

Experiment Number: 97011-23
Test Type: 26-WEEK
Route: SKIN APPLICATION
Species/Strain: Mouse/FVB/N

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Transgenic model evaluation (Melphalan)

CAS Number: 148-82-3

Date Report Requested: 10/20/2014

Time Report Requested: 04:54:14

First Dose M/F: NA / NA

Lab: MBA

C Number:	C97011C
Lock Date:	07/21/2000
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Both
PWG Approval Date	NONE

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

**FVB/N Mouse Male
 VEHICLE CONTROL**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	4	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	4	6	6	6	6	6	6	6	6	6	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
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6
	7	1	2	3	4	5	6	8	9	0	1	2	3	4	5
	*TOTALS														

Alimentary System

Intestine Large, Cecum	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14
Intestine Large, Colon	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14
Intestine Large, Rectum	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14
Intestine Small, Duodenum	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14
Intestine Small, Ileum	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14
Intestine Small, Jejunum	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	15
Stomach, Forestomach	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14
Stomach, Glandular	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14

Cardiovascular System

Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	15
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Endocrine System

Adrenal Cortex	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14
Adrenal Medulla	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14
Pituitary Gland	A	+	+	+	+	+	+	+	I	+	+	+	+	+	+	13
Thyroid Gland	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14

General Body System

NONE

Genital 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

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 Lab: MBA

FVB/N Mouse Male VEHICLE CONTROL	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*TOTALS
	ANIMAL ID	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		4	8	8	8	8	8	8	8	8	8	8	8	8	8	
		4	6	6	6	6	6	6	6	6	6	6	6	6	6	
		0	0	0	0	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	1	1	1	1	1	1	
		5	5	5	5	5	5	5	5	5	6	6	6	6	6	
		7	1	2	3	4	5	6	8	9	0	1	2	3	4	
Epididymis		+	+	+	+	+	+	+	+	+	+	+	+	+	+	15
Testes		+	+	+	+	+	+	+	+	+	+	+	+	+	+	15
Hematopoietic System																
Bone Marrow		A	+	+	+	+	+	+	+	+	+	+	+	+	+	14
Lymph Node, Mandibular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	15
Lymph Node, Mediastinal		+	M	+	I	+	+	+	+	+	+	+	+	+	+	13
Lymph Node, Mesenteric		+	+	+	+	+	+	+	+	+	+	+	+	+	+	15
Spleen		A	+	+	+	+	+	+	+	+	+	+	+	+	+	14
Thymus		A	+	+	+	+	+	+	+	+	+	+	+	+	+	14
Integumentary System																
Mammary Gland		M	M	M	M	M	M	M	M	M	M	M	M	M	M	0
Skin		+	+	+	+	+	+	+	+	+	+	+	+	+	+	15
Musculoskeletal System																
NONE																
Nervous System																
NONE																
Respiratory System																
Lung		+	+	+	+	+	+	+	+	+	+	+	+	+	+	15
Special Senses 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

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P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Transgenic model evaluation (Melphalan)

CAS Number: 148-82-3

Date Report Requested: 10/20/2014
 Time Report Requested: 04:54:14
 First Dose M/F: NA / NA
 Lab: MBA

FVB/N Mouse Male VEHICLE CONTROL	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		4	8	8	8	8	8	8	8	8	8	8	8	8	8	8
		4	6	6	6	6	6	6	6	6	6	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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		5	5	5	5	5	5	5	5	6	6	6	6	6	6	6
		7	1	2	3	4	5	6	8	9	0	1	2	3	4	5
		*TOTALS														

NONE																	
Urinary System																	
Kidney	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14
SYSTEMIC LESIONS																	
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	15

* ..Total animals with tissue examined microscopically; Total animals with tumor
 + ..Tissue examined microscopically
 X ..Lesion present
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 Lab: MBA

**FVB/N Mouse Male
 4.0 MG/KG**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	3	4	4	7	8	8	8	8	8	8	8	8	8	8	8
	3	5	8	3	2	6	6	6	6	6	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
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	8	7	7	7	6	6	6	6	7	7	7	7	7	7	7
	0	5	2	7	8	6	7	9	0	1	3	4	6	8	9
	*TOTALS														

Alimentary System

Intestine Large, Cecum	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	13
Intestine Large, Colon	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	13
Intestine Large, Rectum	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	13
Intestine Small, Duodenum	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	13
Intestine Small, Ileum	A	A	A	+	+	+	+	+	+	+	+	+	+	+	+	12
Intestine Small, Jejunum	A	A	A	+	+	+	+	+	+	+	+	+	+	+	+	12
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	15
Pancreas				+												1
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	15
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	15
Tooth	+					+	+			+	+	+		+		7

Cardiovascular System

Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	15
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Endocrine System

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	15
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	15
Pituitary Gland	+	I	I	+	+	+	+	+	+	+	+	+	+	+	+	13
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	15

General Body System

NONE

* ..Total animals with tissue examined microscopically; Total animals with tumor
 + ..Tissue examined microscopically
 X ..Lesion present
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 Lab: MBA

**FVB/N Mouse Male
 4.0 MG/KG**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	3	4	4	7	8	8	8	8	8	8	8	8	8	8	8
	3	5	8	3	2	6	6	6	6	6	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
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	8	7	7	7	6	6	6	6	7	7	7	7	7	7	7
	0	5	2	7	8	6	7	9	0	1	3	4	6	8	9
	*TOTALS														

Genital System

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	15
Penis				+												1
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	15

Hematopoietic System

Bone Marrow	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	14
Lymph Node			+													1
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	15
Lymph Node, Mediastinal	M	+	+	M	M	+	+	+	+	+	+	I	+	+	+	11
Lymph Node, Mesenteric	M	+	A	+	+	+	+	+	+	+	+	+	+	+	+	13
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	15
Thymus	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14

Integumentary System

Mammary Gland	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	0
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	15

Musculoskeletal System

NONE

Nervous System

NONE

* ..Total animals with tissue examined microscopically; Total animals with tumor
 + ..Tissue examined microscopically
 X ..Lesion present
 I ..Insufficient tissue

M ..Missing tissue
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 BLANK ..Not examined microscopically

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 CAS Number: 148-82-3

Date Report Requested: 10/20/2014
 Time Report Requested: 04:54:15
 First Dose M/F: NA / NA
 Lab: MBA

FVB/N Mouse Male
4.0 MG/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	3	4	4	7	8	8	8	8	8	8	8	8	8	8	8
	3	5	8	3	2	6	6	6	6	6	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
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	8	7	7	7	6	6	6	6	7	7	7	7	7	7	7
	0	5	2	7	8	6	7	9	0	1	3	4	6	8	9
	*TOTALS														

Respiratory System

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	15
Alveolar/Bronchiolar Adenoma				X					X	X			X			4
Alveolar/Bronchiolar Adenoma, Multiple														X		1
Alveolar/Bronchiolar Carcinoma												X				1

Special Senses System

Eye	+															1
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Urinary System

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	15
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SYSTEMIC LESIONS

Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	15
Lymphoma Malignant		X	X	X	X					X						5

END OF MALE DATA

* ..Total animals with tissue examined microscopically; Total animals with tumor
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 X ..Lesion present
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 First Dose M/F: NA / NA
 Lab: MBA

DAY ON TEST	0															*TOTALS	
	1																
FVB/N Mouse Female VEHICLE CONTROL	8																
	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
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	1	2	3	4	5	6	7	8	8	9	0	1	2	3	4	5	5

Alimentary System

Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	15
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	15
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	15
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	15
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	15
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	15
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	15
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	15
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	15

Cardiovascular System

Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	15
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Endocrine System

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	15
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	15
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	15
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	15

General Body System

NONE

Genital System

* ..Total animals with tissue examined microscopically; Total animals with tumor
 + ..Tissue examined microscopically
 X ..Lesion present
 I ..Insufficient tissue

M ..Missing tissue
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 First Dose M/F: NA / NA
 Lab: MBA

FVB/N Mouse Female VEHICLE CONTROL	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*TOTALS
	ANIMAL ID	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ovary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Uterus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Hematopoietic System																	
Bone Marrow	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	15
Lymph Node, Mandibular	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	15
Lymph Node, Mediastinal	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	15
Lymph Node, Mesenteric	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	15
Spleen	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	15
Thymus	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	15
Integumentary System																	
Mammary Gland	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	15
Skin	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	15
Musculoskeletal System																	
NONE																	
Nervous System																	
NONE																	
Respiratory System																	
Lung	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	15
Alveolar/Bronchiolar Adenoma		X															1

* ..Total animals with tissue examined microscopically; Total animals with tumor
 + ..Tissue examined microscopically
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Lab: MBA

FVB/N Mouse Female VEHICLE CONTROL	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*TOTALS
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
		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	
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	

Special Senses System

NONE

Urinary System

Kidney

+ + + + + + + + + + + + + + 15

SYSTEMIC LESIONS

Multiple Organ

+ + + + + + + + + + + + + + 15

* ..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: 97011-23
 Test Type: 26-WEEK
 Route: SKIN APPLICATION
 Species/Strain: Mouse/FVB/N

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
 Test Compound: Transgenic model evaluation (Melphalan)
 CAS Number: 148-82-3

Date Report Requested: 10/20/2014
 Time Report Requested: 04:54:15
 First Dose M/F: NA / NA
 Lab: MBA

| | | DAY ON TEST | | | | | | | | | | | | | | | | |
|---------------------------|------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------|--|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| FVB/N Mouse Female | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| | | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | | |
| | 4.0 MG/KG | 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 | | |
| | | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | |
| | | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | | |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | *TOTALS | |

Alimentary System

| | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 15 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 15 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 15 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 15 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 15 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 15 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 15 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 15 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 15 |

Cardiovascular System

| | | | | | | | | | | | | | | | | | |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 15 |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

Endocrine System

| | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | 14 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 15 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 15 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 15 |

General Body System

NONE

Genital 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: 97011-23
 Test Type: 26-WEEK
 Route: SKIN APPLICATION
 Species/Strain: Mouse/FVB/N

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Transgenic model evaluation (Melphalan)

CAS Number: 148-82-3

Date Report Requested: 10/20/2014
 Time Report Requested: 04:54:15
 First Dose M/F: NA / NA
 Lab: MBA

| FVB/N Mouse Female
4.0 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | *TOTALS |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| ANIMAL ID | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | |
| | 5 | 5 | 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 | |
| | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 15 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 15 |
| Hematopoietic System | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 15 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 15 |
| Lymph Node, Mediastinal | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 15 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 15 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 15 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 15 |
| Integumentary System | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 15 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 15 |
| Musculoskeletal System | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | |
| Nervous System | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | |
| Respiratory System | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 15 |
| Alveolar/Bronchiolar Adenoma | | | | | | | | | | | X | X | | | | 2 |
| Alveolar/Bronchiolar Adenoma, Multiple | | | | | | X | | | | | | | X | | | 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: 97011-23
 Test Type: 26-WEEK
 Route: SKIN APPLICATION
 Species/Strain: Mouse/FVB/N

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Transgenic model evaluation (Melphalan)

CAS Number: 148-82-3

Date Report Requested: 10/20/2014
 Time Report Requested: 04:54:15
 First Dose M/F: NA / NA
 Lab: MBA

**FVB/N Mouse Female
 4.0 MG/KG**

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| | 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 |
| | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | *TOTALS | | | | | | | | | | | | | | |

Carcinoma, Metastatic, Uncertain Primary Site X 1

Special Senses System

NONE

Urinary System

Kidney

+ + + + + + + + + + + + + + + 15

SYSTEMIC LESIONS

Multiple Organ

+ + + + + + + + + + + + + + + 15

**** END OF REPORT ****

* ..Total animals with tissue examined microscopically; Total animals with tumor
 + ..Tissue examined microscopically
 X ..Lesion present
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