

**Experiment Number:** 55323-01  
**Test Type:** 90-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**Test Compound:** Lauric acid diethanolamine condensate  
**CAS Number:** 120-40-1

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 01:31:21  
**First Dose M/F:** NA / NA  
**Lab:** BAT

<b>C Number:</b>	C55323B
<b>Lock Date:</b>	08/11/1992
<b>Cage Range:</b>	All
<b>Date Range:</b>	All
<b>Reasons For Removal:</b>	All
<b>Removal Date Range:</b>	All
<b>Treatment Groups:</b>	All
<b>Study Gender:</b>	Both
<b>PWG Approval Date</b>	NONE

Experiment Number: 55323-01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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CAS Number: 120-40-1

Date Report Requested: 10/23/2014

Time Report Requested: 01:31:21

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male  
0 MG/KG

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

Alimentary System

Esophagus	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10
Parasite Metazoan			X								1
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	10
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10

Cardiovascular System

Heart	+	+	+	+	+	+	+	+	+	+	10
Cardiomyopathy			1		1			1	2		4 1.3

Endocrine System

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
Hyperplasia	1										1 1.0
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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Species/Strain: Rat/F 344/N

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Date Report Requested: 10/23/2014

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First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male  
0 MG/KG

	DAY ON TEST										
	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	1	2	3	4	5	6	7	8	9	0	
	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	
	3	3	3	3	3	3	3	3	3	3	
	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	1	0	
	1	2	3	4	5	6	7	8	9	0	<b>*TOTALS</b>
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	10
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10
<b>General Body System</b>											
Tissue NOS			+			+	+				3
<b>Genital System</b>											
Epididymis	+	+	+	+	+	+	+	+	+	+	10
Preputial Gland	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active	1		1	2		2	1	1	1	2	8 1.4
Prostate	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active					1				2		2 1.5
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	10
Testes	+	+	+	+	+	+	+	+	+	+	10
<b>Hematopoietic System</b>											
Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10
Spleen	+	+	+	+	+	+	+	+	+	+	10
Thymus	+	+	+	+	+	+	+	+	+	+	10
<b>Integumentary System</b>											

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X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

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BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 55323-01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Lauric acid diethanolamine condensate

CAS Number: 120-40-1

Date Report Requested: 10/23/2014

Time Report Requested: 01:31:21

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male  
0 MG/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0

\*TOTALS

Integumentary System

Mammary Gland	M	+	+	+	M	+	M	+	+	+	7
Skin	+	+	+	+	+	+	+	+	+	+	10

Musculoskeletal System

Bone	+	+	+	+	+	+	+	+	+	+	10
------	---	---	---	---	---	---	---	---	---	---	----

Nervous System

Brain	+	+	+	+	+	+	+	+	+	+	10
-------	---	---	---	---	---	---	---	---	---	---	----

Respiratory System

Lung	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic	2						2				2 2.0
Nose	+	+	+	+	+	+	+	+	+	+	10
Trachea	+	+	+	+	+	+	+	+	+	+	10

Special Senses System

NONE

Urinary System

Kidney	+	+	+	+	+	+	+	+	+	+	10
Renal Tubule, Regeneration	1	1	1	1	1	1	1	1	1	1	10 1.0
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	10

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Date Report Requested: 10/23/2014  
 Time Report Requested: 01:31:21  
 First Dose M/F: NA / NA  
 Lab: BAT

**F 344/N Rat Male**  
**25 MG/KG**

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

**Alimentary System**

NONE

**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

NONE

**Hematopoietic System**

NONE

**Integumentary System**

Skin + + + + + + + + + + 10

Epidermis, SOA, Hyperplasia 1 1 2 1.0

**Musculoskeletal System**

NONE

**Nervous System**

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+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

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Species/Strain: Rat/F 344/N

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Test Compound: Lauric acid diethanolamine condensate

CAS Number: 120-40-1

Date Report Requested: 10/23/2014

Time Report Requested: 01:31:21

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male  
25 MG/KG

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

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

Kidney + + + + + + + + + 10

Renal Tubule, Regeneration 1 1 1 1 1 1 1 1 1 1 10 1.0

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Species/Strain: Rat/F 344/N

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Test Compound: Lauric acid diethanolamine condensate

CAS Number: 120-40-1

Date Report Requested: 10/23/2014

Time Report Requested: 01:31:21

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male  
50 MG/KG

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

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

Skin + + + + + + + + + + 10

Epidermis, SOA, Hyperplasia 1 1 1 1 1 1 1 1 8 1.0

SOA, Sebaceous GI, Hyperplasia 1 1 1 1 1 1 1 1 8 1.0

Musculoskeletal System

NONE

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X ..Lesion present

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M ..Missing tissue

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1-4 ..Lesion qualified as:

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Species/Strain: Rat/F 344/N

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Test Compound: Lauric acid diethanolamine condensate

CAS Number: 120-40-1

Date Report Requested: 10/23/2014

Time Report Requested: 01:31:21

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male  
50 MG/KG

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

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

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

Renal Tubule, Regeneration 1 1 1 1 1 1 1 1 1 1 10 1.0

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1-4 ..Lesion qualified as:

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Experiment Number: 55323-01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Lauric acid diethanolamine condensate

CAS Number: 120-40-1

Date Report Requested: 10/23/2014

Time Report Requested: 01:31:21

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male  
100 MG/KG

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

Alimentary System

Liver											+	+	2
Hepatodiaphragmatic Nodule											X	X	2

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

Skin											+	+	+	+	+	+	+	+	+	+	10	
Epidermis, SOA, Hyperplasia											2	2	2	2	2	2	2	2	2	3	10	2.1
SOA, Inflammation, Chronic Active																				2	1	2.0
SOA, Parakeratosis														1						4	2	2.5
SOA, Sebaceous GI, Hyperplasia											2	2	2	2	2	2	2	2	2	3	10	2.1

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Experiment Number: 55323-01

Test Type: 90-DAY

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Species/Strain: Rat/F 344/N

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CAS Number: 120-40-1

Date Report Requested: 10/23/2014

Time Report Requested: 01:31:21

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male  
100 MG/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0			
	9	9	9	9	9	9	9	9	9	9			
	3	3	3	3	3	3	3	3	3	3			
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			
	3	3	3	3	3	3	3	3	3	4			
	1	2	3	4	5	6	7	8	9	0	*TOTALS		
											1	1	1.0

SOA, Ulcer  
Musculoskeletal System

NONE  
Nervous System

NONE  
Respiratory System

NONE  
Special Senses System

NONE  
Urinary System

Kidney	+	+	+	+	+	+	+	+	+	9		
Renal Tubule, Regeneration	1	1	1	1	1	1	1	1	1	9	1.0	

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+ ..Tissue examined microscopically

X ..Lesion present

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1-4 ..Lesion qualified as:

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Experiment Number: 55323-01  
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 Species/Strain: Rat/F 344/N

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Date Report Requested: 10/23/2014  
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 First Dose M/F: NA / NA  
 Lab: BAT

**F 344/N Rat Male**  
**200 MG/KG**

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

**Alimentary System**

Liver	+	1
Hepatodiaphragmatic Nodule	X	1

**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

NONE

**Hematopoietic System**

NONE

**Integumentary System**

Skin	+	+	+	+	+	+	+	+	+	+	10	
Epidermis, SOA, Hyperplasia	2	3	2	2	3	3	3	3	3	3	10	2.7
SOA, Inflammation, Chronic Active	1	2	2	3	3	2	2	2	3	2	10	2.2
SOA, Parakeratosis	2	2	3	3	3	3	3	3	3	3	10	2.8
SOA, Sebaceous GI, Hyperplasia	2	3	2	2	3	3	2	2	3	2	10	2.4

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Species/Strain: Rat/F 344/N

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Test Compound: Lauric acid diethanolamine condensate

CAS Number: 120-40-1

Date Report Requested: 10/23/2014

Time Report Requested: 01:31:22

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male  
200 MG/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0		
	9	9	9	9	9	9	9	9	9	9		
	3	3	3	3	3	3	3	3	3	3		
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		
	4	4	4	4	4	4	4	4	4	5		
	1	2	3	4	5	6	7	8	9	0		
	<b>*TOTALS</b>											
SOA, Ulcer	3	4	3	4	3	2	2	2	3	3	10	2.9
<b>Musculoskeletal System</b>												
NONE												
<b>Nervous System</b>												
NONE												
<b>Respiratory System</b>												
NONE												
<b>Special Senses System</b>												
NONE												
<b>Urinary System</b>												
Kidney	+	+	+	+	+	+	+	+	+	+	10	
Renal Tubule, Regeneration	1	1	1	1	1	1	1	1	1	1	10	1.0

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Date Report Requested: 10/23/2014  
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 First Dose M/F: NA / NA  
 Lab: BAT

**F 344/N Rat Male**  
**400 MG/KG**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3
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
	5	5	5	5	5	5	5	5	5	6
	1	2	3	4	5	6	7	8	9	0
	<b>*TOTALS</b>									

**Alimentary System**

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

**Cardiovascular System**

Heart	+	+	+	+	+	+	+	+	+	+	10
Cardiomyopathy	1			1						1	3 1.0

**Endocrine System**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	M	+	+	+	+	+	+	+	+	+	9

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 55323-01  
 Test Type: 90-DAY  
 Route: SKIN APPLICATION  
 Species/Strain: Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: Lauric acid diethanolamine condensate  
 CAS Number: 120-40-1

Date Report Requested: 10/23/2014  
 Time Report Requested: 01:31:22  
 First Dose M/F: NA / NA  
 Lab: BAT

**F 344/N Rat Male**  
**400 MG/KG**

	DAY ON TEST										
	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	3	3	3	3	3	3	3	3	3	3	
	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	
	5	5	5	5	5	5	5	5	5	6	
	1	2	3	4	5	6	7	8	9	0	<b>*TOTALS</b>
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10
<b>General Body System</b>											
Tissue NOS			+		+			+			3
<b>Genital System</b>											
Epididymis	+	+	+	+	+	+	+	+	+	+	10
Preputial Gland	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active			1	1							2 1.0
Prostate	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active				2			2				2 2.0
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	10
Testes	+	+	+	+	+	+	+	+	+	+	10
<b>Hematopoietic System</b>											
Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10
Spleen	+	+	+	+	+	+	+	+	+	+	10
Thymus	+	+	+	+	+	+	+	+	+	+	10
<b>Integumentary System</b>											
Mammary Gland	+	+	+	+	+	+	+	+	+	+	10
Skin	+	+	+	+	+	+	+	+	+	+	10

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue

M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

Experiment Number: 55323-01  
 Test Type: 90-DAY  
 Route: SKIN APPLICATION  
 Species/Strain: Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Test Compound: Lauric acid diethanolamine condensate  
 CAS Number: 120-40-1

Date Report Requested: 10/23/2014  
 Time Report Requested: 01:31:22  
 First Dose M/F: NA / NA  
 Lab: BAT

**F 344/N Rat Male**  
**400 MG/KG**

	DAY ON TEST											
	0	0	0	0	0	0	0	0	0	0		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	*TOTALS	
	3	3	3	3	3	3	3	3	3	3		
Skin	+	+	+	+	+	+	+	+	+	+	10	
Epidermis, SOA, Hyperplasia	3	3	3	3	3	3	3	3	3	3	10	3.0
SOA, Inflammation, Chronic Active	3	3	3	4	3	4	3	3	3	3	10	3.2
SOA, Parakeratosis	4	4	3	4	4	4	4	4	4	4	10	3.9
SOA, Sebaceous Gl, Hyperplasia	3	3	3	3	3	3	3	3	3	3	10	3.0
SOA, Ulcer	4	3	3	4	4	4	3	2	4	3	10	3.4
<b>Musculoskeletal System</b>												
Bone	+	+	+	+	+	+	+	+	+	+	10	
<b>Nervous System</b>												
Brain	+	+	+	+	+	+	+	+	+	+	10	
<b>Respiratory System</b>												
Lung	+	+	+	+	+	+	+	+	+	+	10	
Inflammation, Chronic						2					1	2.0
Nose	+	+	+	+	+	+	+	+	+	+	10	
Trachea	+	+	+	+	+	+	+	+	+	+	10	
<b>Special Senses System</b>												
NONE												
<b>Urinary System</b>												
Kidney	+	+	+	+	+	+	+	+	+	+	10	
Mineralization							1				1	1.0

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 55323-01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Lauric acid diethanolamine condensate

CAS Number: 120-40-1

Date Report Requested: 10/23/2014

Time Report Requested: 01:31:22

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male  
400 MG/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	
	3	3	3	3	3	3	3	3	3	3	
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	
	5	5	5	5	5	5	5	5	5	6	
	1	2	3	4	5	6	7	8	9	0	
	*TOTALS										
Renal Tubule, Regeneration	1	1	1	1	1	1	1	1			8 1.0
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	10

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

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked



Experiment Number: 55323-01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Lauric acid diethanolamine condensate

CAS Number: 120-40-1

Date Report Requested: 10/23/2014

Time Report Requested: 01:31:22

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female  
0 MG/KG

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

Alimentary System

Esophagus	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10
Parasite Metazoan			X								1
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	10
Basophilic Focus							X				1
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10

Cardiovascular System

Heart	+	+	+	+	+	+	+	+	+	+	10
Coron Artery, Inflammation, Chronic										2	1 2.0

Endocrine System

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 55323-01  
 Test Type: 90-DAY  
 Route: SKIN APPLICATION  
 Species/Strain: Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: Lauric acid diethanolamine condensate  
 CAS Number: 120-40-1

Date Report Requested: 10/23/2014  
 Time Report Requested: 01:31:22  
 First Dose M/F: NA / NA  
 Lab: BAT

**F 344/N Rat Female**  
**0 MG/KG**

	DAY ON TEST												
	0	0	0	0	0	0	0	0	0	0			
ANIMAL ID	0	0	0	0	0	0	0	0	0	0			
	3	3	3	3	3	3	3	3	3	3			
	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			
	6	6	6	6	6	6	6	6	6	7			
	1	2	3	4	5	6	7	8	9	0	<b>*TOTALS</b>		
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10		
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	10		
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10		
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10		
<b>General Body System</b>													
NONE													
<b>Genital System</b>													
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	10		
Inflammation, Chronic Active	1	1	1	1	1	1	1	1	1	1	10	1.0	
Ovary	+	+	+	+	+	+	+	+	+	+	10		
Periovarn Tiss, Cyst					1		2			2	3	1.7	
Uterus	+	+	+	+	+	+	+	+	+	+	10		
<b>Hematopoietic System</b>													
Bone Marrow	+	+	+	+	+	+	+	+	+	+	10		
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	10		
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10		
Spleen	+	+	+	+	+	+	+	+	+	+	10		
Thymus	+	+	+	+	+	+	+	+	+	+	10		
<b>Integumentary System</b>													
Mammary Gland	+	+	+	+	+	+	+	+	+	+	10		
Skin	+	+	+		+	+	+	+	+	+	9		

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue

M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

Experiment Number: 55323-01  
 Test Type: 90-DAY  
 Route: SKIN APPLICATION  
 Species/Strain: Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: Lauric acid diethanolamine condensate  
 CAS Number: 120-40-1

Date Report Requested: 10/23/2014  
 Time Report Requested: 01:31:22  
 First Dose M/F: NA / NA  
 Lab: BAT

**F 344/N Rat Female**  
**0 MG/KG**

	DAY ON TEST												
	0	0	0	0	0	0	0	0	0	0			
ANIMAL ID	0	0	0	0	0	0	0	0	0	0			
	3	3	3	3	3	3	3	3	3	3			
	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			
	6	6	6	6	6	6	6	6	6	7			
	1	2	3	4	5	6	7	8	9	0	<b>*TOTALS</b>		
Skin	+	+	+		+	+	+	+	+	+	9		
Skin, Control				+							1		
Nipple, Cyst Epithelial Inclusion				X							1		
<b>Musculoskeletal System</b>													
Bone	+	+	+	+	+	+	+	+	+	+	10		
<b>Nervous System</b>													
Brain	+	+	+	+	+	+	+	+	+	+	10		
<b>Respiratory System</b>													
Lung	+	+	+	+	+	+	+	+	+	+	10		
Nose	+	+	+	+	+	+	+	+	+	+	10		
Inflammation, Chronic Active				2			2	1		3	4	2.0	
Trachea	+	+	+	+	+	+	+	+	+	+	10		
<b>Special Senses System</b>													
NONE													
<b>Urinary System</b>													
Kidney	+	+	+	+	+	+	+	+	+	+	10		
Mineralization	1	1	2	1	1	1	1	1	1	1	10	1.1	
Renal Tubule, Regeneration						1	1			1	3	1.0	
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	10		

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue

M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

Experiment Number: 55323-01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Lauric acid diethanolamine condensate

CAS Number: 120-40-1

Date Report Requested: 10/23/2014

Time Report Requested: 01:31:22

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female  
25 MG/KG

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

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

Skin	+	+	+	+	+	+	+	+	+	+	10
------	---	---	---	---	---	---	---	---	---	---	----

Epidermis, SOA, Hyperplasia	1		1		1	1		1	1		6	1.0
-----------------------------	---	--	---	--	---	---	--	---	---	--	---	-----

Musculoskeletal System

NONE

Nervous System

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 55323-01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Test Compound: Lauric acid diethanolamine condensate

CAS Number: 120-40-1

Date Report Requested: 10/23/2014

Time Report Requested: 01:31:22

First Dose M/F: NA / NA

Lab: BAT

**F 344/N Rat Female  
25 MG/KG**

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

NONE  
**Respiratory System**

NONE  
**Special Senses System**

NONE  
**Urinary System**

Kidney	+	+	+	+	+	+	+	+	+	+	10	
Mineralization	1	1	1	1	1	1	1	1	1	1	10	1.0
Renal Tubule, Regeneration	1										1	1.0

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 55323-01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Lauric acid diethanolamine condensate

CAS Number: 120-40-1

Date Report Requested: 10/23/2014

Time Report Requested: 01:31:22

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female  
50 MG/KG

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

Alimentary System

Liver											+	+	2
Hepatodiaphragmatic Nodule											X	X	2

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

Ovary											+		1
Periovarn Tiss, Cyst											2		1 2.0

Hematopoietic System

NONE

Integumentary System

Skin											+	+	+	+	+	+	+	+	+	+	10
Epidermis, SOA, Hyperplasia												1	1	1	1		1		1	1	7 1.0
SOA, Sebaceous Gl, Hyperplasia												1	1	1	1		1		1	1	7 1.0

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 55323-01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Lauric acid diethanolamine condensate

CAS Number: 120-40-1

Date Report Requested: 10/23/2014

Time Report Requested: 01:31:22

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female  
50 MG/KG

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

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

Kidney

+ + + + + + + + + + 10

Mineralization

1 1 1 1 1 1 1 1 1 1 10 1.0

Renal Tubule, Regeneration

1 1 1.0

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 55323-01  
 Test Type: 90-DAY  
 Route: SKIN APPLICATION  
 Species/Strain: Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: Lauric acid diethanolamine condensate  
 CAS Number: 120-40-1

Date Report Requested: 10/23/2014  
 Time Report Requested: 01:31:22  
 First Dose M/F: NA / NA  
 Lab: BAT

**F 344/N Rat Female**  
**100 MG/KG**

| DAY ON TEST | 0              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------|----------------|---|---|---|---|---|---|---|---|---|
|             | 0              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 9              | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
|             | 3              | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| ANIMAL ID   | 0              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 0              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 0              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
|             | 9              | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |
|             | 1              | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
|             | <b>*TOTALS</b> |   |   |   |   |   |   |   |   |   |

**Alimentary System**

Liver + 1  
 Hepatodiaphragmatic Nodule X 1

**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

NONE

**Hematopoietic System**

NONE

**Integumentary System**

Skin + + + + + + + + + 10  
 Epidermis, SOA, Hyperplasia 2 2 2 2 1 1 2 2 2 9 1.8  
 SOA, Hyperkeratosis 2 1 2.0  
 SOA, Sebaceous GI, Hyperplasia 2 2 2 2 1 2 2 2 8 1.9

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked



Experiment Number: 55323-01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Lauric acid diethanolamine condensate

CAS Number: 120-40-1

Date Report Requested: 10/23/2014

Time Report Requested: 01:31:22

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female  
100 MG/KG

|             |   |   |   |   |   |   |   |   |   |   |
|-------------|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
|             | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| ANIMAL ID   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
|             | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |
|             | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

\*TOTALS

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

Kidney

+ + + + + + + + + + 10

Mineralization

1 1 1 1 1 1 1 1 1 1 10 1.0

Renal Tubule, Regeneration

1 1 2 1.0

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 55323-01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Lauric acid diethanolamine condensate

CAS Number: 120-40-1

Date Report Requested: 10/23/2014

Time Report Requested: 01:31:22

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female  
200 MG/KG

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

Alimentary System

|                            |   |  |  |  |  |  |  |  |  |  |  |   |
|----------------------------|---|--|--|--|--|--|--|--|--|--|--|---|
| Liver                      | + |  |  |  |  |  |  |  |  |  |  | 1 |
| Hepatodiaphragmatic Nodule | X |  |  |  |  |  |  |  |  |  |  | 1 |

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

|                                   |   |   |   |   |   |   |   |   |   |   |    |     |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|----|-----|
| Skin                              | + | + | + | + | + | + | + | + | + | + |    | 10  |
| Epidermis, SOA, Hyperplasia       | 1 | 2 | 3 | 3 | 2 | 2 | 3 | 3 | 2 | 3 | 10 | 2.4 |
| SOA, Hyperkeratosis               |   | 2 |   |   |   |   |   |   | 2 |   | 2  | 2.0 |
| SOA, Inflammation, Chronic Active |   | 1 | 3 | 3 | 1 | 2 | 2 | 3 | 1 | 2 | 9  | 2.0 |
| SOA, Parakeratosis                |   |   | 3 | 3 | 1 | 2 | 4 | 3 |   | 3 | 7  | 2.7 |

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 55323-01  
 Test Type: 90-DAY  
 Route: SKIN APPLICATION  
 Species/Strain: Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: Lauric acid diethanolamine condensate  
 CAS Number: 120-40-1

Date Report Requested: 10/23/2014  
 Time Report Requested: 01:31:22  
 First Dose M/F: NA / NA  
 Lab: BAT

**F 344/N Rat Female**  
**200 MG/KG**

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                |
|-------------|---|---|---|---|---|---|---|---|---|---|----------------|
|             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                |
|             | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |                |
|             | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |                |
| ANIMAL ID   | 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 |                |
|             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |                |
|             | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | <b>*TOTALS</b> |

|                                |   |   |   |   |   |   |   |   |   |   |     |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|-----|
| SOA, Sebaceous GI, Hyperplasia | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 9 | 2.1 |
| SOA, Ulcer                     |   | 3 | 3 |   | 2 | 3 | 3 |   |   | 5 | 2.8 |

**Musculoskeletal System**

NONE

**Nervous System**

NONE

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

|                            |   |   |   |   |   |   |   |   |   |   |        |
|----------------------------|---|---|---|---|---|---|---|---|---|---|--------|
| Kidney                     | + | + | + | + | + | + | + | + | + | + | 10     |
| Mineralization             | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 10 1.0 |
| Renal Tubule, Regeneration | 1 | 1 | 1 |   |   | 1 | 1 | 1 |   |   | 6 1.0  |

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 55323-01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Lauric acid diethanolamine condensate

CAS Number: 120-40-1

Date Report Requested: 10/23/2014

Time Report Requested: 01:31:22

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female  
400 MG/KG

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

Alimentary System

|                            |   |   |   |   |   |   |   |   |   |   |    |
|----------------------------|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus                  | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Cecum     | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Colon     | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Rectum    | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Duodenum  | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Ileum     | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Jejunum   | + | + | + | + | + | + | + | + | + | + | 10 |
| Liver                      | + | + | + | + | + | + | + | + | + | + | 10 |
| Hepatodiaphragmatic Nodule |   |   | X |   | X |   |   |   |   |   | 2  |
| Pancreas                   | + | + | + | + | + | + | + | + | + | + | 10 |
| Salivary Glands            | + | + | + | + | + | + | + | + | + | + | 10 |
| Stomach, Forestomach       | + | + | + | + | + | + | + | + | + | + | 10 |
| Stomach, Glandular         | + | + | + | + | + | + | + | + | + | + | 10 |

Cardiovascular System

|       |   |   |   |   |   |   |   |   |   |   |    |
|-------|---|---|---|---|---|---|---|---|---|---|----|
| Heart | + | + | + | + | + | + | + | + | + | + | 10 |
|-------|---|---|---|---|---|---|---|---|---|---|----|

Endocrine System

|                    |   |   |   |   |   |   |   |   |   |   |    |
|--------------------|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex     | + | + | + | + | + | + | + | + | + | + | 10 |
| Adrenal Medulla    | + | + | + | + | + | + | + | + | + | + | 10 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | 10 |
| Parathyroid Gland  | + | + | + | + | + | + | + | + | + | + | 10 |

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 55323-01  
 Test Type: 90-DAY  
 Route: SKIN APPLICATION  
 Species/Strain: Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Test Compound: Lauric acid diethanolamine condensate  
 CAS Number: 120-40-1

Date Report Requested: 10/23/2014  
 Time Report Requested: 01:31:23  
 First Dose M/F: NA / NA  
 Lab: BAT

**F 344/N Rat Female  
 400 MG/KG**

|                              | DAY ON TEST |   |   |   |   |   |   |   |   |   |         |     |
|------------------------------|-------------|---|---|---|---|---|---|---|---|---|---------|-----|
|                              | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |     |
| ANIMAL ID                    | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *TOTALS |     |
|                              | 1           | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |         |     |
| Pituitary Gland              | +           | + | + | + | + | + | + | + | + | + | 10      |     |
| Pars Distalis, Cyst          |             |   |   |   |   |   |   | 1 |   |   | 1       | 1.0 |
| Thyroid Gland                | +           | + | + | + | + | + | + | + | + | + | 10      |     |
| <b>General Body System</b>   |             |   |   |   |   |   |   |   |   |   |         |     |
| Tissue NOS                   |             |   | + |   |   |   |   |   |   |   | 1       |     |
| <b>Genital System</b>        |             |   |   |   |   |   |   |   |   |   |         |     |
| Clitoral Gland               | +           | + | + | + | + | + | + | + | + | + | 10      |     |
| Inflammation, Chronic Active | 1           | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 10      | 1.0 |
| Ovary                        | +           | + | + | + | + | + | + | + | + | + | 10      |     |
| Periovarn Tiss, Cyst         |             |   | 1 |   |   |   |   |   |   |   | 1       | 1.0 |
| Uterus                       | +           | + | + | + | + | + | + | + | + | + | 10      |     |
| <b>Hematopoietic System</b>  |             |   |   |   |   |   |   |   |   |   |         |     |
| Bone Marrow                  | +           | + | + | + | + | + | + | + | + | + | 10      |     |
| Lymph Node, Mandibular       | +           | + | + | + | + | + | + | + | + | + | 10      |     |
| Lymph Node, Mesenteric       | +           | + | + | + | + | + | + | + | + | + | 10      |     |
| Spleen                       | +           | + | + | + | + | + | + | + | + | + | 10      |     |
| Thymus                       | +           | + | + | + | + | + | + | + | + | + | 10      |     |
| <b>Integumentary System</b>  |             |   |   |   |   |   |   |   |   |   |         |     |
| Mammary Gland                | +           | + | + | + | + | + | + | + | + | + | 10      |     |
| Skin                         | +           | + | + | + | + | + | + | + | + | + | 10      |     |
| Epidermis, SOA, Hyperplasia  | 3           | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 10      | 3.0 |

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue

M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

Experiment Number: 55323-01

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Lauric acid diethanolamine condensate

CAS Number: 120-40-1

Date Report Requested: 10/23/2014

Time Report Requested: 01:31:23

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female  
400 MG/KG

|             |   |   |   |   |   |   |   |   |   |   |
|-------------|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
|             | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| ANIMAL ID   | 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 | 1 | 1 | 2 |
|             | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

\*TOTALS

|                                   |   |   |   |   |   |   |   |   |   |   |    |     |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|----|-----|
| Epidermis, SOA, Hyperplasia       | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 10 | 3.0 |
| SOA, Inflammation, Chronic Active | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 10 | 3.0 |
| SOA, Parakeratosis                | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 10 | 4.0 |
| SOA, Sebaceous Gl, Hyperplasia    | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 10 | 3.0 |
| SOA, Ulcer                        | 2 | 3 | 4 | 2 | 3 | 3 | 3 | 2 | 4 | 3 | 10 | 2.9 |
| <b>Musculoskeletal System</b>     |   |   |   |   |   |   |   |   |   |   |    |     |
| Bone                              | + | + | + | + | + | + | + | + | + | + | 10 |     |
| <b>Nervous System</b>             |   |   |   |   |   |   |   |   |   |   |    |     |
| Brain                             | + | + | + | + | + | + | + | + | + | + | 10 |     |
| <b>Respiratory System</b>         |   |   |   |   |   |   |   |   |   |   |    |     |
| Lung                              | + | + | + | + | + | + | + | + | + | + | 10 |     |
| Nose                              | + | + | + | + | + | + | + | + | + | + | 10 |     |
| Foreign Body, Chronic             |   |   |   |   |   |   | 1 |   |   |   | 1  | 1.0 |
| Inflammation, Chronic Active      |   | 1 |   |   |   | 3 | 1 | 1 |   |   | 4  | 1.5 |
| Trachea                           | + | + | + | + | + | + | + | + | + | + | 10 |     |
| <b>Special Senses System</b>      |   |   |   |   |   |   |   |   |   |   |    |     |
| NONE                              |   |   |   |   |   |   |   |   |   |   |    |     |
| <b>Urinary System</b>             |   |   |   |   |   |   |   |   |   |   |    |     |
| Kidney                            | + | + | + | + | + | + | + | + | + | + | 10 |     |
| Mineralization                    | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 10 | 1.0 |

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
+ ..Tissue examined microscopically  
X ..Lesion present  
I ..Insufficient tissue  
M ..Missing tissue  
A ..Autolysis precludes evaluation  
BLANK ..Not examined microscopically  
1-4 ..Lesion qualified as:  
1) Minimal 3) Moderate  
2) Mild 4) Marked

Experiment Number: 55323-01  
 Test Type: 90-DAY  
 Route: SKIN APPLICATION  
 Species/Strain: Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: Lauric acid diethanolamine condensate  
 CAS Number: 120-40-1

Date Report Requested: 10/23/2014  
 Time Report Requested: 01:31:23  
 First Dose M/F: NA / NA  
 Lab: BAT

**F 344/N Rat Female**  
**400 MG/KG**

| DAY ON TEST                | 0              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |    |     |
|----------------------------|----------------|---|---|---|---|---|---|---|---|---|----|-----|
|                            | 0              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |    |     |
|                            | 9              | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |    |     |
|                            | 3              | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |    |     |
| ANIMAL ID                  | 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 | 1 | 1 | 1 |    |     |
|                            | 1              | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |    |     |
|                            | <b>*TOTALS</b> |   |   |   |   |   |   |   |   |   |    |     |
| Renal Tubule, Regeneration | 1              | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 10 | 1.0 |
| Urinary Bladder            | +              | + | + | + | + | + | + | + | + | + | 10 |     |

**\*\* END OF REPORT \*\***

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked