+	+	+	+		10
MUSCULOSKELETAL SYSTEM												
Bone, Femur	+	+	+	+	+	+	+	+	+	+		10
NERVOUS SYSTEM												
Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+		10
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+		10
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+		10
RESPIRATORY 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: 20609 - 01
 Test Type: 90-DAY
 Route: DOSED FEED
 Species/Strain: RATS/F 344/NCTR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 (+)-Usnic Acid
 CAS Number: 7562-61-0

Date Report Requested: 12/03/2020
 Time Report Requested: 12:50:16
 First Dose M/F: 08/07/08 / 08/07/08
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS FEMALE Control 0 ppm	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0
	ANIMAL ID	9	9	9	9	9	9	9	9	9	9	9	9	9
		5	5	5	5	5	5	5	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	1	1	1	1	1
		2	2	3	3	6	6	9	9	1	2	2	2	2
		2	4	4	6	2	4	0	2	8	0	0	0	0
* TOTALS														
Lung		+	+	+	+	+	+	+	+	+	+	+	+	10
Nose		+	+	+	+	+	+	+	+	+	+	+	+	10
Trachea		+	+	+	+	+	+	+	+	+	+	+	+	10
SPECIAL SENSES SYSTEM														
Eye		+	+	+	+	+	+	+	+	+	+	+	+	10
Harderian Gland		+	+	+	+	+	+	+	+	+	+	+	+	10
URINARY SYSTEM														
Kidney		+	+	+	+	+	+	+	+	+	+	+	+	10
Urinary Bladder		+	+	+	+	+	+	+	+	+	+	+	+	10
SYSTEMIC LESIONS														
Multiple Organ		+	+	+	+	+	+	+	+	+	+	+	+	10

* .. 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: 20609 - 01
Test Type: 90-DAY
Route: DOSED FEED
Species/Strain: RATS/F 344/NCTR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
(+)-Usnic Acid
CAS Number: 7562-61-0

Date Report Requested: 12/03/2020
Time Report Requested: 12:50:16
First Dose M/F: 08/07/08 / 08/07/08
Lab: NCTR

DAY ON TEST

FISCHER 344 RATS-NCTR RATS
FEMALE

Usnic 30 ppm

ANIMAL ID

* TOTALS

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

NONE

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

Experiment Number: 20609 - 01
Test Type: 90-DAY
Route: DOSED FEED
Species/Strain: RATS/F 344/NCTR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
(+)-Usnic Acid
CAS Number: 7562-61-0

Date Report Requested: 12/03/2020
Time Report Requested: 12:50:16
First Dose M/F: 08/07/08 / 08/07/08
Lab: NCTR

DAY ON TEST

FISCHER 344 RATS-NCTR RATS
FEMALE

Usnic 30 ppm

ANIMAL ID

* TOTALS

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

NONE

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

SYSTEMIC LESIONS

Multiple Organ

0

* .. 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: 20609 - 01
Test Type: 90-DAY
Route: DOSED FEED
Species/Strain: RATS/F 344/NCTR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
(+)-Usnic Acid
CAS Number: 7562-61-0

Date Report Requested: 12/03/2020
Time Report Requested: 12:50:16
First Dose M/F: 08/07/08 / 08/07/08
Lab: NCTR

DAY ON TEST

FISCHER 344 RATS-NCTR RATS
FEMALE

Usnic 60 ppm

ANIMAL ID

* TOTALS

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

NONE

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

Experiment Number: 20609 - 01
Test Type: 90-DAY
Route: DOSED FEED
Species/Strain: RATS/F 344/NCTR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
(+)-Usnic Acid
CAS Number: 7562-61-0

Date Report Requested: 12/03/2020
Time Report Requested: 12:50:16
First Dose M/F: 08/07/08 / 08/07/08
Lab: NCTR

DAY ON TEST

FISCHER 344 RATS-NCTR RATS
FEMALE

Usnic 60 ppm

ANIMAL ID

* TOTALS

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

NONE

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

SYSTEMIC LESIONS

Multiple Organ

0

* .. 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: 20609 - 01
Test Type: 90-DAY
Route: DOSED FEED
Species/Strain: RATS/F 344/NCTR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
(+)-Usnic Acid
CAS Number: 7562-61-0

Date Report Requested: 12/03/2020
Time Report Requested: 12:50:16
First Dose M/F: 08/07/08 / 08/07/08
Lab: NCTR

DAY ON TEST

FISCHER 344 RATS-NCTR RATS
FEMALE

Usnic 120 ppm

ANIMAL ID

* TOTALS

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

NONE

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

Experiment Number: 20609 - 01
Test Type: 90-DAY
Route: DOSED FEED
Species/Strain: RATS/F 344/NCTR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
(+)-Usnic Acid
CAS Number: 7562-61-0

Date Report Requested: 12/03/2020
Time Report Requested: 12:50:16
First Dose M/F: 08/07/08 / 08/07/08
Lab: NCTR

DAY ON TEST

FISCHER 344 RATS-NCTR RATS
FEMALE

Usnic 120 ppm

ANIMAL ID

* TOTALS

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

NONE

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

SYSTEMIC LESIONS

Multiple Organ

0

* .. 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: 20609 - 01
Test Type: 90-DAY
Route: DOSED FEED
Species/Strain: RATS/F 344/NCTR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
(+)-Usnic Acid
CAS Number: 7562-61-0

Date Report Requested: 12/03/2020
Time Report Requested: 12:50:16
First Dose M/F: 08/07/08 / 08/07/08
Lab: NCTR

DAY ON TEST

FISCHER 344 RATS-NCTR RATS
FEMALE

Usnic 360 ppm

ANIMAL ID

* TOTALS

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

NONE

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

Experiment Number: 20609 - 01
Test Type: 90-DAY
Route: DOSED FEED
Species/Strain: RATS/F 344/NCTR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
(+)-Usnic Acid
CAS Number: 7562-61-0

Date Report Requested: 12/03/2020
Time Report Requested: 12:50:16
First Dose M/F: 08/07/08 / 08/07/08
Lab: NCTR

DAY ON TEST

FISCHER 344 RATS-NCTR RATS
FEMALE

Usnic 360 ppm

ANIMAL ID

* TOTALS

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

NONE

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

SYSTEMIC LESIONS

Multiple Organ

0

* .. 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: 20609 - 01
 Test Type: 90-DAY
 Route: DOSED FEED
 Species/Strain: RATS/F 344/NCTR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 (+)-Usnic Acid
 CAS Number: 7562-61-0

Date Report Requested: 12/03/2020
 Time Report Requested: 12:50:16
 First Dose M/F: 08/07/08 / 08/07/08
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS FEMALE Usnic 720 ppm	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	ANIMAL ID	
		9	9	9	9	9	9	9	9	9	9		
	5	5	5	5	5	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	1	1	1		
	1	1	2	2	5	5	8	8	1	1	1		
	4	6	6	8	0	2	6	8	0	2	2		
													* TOTALS

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+		10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+		10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+		10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+		10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+		10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+		10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+		10
Liver	+	+	+	+	+	+	+	+	+	+		10
Pancreas	+	+	+	+	+	+	+	+	+	+		10
Salivary Glands	+	+	+	+	+	+	+	+	+	+		10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+		10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+		10

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+		10
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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: 20609 - 01
 Test Type: 90-DAY
 Route: DOSED FEED
 Species/Strain: RATS/F 344/NCTR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 (+)-Usnic Acid
 CAS Number: 7562-61-0

Date Report Requested: 12/03/2020
 Time Report Requested: 12:50:16
 First Dose M/F: 08/07/08 / 08/07/08
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS FEMALE Usnic 720 ppm	DAY ON TEST										ANIMAL ID	
	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5		
	0 0 0 1 4	0 0 0 1 6	0 0 0 2 6	0 0 0 2 8	0 0 0 5 0	0 0 0 5 2	0 0 0 8 6	0 0 0 8 8	0 0 0 1 0	0 0 0 1 2		
	* TOTALS											
Heart	+	+	+	+	+	+	+	+	+	+		10
ENDOCRINE SYSTEM												
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+		10
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+		10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+		10
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+		10
Pituitary Gland	+	+	+	+	+	+	+	+	+	+		10
Thyroid Gland	+	+	+	+	+	+	+	+	+	+		10
GENERAL BODY SYSTEM												
NONE												
GENITAL SYSTEM												
Clitoral Gland	+	+	+	+	+	+	+	+	+	+		10
Ovary	+	+	+	+	+	+	+	+	+	+		10
Uterus	+	+	+	+	+	+	+	+	+	+		10

HEMATOPOIETIC 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: 20609 - 01
 Test Type: 90-DAY
 Route: DOSED FEED
 Species/Strain: RATS/F 344/NCTR

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 (+)-Usnic Acid
 CAS Number: 7562-61-0

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 Lab: NCTR

FISCHER 344 RATS-NCTR RATS FEMALE Usnic 720 ppm	DAY ON TEST										ANIMAL ID		* TOTALS
	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5			
	0 0 0 1 4	0 0 0 1 6	0 0 0 2 6	0 0 0 2 8	0 0 0 5 0	0 0 0 5 2	0 0 0 8 6	0 0 0 8 8	0 0 0 1 0	0 0 0 1 2			
Bone Marrow	+	+	+	+	+	+	+	+	+	+		10	
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+		10	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+		10	
Spleen	+	+	+	+	+	+	+	+	+	+		10	
Thymus	+	+	+	+	+	+	+	+	+	+		10	
INTEGUMENTARY SYSTEM													
Mammary Gland	+	+	+	+	+	+	+	+	+	+		10	
Skin	+	+	+	+	+	+	+	+	+	+		10	
MUSCULOSKELETAL SYSTEM													
Bone, Femur	+	+	+	+	+	+	+	+	+	+		10	
NERVOUS SYSTEM													
Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+		10	
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+		10	
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+		10	
RESPIRATORY SYSTEM													

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	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5	0 9 5			
	0	0	0	0	0	0	0	0	0	0	0 0 0 1 4		* TOTALS
Lung	+	+	+	+	+	+	+	+	+	+		10	
Nose	+	+	+	+	+	+	+	+	+	+		10	
Trachea	+	+	+	+	+	+	+	+	+	+		10	
SPECIAL SENSES SYSTEM													
Eye	+	+	+	+	+	+	+	+	+	+		10	
Harderian Gland	+	+	+	+	+	+	+	+	+	+		10	
URINARY SYSTEM													
Kidney	+	+	+	+	+	+	+	+	+	+		10	
Urinary Bladder	+	+	+	+	+	+	+	+	+	+		10	
SYSTEMIC LESIONS													
Multiple Organ	+	+	+	+	+	+	+	+	+	+		10	

*** END OF REPORT ***

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