

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
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

Experiment Number: 97011-23

Test Type: 26-WEEK

Route: SKIN APPLICATION

Species/Strain: Mouse/FVB/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014

Time Report Requested: 04:53:49

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 151

TRT#: 1

SEX: Male

DAY ON TEST: 186

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: MB380M-151

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone Marrow | * Epididymis | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Liver | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Pituitary Gland | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Testes | * Thymus |
| * Thyroid Gland | | | |

MISSING

- | | |
|---------------------------|-----------------|
| * Lymph Node, Mediastinal | * Mammary Gland |
|---------------------------|-----------------|

OBSERVATIONS

- | | | | |
|----------------------------|--------------|----------------------------------|----------------|
| * Adrenal Cortex | | Atrophy | Mild |
| * Kidney | Renal Tubule | Dilatation | Focal, Minimal |
| * Skin | | | |
| Note: SOA and control skin | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| | | Pigmentation | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 152

TRT#: 1

SEX: Male

DAY ON TEST: 186

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: MB380M-152

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Epididymis	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Atrophy	Mild
	Hypertrophy	Focal, Minimal
* Skin		
Note: SOA and control skin		
* Spleen	Hematopoietic Cell Proliferation	Mild
	Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 153

TRT#: 1

SEX: Male

DAY ON TEST: 186

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: MB380M-153

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Epididymis	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	

MISSING

* Mammary Gland

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Adrenal Cortex		Atrophy	Mild
* Kidney	Renal Tubule	Dilatation	Focal, Minimal
* Liver		Infiltration Cellular	Polymorphnuclr, Focal, Minimal
* Lung	Perivascular	Infiltration Cellular	Lymphocyte, Focal, Minimal
* Skin			
Note: SOA and control skin			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 154	TRT#: 1	SEX: Male	DAY ON TEST: 186
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO: MB380M-154

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Epididymis	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pituitary Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland			

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Atrophy	Mild
* Liver	Hepatocyte	Necrosis	Focal, Minimal
* Skin			
Note: SOA and control skin			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Germinal Epith	Degeneration	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 155

TRT#: 1

SEX: Male

DAY ON TEST: 186

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: MB380M-155

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Epididymis	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Atrophy	Mild
	Hypertrophy	Focal, Minimal
* Skin		
Note: SOA and control skin		
* Spleen	Hematopoietic Cell Proliferation	Mild
	Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melfhalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 156

TRT#: 1

SEX: Male

DAY ON TEST: 186

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: MB380M-156

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Epididymis	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Atrophy	Moderate
* Skin		
Note: SOA and control skin		
* Spleen	Hematopoietic Cell Proliferation	Mild
	Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 157

TRT#: 1

SEX: Male

DAY ON TEST: 144

DOSE: VEHICLE CONTROL

DISP: Natural Death

HISTO: MB380M-157

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Epididymis

* Heart

* Liver

* Lung

* Lymph Node, Mandibular

* Lymph Node, Mediastinal

* Lymph Node, Mesenteric

* Testes

MISSING

* Adrenal Cortex

* Adrenal Medulla

* Mammary Gland

AUTO PRECLUDES DIAG.

* Bone Marrow

* Intestine Large, Cecum

* Intestine Large, Colon

* Intestine Large, Rectum

* Intestine Small, Duodenum

* Intestine Small, Ileum

* Intestine Small, Jejunum

* Kidney

* Pituitary Gland

* Spleen

* Stomach, Forestomach

* Stomach, Glandular

* Thymus

* Thyroid Gland

OBSERVATIONS

* Kidney

Note: TGL2 - no corresponding lesion - autolysis

* Lym Node Media

Note: slide 1

* Skin

Epidermis

Hyperplasia

Focal, Minimal

Note: Epidermal hyperplasia is in section on slide 12 from the head/neck area.

Note: SOA and control skin

Note: TGL1 - no corresponding lesion

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 158

TRT#: 1

SEX: Male

DAY ON TEST: 186

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: MB380M-158

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Epididymis	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Atrophy	Moderate
	Zona Reticul	Vacuolization Cytoplasmic	Focal, Minimal
* Skin			
Note: SOA and control skin			
* Spleen		Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 159

TRT#: 1

SEX: Male

DAY ON TEST: 186

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: MB380M-159

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Epididymis	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland		

MISSING

* Mammary Gland

INSUFFICIENT TISSUE

* Pituitary Gland

OBSERVATIONS

* Adrenal Cortex	Atrophy	Mild
* Skin		
Note: SOA and control skin		
* Spleen	Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 160

TRT#: 1

SEX: Male

DAY ON TEST: 186

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: MB380M-160

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Epididymis	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pituitary Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland		

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Atrophy	Moderate
* Kidney	Renal Tubule	Dilatation	Focal, Minimal
* Skin			
Note: SOA and control skin			
* Spleen		Hematopoietic Cell Proliferation Pigmentation	Mild Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 161

TRT#: 1

SEX: Male

DAY ON TEST: 186

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: MB380M-161

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Epididymis	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Atrophy	Mild
* Skin		
Note: SOA and control skin		
* Spleen	Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 162

TRT#: 1

SEX: Male

DAY ON TEST: 186

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: MB380M-162

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Epididymis	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pituitary Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland		

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Atrophy	Moderate
		Hypertrophy	Focal, Minimal
	Zona Reticul	Vacuolization Cytoplasmic	Focal, Minimal
* Kidney	Renal Tubule	Dilatation	Focal, Minimal
* Skin			
Note: SOA and control skin			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 163

TRT#: 1

SEX: Male

DAY ON TEST: 186

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: MB380M-163

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Epididymis	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Atrophy	Moderate
	Hypertrophy	Focal, Minimal
* Skin		
Note: SOA and control skin		
* Spleen	Hematopoietic Cell Proliferation	Mild
	Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 164

TRT#: 1

SEX: Male

DAY ON TEST: 186

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: MB380M-164

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Epididymis	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Atrophy	Mild
* Kidney Note: TGL1- no corresponding lesion; 2 sections of right kidney on slide		
* Skin Note: SOA and control skin		
* Spleen	Hematopoietic Cell Proliferation Pigmentation	Mild Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 165

TRT#: 1

SEX: Male

DAY ON TEST: 186

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: MB380M-165

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Epididymis	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pituitary Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland			

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Atrophy	Mild
* Kidney	Renal Tubule	Degeneration	Focal, Minimal
* Skin			
Note: SOA and control skin			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal
* Testes	Germinal Epith	Degeneration	Mild
Note: Degeneration is unilateral			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 166

TRT#: 2
DOSE: 4.0 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 186
HISTO: MB380M-166

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Epididymis	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Kidney
* Liver	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	Tooth		

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Atrophy	Moderate
		Hypertrophy	Focal, Minimal
	Zona Reticul	Vacuolization Cytoplasmic	Focal, Minimal
* Intestine Small, Duodenum	Epithelium	Necrosis	Moderate
* Intestine Small, Ileum	Epithelium	Necrosis	Moderate
* Intestine Small, Jejunum	Epithelium	Necrosis	Moderate
* Lung	Alveolar Epith	Hyperplasia	Focal, Minimal
	Alveolus	Inflammation	Chronic Active, Focal, Minimal
* Skin			
Note: SOA and control skin			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Minimal
* Testes	Germinal Epith	Degeneration	Marked
[Degeneration TGLS = 2-9]			
* Thymus		Atrophy	Focal, Mild
Tooth			
Note: TGL1-no corresponding lesion			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 167	TRT#: 2	SEX: Male	DAY ON TEST: 186
	DOSE: 4.0 MG/KG	DISP: Terminal Sacrifice	HISTO: MB380M-167

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Epididymis	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Liver	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pituitary Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	Tooth

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Atrophy	Moderate
		Hypertrophy	Focal, Minimal
* Intestine Small, Duodenum	Epithelium	Necrosis	Moderate
* Kidney	Renal Tubule	Dilatation	Focal, Mild
* Skin			
Note: SOA and control skin			
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Mild
* Testes	Germinal Epith	Degeneration	Marked
* Thymus		Atrophy	Diffuse, Marked
Tooth			
Note: TGL1-no corresponding lesion			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 168

TRT#: 2
DOSE: 4.0 MG/KG

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 182
HISTO: MB380M-168

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Epididymis	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pituitary Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland

MISSING

* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex		Atrophy	Moderate
		Hypertrophy	Focal, Minimal
* Heart		Lymphoma Malignant	
* Kidney		Lymphoma Malignant	
* Liver		Lymphoma Malignant	
* Lung	Alveolar Epith	Hyperplasia	Focal, Marked
		Lymphoma Malignant	
* Lym Node Media			
Note: probably involved in thymic mass			
* Skin			
Note: SOA and control skin			
* Spleen		Lymphoma Malignant	
* Testes	Germinal Epith	Degeneration	Marked
* Thymus		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 2-4]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melfhalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 169	TRT#: 2	SEX: Male	DAY ON TEST: 186
	DOSE: 4.0 MG/KG	DISP: Terminal Sacrifice	HISTO: MB380M-169

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Epididymis	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pituitary Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland			

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Atrophy Hypertrophy Hyperplasia	Moderate Focal, Minimal Focal, Minimal
* Lung	Alveolar Epith		
* Skin			
Note: SOA and control skin			
* Spleen	Lymph Follic	Depletion Cellular Hematopoietic Cell Proliferation Pigmentation	Moderate Minimal Minimal
[Depletion Cellular TGLS = 1-7]			
* Testes	Germinal Epith	Degeneration	Marked
[Degeneration TGLS = 2-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 170

TRT#: 2
DOSE: 4.0 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 186
HISTO: MB380M-170

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Epididymis	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Kidney
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pituitary Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland			

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Atrophy	Marked
		Hypertrophy	Focal, Minimal
* Intestine Small, Duodenum	Epithelium	Necrosis	Moderate
* Intestine Small, Ileum	Epithelium	Necrosis	Mild
* Intestine Small, Jejunum	Epithelium	Necrosis	Mild
* Liver	Hepatocyte	Necrosis	Focal, Minimal
* Lung	Alveolus	Inflammation	Chronic Active, Focal, Minimal
* Skin			
Note: SOA and control skin			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal
* Testes	Germinal Epith	Degeneration	Marked
[Degeneration TGLS = 1-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 171

TRT#: 2
DOSE: 4.0 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 186
HISTO: MB380M-171

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Epididymis	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pituitary Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
Tooth			

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Atrophy	Moderate
	Zona Reticul	Vacuolization Cytoplasmic	Focal, Minimal
* Intestine Small, Duodenum	Epithelium	Necrosis	Moderate
* Intestine Small, Ileum	Epithelium	Necrosis	Moderate
* Intestine Small, Jejunum	Epithelium	Necrosis	Moderate
* Kidney	Renal Tubule	Dilatation	Diffuse, Mild
* Lung	Alveolar Epith	Alveolar/Bronchiolar Adenoma Hyperplasia	Focal, Minimal
Note: TGL2- no corresponding lesion [Alveolar/Bronchiolar Adenoma TGLS = 1-12]			
* Skin			
Note: SOA and control skin			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Minimal
* Testes	Germinal Epith	Degeneration	Marked
[Degeneration TGLS = 4-9]			
* Thymus		Lymphoma Malignant	
Tooth			
Note: TGL3-no corresponding lesion			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 172	TRT#: 2	SEX: Male	DAY ON TEST: 148
	DOSE: 4.0 MG/KG	DISP: Natural Death	HISTO: MB380M-172

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Epididymis	* Heart	* Lymph Node, Mandibular
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland

MISSING

* Mammary Gland

AUTO PRECLUDES DIAG.

* Bone Marrow	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mesenteric

INSUFFICIENT TISSUE

* Pituitary Gland

OBSERVATIONS

* Adrenal Cortex		Atrophy	Mild
* Kidney		Lymphoma Malignant	
* Liver		Lymphoma Malignant	
* Lung		Lymphoma Malignant	
* Lymph Node, Mediastinal		Lymphoma Malignant	
Note: probably incorporated into thymic mass			
* Skin			
Note: SOA and control skin			
* Spleen		Lymphoma Malignant	
* Testes	Germinal Epith	Degeneration	Marked
* Thymus		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 1-4]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 173

TRT#: 2
DOSE: 4.0 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 186
HISTO: MB380M-173

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Epididymis	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pituitary Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
Tooth			

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Atrophy	Moderate
		Hypertrophy	Focal, Minimal
* Intestine Small, Duodenum	Epithelium	Necrosis	Moderate
* Intestine Small, Ileum	Epithelium	Necrosis	Mild
* Intestine Small, Jejunum	Epithelium	Necrosis	Mild
* Kidney	Renal Tubule	Dilatation	Diffuse, Mild
* Lung		Alveolar/Bronchiolar Adenoma	
* Skin			
Note: SOA and control skin			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Germinal Epith	Degeneration	Marked
[Degeneration TGLS = 1-9]			
* Thymus		Atrophy	Diffuse, Marked
Tooth			
Note: TGL2 - no corresponding lesion			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 174	TRT#: 2	SEX: Male	DAY ON TEST: 186
	DOSE: 4.0 MG/KG	DISP: Terminal Sacrifice	HISTO: MB380M-174

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Epididymis	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Kidney
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	Tooth		

MISSING

* Mammary Gland

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Adrenal Cortex		Atrophy	Marked
		Hypertrophy	Focal, Minimal
* Intestine Small, Duodenum	Epithelium	Necrosis	Moderate
* Intestine Small, Ileum	Epithelium	Necrosis	Moderate
* Intestine Small, Jejunum	Epithelium	Necrosis	Moderate
* Skin			
Note: SOA and control skin			
* Spleen	Lymph Follic	Depletion Cellular	Mild
		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Minimal
* Testes	Germinal Epith	Degeneration	Marked
[Degeneration TGLS = 1-9]			
* Thymus		Atrophy	Diffuse, Marked
Tooth			
Note: TGL2 - no corresponding lesion			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 175

TRT#: 2
DOSE: 4.0 MG/KG

SEX: Male
DISP: Natural Death

DAY ON TEST: 145
HISTO: MB380M-175

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Epididymis	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland		

MISSING

* Mammary Gland

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum		

INSUFFICIENT TISSUE

* Pituitary Gland

OBSERVATIONS

* Adrenal Cortex		Atrophy	Moderate
		Hypertrophy	Focal, Minimal
* Bone Marrow		Lymphoma Malignant	
* Heart		Lymphoma Malignant	
* Kidney		Lymphoma Malignant	
* Liver		Lymphoma Malignant	
* Lung		Lymphoma Malignant	
Lymph Node		Lymphoma Malignant	
Note: inguinal lymph node			
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mediastinal		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Skin			
Note: SOA and control skin			
* Spleen		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 2-7]			
* Testes	Germinal Epith	Degeneration	Marked
* Thymus		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 4-4]			

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 175

TRT#: 2

SEX: Male

DAY ON TEST: 145

DOSE: 4.0 MG/KG

DISP: Natural Death

HISTO: MB380M-175

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 176

TRT#: 2
DOSE: 4.0 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 186
HISTO: MB380M-176

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Epididymis	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pituitary Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland			

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Atrophy	Marked
		Hypertrophy	Focal, Minimal
	Zona Reticul	Vacuolization Cytoplasmic	Focal, Minimal
* Intestine Small, Duodenum	Epithelium	Necrosis	Mild
* Intestine Small, Ileum	Epithelium	Necrosis	Mild
* Intestine Small, Jejunum	Epithelium	Necrosis	Mild
* Kidney	Renal Tubule	Dilatation	Focal, Mild
* Lung	Alveolus	Alveolar/Bronchiolar Carcinoma	
		Inflammation	Chronic Active, Focal, Minimal
		Inflammation	Chronic Active, Focal, Minimal
	[Alveolar/Bronchiolar Carcinoma TGLS = 2-12]		
* Skin			
	Note: SOA and control skin		
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Minimal
* Testes	Germinal Epith	Degeneration	Marked
	[Degeneration TGLS = 1-9]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 177

TRT#: 2
DOSE: 4.0 MG/KG

SEX: Male
DISP: Natural Death

DAY ON TEST: 173
HISTO: MB380M-177

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Epididymis	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	Pancreas	Penis	* Pituitary Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	

MISSING

* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex		Atrophy	Moderate
		Hypertrophy	Focal, Minimal
* Kidney		Lymphoma Malignant	
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Hyperplasia	Focal, Mild
Pancreas			
Note: TGL3-no corresponding lesion			
Penis			
Note: TGL1-no corresponding lesion			
* Skin			
Note: SOA and control skin			
* Spleen		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 4-7]			
* Testes	Germinal Epith	Degeneration	Marked
* Thymus		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 5-4]			
* Thyroid Gland		Cyst	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 178

TRT#: 2
DOSE: 4.0 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 186
HISTO: MB380M-178

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Epididymis	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Kidney
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pituitary Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	Tooth		

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Atrophy	Moderate
		Hypertrophy	Focal, Minimal
* Intestine Small, Duodenum	Epithelium	Necrosis	Moderate
* Intestine Small, Ileum	Epithelium	Necrosis	Moderate
* Intestine Small, Jejunum	Epithelium	Necrosis	Moderate
* Liver	Hepatocyte	Necrosis	Focal, Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
	[Alveolar/Bronchiolar Adenoma TGLS = 3-12.1]		
* Skin			
	Note: SOA and control skin		
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Minimal
* Testes	Germinal Epith	Degeneration	Marked
	[Degeneration TGLS = 1-9]		
* Thymus			
	Note: slide 2		
Tooth			
	Note: TGL2-no corresponding lesion		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 179

TRT#: 2
DOSE: 4.0 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 186
HISTO: MB380M-179

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Epididymis	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Kidney
* Liver	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland			

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Atrophy	Moderate
		Hypertrophy	Focal, Minimal
* Intestine Small, Duodenum	Epithelium	Necrosis	Moderate
* Intestine Small, Ileum	Epithelium	Necrosis	Mild
* Intestine Small, Jejunum	Epithelium	Necrosis	Mild
* Lung		Alveolar/Bronchiolar Adenoma	Multiple
	[Alveolar/Bronchiolar Adenoma TGLS = 3-1,12]		
* Skin			
	Note: SOA and control skin		
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Minimal
* Testes	Germinal Epith	Degeneration	Marked
	[Degeneration TGLS = 2-9]		
* Thymus		Atrophy	Diffuse, Marked
	[Atrophy TGLS = 1-4]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 180

TRT#: 2
DOSE: 4.0 MG/KG

SEX: Male
DISP: Natural Death

DAY ON TEST: 133
HISTO: MB380M-180

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Epididymis	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Kidney	* Liver	* Lung	* Lymph Node, Mandibular
* Pituitary Gland	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland

MISSING

* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Thymus
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AUTO PRECLUDES DIAG.

* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Adrenal Cortex		Atrophy	Mild
Eye Note: multiple retrobulbar abscesses [Inflammation TGLS = 1-13]	Retrobulbar	Inflammation	Chronic Active, Focal, Marked
* Skin Note: TGL4- no corresponding lesion Note: SOA and control skin are normal Note: TGL3 is skin of the neck and there are multiple abscesses [Inflammation TGLS = 3-12]	Subcut Tiss	Inflammation	Chronic Active, Focal, Marked
* Spleen	Lymph Follic	Depletion Cellular Hematopoietic Cell Proliferation	Marked Minimal
* Testes Tooth Note: abscesses [Inflammation TGLS = 2-15]	Germinal Epith	Degeneration Inflammation	Marked Chronic Active, Diffuse, Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 181

TRT#: 3

SEX: Female

DAY ON TEST: 185

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: MB380M-181

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Liver	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Uterus	

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Focal, Minimal
	Zona Reticul	Vacuolization Cytoplasmic	Focal, Mild
* Kidney	Renal Tubule	Dilatation	Focal, Minimal
* Skin			
Note: SOA and control skin			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 182

TRT#: 3

SEX: Female

DAY ON TEST: 185

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: MB380M-182

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pituitary Gland
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular Zona Reticul	Hyperplasia Vacuolization Cytoplasmic	Focal, Minimal Focal, Mild
* Liver	Hepatocyte	Necrosis	Focal, Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
* Ovary			
Note: TGL1 and TGL2 - no corresponding lesions			
* Skin	Epidermis, SOA	Hyperplasia	Focal, Minimal
Note: control skin is normal			
* Spleen		Hematopoietic Cell Proliferation Pigmentation	Mild Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 183

TRT#: 3

SEX: Female

DAY ON TEST: 185

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: MB380M-183

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Kidney	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland		

OBSERVATIONS

* Adrenal Cortex	Subcapsular Zona Reticul	Hyperplasia Vacuolization Cytoplasmic	Focal, Minimal Diffuse, Mild
* Liver	Hepatocyte	Necrosis	Focal, Minimal
* Skin			
Note: SOA and control skin			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Minimal
* Uterus		Hydrometra	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 184

TRT#: 3

SEX: Female

DAY ON TEST: 185

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: MB380M-184

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Kidney	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland		

OBSERVATIONS

* Adrenal Cortex	Subcapsular Zona Reticul	Hyperplasia Vacuolization Cytoplasmic	Focal, Minimal Diffuse, Mild
* Liver	Hepatocyte	Necrosis	Focal, Minimal
* Skin			
Note: SOA and control skin			
* Spleen		Hematopoietic Cell Proliferation Pigmentation	Mild Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 185	TRT#: 3	SEX: Female	DAY ON TEST: 185
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO: MB380M-185

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pituitary Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland			

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Focal, Minimal
* Liver	Hepatocyte	Necrosis	Focal, Minimal
* Lung	Alveolar Epith	Hyperplasia	Focal, Minimal
* Skin			
Note: SOA and control skin			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 186

TRT#: 3

SEX: Female

DAY ON TEST: 185

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: MB380M-186

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Kidney	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland		

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Focal, Minimal
* Liver	Hepatocyte	Necrosis	Focal, Minimal
* Skin			
Note: SOA and control skin			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 187

TRT#: 3

SEX: Female

DAY ON TEST: 185

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: MB380M-187

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Kidney	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland		

OBSERVATIONS

* Adrenal Cortex	Subcapsular Zona Reticul	Hyperplasia Vacuolization Cytoplasmic	Focal, Minimal Focal, Mild
* Liver	Hepatocyte	Necrosis	Focal, Minimal
* Skin Note: SOA and control skin Spinal Cord Note: SOA and control skin			
* Spleen		Hematopoietic Cell Proliferation Pigmentation	Minimal Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 188

TRT#: 3

SEX: Female

DAY ON TEST: 185

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: MB380M-188

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Kidney	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland		

OBSERVATIONS

* Adrenal Cortex	Subcapsular Zona Reticul	Hyperplasia Vacuolization Cytoplasmic	Focal, Minimal Focal, Minimal
* Liver	Hepatocyte	Necrosis	Focal, Minimal
* Skin			
Note: SOA and control skin			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal
* Uterus		Hydrometra	Moderate
[Hydrometra TGLS = 1-9,9.1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 189

TRT#: 3

SEX: Female

DAY ON TEST: 185

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: MB380M-189

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Kidney	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Uterus	

OBSERVATIONS

* Adrenal Cortex	Subcapsular Zona Reticul	Hyperplasia Vacuolization Cytoplasmic	Focal, Minimal Focal, Mild
* Ovary	Rete Ovarii	Cyst Necrosis	Marked Marked
Note: TGL1 is right ovary. [Necrosis TGLS = 1-9,9.1]			
* Skin	Note: SOA and control skin		
* Spleen		Hematopoietic Cell Proliferation Pigmentation	Mild Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 190

TRT#: 3

SEX: Female

DAY ON TEST: 185

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: MB380M-190

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Kidney	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland		

OBSERVATIONS

* Adrenal Cortex	Subcapsular Zona Reticul	Hyperplasia Vacuolization Cytoplasmic	Focal, Mild Diffuse, Marked
* Lung	Alveolar Epith	Hyperplasia	Focal, Minimal
* Skin Note: SOA and control skin			
* Spleen		Hematopoietic Cell Proliferation Pigmentation	Mild Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 191

TRT#: 3

SEX: Female

DAY ON TEST: 185

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: MB380M-191

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Kidney	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pituitary Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	

OBSERVATIONS

* Adrenal Cortex	Zona Reticul	Vacuolization Cytoplasmic	Diffuse, Moderate
* Skin			
Note: SOA and control skin			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 192	TRT#: 3	SEX: Female	DAY ON TEST: 185
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO: MB380M-192

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Kidney	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pituitary Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	

OBSERVATIONS

* Adrenal Cortex	Zona Reticul	Vacuolization Cytoplasmic	Focal, Mild
* Skin			
Note: SOA and control skin			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 193

TRT#: 3

SEX: Female

DAY ON TEST: 185

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: MB380M-193

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Kidney	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland		

OBSERVATIONS

* Adrenal Cortex	Zona Reticul	Vacuolization Cytoplasmic	Focal, Minimal
* Liver	Hepatocyte	Necrosis	Focal, Minimal
* Skin			
Note: SOA and control skin			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Minimal
* Uterus		Hydrometra	Marked
Note: hydrometra affects only the left horn [Hydrometra TGLS = 1-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 97011-23

Test Type: 26-WEEK

Route: SKIN APPLICATION

Species/Strain: Mouse/FVB/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014

Time Report Requested: 04:53:49

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 194

TRT#: 3

SEX: Female

DAY ON TEST: 185

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: MB380M-194

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Kidney	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pituitary Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	

OBSERVATIONS

* Adrenal Cortex	Zona Reticul	Vacuolization Cytoplasmic	Focal, Mild
* Skin			
Note: SOA and control skin			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 195

TRT#: 3

SEX: Female

DAY ON TEST: 185

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: MB380M-195

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pituitary Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	

OBSERVATIONS

* Kidney	Renal Tubule	Dilatation	Diffuse, Mild
* Skin			
Note: SOA and control skin			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 196

TRT#: 4

SEX: Female

DAY ON TEST: 185

DOSE: 4.0 MG/KG

DISP: Terminal Sacrifice

HISTO: MB380M-196

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Kidney
* Liver	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pituitary Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Uterus			

OBSERVATIONS

* Intestine Small, Duodenum	Epithelium	Necrosis	Moderate
* Intestine Small, Ileum	Epithelium	Necrosis	Mild
* Intestine Small, Jejunum	Epithelium	Necrosis	Mild
* Lung	Alveolar Epith	Hyperplasia	Focal, Mild
* Skin			
Note: SOA and control skin			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 197	TRT#: 4	SEX: Female	DAY ON TEST: 185
	DOSE: 4.0 MG/KG	DISP: Terminal Sacrifice	HISTO: MB380M-197

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Kidney	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pituitary Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	

OBSERVATIONS

* Adrenal Cortex	Zona Reticul	Vacuolization Cytoplasmic	Diffuse, Mild
* Intestine Small, Duodenum	Epithelium	Necrosis	Moderate
* Intestine Small, Ileum	Epithelium	Necrosis	Mild
* Intestine Small, Jejunum	Epithelium	Necrosis	Mild
* Liver	Hepatocyte	Necrosis	Focal, Minimal
* Skin			
Note: SOA and control skin			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Minimal
* Thymus			
Note: best section is on slide 2			
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 198

TRT#: 4

SEX: Female

DAY ON TEST: 185

DOSE: 4.0 MG/KG

DISP: Terminal Sacrifice

HISTO: MB380M-198

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Kidney
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pituitary Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Uterus		

OBSERVATIONS

* Intestine Small, Duodenum	Epithelium	Necrosis	Moderate
* Intestine Small, Ileum	Epithelium	Necrosis	Mild
* Intestine Small, Jejunum	Epithelium	Necrosis	Moderate
* Skin			
Note: SOA and control skin			
* Spleen		Hematopoietic Cell Proliferation Pigmentation	Mild Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 199

TRT#: 4

SEX: Female

DAY ON TEST: 185

DOSE: 4.0 MG/KG

DISP: Terminal Sacrifice

HISTO: MB380M-199

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Kidney	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pituitary Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	

OBSERVATIONS

* Intestine Small, Duodenum	Epithelium	Necrosis	Mild
* Intestine Small, Ileum	Epithelium	Necrosis	Mild
* Intestine Small, Jejunum	Epithelium	Necrosis	Mild
* Skin			
Note: SOA and control skin			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Minimal
* Thymus		Atrophy	Focal, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 200

TRT#: 4

SEX: Female

DAY ON TEST: 185

DOSE: 4.0 MG/KG

DISP: Terminal Sacrifice

HISTO: MB380M-200

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Kidney	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pituitary Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Uterus

OBSERVATIONS

* Adrenal Cortex	Subcapsular Zona Reticul	Hyperplasia Vacuolization Cytoplasmic	Focal, Minimal Focal, Mild
* Intestine Small, Duodenum	Epithelium	Necrosis	Moderate
* Intestine Small, Ileum	Epithelium	Necrosis	Mild
* Intestine Small, Jejunum	Epithelium	Necrosis	Moderate
* Lung		Carcinoma	Metastatic (Uncertain Primary Site)
* Skin			
Note: SOA and control skin			
* Spleen		Hematopoietic Cell Proliferation Pigmentation	Mild Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 201	TRT#: 4 DOSE: 4.0 MG/KG	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 185 HISTO: MB380M-201
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Kidney	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pituitary Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	

OBSERVATIONS

* Adrenal Cortex	Zona Reticul	Vacuolization Cytoplasmic	Focal, Mild
* Intestine Small, Duodenum	Epithelium	Necrosis	Mild
* Intestine Small, Ileum	Epithelium	Necrosis	Mild
* Intestine Small, Jejunum	Epithelium	Necrosis	Moderate
* Lung		Alveolar/Bronchiolar Adenoma	Multiple
* Skin			
Note: SOA and control skin			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 202

TRT#: 4
DOSE: 4.0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 185
HISTO: MB380M-202

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pituitary Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
	Zona Reticul	Vacuolization Cytoplasmic	Focal, Minimal
* Intestine Small, Duodenum	Epithelium	Necrosis	Moderate
* Intestine Small, Ileum	Epithelium	Necrosis	Mild
* Intestine Small, Jejunum	Epithelium	Necrosis	Mild
* Kidney	Renal Tubule	Dilatation	Focal, Minimal
* Skin			
Note: SOA and control skin			
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 203

TRT#: 4

SEX: Female

DAY ON TEST: 185

DOSE: 4.0 MG/KG

DISP: Terminal Sacrifice

HISTO: MB380M-203

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Kidney	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pituitary Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	

OBSERVATIONS

* Adrenal Cortex	Zona Reticul	Vacuolization Cytoplasmic	Focal, Minimal
* Intestine Small, Duodenum	Epithelium	Necrosis	Mild
* Intestine Small, Ileum	Epithelium	Necrosis	Minimal
* Intestine Small, Jejunum	Epithelium	Necrosis	Mild
* Lung	Alveolar Epith	Hyperplasia	Focal, Moderate
	Alveolus	Inflammation	Chronic Active, Focal, Minimal
* Skin			
Note: SOA and control skin			
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 204

TRT#: 4

SEX: Female

DAY ON TEST: 185

DOSE: 4.0 MG/KG

DISP: Terminal Sacrifice

HISTO: MB380M-204

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Kidney	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pituitary Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Uterus

OBSERVATIONS

* Adrenal Cortex	Subcapsular Zona Reticul	Hyperplasia Vacuolization Cytoplasmic	Focal, Minimal Focal, Minimal
* Intestine Small, Duodenum	Epithelium	Necrosis	Moderate
* Intestine Small, Ileum	Epithelium	Necrosis	Mild
* Intestine Small, Jejunum	Epithelium	Necrosis	Mild
* Lung	Alveolar Epith	Hyperplasia	Focal, Minimal
* Skin			
Note: SOA and control skin			
* Spleen		Hematopoietic Cell Proliferation Pigmentation	Moderate Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 205	TRT#: 4	SEX: Female	DAY ON TEST: 185
	DOSE: 4.0 MG/KG	DISP: Terminal Sacrifice	HISTO: MB380M-205

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Kidney	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pituitary Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland

OBSERVATIONS

* Adrenal Cortex	Zona Reticul	Vacuolization Cytoplasmic	Focal, Minimal
* Intestine Small, Duodenum	Epithelium	Necrosis	Moderate
* Intestine Small, Ileum	Epithelium	Necrosis	Minimal
* Intestine Small, Jejunum	Epithelium	Necrosis	Moderate
* Skin			
Note: SOA and control skin			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 206

TRT#: 4
DOSE: 4.0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 185
HISTO: MB380M-206

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Kidney	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland		

OBSERVATIONS

* Adrenal Cortex	Zona Reticul	Vacuolization Cytoplasmic	Diffuse, Mild
* Intestine Small, Duodenum	Epithelium	Necrosis	Moderate
* Intestine Small, Ileum	Epithelium	Necrosis	Moderate
* Intestine Small, Jejunum	Epithelium	Necrosis	Moderate
* Lung	Alveolar Epith	Alveolar/Bronchiolar Adenoma	Focal, Minimal
	Alveolus	Inflammation	Chronic Active, Focal, Minimal
	[Alveolar/Bronchiolar Adenoma TGLS = 2-12]		
* Ovary	Periovarn Tiss	Hemorrhage	Focal, Minimal
	[Hemorrhage TGLS = 1-9]		
* Skin			
Note: SOA and control skin			
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 207

TRT#: 4
DOSE: 4.0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 185
HISTO: MB380M-207

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Kidney	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pituitary Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	

OBSERVATIONS

* Adrenal Cortex	Subcapsular Zona Reticul	Hyperplasia Vacuolization Cytoplasmic	Focal, Minimal Focal, Mild
* Intestine Small, Duodenum	Epithelium	Necrosis	Moderate
* Intestine Small, Ileum	Epithelium	Necrosis	Mild
* Intestine Small, Jejunum	Epithelium	Necrosis	Mild
* Lung	Alveolar Epith	Alveolar/Bronchiolar Adenoma Hyperplasia	Focal, Minimal
* Skin Note: SOA and control skin			
* Spleen		Hematopoietic Cell Proliferation Pigmentation	Moderate Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 208

TRT#: 4
DOSE: 4.0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 185
HISTO: MB380M-380

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Kidney	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland		

OBSERVATIONS

* Adrenal Cortex	Zona Reticul	Vacuolization Cytoplasmic	Focal, Minimal
* Intestine Small, Duodenum	Epithelium	Necrosis	Mild
* Intestine Small, Ileum	Epithelium	Necrosis	Mild
* Intestine Small, Jejunum	Epithelium	Necrosis	Mild
* Liver	Hepatocyte	Vacuolization Cytoplasmic	Focal, Mild
* Lung		Alveolar/Bronchiolar Adenoma	Multiple
[Alveolar/Bronchiolar Adenoma TGLS = 1-12]			
* Skin			
Note: SOA and control skin			
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 209

TRT#: 4

SEX: Female

DAY ON TEST: 185

DOSE: 4.0 MG/KG

DISP: Terminal Sacrifice

HISTO: MB380M-209

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Kidney	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pituitary Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland		

OBSERVATIONS

* Adrenal Cortex	Zona Reticul	Vacuolization Cytoplasmic	Focal, Minimal
* Intestine Small, Duodenum	Epithelium	Necrosis	Moderate
* Intestine Small, Ileum	Epithelium	Necrosis	Mild
* Intestine Small, Jejunum	Epithelium	Necrosis	Moderate
* Lung	Alveolar Epith	Hyperplasia	Focal, Minimal
* Skin			
Note: SOA and control skin			
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Minimal
* Thymus		Atrophy	Focal, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Transgenic model evaluation (Melphalan)
CAS Number: 148-82-3

Date Report Requested: 10/20/2014
Time Report Requested: 04:53:49
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 210	TRT#: 4	SEX: Female	DAY ON TEST: 185
	DOSE: 4.0 MG/KG	DISP: Terminal Sacrifice	HISTO: MB380M-210

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Kidney	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pituitary Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	

OBSERVATIONS

* Adrenal Cortex	Zona Reticul	Vacuolization Cytoplasmic	Focal, Mild
* Intestine Small, Duodenum	Epithelium	Necrosis	Mild
* Intestine Small, Ileum	Epithelium	Necrosis	Mild
* Intestine Small, Jejunum	Epithelium	Necrosis	Moderate
* Lung	Alveolar Epith	Hyperplasia	Focal, Minimal
* Skin			
Note: SOA and control skin			
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

**** END OF REPORT ****

* PROTOCOL REQUIRED TISSUE