

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

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

Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:54
First Dose M/F: NA / NA
Lab: MBA

C Number:	C97003C
Lock Date:	10/27/2000
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Both
PWG Approval Date	NONE

Experiment Number: 97003-05

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

Date Report Requested: 10/16/2014

Test Type: 90-DAY

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

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Route: SKIN APPLICATION

CAS Number: 35691-65-7

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

F 344/N Rat MALE	VEHICLE CONTROL	0.2 MG/KG	0.6 MG/KG	2.0 MG/KG	6.0 MG/KG	18.0 MG/KG
Disposition Summary						
Animals Initially In Study	10	10	10	10	10	10
Early Deaths						
Accidentally Killed						
Natural Death						
Survivors						
Terminal Sacrifice	10	10	10	10	10	10
Animals Examined Microscopically	10	10	10	10	10	10
ALIMENTARY SYSTEM						
Esophagus	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Cecum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Colon	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Rectum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Duodenum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Ileum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Jejunum	(10)	(0)	(0)	(0)	(0)	(10)
Liver	(10)	(0)	(0)	(0)	(2)	(10)
Pancreas	(10)	(0)	(0)	(0)	(0)	(10)
Salivary Glands	(10)	(0)	(0)	(0)	(0)	(10)
Stomach, Forestomach	(10)	(0)	(0)	(0)	(0)	(10)
Stomach, Glandular	(10)	(0)	(0)	(0)	(0)	(10)
CARDIOVASCULAR SYSTEM						
Blood Vessel	(10)	(0)	(0)	(0)	(0)	(10)
Heart	(10)	(0)	(0)	(0)	(0)	(10)
ENDOCRINE SYSTEM						
Adrenal Cortex	(10)	(0)	(0)	(0)	(0)	(10)

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

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

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

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CAS Number: 35691-65-7

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

F 344/N Rat MALE	VEHICLE CONTROL	0.2 MG/KG	0.6 MG/KG	2.0 MG/KG	6.0 MG/KG	18.0 MG/KG
Adrenal Medulla	(10)	(0)	(0)	(0)	(0)	(8)
Islets, Pancreatic	(10)	(0)	(0)	(0)	(0)	(10)
Parathyroid Gland	(8)	(0)	(0)	(0)	(0)	(9)
Pituitary Gland	(9)	(0)	(0)	(0)	(0)	(10)
Thyroid Gland	(10)	(0)	(0)	(0)	(0)	(10)

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Epididymis	(10)	(0)	(0)	(0)	(0)	(10)
Preputial Gland	(10)	(0)	(0)	(0)	(0)	(8)
Prostate	(10)	(0)	(0)	(0)	(0)	(10)
Seminal Vesicle	(10)	(0)	(0)	(0)	(0)	(10)
Testes	(10)	(0)	(0)	(0)	(0)	(10)

HEMATOPOIETIC SYSTEM

Bone Marrow	(10)	(0)	(0)	(0)	(0)	(10)
Lymph Node	(0)	(0)	(0)	(0)	(0)	(1)
Lymph Node, Mesenteric	(10)	(0)	(0)	(0)	(0)	(10)
Spleen	(10)	(0)	(0)	(0)	(0)	(10)
Thymus	(10)	(0)	(0)	(0)	(0)	(10)

INTEGUMENTARY SYSTEM

Mammary Gland	(4)	(0)	(0)	(0)	(0)	(4)
Skin	(9)	(10)	(10)	(10)	(10)	(10)
Skin, Control	(0)	(0)	(0)	(0)	(1)	(4)

MUSCULOSKELETAL SYSTEM

Bone	(10)	(0)	(0)	(0)	(0)	(10)
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NERVOUS SYSTEM

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

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

Experiment Number: 97003-05

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First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat MALE	VEHICLE CONTROL	0.2 MG/KG	0.6 MG/KG	2.0 MG/KG	6.0 MG/KG	18.0 MG/KG
Brain	(10)	(0)	(0)	(0)	(0)	(10)
RESPIRATORY SYSTEM						
Lung	(10)	(0)	(0)	(0)	(0)	(10)
Alveolar/Bronchiolar Adenoma	1 (10%)					
Nose	(10)	(0)	(0)	(0)	(0)	(10)
Trachea	(10)	(0)	(0)	(0)	(0)	(10)
SPECIAL SENSES SYSTEM						
Eye	(10)	(0)	(0)	(0)	(1)	(10)
URINARY SYSTEM						
Kidney	(10)	(0)	(0)	(0)	(0)	(10)
Urinary Bladder	(10)	(0)	(0)	(0)	(0)	(10)

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

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

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

Date Report Requested: 10/16/2014

Test Type: 90-DAY

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Route: SKIN APPLICATION

CAS Number: 35691-65-7

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

F 344/N Rat MALE	CONTROL SPECIAL	0.2MG/KGSPECIAL	0.6MG/KGSPECIAL	2.0MG/KGSPECIAL	6.0MG/KGSPECIAL	18MG/KG SPECIAL
Disposition Summary						
Animals Initially In Study	10	10	10	10	10	10
Early Deaths						
Accidentally Killed		1			2	
Natural Death				1		
Survivors						
Terminal Sacrifice	10	9	10	9	8	10
Animals Examined Microscopically						
ALIMENTARY SYSTEM						
Esophagus	(0)	(0)	(0)	(0)	(0)	(0)
Intestine Large, Cecum	(0)	(0)	(0)	(0)	(0)	(0)
Intestine Large, Colon	(0)	(0)	(0)	(0)	(0)	(0)
Intestine Large, Rectum	(0)	(0)	(0)	(0)	(0)	(0)
Intestine Small, Duodenum	(0)	(0)	(0)	(0)	(0)	(0)
Intestine Small, Ileum	(0)	(0)	(0)	(0)	(0)	(0)
Intestine Small, Jejunum	(0)	(0)	(0)	(0)	(0)	(0)
Liver	(0)	(0)	(0)	(0)	(0)	(0)
Pancreas	(0)	(0)	(0)	(0)	(0)	(0)
Salivary Glands	(0)	(0)	(0)	(0)	(0)	(0)
Stomach, Forestomach	(0)	(0)	(0)	(0)	(0)	(0)
Stomach, Glandular	(0)	(0)	(0)	(0)	(0)	(0)
CARDIOVASCULAR SYSTEM						
Blood Vessel	(0)	(0)	(0)	(0)	(0)	(0)
Heart	(0)	(0)	(0)	(0)	(0)	(0)
ENDOCRINE SYSTEM						
Adrenal Cortex	(0)	(0)	(0)	(0)	(0)	(0)

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

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

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Route: SKIN APPLICATION

CAS Number: 35691-65-7

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: MBA

F 344/N Rat MALE	CONTROL SPECIAL	0.2MG/KGSPECIAL	0.6MG/KGSPECIAL	2.0MG/KGSPECIAL	6.0MG/KGSPECIAL	18MG/KG SPECIAL
Adrenal Medulla	(0)	(0)	(0)	(0)	(0)	(0)
Islets, Pancreatic	(0)	(0)	(0)	(0)	(0)	(0)
Parathyroid Gland	(0)	(0)	(0)	(0)	(0)	(0)
Pituitary Gland	(0)	(0)	(0)	(0)	(0)	(0)
Thyroid Gland	(0)	(0)	(0)	(0)	(0)	(0)
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Epididymis	(0)	(0)	(0)	(0)	(0)	(0)
Preputial Gland	(0)	(0)	(0)	(0)	(0)	(0)
Prostate	(0)	(0)	(0)	(0)	(0)	(0)
Seminal Vesicle	(0)	(0)	(0)	(0)	(0)	(0)
Testes	(0)	(0)	(0)	(0)	(0)	(0)
HEMATOPOIETIC SYSTEM						
Bone Marrow	(0)	(0)	(0)	(0)	(0)	(0)
Lymph Node	(0)	(0)	(0)	(0)	(0)	(0)
Lymph Node, Mesenteric	(0)	(0)	(0)	(0)	(0)	(0)
Spleen	(0)	(0)	(0)	(0)	(0)	(0)
Thymus	(0)	(0)	(0)	(0)	(0)	(0)
INTEGUMENTARY SYSTEM						
Mammary Gland	(0)	(0)	(0)	(0)	(0)	(0)
Skin	(0)	(0)	(0)	(0)	(0)	(0)
Skin, Control	(0)	(0)	(0)	(0)	(0)	(0)
MUSCULOSKELETAL SYSTEM						
Bone	(0)	(0)	(0)	(0)	(0)	(0)
NERVOUS SYSTEM						

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

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

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**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS
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CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
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First Dose M/F: NA / NA
Lab: MBA

F 344/N Rat MALE	CONTROL SPECIAL	0.2MG/KGSPECIAL	0.6MG/KGSPECIAL	2.0MG/KGSPECIAL	6.0MG/KGSPECIAL	18MG/KG SPECIAL
Brain	(0)	(0)	(0)	(0)	(0)	(0)
RESPIRATORY SYSTEM						
Lung	(0)	(0)	(0)	(0)	(0)	(0)
Alveolar/Bronchiolar Adenoma						
Nose	(0)	(0)	(0)	(0)	(0)	(0)
Trachea	(0)	(0)	(0)	(0)	(0)	(0)
SPECIAL SENSES SYSTEM						
Eye	(0)	(0)	(0)	(0)	(0)	(0)
URINARY SYSTEM						
Kidney	(0)	(0)	(0)	(0)	(0)	(0)
Urinary Bladder	(0)	(0)	(0)	(0)	(0)	(0)

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

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

Experiment Number: 97003-05
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Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS
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First Dose M/F: NA / NA
Lab: MBA

F 344/N Rat MALE	VEHICLE CONTROL	0.2 MG/KG	0.6 MG/KG	2.0 MG/KG	6.0 MG/KG	18.0 MG/KG
Tumor Summary for MALE						
Total Animals with Primary Neoplasms (b)	1					
Total Primary Neoplasms	1					
Total Animals with Benign Neoplasms	1					
Total Benign Neoplasms	1					
Total Animals with Malignant Neoplasms						
Total Malignant Neoplasms						
Total Animals with Metastatic Neoplasms						
Total Metastatic Neoplasms						
Total Animals with Malignant Neoplasms Uncertain Primary Site						
Total Animals with Neoplasms Uncertain - Benign or Malignant						
Total Uncertain Neoplasms						

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

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

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

Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

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First Dose M/F: NA / NA
Lab: MBA

F 344/N Rat MALE

CONTROL SPECIAL

0.2MG/KGSPECIAL

0.6MG/KGSPECIAL

2.0MG/KGSPECIAL

6.0MG/KGSPECIAL

18MG/KG SPECIAL

Tumor Summary for MALE

Total Animals with Primary Neoplasms (b)

Total Primary Neoplasms

Total Animals with Benign Neoplasms

Total Benign Neoplasms

Total Animals with Malignant Neoplasms

Total Malignant Neoplasms

Total Animals with Metastatic Neoplasms

Total Metastatic Neoplasms

**Total Animals with Malignant Neoplasms
Uncertain Primary Site**

**Total Animals with Neoplasms Uncertain -
Benign or Malignant**

Total Uncertain Neoplasms

END OF MALE DATA

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

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

Experiment Number: 97003-05

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Species/Strain: Rat/F 344/N

Lab: MBA

F 344/N Rat FEMALE	VEHICLE CONTROL	0.2 MG/KG	0.6 MG/KG	2.0 MG/KG	6.0 MG/KG	18.0 MG/KG
Disposition Summary						
Animals Initially In Study	10	10	10	10	10	10
Early Deaths						
Survivors						
Accidentally Killed						
Natural Death				1		
Terminal Sacrifice	10	10	10	9	10	10
Animals Examined Microscopically	10	10	10	10	10	10
ALIMENTARY SYSTEM						
Esophagus	(10)	(0)	(0)	(1)	(0)	(10)
Intestine Large, Cecum	(9)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Colon	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Rectum	(9)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Duodenum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Ileum	(9)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Jejunum	(9)	(0)	(0)	(0)	(0)	(10)
Liver	(10)	(0)	(2)	(1)	(0)	(10)
Mesentery	(0)	(1)	(0)	(0)	(1)	(0)
Pancreas	(10)	(0)	(0)	(0)	(0)	(10)
Salivary Glands	(10)	(0)	(0)	(0)	(0)	(10)
Stomach, Forestomach	(10)	(0)	(0)	(1)	(0)	(10)
Stomach, Glandular	(10)	(0)	(0)	(1)	(0)	(10)
CARDIOVASCULAR SYSTEM						
Blood Vessel	(10)	(0)	(0)	(1)	(0)	(10)
Heart	(10)	(0)	(0)	(1)	(0)	(10)
ENDOCRINE SYSTEM						

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Species/Strain: Rat/F 344/N

Lab: MBA

F 344/N Rat FEMALE	VEHICLE CONTROL	0.2 MG/KG	0.6 MG/KG	2.0 MG/KG	6.0 MG/KG	18.0 MG/KG
Adrenal Cortex	(10)	(0)	(0)	(1)	(0)	(10)
Adrenal Medulla	(10)	(0)	(0)	(1)	(0)	(9)
Islets, Pancreatic	(10)	(0)	(0)	(0)	(0)	(10)
Parathyroid Gland	(10)	(0)	(0)	(1)	(0)	(8)
Pituitary Gland	(10)	(0)	(0)	(0)	(0)	(10)
Thyroid Gland	(10)	(0)	(0)	(0)	(0)	(9)

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Clitoral Gland	(8)	(0)	(0)	(0)	(0)	(7)
Ovary	(10)	(0)	(0)	(0)	(1)	(10)
Uterus	(10)	(0)	(0)	(0)	(0)	(10)

HEMATOPOIETIC SYSTEM

Bone Marrow	(10)	(0)	(0)	(0)	(0)	(10)
Lymph Node	(0)	(2)	(0)	(1)	(1)	(0)
Lymph Node, Mandibular	(1)	(0)	(0)	(0)	(0)	(2)
Lymph Node, Mesenteric	(10)	(0)	(0)	(0)	(0)	(10)
Spleen	(10)	(0)	(0)	(0)	(0)	(10)
Thymus	(10)	(0)	(0)	(0)	(0)	(10)

INTEGUMENTARY SYSTEM

Mammary Gland	(10)	(0)	(0)	(1)	(0)	(10)
Skin	(10)	(10)	(10)	(10)	(10)	(10)
Skin, Control	(0)	(0)	(0)	(0)	(0)	(1)

MUSCULOSKELETAL SYSTEM

Bone	(10)	(0)	(0)	(1)	(0)	(10)
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NERVOUS SYSTEM

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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F 344/N Rat FEMALE	VEHICLE CONTROL	0.2 MG/KG	0.6 MG/KG	2.0 MG/KG	6.0 MG/KG	18.0 MG/KG
Brain	(10)	(0)	(0)	(1)	(0)	(10)
RESPIRATORY SYSTEM						
Lung	(10)	(0)	(0)	(1)	(0)	(10)
Nose	(10)	(0)	(0)	(1)	(0)	(10)
Trachea	(10)	(0)	(0)	(0)	(0)	(10)
SPECIAL SENSES SYSTEM						
Eye	(10)	(0)	(0)	(0)	(0)	(10)
URINARY SYSTEM						
Kidney	(10)	(0)	(0)	(1)	(0)	(10)
Urinary Bladder	(10)	(0)	(0)	(1)	(0)	(10)

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

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 Lab: MBA

F 344/N Rat FEMALE	CONTROL SPECIAL	0.2MG/KGSPECIAL	0.6MG/KGSPECIAL	2.0MG/KGSPECIAL	6.0MG/KGSPECIAL	18MG/KG SPECIAL
Disposition Summary						
Animals Initially In Study	10	10	10	10	10	10
Early Deaths						
Survivors						
Accidentally Killed				1		
Natural Death						
Terminal Sacrifice	10	10	10	9	10	10
Animals Examined Microscopically						
ALIMENTARY SYSTEM						
Esophagus	(0)	(0)	(0)	(0)	(0)	(0)
Intestine Large, Cecum	(0)	(0)	(0)	(0)	(0)	(0)
Intestine Large, Colon	(0)	(0)	(0)	(0)	(0)	(0)
Intestine Large, Rectum	(0)	(0)	(0)	(0)	(0)	(0)
Intestine Small, Duodenum	(0)	(0)	(0)	(0)	(0)	(0)
Intestine Small, Ileum	(0)	(0)	(0)	(0)	(0)	(0)
Intestine Small, Jejunum	(0)	(0)	(0)	(0)	(0)	(0)
Liver	(0)	(0)	(0)	(0)	(0)	(0)
Mesentery	(0)	(0)	(0)	(0)	(0)	(0)
Pancreas	(0)	(0)	(0)	(0)	(0)	(0)
Salivary Glands	(0)	(0)	(0)	(0)	(0)	(0)
Stomach, Forestomach	(0)	(0)	(0)	(0)	(0)	(0)
Stomach, Glandular	(0)	(0)	(0)	(0)	(0)	(0)
CARDIOVASCULAR SYSTEM						
Blood Vessel	(0)	(0)	(0)	(0)	(0)	(0)
Heart	(0)	(0)	(0)	(0)	(0)	(0)
ENDOCRINE SYSTEM						

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

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

Experiment Number: 97003-05

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

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

Test Compound: 1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Requested: 10/16/2014

Time Report Requested: 15:48:55

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat FEMALE	CONTROL SPECIAL	0.2MG/KGSPECIAL	0.6MG/KGSPECIAL	2.0MG/KGSPECIAL	6.0MG/KGSPECIAL	18MG/KG SPECIAL
Adrenal Cortex	(0)	(0)	(0)	(0)	(0)	(0)
Adrenal Medulla	(0)	(0)	(0)	(0)	(0)	(0)
Islets, Pancreatic	(0)	(0)	(0)	(0)	(0)	(0)
Parathyroid Gland	(0)	(0)	(0)	(0)	(0)	(0)
Pituitary Gland	(0)	(0)	(0)	(0)	(0)	(0)
Thyroid Gland	(0)	(0)	(0)	(0)	(0)	(0)
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Clitoral Gland	(0)	(0)	(0)	(0)	(0)	(0)
Ovary	(0)	(0)	(0)	(0)	(0)	(0)
Uterus	(0)	(0)	(0)	(0)	(0)	(0)
HEMATOPOIETIC SYSTEM						
Bone Marrow	(0)	(0)	(0)	(0)	(0)	(0)
Lymph Node	(0)	(0)	(0)	(0)	(0)	(0)
Lymph Node, Mandibular	(0)	(0)	(0)	(0)	(0)	(0)
Lymph Node, Mesenteric	(0)	(0)	(0)	(0)	(0)	(0)
Spleen	(0)	(0)	(0)	(0)	(0)	(0)
Thymus	(0)	(0)	(0)	(0)	(0)	(0)
INTEGUMENTARY SYSTEM						
Mammary Gland	(0)	(0)	(0)	(0)	(0)	(0)
Skin	(0)	(0)	(0)	(0)	(0)	(0)
Skin, Control	(0)	(0)	(0)	(0)	(0)	(0)
MUSCULOSKELETAL SYSTEM						
Bone	(0)	(0)	(0)	(0)	(0)	(0)
NERVOUS SYSTEM						

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

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)
Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:55
First Dose M/F: NA / NA
Lab: MBA

F 344/N Rat FEMALE	CONTROL SPECIAL	0.2MG/KGSPECIAL	0.6MG/KGSPECIAL	2.0MG/KGSPECIAL	6.0MG/KGSPECIAL	18MG/KG SPECIAL
Brain	(0)	(0)	(0)	(0)	(0)	(0)
RESPIRATORY SYSTEM						
Lung	(0)	(0)	(0)	(0)	(0)	(0)
Nose	(0)	(0)	(0)	(0)	(0)	(0)
Trachea	(0)	(0)	(0)	(0)	(0)	(0)
SPECIAL SENSES SYSTEM						
Eye	(0)	(0)	(0)	(0)	(0)	(0)
URINARY SYSTEM						
Kidney	(0)	(0)	(0)	(0)	(0)	(0)
Urinary Bladder	(0)	(0)	(0)	(0)	(0)	(0)

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

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

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

Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:55
First Dose M/F: NA / NA
Lab: MBA

F 344/N Rat FEMALE	VEHICLE CONTROL	0.2 MG/KG	0.6 MG/KG	2.0 MG/KG	6.0 MG/KG	18.0 MG/KG
Tumor Summary for FEMALE						
Total Animals with Primary Neoplasms (b)						
Total Primary Neoplasms						
Total Animals with Benign Neoplasms						
Total Benign Neoplasms						
Total Animals with Malignant Neoplasms						
Total Malignant Neoplasms						
Total Animals with Metastatic Neoplasms						
Total Metastatic Neoplasms						
Total Animals with Malignant Neoplasms Uncertain Primary Site						
Total Animals with Neoplasms Uncertain - Benign or Malignant						
Total Uncertain Neoplasms						

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

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

Experiment Number: 97003-05
Test Type: 90-DAY
Route: SKIN APPLICATION
Species/Strain: Rat/F 344/N

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

Test Compound: 1,2-Dibromo-2,4-dicyanobutane
CAS Number: 35691-65-7

Date Report Requested: 10/16/2014
Time Report Requested: 15:48:55
First Dose M/F: NA / NA
Lab: MBA

F 344/N Rat FEMALE

CONTROL SPECIAL

0.2MG/KGSPECIAL

0.6MG/KGSPECIAL

2.0MG/KGSPECIAL

6.0MG/KGSPECIAL

18MG/KG SPECIAL

Tumor Summary for FEMALE

Total Animals with Primary Neoplasms (b)

Total Primary Neoplasms

Total Animals with Benign Neoplasms

Total Benign Neoplasms

Total Animals with Malignant Neoplasms

Total Malignant Neoplasms

Total Animals with Metastatic Neoplasms

Total Metastatic Neoplasms

**Total Animals with Malignant Neoplasms
Uncertain Primary Site**

**Total Animals with Neoplasms Uncertain -
Benign or Malignant**

Total Uncertain Neoplasms

**** END OF REPORT ****

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

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically