

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:03  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**C Number:** C55312B  
**Lock Date:** 09/06/1995  
**Cage Range:** All  
**Date Range:** All  
**Reasons For Removal:** All  
**Removal Date Range:** All  
**Treatment Groups:** All  
**Study Gender:** Both  
**PWG Approval Date:** 08/26/1997

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:03

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 1

TRT#: 1

SEX: Male

DAY ON TEST: 521

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500331

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Necrosis	Mild
[ Leukemia Mononuclear TGLS = 8-7: Carcinoma, Follicular Cell ]			
* Adrenal Medulla		Leukemia Mononuclear Hyperplasia	Marked
* Bone Marrow		Hemorrhage	Moderate
* Brain		Leukemia Mononuclear	
[ Hemorrhage TGLS = 6-6: Hemorrhage, Moderate ]			
* Heart		Cardiomyopathy Leukemia Mononuclear	Chronic, Mild
[ Leukemia Mononuclear TGLS = 6-6: Hemorrhage, Moderate ]			
* Kidney		Cyst Leukemia Mononuclear Nephropathy Pigmentation	Moderate Chronic, Mild Hemosiderin, Moderate
[ Cyst TGLS = 7-1: Cyst, Moderate ]			
* Liver	Bile Duct	Hepatodiaphragmatic Nodule Hyperplasia Leukemia Mononuclear Necrosis	Moderate Minimal
[ Hepatodiaphragmatic Nodule TGLS = 5-12: Hepatodiaphragmatic Nodule ]	Hepatocyte		
[ Leukemia Mononuclear TGLS = 5-12: Hepatodiaphragmatic Nodule ]			
* Lung		Inflammation	Suppurative, Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
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**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:03  
**First Dose M/F:** NA / NA  
**Lab:** BAT

<b>ANIMAL ID:</b> 1	<b>TRT#:</b> 1 <b>DOSE:</b> 0 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 521 <b>HISTO:</b> 9500331
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**ORGAN AND ACCOUNTABLE SITE STATUS**

Lymph Node	Inguinal	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 8-7: Carcinoma, Follicular Cell ]			
* Mammary Gland		Hyperplasia	Cystic, Minimal
* Pancreas			
Note: TGL#2-4-NCL: Pancreas Considered To Be Within Normal Limits Histologically.			
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
		Leukemia Mononuclear	
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Chronic Active, Mild
* Spleen	Red Pulp	Depletion Cellular	Mild
		Leukemia Mononuclear	
[ Depletion Cellular TGLS = 4-12: Cellular Depletion, Red Pulp, Mild ]			
[ Leukemia Mononuclear TGLS = 3-1: Mononuclear Cell Leukemia ]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-10: Adenoma, Interstitial Cell, Bilateral ]			
* Thymus		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 1-10: Adenoma, Interstitial Cell, Bilateral ]			
* Thyroid Gland	Follicular Cel	Carcinoma	
[ Carcinoma TGLS = 8-7: Carcinoma, Follicular Cell ]			

PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH	- Brain Hemorrhage;Heart Leukemia Mononuclear;Lung Inflammation

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:03

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 2

TRT#: 1

SEX: Male

DAY ON TEST: 631

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 9500332

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Minimal
* Kidney		Nephropathy	Chronic, Mild
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Minimal
* Lung		Inflammation	Granulomatous, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Moderate
Note: TGL#1-12: Mammary Gland Mass, Documented At Necropsy, Is Cutaneous Keratoacanthoma Histologically.			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 3-7: Adenoma, Pars Distalis ]			
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Chronic Active, Moderate
* Skin		Keratoacanthoma	
[ Keratoacanthoma TGLS = 1-12: Keratoacanthoma ]			
* Testes	Interstitial Cell	Adenoma	
	Interstitial Cell	Hyperplasia	Minimal
[ Adenoma TGLS = 2-10: Adenoma, Interstitial Cell ]			

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:03

First Dose M/F: NA / NA

Lab: BAT

<b>ANIMAL ID:</b> 3	<b>TRT#:</b> 1 <b>DOSE:</b> 0 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 656 <b>HISTO:</b> 9500333
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**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Nose	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney	Renal Tubule	Hyperplasia	Mild
		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Minimal
		[ Nephropathy TGLS = 2-1: Nephropathy, Chronic, Moderate ]	
* Liver		Clear Cell Focus	
	Hepatocyte	Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Mild
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Cyst	Moderate
		Hyperplasia	Cystic, Mild
		[ Cyst TGLS = 3-13: Cyst, Moderate ]	
Mesentery	Fat	Necrosis	Marked
		[ Necrosis TGLS = 1-12: Necrosis, Fat, Marked ]	
* Pancreas	Acinus	Atrophy	Mild

\* PROTOCOL REQUIRED TISSUE

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**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
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**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:03  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 3	<b>TRT#:</b> 1 <b>DOSE:</b> 0 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 656 <b>HISTO:</b> 9500333
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Pituitary Gland [ Adenoma TGLS = 4-7: Adenoma, Pars Distalis ]	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Cyst Multilocular	Marked
		Inflammation	Chronic Active, Mild
* Spleen		Leukemia Mononuclear	
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Inflammation	Chronic Active, Mild
	Epithelium	Ulcer	Marked
* Testes	Interstit Cell	Hyperplasia	Minimal

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PRIMARY CAUSE OF DEATH	- Kidney Nephropathy
CONTRIBUTORY CAUSE OF DEATH	- Spleen Leukemia Mononuclear

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:03  
**First Dose M/F:** NA / NA  
**Lab:** BAT

<b>ANIMAL ID:</b> 4	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 442
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9500334

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Minimal
* Liver		Vacuolization Cytoplasmic	Mild
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 1-7: Adenoma, Pars Distalis ]			
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Thyroid Gland	Follicle	Cyst	Mild

**PRIMARY CAUSE OF DEATH** - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:03

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 5

TRT#: 1

SEX: Male

DAY ON TEST: 632

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500335

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Salivary Glands	* Seminal Vesicle	* Skin	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
Blood Vessel	Aorta	Mineralization	Moderate
	Pulmn Artery	Mineralization	Moderate
	[ Mineralization TGLS = 6-7: Mineralization, Aorta, Moderate ]		
* Bone		Fibrous Osteodystrophy	Moderate
* Heart		Cardiomyopathy	Chronic, Moderate
		Mineralization	Moderate
* Kidney		Cyst	Moderate
		Nephropathy	Chronic, Marked
	[ Nephropathy TGLS = 3-1: Nephropathy, Chronic, Marked ]		
* Liver	Hepatocyte	Degeneration	Cystic, Minimal
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Minimal
	[ Hepatodiaphragmatic Nodule TGLS = 4-5: Hepatodiaphragmatic Nodule ]		
* Lung		Mineralization	Moderate
* Pancreas	Artery	Inflammation	Chronic Active, Moderate
* Parathyroid Gland		Hyperplasia	Moderate
	[ Hyperplasia TGLS = 5-7: Hyperplasia, Moderate ]		
* Pituitary Gland	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic Active, Mild

\* PROTOCOL REQUIRED TISSUE



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**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:03  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 5	<b>TRT#:</b> 1 <b>DOSE:</b> 0 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 632 <b>HISTO:</b> 9500335
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Prostate	Inflammation	Chronic Active, Mild
* Spleen [ Fibrosis TGLS = 7-1: Fibrosis, Moderate ]	Fibrosis	Moderate
* Stomach, Forestomach	Mineralization	Moderate
* Stomach, Glandular	Mineralization	Moderate
* Testes Bilateral, Interstit Cell Note: TGL#2-10: Testicle Size Considered To Be Within Normal Limits Histologically. [ Adenoma TGLS = 1-10: Adenoma, Interstitial Cell, Bilateral ]	Adenoma	

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**PRIMARY CAUSE OF DEATH** - Kidney Nephropathy

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014  
Time Report Requested: 14:36:03  
First Dose M/F: NA / NA  
Lab: BAT

<b>ANIMAL ID:</b> 6	<b>TRT#:</b> 1 <b>DOSE:</b> 0 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Natural Death	<b>DAY ON TEST:</b> 591 <b>HISTO:</b> 9500336
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**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
[ Nephropathy TGLS = 1-1: Nephropathy, Chronic, Mild ]			
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Cystic, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 2-7: Adenoma, Pars Distalis ]			
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Chronic Active, Mild
* Spleen		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: Death May Also Have Been Due To Asphyxiation Secondary To Food Lodged Near Tracheal Opening, As Noted At Necropsy.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:03

First Dose M/F: NA / NA

Lab: BAT

<b>ANIMAL ID:</b> 7	<b>TRT#:</b> 1 <b>DOSE:</b> 0 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 618 <b>HISTO:</b> 9500337
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**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Thymus
* Thyroid Gland	* Trachea		

**OBSERVATIONS**

* Adrenal Medulla		Hyperplasia Pheochromocytoma Benign	Mild
Blood Vessel	Aorta Pulmn Artery	Mineralization Mineralization	Moderate Moderate
* Bone		Fibrous Osteodystrophy	Marked
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy Mineralization	Chronic, Moderate Mild
* Kidney	Renal Tubule	Cyst Hyperplasia Mineralization Nephropathy Pigmentation	Mild Moderate Mild Chronic, Marked Hemosiderin, Minimal
		[ Cyst TGLS = 3-1: Cyst, Mild ] [ Nephropathy TGLS = 2-1: Nephropathy, Chronic, Marked ]	
* Liver	Bile Duct	Hyperplasia Inflammation Vacuolization Cytoplasmic	Minimal Chronic, Minimal Minimal
* Lung		Mineralization	Mild
* Mammary Gland		Hyperplasia	Cystic, Mild
* Parathyroid Gland		Hyperplasia	Marked
		[ Hyperplasia TGLS = 4-7: Hyperplasia, Marked ]	
* Pituitary Gland	Pars Distalis	Adenoma	

\* PROTOCOL REQUIRED TISSUE

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**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:03  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 7	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 618
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9500337

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Adenoma TGLS = 5-7: Adenoma, Pars Distalis ]

* Preputial Gland		Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Stomach, Forestomach		Edema	Moderate
		Mineralization	Moderate
* Stomach, Glandular		Mineralization	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
	[ Adenoma TGLS = 1-10: Adenoma, Interstitial Cell, Bilateral ]		
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild

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PRIMARY CAUSE OF DEATH	- Kidney Nephropathy
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma

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\* PROTOCOL REQUIRED TISSUE

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Test Type: CHRONIC

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Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:03

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 8

TRT#: 1

SEX: Male

DAY ON TEST: 677

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500338

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Bone		Fibrous Osteodystrophy	Marked
* Bone Marrow		Hyperplasia	Marked
* Epididymis		Mineralization	Mild
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Cyst	Moderate
		Nephropathy	Chronic, Marked
	[ Cyst TGLS = 3,4-1: Cyst, Moderate ]		
	[ Nephropathy TGLS = 2-1: Nephropathy, Chronic, Marked ]		
* Liver	Bile Duct	Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pancreas	Acinus	Atrophy	Mild
* Parathyroid Gland		Hyperplasia	Moderate
	[ Hyperplasia TGLS = 5-7: Hyperplasia, Moderate ]		
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic Active, Moderate
* Prostate		Inflammation	Chronic Active, Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:03  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 8	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 677
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9500338

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Stomach, Glandular		Inflammation	Chronic Active, Mild
		Mineralization	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-10: Adenoma, Interstitial Cell, Bilateral ]			

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PRIMARY CAUSE OF DEATH	- Kidney Nephropathy
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:03

First Dose M/F: NA / NA

Lab: BAT

<b>ANIMAL ID:</b> 9	<b>TRT#:</b> 1 <b>DOSE:</b> 0 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 729 <b>HISTO:</b> 9500339
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**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Mild
* Mammary Gland		Hyperplasia	Cystic, Minimal
* Nose		Inflammation	Chronic Active, Mild
	Respirat Epith	Metaplasia	Squamous, Mild
* Preputial Gland		Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
* Prostate		Cyst Multilocular	Mild
* Skin		Squamous Cell Papilloma	
	[ Squamous Cell Papilloma TGLS = 1-12: Squamous Cell Papilloma ]		
* Spleen			
	Note: TGL 3 (gross depression) not remarkable histologically.		
* Testes	Bilateral, Interstit Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 14:36:03

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 9

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500339

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Adenoma TGLS = 2-10: Adenoma, Interstitial Cell, Bilateral ]

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:03  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 10                      **TRT#:** 1                      **SEX:** Male                      **DAY ON TEST:** 650  
**DOSE:** 0 MG/KG                      **DISP:** Moribund Sacrifice                      **HISTO:** 9500340

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Pheochromocytoma Benign	
		Atrophy	Moderate
* Heart		Leukemia Mononuclear	
	Atrium	Leukemia Mononuclear	
	[ Thrombosis TGLS = 4-5: Thrombosis, Atrium, Moderate ]	Thrombosis	Moderate
* Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Mild
	[ Leukemia Mononuclear TGLS = 4-5: Thrombosis, Atrium, Moderate ]		
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular, Hepatocyte	Necrosis	Moderate
	[ Leukemia Mononuclear TGLS = 2-4+5: Mononuclear Cell Leukemia ]		
* Lung	Alveolar Epith	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[ Hyperplasia TGLS = 3-3: Hyperplasia, Alveolar Epithelium, Moderate ]		
Lymph Node	Mediastinal	Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Cystic, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:03  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 10	<b>TRT#:</b> 1 <b>DOSE:</b> 0 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 650 <b>HISTO:</b> 9500340
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Nose		Leukemia Mononuclear	
	Septum, Turbinate, Vein	Thrombosis	Marked
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
	[ Adenoma TGLS = 6-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Cyst Multilocular	Moderate
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 1-1: Mononuclear Cell Leukemia ]		
* Thyroid Gland	C Cell	Hyperplasia	Mild
	Note: TGL#5-7-NCL: Thyroid Glands Considered To Be Normal Size Histologically.		

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PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear					
CONTRIBUTORY CAUSE OF DEATH	- Heart	Atrium	Thrombosis;Kidney	Leukemia Mononuclear;Kidney	Nephropathy;Pituitary Gland	Pars Distalis	Adenoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:03  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 11

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 640

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500341

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Nose
* Pancreas	* Parathyroid Gland	Peripheral Nerve	* Salivary Glands
* Seminal Vesicle	* Skin	Spinal Cord	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Adrenal Cortex		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 1-10: Adenoma, Interstitial Cell ]			
* Adrenal Medulla		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 1-10: Adenoma, Interstitial Cell ]			
* Bone Marrow		Hyperplasia	Marked
		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Chronic, Mild
		Leukemia Mononuclear	
* Islets, Pancreatic		Adenoma	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Mild
[ Nephropathy TGLS = 3-1: Nephropathy, Chronic, Moderate ]			
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 4-4+5: Mononuclear Cell Leukemia ]			
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Lymph Node, Mandibular		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 1-10: Adenoma, Interstitial Cell ]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 14:36:03

**First Dose M/F:** NA / NA

**Lab:** BAT

**ANIMAL ID:** 11

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 640

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500341

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Leukemia Mononuclear TGLS = 1-10: Adenoma, Interstitial Cell ]

\* Mammary Gland

Hyperplasia

Cystic, Marked

\* Pituitary Gland

Pars Distalis

Adenoma

[ Adenoma TGLS = 5-7: Adenoma, Pars Distalis ]

\* Preputial Gland

Inflammation

Chronic Active, Minimal

\* Prostate

Cyst Multilocular

Mild

Inflammation

Chronic Active, Moderate

\* Spleen

Leukemia Mononuclear

[ Leukemia Mononuclear TGLS = 2-12: Mononuclear Cell Leukemia ]

\* Testes

Interstit Cell

Adenoma

[ Adenoma TGLS = 1-10: Adenoma, Interstitial Cell ]

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:03

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 12

TRT#: 1

SEX: Male

DAY ON TEST: 713

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500342

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Mild
		Degeneration	Fatty, Mild
		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Bone		Fibrous Osteodystrophy	Moderate
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Chronic, Minimal
* Kidney		Cyst	Mild
	Renal Tubule	Hyperplasia	Moderate
		Nephropathy	Chronic, Marked
		Pigmentation	Hemosiderin, Minimal
			[ Cyst TGLS = 3,6-1: Cyst, Mild ]
			[ Nephropathy TGLS = 4-1: Nephropathy, Chronic, Marked ]
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Vacuolization Cytoplasmic	Moderate
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Nose	Respirat Epith	Hyperplasia	Moderate
		Inflammation	Chronic Active, Moderate
			Note: Slide #09 - Fungal Cluster Associated With Inflammation In Nasal Cavity.
* Parathyroid Gland		Hyperplasia	Mild
			[ Hyperplasia TGLS = 5-7: Hyperplasia, Mild ]
* Preputial Gland		Inflammation	Chronic Active, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 14:36:03

**First Dose M/F:** NA / NA

**Lab:** BAT

**ANIMAL ID:** 12

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 713

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500342

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Prostate		Cyst Multilocular Inflammation	Mild Chronic Active, Mild
* Skin	SOA [ Keratoacanthoma TGLS = 1-12: Keratoacanthoma ]	Keratoacanthoma	
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Testes	Bilateral, Interstit Cell [ Adenoma TGLS = 2-10: Adenoma, Bilateral, Interstitial Cell ]	Adenoma	

**PRIMARY CAUSE OF DEATH** - Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:03

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 13

TRT#: 1

SEX: Male

DAY ON TEST: 463

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500343

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Kidney		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Minimal
	[ Nephropathy TGLS = 1-1: Nephropathy, Chronic, Moderate ]		
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Mild
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 2-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Stomach, Forestomach		Edema	Moderate
		Inflammation	Chronic Active, Mild
	Epithelium	Ulcer	Marked

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH

- Kidney Nephropathy;Stomach;Forestomach Epithelium Ulcer

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014  
Time Report Requested: 14:36:03  
First Dose M/F: NA / NA  
Lab: BAT

ANIMAL ID: 14

TRT#: 1

SEX: Male

DAY ON TEST: 563

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 9500344

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea			

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
Blood Vessel	Aorta	Mineralization	Mild
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Chronic, Moderate
* Kidney		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Minimal
			[ Nephropathy TGLS = 4-1+12: Nephropathy, Chronic, Moderate ]
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Adenoma	
* Parathyroid Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
			[ Adenoma TGLS = 6-7: Adenoma, Pars Distalis ]
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
			Note: Prostate Also Engorged With Secretion
			[ Inflammation TGLS = 3-11: Inflammation, Chronic-Active, Mild ]
* Seminal Vesicle		Dilatation	Marked
			Note: Seminal Vesicles Engorged With Secretion
			[ Dilatation TGLS = 2-13+14: Dilatation, Marked ]
* Testes	Interstit Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:03  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 14	<b>TRT#:</b> 1 <b>DOSE:</b> 0 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Natural Death	<b>DAY ON TEST:</b> 563 <b>HISTO:</b> 9500344
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Adenoma TGLS = 5-10: Adenoma, Interstitial Cell ] * Urinary Bladder	Hemorrhage Inflammation	Moderate Chronic Active, Mild
[ Hemorrhage TGLS = 1-1: Hemorrhage, Moderate ]		

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PRIMARY CAUSE OF DEATH	- Kidney Nephropathy
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma;Prostate Inflammation;Seminal Vesicle Dilatation;Urinary Bladder Hemorrhage

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Animal Note: The Enlarged Seminal Vesicles/Prostate & The Inflamed & Hemorrhagic Urinary Bladder Suggest Urinary Tract Obstruction,But This Was Not Confirmed Histologically

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:03

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 15

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9500345

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Marked
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
	[ Cataract TGLS = 1-12: Cataract, Lens, Marked ]		
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Moderate
	[ Nephropathy TGLS = 3-1: Nephropathy, Chronic, Moderate ]		
* Liver	Hepatocyte	Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Mild
	[ Leukemia Mononuclear TGLS = 3-1: Nephropathy, Chronic, Moderate ]	Leukemia Mononuclear	
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Mild
	[ Cyst TGLS = 5-7: Cyst, Pars Distalis, Moderate ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:03  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 15	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9500345

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Chronic Active, Minimal
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 2-12: Mononuclear Cell Leukemia ]			
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal
[ Adenoma TGLS = 4-10: Adenoma, Interstitial Cell ]			
[ Hyperplasia TGLS = 4-10: Hyperplasia, Interstitial Cell, Minimal ]			
* Thyroid Gland	Follicle	Cyst	Mild

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:03

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 16

TRT#: 1

SEX: Male

DAY ON TEST: 392

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 9500346

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
Mesentery	Fat	Necrosis	Marked
	[ Necrosis TGLS = 2-12: Necrosis, Fat, Marked ]		
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 1-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Chronic Active, Mild
* Skin	SOA	Basal Cell Carcinoma	
	[ Basal Cell Carcinoma TGLS = 3-12: Basal Cell Carcinoma, Skin Soa ]		

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:03

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 17

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9500347

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia	Marked
		Leukemia Mononuclear	
* Epididymis		Leukemia Mononuclear	
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver	Hepatocyte	Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		[ Leukemia Mononuclear TGLS = 4-4+5: Mononuclear Cell Leukemia ]	
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
		Leukemia Mononuclear	
	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Cyst	Moderate
		Hyperplasia	Cystic, Mild
Mesentery	Fat	Necrosis	Marked
		[ Necrosis TGLS = 3-12: Necrosis, Fat, Marked ]	
* Nose	Respirat Epith	Hyperplasia	Moderate
		Inflammation	Chronic Active, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:03  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 17	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9500347

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 5-7: Adenoma, Pars Distalis ]			
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Moderate
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 2-12: Mononuclear Cell Leukemia ]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Inflammation	Chronic Active, Mild
		Perforation	
	Epithelium	Ulcer	Marked
[ Perforation TGLS = 6-12: Perforation ]			
* Testes	Germinal Epith	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal
[ Atrophy TGLS = 1-10: Atrophy, Germinal Epithelium, Marked ]			
* Thyroid Gland	C Cell	Adenoma	

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:03  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 18

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 617

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500348

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Blood Vessel	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Bone		Fibrous Osteodystrophy	Marked
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney	Renal Tubule	Hyperplasia	Marked
		Nephropathy	Chronic, Marked
		Pigmentation	Hemosiderin, Minimal
	[ Nephropathy TGLS = 1-1+12: Nephropathy, Chronic, Marked ]		
* Liver	Hepatocyte	Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Nose	Respirat Epith	Hyperplasia	Mild
	Note: Slide #09 - Fungal Cluster & Foreign Body (Hair) Associated With Inflammation In Nasal Cavity.		
* Parathyroid Gland		Hyperplasia	Moderate
	[ Hyperplasia TGLS = 2-7: Hyperplasia, Moderate ]		
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Spleen		Fibrosis	Mild
	[ Fibrosis TGLS = 3-12: Fibrosis, Mild ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:03  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 18	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 617
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9500348

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Stomach, Forestomach		Edema	Moderate
	Epithelium	Hyperplasia	Moderate
		Squamous Cell Papilloma	
* Testes	Arteriole	Inflammation	Chronic, Mild
	Arteriole	Necrosis	Fibrinoid, Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

---

PRIMARY CAUSE OF DEATH	- Kidney Nephropathy
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:03

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 19

TRT#: 1

SEX: Male

DAY ON TEST: 621

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 9500349

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Mild
		Pheochromocytoma Benign	
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Nephropathy	Chronic, Marked
		Pigmentation	Hemosiderin, Minimal
	[ Nephropathy TGLS = 3-1: Nephropathy, Chronic, Marked ]		
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Mild
* Mammary Gland		Hyperplasia	Cystic, Mild
	Note: TGL#1-12: Mammary Gland Mass, Documented At Necropsy, Is Subcutaneous Fibroma Histologically.		
* Pancreas	Acinus	Atrophy	Minimal
* Parathyroid Gland		Hyperplasia	Moderate
	[ Hyperplasia TGLS = 4-7: Hyperplasia, Moderate ]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Minimal
* Skin	Subcut Tiss	Fibroma	
	[ Fibroma TGLS = 1-12: Fibroma, Subcutaneous Tissue ]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:03  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 19	<b>TRT#:</b> 1 <b>DOSE:</b> 0 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Natural Death	<b>DAY ON TEST:</b> 621 <b>HISTO:</b> 9500349
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hyperplasia TGLS = 5-13: Hyperplasia, Epithelium, Moderate ]			
* Testes	Bilateral, Germinal Epith Arteriole Arteriole	Atrophy Inflammation Necrosis	Marked Chronic, Moderate Fibrinoid, Moderate
[ Atrophy TGLS = 2-10:Atrophy,Germinal Epithelium,Bilat,Marked ]			

---

PRIMARY CAUSE OF DEATH	- Kidney Nephropathy
CONTRIBUTORY CAUSE OF DEATH	- Skin Subcut Tiss Fibroma

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:03

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 20

TRT#: 1

SEX: Male

DAY ON TEST: 593

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500350

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Pancreas	* Salivary Glands	* Seminal Vesicle
* Spleen	* Trachea	* Urinary Bladder	

MISSING

\* Thymus

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
Blood Vessel	Aorta	Mineralization	Marked
	Pulmn Artery	Mineralization	Marked
* Bone		Fibrous Osteodystrophy	Marked
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Chronic, Moderate
	Atrium	Mineralization	Moderate
		Thrombosis	Marked
	[ Mineralization TGLS = 3-5: Mineralization, Moderate ]		
* Kidney	Renal Tubule	Adenoma	
		Mineralization	Mild
		Nephropathy	Chronic, Marked
		Pigmentation	Hemosiderin, Minimal
	[ Nephropathy TGLS = 4-1: Nephropathy, Chronic, Marked ]		
* Liver		Vacuolization Cytoplasmic	Mild
* Lung	Interstitialium	Mineralization	Moderate
* Mammary Gland		Hyperplasia	Cystic, Mild
* Nose	Respirat Epith	Hyperplasia	Moderate
		Inflammation	Chronic Active, Moderate
	Respirat Epith	Metaplasia	Squamous, Marked
	Note: Slides #s 08 & 09 - Fungal Cluster And Hyperkeratosis Associated With Inflammation In Nasal Cavity.		
* Parathyroid Gland		Hyperplasia	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 14:36:03

**First Dose M/F:** NA / NA

**Lab:** BAT

<b>ANIMAL ID:</b> 20	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 593
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9500350

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Hyperplasia TGLS = 5-7: Hyperplasia, Moderate ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 2-7: Adenoma, Pars Distalis ]			
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Skin	SOA, Sebaceous GI	Adenoma	
[ Adenoma TGLS = 1-12: Adenoma, Sebaceous Gland, Skin Soa ]			
* Stomach, Forestomach		Mineralization	Moderate
* Stomach, Glandular		Mineralization	Moderate
* Testes	Interstit Cell	Adenoma	
[ Adenoma TGLS = 6-10: Adenoma, Interstitial Cell ]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH	- Kidney Nephropathy
CONTRIBUTORY CAUSE OF DEATH	- Heart Atrium Thrombosis; Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:03  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 21

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500351

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Blood Vessel	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hypertrophy	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone		Fibrous Osteodystrophy	Mild
* Bone Marrow		Hyperplasia	Mild
* Kidney	Renal Tubule	Hyperplasia	Mild
		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Minimal
	[ Nephropathy TGLS = 3-1+12: Nephropathy, Chronic, Moderate ]		
* Liver	Hepatocyte	Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Mild
* Lung		Inflammation	Granulomatous, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Moderate
* Parathyroid Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Moderate
	[ Adenoma TGLS = 4-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Marked
	[ Inflammation TGLS = 2-11: Inflammation, Chronic-Active, Marked ]		
* Skin		Basal Cell Carcinoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:03  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 21	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9500351

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Basal Cell Carcinoma TGLS = 1-13: Carcinoma, Basal Cell ]			
* Stomach, Forestomach	Epithelium	Hyperplasia Inflammation Ulcer	Moderate Chronic Active, Mild Mild
[ Hyperplasia TGLS = 5-13: Hyperplasia, Epithelium, Moderate ]			
* Testes	Germinal Epith Arteriole Arteriole	Atrophy Inflammation Necrosis	Marked Chronic, Mild Fibrinoid, Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:03

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 22

TRT#: 1

SEX: Male

DAY ON TEST: 603

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 9500352

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Salivary Glands
* Seminal Vesicle	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Thymus

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Adrenal Medulla		Pheochromocytoma Benign	
Blood Vessel	Aorta	Mineralization	Moderate
	Pulmn Artery	Mineralization	Moderate
* Bone		Fibrous Osteodystrophy	Marked
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Chronic, Moderate
		Mineralization	Mild
	Atrium	Thrombosis	Marked
* Kidney		Cyst	Moderate
	Renal Tubule	Hyperplasia	Mild
		Mineralization	Moderate
		Nephropathy	Chronic, Marked
		Pigmentation	Hemosiderin, Minimal
			[ Cyst TGLS = 4-1: Cyst, Moderate ]
			[ Nephropathy TGLS = 3-1: Nephropathy, Chronic, Marked ]
* Liver	Hepatocyte	Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Mild
* Lung		Hemorrhage	Moderate
	Interstitialium	Mineralization	Mild
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 14:36:03

**First Dose M/F:** NA / NA

**Lab:** BAT

**ANIMAL ID:** 22

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 603

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 9500352

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Parathyroid Gland [ Hyperplasia TGLS = 5-7: Hyperplasia, Moderate ]		Hyperplasia	Moderate
* Pituitary Gland [ Adenoma TGLS = 6-7: Adenoma, Pars Distalis ]	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic Active, Moderate
* Prostate		Inflammation	Chronic Active, Moderate
* Skin [ Fibroma TGLS = 1-12: Fibroma, Subcutaneous ]	Subcut Tiss	Cyst Epithelial Inclusion Fibroma	
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach [ Hyperplasia TGLS = 7-13: Hyperplasia, Epithelium, Moderate ]	Epithelium	Hyperplasia Inflammation Mineralization	Moderate Chronic Active, Mild Mild
* Stomach, Glandular		Mineralization	Mild
* Testes [ Atrophy TGLS = 2-10: Atrophy, Germinal Epithelium, Moderate ]	Germinal Epith Arteriole Arteriole	Atrophy Inflammation Necrosis	Moderate Chronic, Mild Fibrinoid, Mild

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

CONTRIBUTORY CAUSE OF DEATH - Heart Atrium Thrombosis; Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:03  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 23

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 583

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500353

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
	[ Hepatodiaphragmatic Nodule TGLS = 1-5: Hepatodiaphragmatic Nodule ]		
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Minimal
Oral Mucosa	Pharyngeal	Squamous Cell Papilloma	
	[ Squamous Cell Papilloma TGLS = 2-12: Squamous Cell Papilloma, Pharyngeal ]		
* Pancreas	Acinus	Atrophy	Minimal
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Testes	Interstit Cell	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH**

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:03

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 24

TRT#: 1

SEX: Male

DAY ON TEST: 458

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500354

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Degeneration Hyperplasia	Fatty, Minimal Mild
* Brain	Cranial Nerve [ Schwannoma Malignant TGLS = 1-12: Schwannoma Mal ]	Schwannoma Malignant	
* Kidney		Nephropathy Pigmentation	Chronic, Mild Hemosiderin, Minimal
* Liver	Bile Duct	Clear Cell Focus Hyperplasia Inflammation Vacuolization Cytoplasmic	Mild Chronic, Mild Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Nose	Respirat Epith  Respirat Epith	Hyperplasia Inflammation Metaplasia	Mild Chronic Active, Mild Squamous, Mild
Note: Slide #09 - Fungal Cluster Associated With Inflammation In Nasal Cavity.			
* Pituitary Gland	Pars Distalis Pars Distalis [ Adenoma TGLS = 2-7: Adenoma, Pars Distalis ]	Adenoma Cyst	Mild
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:03

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 25

TRT#: 1

SEX: Male

DAY ON TEST: 543

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500355

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Mild
		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia	Marked
		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Mild
	[ Nephropathy TGLS = 4-1: Nephropathy, Chronic, Mild ]		
* Liver	Centrilobular, Hepatocyte	Degeneration	Moderate
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Minimal
	[ Leukemia Mononuclear TGLS = 3-4+5: Mononuclear Cell Leukemia ]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 3-4+5: Mononuclear Cell Leukemia ]		
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Lymph Node, Mandibular		Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 14:36:03

**First Dose M/F:** NA / NA

**Lab:** BAT

**ANIMAL ID:** 25

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 543

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500355

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Leukemia Mononuclear TGLS = 2-12: Mononuclear Cell Leukemia ]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 2-12: Mononuclear Cell Leukemia ]			
* Mammary Gland		Hyperplasia	Cystic, Mild
Mesentery	Fat	Necrosis	Marked
[ Necrosis TGLS = 1-12: Necrosis, Fat, Marked ]			
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Chronic Active, Mild
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 2-12: Mononuclear Cell Leukemia ]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:03  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 26

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 467

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500356

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Brain	Meninges	Sarcoma	
[ Sarcoma TGLS = 3-6+13: Sarcoma ]			
* Heart		Cardiomyopathy	Chronic, Minimal
* Kidney		Nephropathy	Chronic, Mild
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Mild
[ Hepatodiaphragmatic Nodule TGLS = 2-4: Hepatodiaphragmatic Nodule ]			
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
	Pars Intermed	Cyst	Mild
		Sarcoma	Metastatic (Brain)
* Preputial Gland		Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Skin		Keratoacanthoma	
[ Keratoacanthoma TGLS = 1-12: Keratoacanthoma ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 14:36:03

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 26

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 467

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500356

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Testes

Interstit Cell

Adenoma

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PRIMARY CAUSE OF DEATH

- Brain Meninges Sarcoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:03  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 27	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 110
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Accidentally Killed	<b>HISTO:</b> 9500357

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

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**OBSERVATIONS**

* Heart	Cardiomyopathy	Chronic, Minimal
* Prostate	Inflammation	Chronic Active, Mild

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**PRIMARY CAUSE OF DEATH** - UNCERTAIN

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Animal Note: Death Was Accidental Per IANR.

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:03  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 28

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 589

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500358

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Bone		Callus	Marked
* Kidney		Nephropathy	Chronic, Moderate
	[ Nephropathy TGLS = 2-1: Nephropathy, Chronic, Moderate ]	Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Moderate
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Minimal
	[ Adenoma TGLS = 3-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Minimal
* Stomach, Forestomach		Edema	Moderate
	Epithelium	Hyperplasia	Moderate
		Inflammation	Chronic Active, Mild
	Epithelium	Perforation	
	[ Perforation TGLS = 4-12: Ulcer, Epithelium, Marked ]	Ulcer	Marked

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:03  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 28

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 589

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500358

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Ulcer TGLS = 4-12: Ulcer, Epithelium, Marked ]

\* Testes

Bilateral, Interstit Cell

Adenoma

[ Adenoma TGLS = 1-10: Adenoma, Interstitial Cell, Bilateral ]

---

PRIMARY CAUSE OF DEATH

- Stomach, Forestomach Perforation

CONTRIBUTORY CAUSE OF DEATH

- Kidney Nephropathy;Stomach;Forestomach Epithelium Ulcer

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:03  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 29

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 556

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 9500359

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Heart		Cardiomyopathy	Chronic, Mild
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Minimal
	[ Hepatodiaphragmatic Nodule TGLS = 2-5: Hepatodiaphragmatic Nodule ]		
* Lung		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 2-5: Hepatodiaphragmatic Nodule ]		
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Cystic, Moderate
	[ Hyperplasia TGLS = 1-7: Hyperplasia, Cystic, Moderate ]		
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
	[ Adenoma TGLS = 3-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Cyst Multilocular	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:03  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 29

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 556

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 9500359

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Spleen

Inflammation

Chronic Active, Moderate

Leukemia Mononuclear

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PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH

- Intestine Large;Colon Parasite Metazoan;Lymph Node;Mandibular Leukemia Mononuclear;Lymph Node;Mesenteric Leukemia Mononuclear;Spleen  
Leukemia Mononuclear

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:03

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 30

TRT#: 1

SEX: Male

DAY ON TEST: 713

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 9500360

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Brain	* Epididymis
* Esophagus	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Nose	* Pancreas	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Mammary Gland

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Bone		Fibrous Osteodystrophy	Moderate
* Bone Marrow		Hyperplasia	Marked
* Heart	Atrium	Thrombosis	Marked
* Intestine Large, Cecum		Inflammation	Chronic Active, Marked
		Ulcer	Marked
	[ Ulcer TGLS = 7-12: Ulcer, Marked ]		
* Kidney		Cyst	Mild
		Nephropathy	Chronic, Marked
		Pigmentation	Hemosiderin, Minimal
	[ Cyst TGLS = 3-12: Cyst, Mild ]		
	[ Nephropathy TGLS = 4-1: Nephropathy, Chronic, Marked ]		
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
	Note: Cause Of Pale Discoloration, Documented At Necrospy, Not Apparent Histologically.		
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
	[ Infiltration Cellular TGLS = 8-4: Infiltrating Cell, Histiocyte, Moderate ]		
* Parathyroid Gland		Hyperplasia	Mild
	[ Hyperplasia TGLS = 5-7: Hyperplasia, Mild ]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 6-7: Adenoma, Pars Distalis ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:03  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 30	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 713
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 9500360

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Cyst Multilocular	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Inflammation	Chronic Active, Mild
	Epithelium	Ulcer	Marked
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-10: Adenoma, Interstitial Cell, Bilateral ]			

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PRIMARY CAUSE OF DEATH	- Kidney Nephropathy								
CONTRIBUTORY CAUSE OF DEATH	- Heart Atrium Thrombosis;Intestine Large;Cecum	Ulcer;Pituitary Gland Pars Distalis	Adenoma;Stomach;Forestomach	Epithelium	Ulcer				

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:03  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 31

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 334

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500361

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Thymus

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Kidney		Nephropathy	Chronic, Minimal
		Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 1-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Stomach, Forestomach		Edema	Moderate
	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
	Epithelium	Ulcer	Marked
	[ Ulcer TGLS = 2-12: Ulcer, Epithelium, Marked ]		

**PRIMARY CAUSE OF DEATH**

- Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:03

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 32

TRT#: 1

SEX: Male

DAY ON TEST: 618

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500362

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Chronic, Mild
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Minimal
	[ Nephropathy TGLS = 1-1: Nephropathy, Chronic, Moderate ]		
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Minimal
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Minimal
	[ Adenoma TGLS = 3-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Inflammation	Chronic Active, Moderate
	Epithelium	Ulcer	Marked

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 32	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 618
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9500362

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Testes	Arteriole	Inflammation	Chronic, Mild
	Arteriole	Necrosis	Fibrinoid, Mild
* Thyroid Gland	Follicular Cel	Carcinoma	
[ Carcinoma TGLS = 2-7: Carcinoma, Follicular Cell ]			

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PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma
CONTRIBUTORY CAUSE OF DEATH	- Kidney Nephropathy

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 33

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 389

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 9500363

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Heart		Cardiomyopathy	Chronic, Minimal
* Kidney		Nephropathy	Chronic, Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Mammary Gland		Hyperplasia	Cystic, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 1-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild

**PRIMARY CAUSE OF DEATH**

- Pituitary Gland Pars Distalis Adenoma

Animal Note: Death May Also Have Been Due To Asphyxiation Secondary To Food Lodged In Trachea | Opening As Documented At Necropsy.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 34

TRT#: 1

SEX: Male

DAY ON TEST: 642

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500364

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Pancreas
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Adrenal Medulla		Hyperplasia	Minimal
Blood Vessel	Aorta	Mineralization	Moderate
* Bone		Fibrous Osteodystrophy	Mild
* Bone Marrow		Hyperplasia	Marked
* Heart		Leukemia Mononuclear	
* Kidney	Renal Tubule	Cardiomyopathy	Chronic, Mild
		Adenoma	
		Leukemia Mononuclear	
		Nephropathy	Chronic, Marked
		Pigmentation	Hemosiderin, Minimal
[ Nephropathy TGLS = 4-1: Nephropathy, Chronic, Marked ]			
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 3-4+5: Mononuclear Cell Leukemia ]			
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mediastinal	Pigmentation	Hemosiderin, Mild
* Lymph Node, Mandibular		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 2-10: Hyperplasia, Interstitial Cell, Minimal ]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 2-10: Hyperplasia, Interstitial Cell, Minimal ]			
* Mammary Gland		Hyperplasia	Cystic, Mild
* Parathyroid Gland		Hyperplasia	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 34	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 642
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9500364

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hyperplasia TGLS = 5-7: Hyperplasia, Moderate ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 6-7: Adenoma, Pars Distalis ]			
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Cyst Multilocular	Mild
		Inflammation	Chronic Active, Mild
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 1-12: Mononuclear Cell Leukemia ]			
* Stomach, Glandular		Mineralization	Minimal
* Testes	Germinal Epith	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal
	Arteriole	Inflammation	Chronic, Mild
	Arteriole	Necrosis	Fibrinoid, Mild
[ Hyperplasia TGLS = 2-10: Hyperplasia, Interstitial Cell, Minimal ]			

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PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH	- Kidney	Nephropathy;Pituitary Gland Pars Distalis Adenoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 35

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9500365

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 11-4: Mononuclear Cell Leukemia ]			
* Adrenal Medulla		Hyperplasia	Mild
		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 11-4: Mononuclear Cell Leukemia ]			
* Bone Marrow		Hyperplasia	Marked
		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Chronic, Mild
* Intestine Large, Rectum		Parasite Metazoan	
[ Parasite Metazoan TGLS = 11-4: Mononuclear Cell Leukemia ]			
* Kidney	Renal Tubule	Hyperplasia	Mild
		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Minimal
[ Nephropathy TGLS = 6-1: Nephropathy, Chronic, Moderate ]			
* Liver	Hepatocyte	Basophilic Focus	
	Bile Duct	Degeneration	Cystic, Mild
		Hyperplasia	Moderate
		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 5-4+5: Mononuclear Cell Leukemia ]			
* Lung		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 5-4+5: Mononuclear Cell Leukemia ]			
Lymph Node	Lumbar	Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

<b>ANIMAL ID:</b> 35	<b>TRT#:</b> 1 <b>DOSE:</b> 0 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 729 <b>HISTO:</b> 9500365
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**ORGAN AND ACCOUNTABLE SITE STATUS**

	Mediastinal	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 8-14: Mononuclear Cell Leukemia, Mediastinal ]		
	[ Leukemia Mononuclear TGLS = 10-15: Mononuclear Cell Leukemia, Lumbar ]		
	[ Leukemia Mononuclear TGLS = 7-13: Mononuclear Cell Leukemia, Renal ]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 11-4: Mononuclear Cell Leukemia ]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 11-4: Mononuclear Cell Leukemia ]		
* Mammary Gd			
	Note: TGL#1-12: Mammary Gld Mass, Documented At Necropsy, Is Subcutaneous Fibroma Histologically.		
* Nose	Respirat Epith	Hyperplasia Inflammation	Moderate Chronic Active, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Prostate		Inflammation	Chronic Active, Mild
* Skin	Subcut Tiss	Fibroma	
	[ Fibroma TGLS = 1-12: Fibroma, Subcutaneous Tissue ]		
* Spleen		Fibrosis Leukemia Mononuclear	Mild
	[ Fibrosis TGLS = 4-1: Fibrosis, Mild ]		
	[ Leukemia Mononuclear TGLS = 3-1: Mononuclear Cell Leukemia ]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[ Adenoma TGLS = 2-10: Adenoma, Interstitial Cell, Bilateral ]		
* Thymus		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 9-14: Mononuclear Cell Leukemia ]		
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 36

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 495

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500366

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Chronic, Mild
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
		Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		[ Leukemia Mononuclear TGLS = 2-4+5: Mononuclear Cell leukemia ]	
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Marked
		[ Necrosis TGLS = 4-13: Necrosis, Fat, Marked ]	
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
		Leukemia Mononuclear	
		[ Leukemia Mononuclear TGLS = 4-13: Necrosis, Fat, Marked ]	

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 37

TRT#: 1

SEX: Male

DAY ON TEST: 723

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500367

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Parathyroid Gland	Peripheral Nerve	* Salivary Glands
* Seminal Vesicle	* Skin	Spinal Cord	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Marked
		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Chronic, Mild
	Atrium	Thrombosis	Moderate
	[ Thrombosis TGLS = 5-5: Thrombosis, Atrium, Moderate ]		
* Kidney		Cyst	Moderate
		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Moderate
	[ Cyst TGLS = 10-12: Cyst, Moderate ]		
	[ Leukemia Mononuclear TGLS = 5-5: Thrombosis, Atrium, Moderate ]		
* Liver		Degeneration	Moderate
	Centrilobular, Hepatocyte	Hyperplasia	Moderate
	Bile Duct	Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Moderate
	[ Leukemia Mononuclear TGLS = 3-4+5: Mononuclear Cell Leukemia ]		
* Lung		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 7-2+3: Mononuclear Cell Leukemia ]		
Lymph Node		Leukemia Mononuclear	
	Mediastinal	Pigmentation	Hemosiderin, Minimal
	Mediastinal		

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 37

TRT#: 1

SEX: Male

DAY ON TEST: 723

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500367

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric		Ectasia Leukemia Mononuclear	Moderate
[ Ectasia TGLS = 9-4: Ectasia, Moderate ]			
[ Leukemia Mononuclear TGLS = 9-4: Mononuclear Cell Leukemia ]			
* Mammary Gland		Hyperplasia	Cystic, Moderate
* Nose	Nasolacrim Dct	Inflammation	Suppurative, Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Moderate
[ Cyst TGLS = 6-7: Cyst, Pars Distalis, Moderate ]			
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Spleen		Leukemia Mononuclear Necrosis	Mild
[ Leukemia Mononuclear TGLS = 2-1: Mononuclear Cell Leukemia ]			
[ Necrosis TGLS = 8-1+12: Necrosis, Mild ]			
* Stomach, Forestomach	Epithelium	Hyperplasia Inflammation	Moderate Chronic Active, Moderate
	Epithelium	Ulcer	Marked
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-10: Adenoma, Interstitial Cell, Bilateral ]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Heart Atrium Thrombosis;Kidney Leukemia Mononuclear;Kidney Nephropathy;Stomach;Forestomach Epithelium Ulcer

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 38

TRT#: 1

SEX: Male

DAY ON TEST: 470

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500368

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Degeneration Hyperplasia Leukemia Mononuclear	Fatty, Minimal Mild
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear Nephropathy Pigmentation	Chronic, Mild Hemosiderin, Minimal
* Liver	Bile Duct	Hepatodiaphragmatic Nodule Hyperplasia Leukemia Mononuclear	Mild
		[ Hepatodiaphragmatic Nodule TGLS = 2-12: Hepatodiaphragmatic Nodule ]	
		[ Leukemia Mononuclear TGLS = 2-12: Hepatodiaphragmatic Nodule ]	
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis Pars Distalis	Adenoma Hyperplasia Leukemia Mononuclear	Mild
* Preputial Gland		Inflammation	Chronic Active, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 38	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 470
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9500368

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Prostate	Inflammation	Chronic Active, Mild
* Spleen	Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 1-12: Mononuclear Cell Leukemia ]		
* Testes	Interstit Cell	Hyperplasia
		Minimal

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PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear					
CONTRIBUTORY CAUSE OF DEATH	- Bone Marrow	Leukemia Mononuclear;Heart	Leukemia Mononuclear;Kidney	Leukemia Mononuclear;Pituitary Gland	Pars Distalis	Adenoma	

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 39

TRT#: 1

SEX: Male

DAY ON TEST: 680

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 9500369

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Trachea

MISSING

\* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Mild
		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Mild
		Leukemia Mononuclear	
Blood Vessel		Mineralization	Mild
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Chronic, Mild
		Inflammation	Suppurative, Mild
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Marked
		Pigmentation	Hemosiderin, Minimal
[ Nephropathy TGLS = 4-1: Nephropathy, Chronic, Marked ]			
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 3-4+5: Mononuclear Cell Leukemia ]			
* Lung		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 3-4+5: Mononuclear Cell Leukemia ]			
Lymph Node	Lumbar	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 7-13: Mononuclear Cell Leukemia, Lumbar ]			
* Lymph Node, Mandibular		Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Coconut oil acid diethanolamine condensate

CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

<b>ANIMAL ID:</b> 39	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 680
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 9500369

ORGAN AND ACCOUNTABLE SITE STATUS

[ Leukemia Mononuclear TGLS = 8-12: Mononuclear Cell Leukemia ]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 8-12: Mononuclear Cell Leukemia ]			
* Nose		Leukemia Mononuclear	
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
[ Adenoma TGLS = 6-7: Adenoma, Pars Distalis ]			
* Preputial Gland		Inflammation	Chronic Active, Moderate
		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 6-7: Adenoma, Pars Distalis ]			
* Prostate		Carcinoma	
		Inflammation	Chronic Active, Moderate
		Leukemia Mononuclear	
[ Carcinoma TGLS = 5-12: Carcinoma ]			
* Skin		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 5-12: Carcinoma ]			
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 2-13: Mononuclear Cell Leukemia ]			
* Stomach, Glandular		Mineralization	Mild
* Testes	Germinal Epith	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Minimal
[ Atrophy TGLS = 1-10: Atrophy, Germinal Epithelium, Moderate ]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear  
 CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma;Preputial Gland Leukemia Mononuclear

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 40

TRT#: 1

SEX: Male

DAY ON TEST: 705

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 9500370

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Seminal Vesicle
* Skin	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Degeneration	Cystic, Mild
* Adrenal Medulla		Hyperplasia	Moderate
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Chronic, Moderate
		Mineralization	Minimal
	Atrium	Thrombosis	Mild
* Islets, Pancreatic		Adenoma	
* Kidney	Renal Tubule	Hyperplasia	Moderate
		Nephropathy	Chronic, Marked
		Pigmentation	Hemosiderin, Minimal
		[ Nephropathy TGLS = 2-1: Nephropathy, Chronic, Marked ]	
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
	Centrilobular, Hepatocyte	Necrosis	Marked
		Vacuolization Cytoplasmic	Minimal
		[ Hepatodiaphragmatic Nodule TGLS = 3-4: Hepatodiaphragmatic Nodule ]	
		[ Necrosis TGLS = 4-4+5:Necrosis,Hepatocyte,Centrilobular,Marked ]	
* Nose	Septum, Turbinate, Vein	Thrombosis	Marked
* Pancreas	Acinus	Adenoma	
* Parathyroid Gland		Hyperplasia	Mild
		[ Hyperplasia TGLS = 5-7: Hyperplasia, Mild ]	
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

<b>ANIMAL ID:</b> 40	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 705
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 9500370

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Carcinoma	
		Inflammation	Chronic Active, Moderate
* Salivary Glands	Duct	Cyst	Mild
* Spleen	Red Pulp	Depletion Cellular	Marked
	[ Depletion Cellular TGLS = 6-1: Cellular Depletion, Red Pulp, Marked ]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Marked
		Inflammation	Chronic Active, Marked
		Perforation	
	Epithelium	Ulcer	Marked
	[ Hyperplasia TGLS = 7-12: Hyperplasia, marked ]		
	[ Perforation TGLS = 8-12: Perforation ]		
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
	[ Adenoma TGLS = 1-10: Adenoma, Interstitial Cell ]		

PRIMARY CAUSE OF DEATH	- Kidney Nephropathy
CONTRIBUTORY CAUSE OF DEATH	- Heart Atrium Thrombosis;Islets;Pancreatic Adenoma;Liver Centrilobular Hepatocyte Necrosis;Stomach;Forestomach Perforation;Stomach;Forestomach Epithelium Ulcer

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 41

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9500371

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Degeneration	Cystic, Mild
* Adrenal Medulla		Hyperplasia	Mild
* Epididymis		Mesothelioma Malignant	
[ Mesothelioma Malignant TGLS = 7-12: Hyperplasia, marked ]			
* Heart		Cardiomyopathy	Chronic, Mild
* Intestine Large, Colon		Parasite Metazoan	
* Kidney	Renal Tubule	Hyperplasia	Moderate
		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Mammary Gland		Fibroadenoma	
[ Fibroadenoma TGLS = 1-12: Fibroadenoma ]		Hyperplasia	Cystic, Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 2-7: Adenoma, Pars Distalis ]			
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Testes	Interstit Cell	Adenoma	
	Arteriole	Inflammation	Chronic, Mild

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 41	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9500371

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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	Arteriole	Necrosis	Fibrinoid, Mild
	[ Adenoma TGLS = 3-10: Adenoma, Interstitial Cell ]		
	[ Inflammation TGLS = 3-10:Inflammation,Arteriole, Chronic, Mild ]		
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 42

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 561

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500372

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
Peripheral Nerve	* Salivary Glands	* Seminal Vesicle	* Skin
Spinal Cord	* Spleen	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Kidney		Nephropathy	Chronic, Minimal
		Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Moderate
* Nose	Nasolacrim Dct	Inflammation	Suppurative, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 1-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Stomach, Forestomach		Edema	Moderate
	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic Active, Moderate
	Epithelium	Ulcer	Marked
	[ Ulcer TGLS = 2-5: Ulcer, Epithelium, Marked ]		

**PRIMARY CAUSE OF DEATH** - Pituitary Gland Pars Distalis Adenoma  
**CONTRIBUTORY CAUSE OF DEATH** - Stomach;Forestomach Epithelium Ulcer

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 43

TRT#: 1

SEX: Male

DAY ON TEST: 540

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500373

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Chronic, Minimal
* Kidney		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Minimal
	[ Hyperplasia TGLS = 1-4+5: Hyperplasia, Bile Duct, Mild ]		
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Testes	Germinal Epith	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal
Zymbal's Gland		Carcinoma	
	[ Carcinoma TGLS = 2-12: Carcinoma ]		

PRIMARY CAUSE OF DEATH

- Zymbal's Gland Carcinoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 44

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500374

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Mild
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney	Renal Tubule	Hyperplasia	Minimal
		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Minimal
	[ Nephropathy TGLS = 3-1: Nephropathy, Chronic, Moderate ]		
* Liver	Bile Duct	Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Lung		Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
Mesentery	Fat	Necrosis	Marked
	[ Necrosis TGLS = 5-12: Necrosis, Fat, Marked ]		
* Nose	Respirat Epith	Hyperplasia	Moderate
		Inflammation	Chronic Active, Mild
	Note: Slide #09 - Fungal Cluster & Foreign Body (Hair) Associated With Inflammation In Nasal Cavity.		
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
	[ Adenoma TGLS = 4-7: Adenoma, Pars Distalis ]		
* Preputial Gland	Bilateral	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 44	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9500374

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Adenoma TGLS = 1,2-13: Adenoma, Bilateral ]		Inflammation	Chronic Active, Moderate
* Prostate		Inflammation	Chronic Active, Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Inflammation	Chronic Active, Moderate
	Epithelium	Squamous Cell Papilloma	
[ Squamous Cell Papilloma TGLS = 7-5+12: Squamous Cell Papilloma ]		Ulcer	Marked
* Testes	Germinal Epith	Atrophy	Marked
	Arteriole	Inflammation	Chronic, Mild
	Arteriole	Necrosis	Fibrinoid, Mild
[ Atrophy TGLS = 6-10: Atrophy, Germinal Epithelium, Marked ]			

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 45

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500375

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Adrenal Cortex		Hypertrophy	Minimal
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Minimal
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Mineralization	Minimal
	[ Hepatodiaphragmatic Nodule TGLS = 5,6 - 5+4: Hepatodiaphragmatic Nodule ]		
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Mild
	[ Fibroadenoma TGLS = 1-12: Fibroadenoma ]		
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Cyst Multilocular	Minimal
* Spleen		Fibrosis	Moderate
	[ Fibrosis TGLS = 4-1: Fibrosis, Moderate ]		
* Testes	Interstitial Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	[ Adenoma TGLS = 2-13: Adenoma, Interstitial Cell ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 14:36:04

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 45

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500375

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Atrophy TGLS = 3-10: Atrophy, Germinal Epithelium, Marked ]

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 46

TRT#: 1

SEX: Male

DAY ON TEST: 607

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 9500376

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Epididymis		Mesothelioma Malignant	
* Heart		Cardiomyopathy	Chronic, Mild
* Islets, Pancreatic		Adenoma	
* Kidney	Renal Tubule	Hyperplasia	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Mild
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Mild
* Mammary Gland		Hyperplasia	Cystic, Moderate
Mesentery	Fat	Necrosis	Marked
	[ Necrosis TGLS = 1-12: Necrosis, Fat, Marked ]		
* Nose	Respirat Epith	Hyperplasia	Moderate
		Inflammation	Chronic Active, Moderate
	Note: Slide #09 - Fungal Cluster Associated With Inflammation In Nasal Cavity.		
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 2-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 55312-03

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 14:36:04

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 46

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 607

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 9500376

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Mesothelioma Malignant

[ Adenoma TGLS = 3-10: Adenoma, Interstitial Cell ]

[ Hyperplasia TGLS = 3-10: Hyperplasia, Interstitial Cell, Minimal ]

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**PRIMARY CAUSE OF DEATH**

- Pituitary Gland Pars Distalis Adenoma

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 47

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 668

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 9500377

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mesenteric

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Mild
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Moderate
	[ Cataract TGLS = 6-12: Cataract, Lens, Moderate ]		
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney	Renal Tubule	Hyperplasia	Minimal
		Leukemia Mononuclear	
		Nephropathy	Chronic, Marked
		Pigmentation	Hemosiderin, Minimal
	[ Nephropathy TGLS = 2-1: Nephropathy, Chronic, Marked ]		
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Minimal
	[ Leukemia Mononuclear TGLS = 3-4+5: Mononuclear Cell Leukemia ]		
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
Penis			

Note: TGL#5-7-NCL: Parathyroid Glds Normal Size Histologically.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 47	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 668
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 9500377

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 4-7: Adenoma, Pars Distalis ]			
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Minimal
* Spleen		Leukemia Mononuclear	
* Testes	Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-10: Adenoma, Interstitial Cell ]			

---

PRIMARY CAUSE OF DEATH	- Kidney Nephropathy
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma;Spleen Leukemia Mononuclear

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 48

TRT#: 1

SEX: Male

DAY ON TEST: 583

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500378

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	Penis	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	

OBSERVATIONS

* Heart		Cardiomyopathy	Chronic, Minimal
* Kidney		Hydronephrosis	Mild
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Mild
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
Penis			
Note: TGL#1-12: Penis Normal Histologically. Preputial Skin Inflamed And Coded Under Skin.			
* Pituitary Gland	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Mild
* Prostate		Inflammation	Chronic Active, Moderate
* Skin	Prepuce	Inflammation	Chronic Active, Moderate
	[ Inflammation TGLS = 1-12: Inflammation,Chr-Act,Moderate,Prepuce ]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[ Adenoma TGLS = 2-10: Adenoma, Interstitial Cell, Bilateral ]		
* Urinary Bladder		Inflammation	Chronic Active, Moderate
	[ Inflammation TGLS = 3-1: Inflammation, Chronic-Active, Moderate ]		

PRIMARY CAUSE OF DEATH - Urinary Bladder Inflammation  
 CONTRIBUTORY CAUSE OF DEATH - Kidney Hydronephrosis;Prostate Inflammation

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 49

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 526

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500379

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
* Heart		Cardiomyopathy	Chronic, Minimal
* Kidney	Renal Tubule	Hyperplasia	Minimal
		Nephropathy	Chronic, Marked
		Pigmentation	Hemosiderin, Mild
	[ Nephropathy TGLS = 2-1: Nephropathy, Chronic, Marked ]		
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Mild
	[ Hepatodiaphragmatic Nodule TGLS = 1-5: Hepatodiaphragmatic Nodule ]		
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Nose	Respirat Epith	Hyperplasia	Moderate
		Inflammation	Chronic Active, Moderate
	Note: Slide #09 - Fungal Cluster Associated With Inflammation In Nasal Cavity		
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
	[ Adenoma TGLS = 3-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Minimal
* Spleen		Fibrosis	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 49	<b>TRT#:</b> 1 <b>DOSE:</b> 0 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 526 <b>HISTO:</b> 9500379
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Fibrosis TGLS = 4-1: Fibrosis, Minimal ]

* Stomach, Forestomach	Epithelium	Hyperplasia Inflammation	Mild Chronic Active, Moderate
* Thyroid Gland	Epithelium C Cell	Ulcer Adenoma	Marked

---

PRIMARY CAUSE OF DEATH	- Kidney Nephropathy
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma; Stomach; Forestomach Epithelium Ulcer

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 50

TRT#: 1

SEX: Male

DAY ON TEST: 702

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500380

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Heart	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Hyperplasia	Moderate
* Intestine Large, Cecum		Inflammation	Chronic Active, Moderate
* Kidney	Renal Tubule	Adenoma	
		Nephropathy	Chronic, Marked
		Pigmentation	Hemosiderin, Minimal
	[ Nephropathy TGLS = 4-1: Nephropathy, Chronic, Marked ]		
* Liver	Bile Duct	Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
Mesentery		Inflammation	Chronic Active, Moderate
	[ Inflammation TGLS = 3-1+4+5: Inflammation, Chronic Active, Moderate ]		
* Pancreas	Acinus	Atrophy	Minimal
* Parathyroid Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Moderate
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Chronic Active, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 14:36:04

**First Dose M/F:** NA / NA

**Lab:** BAT

**ANIMAL ID:** 50

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 702

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500380

**ORGAN AND ACCOUNTABLE SITE STATUS**

\* Stomach, Forestomach

Epithelium

Hyperplasia

Moderate

Inflammation

Chronic Active, Mild

Perforation

Squamous Cell Papilloma

[ Perforation TGLS = 2-12: Perforation ]

\* Testes

Interstit Cell

Adenoma

Marked

Germinal Epith

Atrophy

Chronic, Minimal

Arteriole

Inflammation

Fibrinoid, Minimal

Arteriole

Necrosis

[ Adenoma TGLS = 1-10: Adenoma, Interstitial Cell ]

[ Atrophy TGLS = 1-10: Atrophy, Germinal Epithelium, Marked ]

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

CONTRIBUTORY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma;Stomach;Forestomach Perforation

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 51

TRT#: 3

SEX: Male

DAY ON TEST: 720

DOSE: 50 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500381

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hypertrophy	Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone		Fibrous Osteodystrophy	Mild
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Chronic, Minimal
* Intestine Large, Colon		Polyp Adenomatous	
	[ Polyp Adenomatous TGLS = 9-12: Adenomatous Polyp ]		
* Intestine Large, Rectum		Parasite Metazoan	
	[ Parasite Metazoan TGLS = 9-12: Adenomatous Polyp ]		
* Kidney	Renal Tubule	Hyperplasia	Moderate
		Nephropathy	Chronic, Marked
		Pigmentation	Hemosiderin, Minimal
	[ Nephropathy TGLS = 5-1: Nephropathy, Chronic, Marked ]		
* Liver		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Moderate
	[ Leukemia Mononuclear TGLS = 6-4+5: Mononuclear Cell Leukemia ]		
* Lung		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 6-4+5: Mononuclear Cell Leukemia ]		
Lymph Node	Mediastinal	Leukemia Mononuclear	
* Mammary GI			

Note: TGL#2-13: Mammary Gld Mass, Documented At Necropsy, Is Subcutaneous Fibroma Histologically.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014  
Time Report Requested: 14:36:04  
First Dose M/F: NA / NA  
Lab: BAT

ANIMAL ID: 51 TRT#: 3 SEX: Male DAY ON TEST: 720  
DOSE: 50 MG/KG DISP: Moribund Sacrifice HISTO: 9500381

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Atrophy	Mild
* Parathyroid Gland		Hyperplasia	Mild
[ Hyperplasia TGLS = 7-7: Hyperplasia, Mild ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 8-7: Adenoma, Pars Distalis ]			
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Cyst Multilocular	Mild
		Inflammation	Chronic Active, Marked
* Skin	Subcut Tiss	Fibroma	
	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous Gl	Hyperplasia	Mild
	Epidermis, SOA	Parakeratosis	Minimal
[ Fibroma TGLS = 2-13: Fibroma, Subcutaneous Tissue ]			
* Spleen		Fibrosis	Moderate
		Hematopoietic Cell Proliferation	Moderate
		Hyperplasia	Moderate
		Leukemia Mononuclear	
[ Fibrosis TGLS = 4-12: Fibrosis, Moderate ]			
[ Hematopoietic Cell Proliferation TGLS = 3-1: Hematopoietic Cell Proliferation ]			
[ Hyperplasia TGLS = 3-1: Hyperplasia, Moderate ]			
[ Leukemia Mononuclear TGLS = 3-1: Mononuclear Cell Leukemia ]			
* Testes	Germinal Epith	Atrophy	Marked
	Arteriole	Inflammation	Chronic, Minimal
[ Atrophy TGLS = 1-10: Atrophy, Germinal Epithelium, Marked ]			

PRIMARY CAUSE OF DEATH - Kidney Nephropathy  
CONTRIBUTORY CAUSE OF DEATH - Intestine Large;Colon Polyp Adenomatous;Intestine Large;Rectum Parasite Metazoan;Pituitary Gland Pars Distalis Adenoma;Skin Subcut Tiss Fibroma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 52

TRT#: 3

SEX: Male

DAY ON TEST: 589

DOSE: 50 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500382

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia	Marked
		Leukemia Mononuclear	
* Brain		Hemorrhage	Mild
		Leukemia Mononuclear	
Coagulating Gland		Inflammation	Suppurative, Moderate
* Heart		Cardiomyopathy	Chronic, Minimal
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
		Pigmentation	Hemosiderin, Minimal
* Liver	Centrilobular, Hepatocyte	Degeneration	Mild
	Bile Duct	Hepatodiaphragmatic Nodule	
		Hyperplasia	Mild
	Hepatocyte	Leukemia Mononuclear	
		Necrosis	Mild
	[ Hepatodiaphragmatic Nodule TGLS = 5-4: Hepatodiaphragmatic Nodule ]		
	[ Leukemia Mononuclear TGLS = 4-4+5: Mononuclear Cell Leukemia ]		
* Lung		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 4-4+5: Mononuclear Cell Leukemia ]		
Lymph Node	Mediastinal	Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

<b>ANIMAL ID:</b> 52	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 589
	<b>DOSE:</b> 50 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9500382

**ORGAN AND ACCOUNTABLE SITE STATUS**

	Pancreatic	Leukemia Mononuclear	
	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Cystic, Minimal
* Nose	Nasolacrim Dct	Inflammation	Suppurative, Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Marked
	[ Inflammation TGLS = 2-11: Inflammation, Chronic-Active, Marked ]		
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 3-1: Mononuclear Cell Leukemia ]		
* Testes		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 1-10: Mononuclear Cell Leukemia ]		

PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland	Pars Distalis Adenoma;Prostate Inflammation

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 53

TRT#: 3

SEX: Male

DAY ON TEST: 617

DOSE: 50 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500383

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Mild
* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Bone		Fibrous Osteodystrophy	Marked
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney	Renal Tubule	Cyst	Moderate
		Hyperplasia	Moderate
		Nephropathy	Chronic, Marked
		Pigmentation	Hemosiderin, Minimal
	[ Nephropathy TGLS = 1-1: Nephropathy, Chronic, Marked ]		
* Liver	Hepatocyte	Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Moderate
* Pancreas	Acinus	Atrophy	Minimal
* Parathyroid Gland			
Note: TGL#2-7-NCL: Enlarged Parathyroid Glands Not Apparent Histologically.			
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 53	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 617
	<b>DOSE:</b> 50 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9500383

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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	Epithelium	Inflammation	Chronic Active, Moderate
	[ Hyperplasia TGLS = 3-4: Hyperplasia, Epithelium, Moderate ]	Ulcer	Marked
* Testes	Germinal Epith	Atrophy	Marked
	Arteriole	Inflammation	Chronic, Minimal
	Arteriole	Necrosis	Fibrinoid, Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

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PRIMARY CAUSE OF DEATH	- Kidney Nephropathy
CONTRIBUTORY CAUSE OF DEATH	- Stomach;Forestomach Epithelium Ulcer

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 54

TRT#: 3

SEX: Male

DAY ON TEST: 586

DOSE: 50 MG/KG

DISP: Natural Death

HISTO: 9500384

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Thymus

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
[ Nephropathy TGLS = 2-1: Nephropathy, Chronic, Mild ]			
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Mild
[ Hepatodiaphragmatic Nodule TGLS = 3-12: Hepatodiaphragmatic Nodule ]			
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Lymph Node	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 4-7: Adenoma, Pars Distalis ]			
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Cyst Multilocular	Mild
		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 54	<b>TRT#:</b> 3 <b>DOSE:</b> 50 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Natural Death	<b>DAY ON TEST:</b> 586 <b>HISTO:</b> 9500384
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Stomach, Forestomach	Epidermis, SOA	Hyperplasia	Minimal
* Testes	Epithelium	Hyperplasia	Mild
	Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-10: Adenoma, Interstitial Cell ]			
* Thyroid Gland			
Note: TGL#5-7-NCL; Left Thyroid Gland Normal Histologically.			

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**PRIMARY CAUSE OF DEATH** - Pituitary Gland Pars Distalis Adenoma

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Animal Note: Death May Also Have Been Due To Asphyxiation Secondary To Food Lodged Near Tracheal Opening As Documented At Necropsy.

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 55

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 50 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500385

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Chronic, Mild
* Islets, Pancreatic		Adenoma	
* Kidney	Renal Tubule	Hyperplasia	Minimal
		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Minimal
	[ Nephropathy TGLS = 2-1: Nephropathy, Chronic, Moderate ]		
* Liver	Bile Duct	Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 4-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Epidermis, SOA	Parakeratosis	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 55	<b>TRT#:</b> 3 <b>DOSE:</b> 50 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 729 <b>HISTO:</b> 9500385
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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	Pinna	Squamous Cell Papilloma	
[ Squamous Cell Papilloma TGLS = 1-12:	Squamous Cell Papilloma, Pinna ]		
* Stomach, Forestomach	Epithelium	Hyperplasia Inflammation Perforation	Moderate Chronic Active, Mild
	Epithelium	Ulcer	Marked
[ Perforation TGLS = 5-4: Ulcer, Epithelium, Marked ]			
[ Ulcer TGLS = 5-4: Ulcer, Epithelium, Marked ]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 3-10: Adenoma, Interstitial Cell, Bilateral ]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 56

TRT#: 3

SEX: Male

DAY ON TEST: 579

DOSE: 50 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500386

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Bone Marrow		Hyperplasia	Marked
		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 5-4: Ulcer, Epithelium, Marked ]		
* Heart		Cardiomyopathy	Chronic, Mild
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Minimal
	[ Leukemia Mononuclear TGLS = 2-4+5: Mononuclear Cell Leukemia ]		
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Granulocytic	
	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Lymph Node, Mandibular		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 4-4: Mononuclear Cell leukemia ]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 4-4: Mononuclear Cell leukemia ]		
* Mammary Gland		Hyperplasia	Cystic, Minimal
Mesentery		Inflammation	Chronic Active, Moderate
	[ Inflammation TGLS = 3-12: Inflammation, Chronic-Active, Moderate ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 14:36:04

**First Dose M/F:** NA / NA

**Lab:** BAT

**ANIMAL ID:** 56

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 579

**DOSE:** 50 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500386

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 1-12: Mononuclear Cell Leukemia ]			
* Stomach, Forestomach		Edema	Mild
	Epithelium	Hyperplasia	Moderate
		Inflammation	Chronic Active, Moderate
	Epithelium	Ulcer	Marked
[ Ulcer TGLS = 5-13: Ulcer, Epithelium, Marked ]			
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
[ Adenoma TGLS = 6-10: Adenoma, Interstitial Cell ]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear  
 CONTRIBUTORY CAUSE OF DEATH - Stomach;Forestomach Epithelium Ulcer

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 57

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 626

**DOSE:** 50 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500387

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Mild
		Hypertrophy	Mild
[ Hyperplasia TGLS = 2-7: Hyperplasia, Mild ]			
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
[ Nephropathy TGLS = 3-1: Nephropathy, Chronic, Mild ]			
* Liver	Hepatocyte	Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Moderate
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 4-7: Adenoma, Pars Distalis ]			
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Cyst Multilocular	Mild
		Inflammation	Chronic Active, Mild
* Skin	Subcut Tiss	Fibroma	
	Epidermis, SOA	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 57	<b>TRT#:</b> 3 <b>DOSE:</b> 50 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 626 <b>HISTO:</b> 9500387
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Fibroma TGLS = 1-12: Fibroma, Subcutaneous Tissue ]	SOA, Sebaceous GI	Hyperplasia	Minimal
* Testes	Interstit Cell	Hyperplasia	Minimal
	Arteriole	Inflammation	Chronic, Mild
	Arteriole	Necrosis	Fibrinoid, Mild

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PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 58

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 523

**DOSE:** 50 MG/KG

**DISP:** Natural Death

**HISTO:** 9500388

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Thymus

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Adrenal Medulla		Ganglioneuroma	
* Heart		Cardiomyopathy	Chronic, Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Mild
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 1-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH**

- Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 59

TRT#: 3

SEX: Male

DAY ON TEST: 474

DOSE: 50 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500389

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Heart		Cardiomyopathy	Chronic, Minimal
* Kidney		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Mild
		Vacuolization Cytoplasmic	Minimal
* Mammary Gland		Hyperplasia	Cystic, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 1-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
* Stomach, Forestomach		Edema	Moderate
* Testes	Germinal Epith	Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 60

TRT#: 3

SEX: Male

DAY ON TEST: 617

DOSE: 50 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500390

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Salivary Glands	* Seminal Vesicle	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Mild
* Heart		Cardiomyopathy	Chronic, Mild
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Minimal
[ Nephropathy TGLS = 2-1+13: Nephropathy, Chronic, Moderate ]			
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Mild
[ Hepatodiaphragmatic Nodule TGLS = 1-12: Hepatodiaphragmatic Nodule ]			
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pancreas	Acinus	Atrophy	Minimal
* Parathyroid Gland		Hyperplasia	Mild
[ Hyperplasia TGLS = 3-7: Hyperplasia, Mild ]			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Minimal
		Pigmentation	Hematoidin, Moderate
[ Adenoma TGLS = 4-7: Adenoma, Pars Distalis ]			
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 60	<b>TRT#:</b> 3 <b>DOSE:</b> 50 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 617 <b>HISTO:</b> 9500390
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Skin	Epidermis, SOA SOA, Sebaceous GI	Hyperplasia Hyperplasia	Minimal Minimal
* Spleen [ Fibrosis TGLS = 5-12: Fibrosis, Mild ]		Fibrosis	Mild
* Stomach, Forestomach	Edema Epithelium	Hyperplasia Inflammation	Mild Moderate Chronic Active, Moderate

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PRIMARY CAUSE OF DEATH	- Kidney Nephropathy
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 61

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 50 MG/KG

DISP: Terminal Sacrifice

HISTO: 9500391

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Salivary Glands	* Seminal Vesicle
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Degeneration	Cystic, Mild
		Hyperplasia	Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone		Fibrous Osteodystrophy	Mild
* Bone Marrow		Hyperplasia	Marked
		Leukemia Mononuclear	
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney	Renal Tubule	Hyperplasia	Minimal
		Leukemia Mononuclear	
		Nephropathy	Chronic, Marked
		Pigmentation	Hemosiderin, Mild
		[ Nephropathy TGLS = 3-1+12: Nephropathy, Chronic, Marked ]	
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Mild
		[ Leukemia Mononuclear TGLS = 5-4+5: Mononuclear Cell Leukemia ]	
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mediastinal	Pigmentation	Hemosiderin, Minimal
		[ Leukemia Mononuclear TGLS = 8-2: Mononuclear Cell Leukemia ]	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Cystic, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 14:36:04

**First Dose M/F:** NA / NA

**Lab:** BAT

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<b>ANIMAL ID:</b> 61	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 50 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9500391

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Parathyroid Gland [ Hyperplasia TGLS = 7-7: Hyperplasia, Moderate ]		Hyperplasia	Moderate
* Pituitary Gland [ Adenoma TGLS = 6-7: Adenoma, Pars Distalis ]	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
	[ Keratoacanthoma TGLS = 1-13: Keratoacanthoma ]	Keratoacanthoma	
* Spleen		Fibrosis	Moderate
	[ Fibrosis TGLS = 9-12: Fibrosis, Moderate ]	Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 4-12: Mononuclear Cell Leukemia ]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
	[ Squamous Cell Papilloma TGLS = 10-13: Squamous Cell Papilloma, Multiple ]	Squamous Cell Papilloma	Multiple
* Stomach, Glandular		Mineralization	Mild
* Testes	Germinal Epith	Atrophy	Marked
	Arteriole	Inflammation	Chronic, Mild
	Arteriole	Necrosis	Fibrinoid, Mild
	[ Atrophy TGLS = 2-10: Atrophy, Germinal Epithelium, Marked ]		
* Thyroid Gland	C Cell	Hyperplasia	Minimal

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 62

TRT#: 3

SEX: Male

DAY ON TEST: 611

DOSE: 50 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500392

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Adenoma	
		Degeneration	Fatty, Mild
* Heart		Cardiomyopathy	Chronic, Minimal
* Kidney		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Mild
		Vacuolization Cytoplasmic	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Plasma Cell, Moderate
			[ Hyperplasia TGLS = 2-6: Hyperplasia, Plasma Cell, Moderate ]
* Mammary Gland		Hyperplasia	Cystic, Mild
* Nose	Respirat Epith	Hyperplasia	Moderate
		Inflammation	Chronic Active, Mild
	Respirat Epith	Metaplasia	Squamous, Mild
			Note: Slide #09 - Fungal Cluster & Foreign Body (Hair) Associated With Inflammation In Nasal Cavity.
* Pituitary Gland	Pars Distalis	Adenoma	
			[ Adenoma TGLS = 4-7: Adenoma, Pars Distalis ]
* Preputial Gland		Adenoma	
		Inflammation	Chronic Active, Mild
			[ Adenoma TGLS = 5-11: Adenoma ]
* Prostate		Inflammation	Chronic Active, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 62	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 611
	<b>DOSE:</b> 50 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9500392

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Saliv Glands

Note: TGL#3-6-NCL: Salivary Glands Normal Histologically.

\* Skin

Epidermis, SOA  
SOA, Sebaceous GI

Hyperplasia  
Hyperplasia  
Inflammation

Minimal  
Minimal  
Chronic Active, Marked

[ Inflammation TGLS = 1-12: Inflammation, Chronic-Active, Marked ]

Zymbal's Gland

Carcinoma

Note: TGL#1-12: Documented As Being Associated With Enlarged Zymbal's Gld At Necropsy, Is Cavity Containing & Surrounded By Marked Chr-Act Inflammation.

[ Carcinoma TGLS = 1-13: Carcinoma ]

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PRIMARY CAUSE OF DEATH	- Zymbal's Gland Carcinoma
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 63      **TRT#:** 3      **SEX:** Male      **DAY ON TEST:** 729  
**DOSE:** 50 MG/KG      **DISP:** Terminal Sacrifice      **HISTO:** 9500393

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Heart		Cardiomyopathy	Chronic, Minimal
* Intestine Large, Colon		Parasite Metazoan	
[ Parasite Metazoan TGLS = 2-10: Adenoma, Interstitial Cell, Bilateral ]			
* Islets, Pancreatic		Adenoma	
* Kidney		Cyst	Mild
	Renal Tubule	Hyperplasia	Mild
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Mild
[ Nephropathy TGLS = 4-1: Nephropathy, Chronic, Mild ]			
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
* Mammary Gland		Hyperplasia	Cystic, Minimal
Note: TGL#1-13: Mammary Gland Mass, Documented At Necropsy, Is Subcutaneous Fibrosarcoma Histologically.			
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
[ Hyperplasia TGLS = 3-7: Hyperplasia, Pars Distalis, Mild ]			
* Preputial Gland		Inflammation	Chronic Active, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 63	<b>TRT#:</b> 3 <b>DOSE:</b> 50 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 729 <b>HISTO:</b> 9500393
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Prostate		Cyst Multilocular Inflammation	Minimal Chronic Active, Minimal
* Skin	Subcut Tiss Epidermis, SOA Epidermis, SOA SOA, Sebaceous GI	Fibrosarcoma Hyperkeratosis Hyperplasia Hyperplasia Keratoacanthoma	Mild Minimal Mild
	[ Fibrosarcoma TGLS = 1-13: Fibrosarcoma, Subcutaneous Tissue ] [ Keratoacanthoma TGLS = 5-12: Keratoacanthoma ]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[ Adenoma TGLS = 2-10: Adenoma, Interstitial Cell, Bilateral ]		

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 64

TRT#: 3

SEX: Male

DAY ON TEST: 558

DOSE: 50 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500394

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Glandular	* Testes
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Kidney		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
	[ Nephropathy TGLS = 1-1: Nephropathy, Chronic, Mild ]		
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Nose	Respirat Epith	Hyperplasia	Moderate
		Inflammation	Chronic Active, Mild
	Note: Slide #09 - Foreign Body (Hair) Associated With Inflammation In Nasal Cavity.		
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 2-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Cyst Multilocular	Mild
		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
	Epidermis, SOA	Parakeratosis	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 64	<b>TRT#:</b> 3 <b>DOSE:</b> 50 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 558 <b>HISTO:</b> 9500394
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Stomach, Forestomach [ Hyperplasia TGLS = 3-12: Hyperplasia, Epithelium, Mild ]	Epithelium	Hyperplasia	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

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PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 65

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 620

**DOSE:** 50 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500395

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney	Renal Tubule	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Nephropathy	Chronic, Marked
		Pigmentation	Hemosiderin, Minimal
	[ Nephropathy TGLS = 6-1+12: Nephropathy, Chronic, Marked ]		
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Mild
	[ Leukemia Mononuclear TGLS = 7-4+5: Mononuclear Cell Leukemia ]		
* Lung		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 7-4+5: Mononuclear Cell Leukemia ]		
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Mild
	[ Hyperplasia TGLS = 8-15: Hyperplasia, Lymphoid, Mild, Mediastinal ]		
* Mammary Gland		Hyperplasia	Cystic, Moderate
	[ Hyperplasia TGLS = 4-12: Hyperplasia, Cystic, Moderate ]		
* Nose	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

<b>ANIMAL ID:</b> 65	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 620
	<b>DOSE:</b> 50 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9500395

**ORGAN AND ACCOUNTABLE SITE STATUS**

Note: Slide #09 - Foreign Body (Hair) Associated With Inflammation In Nasal Cavity.

* Pancreas	Acinus	Atrophy	Mild
* Parathyroid Gland		Hyperplasia	Mild
	[ Hyperplasia TGLS = 10-7: Hyperplasia, Mild ]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 9-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Carcinoma	
		Inflammation	Chronic Active, Moderate
	[ Carcinoma TGLS = 2-13: Carcinoma ]		
* Prostate		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
		Squamous Cell Papilloma	
	[ Squamous Cell Papilloma TGLS = 1-14: Squamous Cell Papilloma ]		
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 5-1: Mononuclear Cell Leukemia ]		
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	Arteriole	Inflammation	Chronic, Mild
	Arteriole	Necrosis	Fibrinoid, Mild
	[ Adenoma TGLS = 3-10: Adenoma, Interstitial Cell ]		

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma;Spleen Leukemia Mononuclear

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 66                      **TRT#:** 3                      **SEX:** Male                      **DAY ON TEST:** 729  
**DOSE:** 50 MG/KG                      **DISP:** Terminal Sacrifice                      **HISTO:** 9500396

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Cystic, Mild
		Degeneration	Fatty, Mild
		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney	Renal Tubule	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Cystic, Moderate
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 1-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 66	<b>TRT#:</b> 3 <b>DOSE:</b> 50 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 729 <b>HISTO:</b> 9500396
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Spleen [ Leukemia Mononuclear TGLS = 2-1: Mononuclear Cell Leukemia ]	SOA, Sebaceous GI	Hyperplasia Leukemia Mononuclear	Mild
* Testes	Interstit Cell	Hyperplasia	Minimal
* Thyroid Gland	Follicular Cel C Cell	Adenoma Hyperplasia	Minimal

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 67

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 50 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500397

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Blood Vessel	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Pancreas	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Mild
* Bone		Fibrous Osteodystrophy	Mild
* Bone Marrow		Hyperplasia	Marked
		Leukemia Mononuclear	
Coagulating Gland		Inflammation	Suppurative, Marked
* Heart		Cardiomyopathy	Chronic, Minimal
		Leukemia Mononuclear	
* Kidney	Renal Tubule	Adenoma	Multiple
		Cyst	Moderate
		Leukemia Mononuclear	
		Lipoma	
		Nephropathy	Chronic, Moderate
	[ Nephropathy TGLS = 3-1: Nephropathy, Chronic, Moderate ]		
* Liver	Hepatocyte	Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 2-4+5: Mononuclear Cell Leukemia ]		
* Lung		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 2-4+5: Mononuclear Cell Leukemia ]		
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mediastinal	Pigmentation	Hemosiderin, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 67	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 50 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9500397

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Lymph Node, Mandibular [ Leukemia Mononuclear TGLS = 5-10: Adenoma, Interstitial Cell, Bilateral ]		Leukemia Mononuclear	
* Lymph Node, Mesenteric [ Leukemia Mononuclear TGLS = 5-10: Adenoma, Interstitial Cell, Bilateral ]		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Cystic, Mild
* Parathyroid Gland [ Hyperplasia TGLS = 4-7: Hyperplasia, Mild ]		Hyperplasia	Mild
* Pituitary Gland [ Adenoma TGLS = 6-7: Adenoma, Pars Distalis ]	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Moderate
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
* Spleen [ Leukemia Mononuclear TGLS = 1-12: Mononuclear Cell Leukemia ]		Leukemia Mononuclear	
* Testes [ Adenoma TGLS = 5-10: Adenoma, Interstitial Cell, Bilateral ]	Bilateral, Interstit Cell	Adenoma	

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 68

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 50 MG/KG

DISP: Terminal Sacrifice

HISTO: 9500398

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney	Renal Tubule	Hyperplasia	Mild
		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Minimal
	[ Nephropathy TGLS = 4-1: Nephropathy, Chronic, Moderate ]		
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Hepatocyte	Degeneration	Cystic, Minimal
	Bile Duct	Hepatodiaphragmatic Nodule	
		Hyperplasia	Mild
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Mild
	[ Hepatodiaphragmatic Nodule TGLS = 6-5: Hepatodiaphragmatic Nodule ]		
* Mammary Gland		Cyst	Marked
		Hyperplasia	Cystic, Minimal
	Note: TGL#1-12: Mammary Gland Mass, Documented At Necropsy, Is Subcutaneous Fibroma Histologically.		
	[ Cyst TGLS = 5-13: Cyst, Marked ]		
* Nose	Nasolacrim Dct	Inflammation	Suppurative, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic Active, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 68	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 50 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9500398

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Prostate		Inflammation	Chronic Active, Mild
* Skin	Subcut Tiss	Fibroma	
	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous Gl	Hyperplasia	Mild

Note: TGL#5-13: Cutaneous Cyst, Documented At Necropsy, Is Mammary Gland Cyst Histologically.

[ Fibroma TGLS = 1-12: Fibroma, Subcutaneous Tissue ]

\* Spleen  
Note: TGL#3-1-NCL:Spleen Is Congested Which Accounts For The Dark Color Documented At Necropsy. Otherwise Is Normal Histologically.

\* Testes  
Bilateral, Interstit Cell  
Adenoma  
[ Adenoma TGLS = 2-10: Adenoma, Interstitial Cell, Bilateral ]

\* Thyroid Gland  
C Cell  
Adenoma

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 69

TRT#: 3

SEX: Male

DAY ON TEST: 620

DOSE: 50 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500399

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration Hyperplasia	Minimal Fatty, Mild Mild
* Heart		Cardiomyopathy	Chronic, Minimal
* Kidney	Renal Tubule	Adenoma Nephropathy Pigmentation	Chronic, Moderate Hemosiderin, Minimal
	[ Nephropathy TGLS = 2-1: Nephropathy, Chronic, Moderate ]		
* Liver	Bile Duct	Hyperplasia	Mild
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Marked
	[ Hyperplasia TGLS = 1-12: Hyperplasia, Cystic, Marked ]		
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 3-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Chronic Active, Moderate
* Skin	Epidermis, SOA SOA, Sebaceous GI	Hyperplasia Hyperplasia	Mild Mild
* Testes	Arteriole Arteriole	Inflammation Necrosis	Chronic, Mild Fibrinoid, Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 69

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 620

**DOSE:** 50 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500399

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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CONTRIBUTORY CAUSE OF DEATH

- Kidney Nephropathy

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 70

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 725

**DOSE:** 50 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500400

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Nose	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Cystic, Minimal
		Degeneration	Fatty, Mild
		Hyperplasia	Mild
		Hypertrophy	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Marked
Coagulating Gland		Inflammation	Chronic Active, Mild
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Accumulation, Hyaline Droplet	Mild
		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Minimal
	[ Nephropathy TGLS = 5-1: Nephropathy, Chronic, Moderate ]		
* Liver	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Necrosis	Mild
	[ Necrosis TGLS = 6-4+5: Necrosis, Hepatocyte, Mild ]		
Lymph Node	Mediastinal	Fibrosarcoma	Metastatic (Skin)
	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Lymph Node, Mesenteric		Ectasia	Moderate
	[ Ectasia TGLS = 8-4: Ectasia, Moderate ]		
* Mammary Gland		Hyperplasia	Cystic, Mild

Note: TGL#1-13: Mammary Gld Mass, Documented At Necropsy, Is Subcutaneous Fibrosarcoma Histologically.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 70

TRT#: 3

SEX: Male

DAY ON TEST: 725

DOSE: 50 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500400

**ORGAN AND ACCOUNTABLE SITE STATUS**

Mesentery	Fat	Necrosis	Marked
[ Necrosis TGLS = 2-12: Necrosis, Fat, Marked ]			
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 7-7: Adenoma, Pars Distalis ]			
* Preputial Gland		Inflammation	Chronic Active, Moderate
* Prostate		Inflammation	Chronic Active, Marked
[ Inflammation TGLS = 3-12: Inflammation, Chronic-Active, Marked ]			
* Skin	Subcut Tiss	Fibrosarcoma	
	Epidermis, SOA	Hyperkeratosis	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
[ Fibrosarcoma TGLS = 1-13: Fibrosarcoma, Subcutaneous Tissue ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 4-1: Hematopoietic Cell Proliferation, Moderate ]			
* Testes	Interstit Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibrosarcoma

CONTRIBUTORY CAUSE OF DEATH - Kidney Nephropathy; Pituitary Gland Pars Distalis Adenoma; Prostate Inflammation

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 71

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 534

**DOSE:** 50 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500401

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Minimal
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 1-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH**

- Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 72

TRT#: 3

SEX: Male

DAY ON TEST: 499

DOSE: 50 MG/KG

DISP: Natural Death

HISTO: 9500402

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Thymus

OBSERVATIONS

* Heart		Cardiomyopathy	Chronic, Minimal
* Kidney		Nephropathy	Chronic, Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
Note: TGL#2-5-NCL: Pale Focus, Documented At Necropsy, Not Apparent Histologically.			
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
Mesentery	Fat	Necrosis	Marked
	[ Necrosis TGLS = 4-12: Necrosis, Fat, Marked ]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
	[ Hyperplasia TGLS = 3-7: Hyperplasia, Pars Distalis, Mild ]		
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Mild
	[ Adenoma TGLS = 1-10: Adenoma, Interstitial Cell ]		

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 55312-03

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 14:36:04

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 72

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 499

**DOSE:** 50 MG/KG

**DISP:** Natural Death

**HISTO:** 9500402

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Animal Note: Death Was Probably Due To Asphyxiation Secondary To Food Lodged Near Tracheal Op ening.

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 73

TRT#: 3

SEX: Male

DAY ON TEST: 580

DOSE: 50 MG/KG

DISP: Natural Death

HISTO: 9500403

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Mild
* Heart		Cardiomyopathy	Chronic, Minimal
* Kidney		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Cystic, Moderate
* Nose	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
Note: Slide #09 - Foreign Body (Hair) Associated With Inflammation In Nasal Cavity.			
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 1-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Animal Note: Death May Also Have Been Due To Asphyxiation Due To Food Lodged Near Tracheal Op ening As Documented At Necropsy.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 74

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 50 MG/KG

DISP: Terminal Sacrifice

HISTO: 9500404

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Mild
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Moderate
	[ Cataract TGLS = 1-12: Cataract, Lens, Moderate ]		
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Cyst	Mild
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
	[ Cyst TGLS = 5-12: Cyst, Mild ]		
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Minimal
* Lung	Alveolar Epith	Hyperplasia	Moderate
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
Mesentery	Fat	Fibrosarcoma	
	[ Fibrosarcoma TGLS = 3-12: Fibrosarcoma, Fat ]		
* Pancreas	Acinus	Atrophy	Marked
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 4-7: Adenoma, Pars Distalis ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 74	<b>TRT#:</b> 3 <b>DOSE:</b> 50 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 729 <b>HISTO:</b> 9500404
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Prostate		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	[ Adenoma TGLS = 2-10: Adenoma, Interstitial Cell, Bilateral ]		

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PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014  
Time Report Requested: 14:36:04  
First Dose M/F: NA / NA  
Lab: BAT

ANIMAL ID: 75

TRT#: 3

SEX: Male

DAY ON TEST: 444

DOSE: 50 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500405

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Parathyroid Gland

OBSERVATIONS

* Kidney		Nephropathy Pigmentation	Chronic, Mild Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia Inflammation	Minimal Chronic, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 1-7: Adenoma, Pars Distalis ]			
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 55312-03

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 14:36:04

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 76

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 511

**DOSE:** 50 MG/KG

**DISP:** Natural Death

**HISTO:** 9500406

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

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\* PROTOCOL REQUIRED TISSUE





**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 77	<b>TRT#:</b> 3 <b>DOSE:</b> 50 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 529 <b>HISTO:</b> 9500407
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Interstit Cell [ Adenoma TGLS = 4-10: Adenoma, Interstitial Cell ]	Hyperplasia	Minimal
* Thyroid Gland Zymbal's Gland [ Carcinoma TGLS = 1-12+14: Carcinoma ]	C Cell Hyperplasia Carcinoma	Minimal

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PRIMARY CAUSE OF DEATH	- Zymbal's Gland Carcinoma
CONTRIBUTORY CAUSE OF DEATH	- Spleen Leukemia Mononuclear

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 78

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 50 MG/KG

DISP: Terminal Sacrifice

HISTO: 9500408

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney	Renal Tubule	Hyperplasia	Minimal
		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Minimal
	[ Nephropathy TGLS = 4-1: Nephropathy, Chronic, Moderate ]		
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Mammary Gland		Cyst	Marked
		Hyperplasia	Cystic, Moderate
	[ Cyst TGLS = 2-13: Cyst, Marked ]		
* Parathyroid Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 5-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Adenoma	
		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Moderate
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 78	<b>TRT#:</b> 3 <b>DOSE:</b> 50 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 729 <b>HISTO:</b> 9500408
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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	SOA, Sebaceous Gl SOA [ Keratoacanthoma TGLS = 1-12: Keratoacanthoma, Skin, SOA ]	Hyperplasia Keratoacanthoma	Minimal
* Testes	Germinal Epith Interstit Cell Arteriole Arteriole [ Atrophy TGLS = 3-10: Atrophy, Germinal Epithelium, Marked ]	Atrophy Hyperplasia Inflammation Necrosis	Marked Minimal Chronic, Mild Fibrinoid, Mild
* Thyroid Gland	Follicular Cel	Adenoma	

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 79

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 574

**DOSE:** 50 MG/KG

**DISP:** Natural Death

**HISTO:** 9500409

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Nephropathy	Chronic, Moderate
* Liver	Bile Duct	Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Mammary Gland		Hyperplasia	Cystic, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 1-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
	[ Hyperplasia TGLS = 2-12: Hyperplasia, Moderate ]		
* Testes	Interstit Cell	Adenoma	

**PRIMARY CAUSE OF DEATH**

- Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 80

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 50 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500410

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Adrenal Medulla		Hyperplasia	Mild
* Kidney		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Mild
		Vacuolization Cytoplasmic	Mild
	[ Hepatodiaphragmatic Nodule TGLS = 1-4: Hepatodiaphragmatic Nodule ]		
	Lymph Node	Pigmentation	Hemosiderin, Minimal
* Mammary Gland	Mediastinal	Hyperplasia	Cystic, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 2-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 80	<b>TRT#:</b> 3 <b>DOSE:</b> 50 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 729 <b>HISTO:</b> 9500410
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Testes	SOA, Sebaceous GI Germinal Epith Arteriole Arteriole	Hyperplasia Atrophy Inflammation Necrosis	Mild Marked Chronic, Mild Fibrinoid, Mild
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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 81

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 686

**DOSE:** 50 MG/KG

**DISP:** Natural Death

**HISTO:** 9500411

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Chronic, Mild
* Int Lg Rectum			
Note: TGL#5-4-NCL: Rectum Section Is Somewhat Autolytic. Otherwise, The Cause Of Red Discoloration Documented At Necropsy Not Apparent Histologically.			
* Intestine Large, Colon		Parasite Metazoan	
Note: TGL#4-4-NCL: Colon Section Is Somewhat Autolytic. Otherwise, Cause For Red Discoloration Documented At Necropsy Not Apparent Histologically.			
* Kidney		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Minimal
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
	Centrilobular, Hepatocyte	Necrosis	Moderate
		Vacuolization Cytoplasmic	Minimal
[ Hepatodiaphragmatic Nodule TGLS = 3-5: Hepatodiaphragmatic Nodule ]			
* Lung	Alveolar Epith	Hyperplasia	Marked
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 2-7: Adenoma, Pars Distalis ]			
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 81	<b>TRT#:</b> 3 <b>DOSE:</b> 50 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Natural Death	<b>DAY ON TEST:</b> 686 <b>HISTO:</b> 9500411
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Epidermis, SOA	Hyperplasia	Mild
SOA, Sebaceous GI	Hyperplasia	Minimal
	Keratoacanthoma	

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[ Keratoacanthoma TGLS = 1-12: Keratoacanthoma ]

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PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma
CONTRIBUTORY CAUSE OF DEATH	- Kidney Nephropathy; Liver Centrilobular Hepatocyte Necrosis

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 82

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 50 MG/KG

DISP: Terminal Sacrifice

HISTO: 9500412

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Preputial Gland	* Salivary Glands	* Spleen
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Mild
		Degeneration	Fatty, Mild
		Hyperplasia	Mild
		Hypertrophy	Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Bone		Fibrous Osteodystrophy	Mild
* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Mesothelioma Malignant	
[ Mesothelioma Malignant TGLS = 4,5-11+13: Malignant Mesothelioma ]			
* Heart		Cardiomyopathy	Chronic, Mild
* Intestine Large, Colon		Parasite Metazoan	
[ Parasite Metazoan TGLS = 3-10: Atrophy. Germinal Epithelium, Marked ]			
* Kidney		Cyst	Mild
		Nephropathy	Chronic, Marked
		Pigmentation	Hemosiderin, Minimal
[ Cyst TGLS = 7-1: Cyst, Mild ]			
[ Nephropathy TGLS = 6-1: Nephropathy, Chronic, Marked ]			
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Mild
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Mild
* Mammary Gland		Hyperplasia	Cystic, Moderate
Mesentery		Mesothelioma Malignant	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

<b>ANIMAL ID:</b> 82	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 50 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9500412

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Mesothelioma Malignant TGLS = 8-11+12: Malignant Mesothelioma ]			
* Pancreas	Acinus	Atrophy Mesothelioma Malignant	Mild
[ Mesothelioma Malignant TGLS = 1-4+12: Malignant Mesothelioma ]			
* Parathyroid Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 12-7: Hyperplasia, Moderate ]			
Peritoneum		Mesothelioma Malignant	
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 11-7: Adenoma, Pars Distalis ]			
* Prostate		Mesothelioma Malignant	
[ Mesothelioma Malignant TGLS = 11-7: Adenoma, Pars Distalis ]			
* Seminal Vesicle		Mesothelioma Malignant	
[ Mesothelioma Malignant TGLS = 11-7: Adenoma, Pars Distalis ]			
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
	Epidermis, SOA	Parakeratosis	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia Mesothelioma Malignant	Moderate
[ Mesothelioma Malignant TGLS = 9-12: Malignant Mesothelioma ]			
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy Mesothelioma Malignant	Marked
[ Adenoma TGLS = 2-10: Adenoma, Interstitial Cell ]			
[ Atrophy TGLS = 3-10: Atrophy. Germinal Epithelium, Marked ]			

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 83

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 380

**DOSE:** 50 MG/KG

**DISP:** Natural Death

**HISTO:** 9500413

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Heart		Cardiomyopathy	Chronic, Minimal
* Kidney		Nephropathy	Chronic, Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Mild
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Skin	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild

**PRIMARY CAUSE OF DEATH**

- UNCERTAIN

Animal Note: Cause Of Death Probably Due To Asphyxiation Secondary To Food Found In Esophagus Around Epiglottis And Tracheal Opening At Necropsy.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 84

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 495

**DOSE:** 50 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500414

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Nose	Nasolacrim Dct	Inflammation	Suppurative, Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 1-7: Adenoma, Pars Distalis ]		
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
* Testes	Interstit Cell	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH**

- Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 85

TRT#: 3

SEX: Male

DAY ON TEST: 670

DOSE: 50 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500415

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Thymus

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Minimal
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Moderate
	[ Cataract TGLS = 2-12: Cataract, Lens, Moderate ]		
* Heart		Cardiomyopathy	Chronic, Mild
* Intestine Large, Rectum		Parasite Metazoan	
	[ Parasite Metazoan TGLS = 7-4: Ectasia, Moderate ]		
* Kidney		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
	[ Nephropathy TGLS = 5-1: Nephropathy, Chronic, Mild ]		
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Mild
* Lung		Fibrosis	Marked
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Lymph Node, Mesenteric		Ectasia	Moderate
	[ Ectasia TGLS = 7-4: Ectasia, Moderate ]		
* Mammary Gland		Fibroadenoma	

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

<b>ANIMAL ID:</b> 85	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 670
	<b>DOSE:</b> 50 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9500415

**ORGAN AND ACCOUNTABLE SITE STATUS**

		Hyperplasia	Cystic, Moderate
[ Fibroadenoma TGLS = 1-13: Fibroadenoma ]			
* Nose	Respirat Epith	Hyperplasia	Mild
	Nasolacrim Dct	Inflammation	Suppurative, Moderate
		Inflammation	Chronic Active, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 6-7: Adenoma, Pars Distalis ]			
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Cyst Multilocular	Minimal
		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous Gl	Hyperplasia	Mild
	Epidermis, SOA	Parakeratosis	Minimal
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
[ Adenoma TGLS = 3-10: Adenoma, Interstitial Cell ]			
[ Atrophy TGLS = 4-10: Atrophy, Germinal Epithelium, Marked ]			

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 86

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 656

**DOSE:** 50 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500416

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
		Pheochromocytoma Benign	
	[ Leukemia Mononuclear TGLS = 4-7: Benign Pheochromocytoma ]		
	[ Pheochromocytoma Benign TGLS = 4-7: Benign Pheochromocytoma ]		
* Bone Marrow		Hyperplasia	Marked
		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Chronic, Minimal
		Leukemia Mononuclear	
* Intestine Large, Colon		Parasite Metazoan	
* Kidney	Renal Tubule	Carcinoma	
		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
	[ Carcinoma TGLS = 3-13: Carcinoma, Renal Tubule ]		
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 3-13: Carcinoma, Renal Tubule ]		
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

<b>ANIMAL ID:</b> 86	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 656
	<b>DOSE:</b> 50 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9500416

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Mammary Gland		Hyperplasia	Cystic, Moderate
* Pituitary Gland	Pars Distalis	Adenoma Leukemia Mononuclear	
[ Adenoma TGLS = 5-7: Adenoma, Pars Distalis ]			
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA SOA, Sebaceous GI	Hyperplasia Hyperplasia	Minimal Minimal
* Spleen		Leukemia Mononuclear	
Note: TGL#2-12-NCL: Depressed Deformity, Documented At Necropsy, Not Apparent Histologically. [ Leukemia Mononuclear TGLS = 1-1: Mononuclear Cell Leukemia ]			
* Testes	Interstit Cell	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH	- Kidney Renal Tubule Carcinoma;Liver Leukemia Mononuclear;Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 87

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 600

**DOSE:** 50 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500417

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Minimal
* Lung		Inflammation	Chronic Active, Mild
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Moderate
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 3-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Cyst Multilocular	Mild
		Inflammation	Chronic Active, Mild
* Skin	Sebaceous GI	Carcinoma	
	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
		Keratoacanthoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 14:36:04

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 87

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 600

**DOSE:** 50 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500417

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Carcinoma TGLS = 1-12: Carcinoma, Sebaceous Gland ]

[ Keratoacanthoma TGLS = 2-13: Keratoacanthoma ]

\* Thyroid Gland

C Cell

Hyperplasia

Minimal

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PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH

- Skin Sebaceous Gl Carcinoma;Skin Keratoacanthoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 88	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 621
	<b>DOSE:</b> 50 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9500418

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Blood Vessel	* Bone	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Parathyroid Gland	* Salivary Glands
* Stomach, Glandular	* Trachea		

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**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 6-13: Mononuclear Cell Leukemia ]		
* Adrenal Medulla		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia	Marked
		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Intestine Large, Colon		Leukemia Mononuclear	
		Parasite Metazoan	
	[ Leukemia Mononuclear TGLS = 6-13: Mononuclear Cell Leukemia ]		
	[ Parasite Metazoan TGLS = 6-13: Mononuclear Cell Leukemia ]		
* Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
	[ Leukemia Mononuclear TGLS = 3-1: Mononuclear Cell Leukemia ]		
	[ Nephropathy TGLS = 3-1: Nephropathy, Chronic, Mild ]		
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 2-5+13: Mononuclear Cell Leukemia ]		
* Lung		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 2-5+13: Mononuclear Cell Leukemia ]		
Lymph Node	Mediastinal	Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 5-12: Mononuclear Cell Leukemia, Mediastinal ]		

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 89

TRT#: 3

SEX: Male

DAY ON TEST: 656

DOSE: 50 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500419

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Glandular	* Thymus	* Trachea

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Mild
* Bone		Fibrous Osteodystrophy	Moderate
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Cyst	Mild
	Renal Tubule	Hyperplasia	Minimal
		Nephropathy	Chronic, Marked
	[ Cyst TGLS = 2-12: Cyst, Mild ]		
	[ Nephropathy TGLS = 1-1+12: Nephropathy, Chronic, Marked ]		
* Liver	Hepatocyte	Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Minimal
* Nose	Respirat Epith	Hyperplasia	Moderate
		Inflammation	Chronic Active, Moderate
	Note: Slide #09 - Fungal Cluster Associated With Inflammation In Nasal Cavity.		
* Pancreas	Acinus	Atrophy	Moderate
* Parathyroid Gland		Hyperplasia	Mild
	[ Hyperplasia TGLS = 3-7: Hyperplasia, Mild ]		
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic Active, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

<b>ANIMAL ID:</b> 89	<b>TRT#:</b> 3 <b>DOSE:</b> 50 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 656 <b>HISTO:</b> 9500419
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**ORGAN AND ACCOUNTABLE SITE STATUS**

* Prostate		Inflammation	Chronic Active, Minimal
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
	Epidermis, SOA	Parakeratosis	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Inflammation	Chronic Active, Marked
	Epithelium	Ulcer	Marked
	[ Hyperplasia TGLS = 4-13: Hyperplasia, Moderate ]		
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Mild
	Interstit Cell	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Adenoma	
* Urinary Bladder		Inflammation	Chronic Active, Mild

PRIMARY CAUSE OF DEATH	- Kidney Nephropathy
CONTRIBUTORY CAUSE OF DEATH	- Stomach;Forestomach Epithelium Ulcer

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

<b>ANIMAL ID:</b> 90	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 695
	<b>DOSE:</b> 50 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 9500420

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Parathyroid Gland [ Hyperplasia TGLS = 5-7: Hyperplasia, Mild ]		Hyperplasia	Mild
* Pituitary Gland [ Adenoma TGLS = 7-7: Adenoma, Pars Distalis ]	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Skin	SOA	Basal Cell Adenoma	
	SOA	Hemorrhage	Marked
	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Epidermis, SOA	Parakeratosis	Mild
[ Basal Cell Adenoma TGLS = 1-12: Basal Cell Adenoma, Skin Soa ]			
[ Hemorrhage TGLS = 2-12: Hemorrhage, Skin Soa, Marked ]			
[ Parakeratosis TGLS = 2-12: Parakeratosis, Epidermis, Skin Soa, Mild ]			
* Testes [ Adenoma TGLS = 3-10: Adenoma, Interstitial Cell, Bilateral ]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Kidney Nephropathy  
CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 91

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 50 MG/KG

DISP: Terminal Sacrifice

HISTO: 9500421

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
Note: TGL#7-7-NCL: Adrenal Gland Size Normal Histologically.			
* Adrenal Medulla		Hyperplasia	Mild
* Bone		Fibrous Osteodystrophy	Mild
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Chronic, Mild
* Intestine Large, Rectum		Parasite Metazoan	
[ Parasite Metazoan TGLS = 3-10: Adenoma, Interstitial Cell, Bilateral ]			
* Kidney	Renal Tubule	Adenoma	Multiple
		Cyst	Moderate
		Nephropathy	Chronic, Marked
		Pigmentation	Hemosiderin, Minimal
[ Adenoma TGLS = 8-12: Adenoma, Renal Tubule ]			
[ Nephropathy TGLS = 6-1: Nephropathy, Chronic, Marked ]			
* Liver	Hepatocyte	Basophilic Focus	Cystic, Minimal
	Bile Duct	Degeneration	Minimal
		Hyperplasia	Chronic, Minimal
		Inflammation	Mild
		Vacuolization Cytoplasmic	Histiocyte, Minimal
* Lung	Alveolus	Infiltration Cellular	Cystic, Mild
* Mammary Gland		Hyperplasia	Marked
Mesentery	Fat	Necrosis	
[ Necrosis TGLS = 4-12: Necrosis, Fat, Marked ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 14:36:04

**First Dose M/F:** NA / NA

**Lab:** BAT

**ANIMAL ID:** 91

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 50 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500421

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Parathyroid Gland [ Hyperplasia TGLS = 2-7: Hyperplasia, Moderate ]		Hyperplasia	Moderate
* Pituitary Gland [ Hyperplasia TGLS = 1-7: Hyperplasia, Pars Distalis, Mild ]	Pars Distalis Pars Distalis	Cyst Hyperplasia	Minimal Mild
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate [ Inflammation TGLS = 5-11: Inflammation, Chronic-Active, Marked ]		Inflammation	Chronic Active, Marked
* Skin	Epidermis, SOA Epidermis, SOA SOA, Sebaceous GI Epidermis, SOA	Hyperkeratosis Hyperplasia Hyperplasia Parakeratosis	Mild Mild Mild Minimal
* Stomach, Glandular		Mineralization	Minimal
* Testes [ Adenoma TGLS = 3-10: Adenoma, Interstitial Cell, Bilateral ]	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 92      **TRT#:** 3      **SEX:** Male      **DAY ON TEST:** 713  
**DOSE:** 50 MG/KG      **DISP:** Moribund Sacrifice      **HISTO:** 9500422

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Salivary Glands	* Seminal Vesicle
* Spleen	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Minimal
Blood Vessel	Aorta	Mineralization	Moderate
* Bone		Fibrous Osteodystrophy	Marked
* Bone Marrow		Hyperplasia	Marked
Eye	Cornea	Inflammation	Chronic Active, Mild
	Cornea	Mineralization	Moderate
		[ Inflammation TGLS = 2-13:Inflammation, Cornea, Chronic-Active, Mild ]	
		[ Mineralization TGLS = 2-13:Mineralization, Cornea, Moderate ]	
* Heart		Cardiomyopathy	Chronic, Moderate
		Mineralization	Moderate
* Kidney	Renal Tubule	Adenoma	
		Mineralization	Mild
		Nephropathy	Chronic, Marked
		Pigmentation	Hemosiderin, Minimal
		[ Nephropathy TGLS = 5-1: Nephropathy, Chronic, Marked ]	
* Liver	Hepatocyte	Basophilic Focus	
		Degeneration	Cystic, Minimal
		Vacuolization Cytoplasmic	Minimal
* Lung		Inflammation	Chronic Active, Moderate
	Interstitialium	Mineralization	Moderate
* Mammary Gland		Carcinoma	

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 92

TRT#: 3

SEX: Male

DAY ON TEST: 713

DOSE: 50 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500422

ORGAN AND ACCOUNTABLE SITE STATUS

[ Carcinoma TGLS = 3-13: Carcinoma ]		Hyperplasia	Cystic, Moderate
* Parathyroid Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 6-7: Hyperplasia, Moderate ]			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
[ Adenoma TGLS = 7-7: Adenoma, Pars Distalis ]			
* Preputial Gland		Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous Gl	Hyperplasia	Minimal
	SOA	Keratoacanthoma	
[ Keratoacanthoma TGLS = 1-12: Keratoacanthoma, Skin, SOA ]			
* Stomach, Forestomach		Mineralization	Minimal
* Stomach, Glandular		Mineralization	Moderate
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal
[ Adenoma TGLS = 4-10: Adenoma, Interstitial Cell ]			
[ Hyperplasia TGLS = 4-10: Hyperplasia, Interstitial Cell, Minimal ]			

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 93

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 677

**DOSE:** 50 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500423

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Chronic, Minimal
* Kidney		Nephropathy	Chronic, Moderate
[ Nephropathy TGLS = 1-1: Nephropathy, Chronic, Moderate ]			
* Liver	Bile Duct	Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Moderate
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Cyst	Marked
		Hyperplasia	Cystic, Moderate
[ Cyst TGLS = 3-12: Cyst, Marked ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 2-7: Adenoma, Pars Distalis ]			
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Moderate
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
	SOA	Inflammation	Chronic Active, Minimal
	Epidermis, SOA	Parakeratosis	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 93	<b>TRT#:</b> 3 <b>DOSE:</b> 50 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 677 <b>HISTO:</b> 9500423
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Stomach, Forestomach	Epidermis, SOA	Ulcer	Mild
		Edema	Moderate
	Epithelium	Hyperplasia	Moderate
		Inflammation	Chronic Active, Moderate
* Testes	Epithelium	Ulcer	Marked
	Germinal Epith	Atrophy	Marked

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PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 94

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 561

**DOSE:** 50 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500424

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hypertrophy	Mild
* Heart		Cardiomyopathy	Chronic, Minimal
* Kidney		Nephropathy	Chronic, Moderate
	[ Nephropathy TGLS = 1-1: Nephropathy, Chronic, Moderate ]	Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Mild
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
* Mammary Gland		Hyperplasia	Cystic, Moderate
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 2-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Inflammation	Chronic Active, Mild
		Perforation	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 94	<b>TRT#:</b> 3 <b>DOSE:</b> 50 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 561 <b>HISTO:</b> 9500424
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Perforation TGLS = 3-5: Perforation ]	Epithelium	Ulcer	Marked
* Testes	Arteriole	Inflammation	Chronic, Minimal
	Arteriole	Necrosis	Fibrinoid, Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

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PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma
CONTRIBUTORY CAUSE OF DEATH	- Kidney Nephropathy;Stomach;Forestomach Perforation;Stomach;Forestomach Epithelium Ulcer

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 95

TRT#: 3

SEX: Male

DAY ON TEST: 575

DOSE: 50 MG/KG

DISP: Natural Death

HISTO: 9500425

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Salivary Glands	* Seminal Vesicle
* Testes	* Thymus	* Thyroid Gland	* Trachea

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
Blood Vessel	Aorta	Mineralization	Mild
* Bone		Fibrous Osteodystrophy	Marked
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Marked
		Pigmentation	Hemosiderin, Minimal
	[ Nephropathy TGLS = 3-1: Nephropathy, Chronic, Marked ]		
* Liver	Bile Duct	Hyperplasia	Mild
* Lung		Inflammation	Chronic Active, Mild
	Interstitium	Mineralization	Mild
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
	Note: TGL#7-4-NCL: Pancreatic Lymph Node Considered To Be Within Normal Limits Histologically.		
* Mammary Gland		Cyst	Marked
		Hyperplasia	Cystic, Moderate
	[ Cyst TGLS = 1-13: Cyst, Marked ]		
* Parathyroid Gland		Hyperplasia	Moderate
	[ Hyperplasia TGLS = 5-7: Hyperplasia, Moderate ]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 6-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Inflammation	Chronic Active, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 95	<b>TRT#:</b> 3 <b>DOSE:</b> 50 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Natural Death	<b>DAY ON TEST:</b> 575 <b>HISTO:</b> 9500425
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Prostate		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
* Spleen		Hemangiosarcoma	
	[ Hemangiosarcoma TGLS = 2-12: Hemangiosarcoma ]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Stomach, Glandular		Mineralization	Moderate
* Urinary Bladder		Calculus Gross Observation	
	[ Calculus Gross Observation TGLS = 4-0: Calculus, Gross Observation ]		

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PRIMARY CAUSE OF DEATH	- Kidney Nephropathy
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma;Spleen Hemangiosarcoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 96

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 708

**DOSE:** 50 MG/KG

**DISP:** Natural Death

**HISTO:** 9500426

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Salivary Glands	* Seminal Vesicle	* Spleen
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Mild
Blood Vessel	Aorta	Mineralization	Mild
* Bone		Fibrous Osteodystrophy	Marked
		Osteosarcoma	
[ Osteosarcoma TGLS = 4-12+14 ]			
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Chronic, Marked
		Mineralization	Moderate
* Islets, Pancreatic		Adenoma	
* Kidney		Cyst	Moderate
		Nephropathy	Chronic, Marked
		Pigmentation	Hemosiderin, Minimal
[ Nephropathy TGLS = 3-1: Nephropathy, Chronic, Marked ]			
* Liver		Basophilic Focus	
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Mild
* Lung		Inflammation	Chronic Active, Moderate
	Interstitialium	Mineralization	Moderate
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Mild
* Mammary Gland		Cyst	Marked
		Hyperplasia	Cystic, Moderate

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

<b>ANIMAL ID:</b> 96	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 708
	<b>DOSE:</b> 50 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 9500426

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Cyst TGLS = 2-13: Cyst, Marked ]			
Mesentery		Accessory Spleen	
[ Accessory Spleen TGLS = 7-12: Accessory Spleen ]			
* Parathyroid Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 5-7: Hyperplasia, Moderate ]			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Mild
[ Hyperplasia TGLS = 6-7: Hyperplasia, Pars Distalis, Mild ]			
* Preputial Gland		Inflammation	Chronic Active, Moderate
* Prostate		Inflammation	Chronic Active, Marked
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
* Stomach, Forestomach		Mineralization	Moderate
* Stomach, Glandular		Mineralization	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-10: Adenoma, Interstitial Cell, Bilateral ]			

PRIMARY CAUSE OF DEATH	- Bone Osteosarcoma
CONTRIBUTORY CAUSE OF DEATH	- Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 97

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 50 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500427

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Salivary Glands	* Seminal Vesicle
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Adrenal Medulla		Hyperplasia	Mild
		Pheochromocytoma Malignant	
	[ Pheochromocytoma Malignant TGLS = 3-7: Malignant Pheochromocytoma ]		
Blood Vessel	Aorta	Mineralization	Moderate
	[ Mineralization TGLS = 7-7: Mineralization, Aorta, Moderate ]		
* Bone		Fibrous Osteodystrophy	Marked
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Chronic, Moderate
		Mineralization	Minimal
	Atrium	Thrombosis	Marked
* Kidney	Renal Tubule	Adenoma	
		Cyst	Moderate
		Nephropathy	Chronic, Marked
		Pigmentation	Hemosiderin, Minimal
	[ Cyst TGLS = 5-12: Cyst, Moderate ]		
	[ Nephropathy TGLS = 4-1+12: Nephropathy, Chronic, Marked ]		
* Liver		Clear Cell Focus	
	Hepatocyte	Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Chronic Active, Moderate
	Interstitialium	Mineralization	Moderate
* Mammary Gland		Cyst	Marked

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

<b>ANIMAL ID:</b> 97	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 728
	<b>DOSE:</b> 50 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9500427

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Cyst TGLS = 1-12: Cyst, Marked ]			
* Parathyroid Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 6-7: Hyperplasia, Moderate ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 8-7: Adenoma, Pars Distalis ]			
* Preputial Gland		Inflammation	Chronic Active, Moderate
* Prostate		Cyst Multilocular	Minimal
		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
[ Hyperplasia TGLS = 9-5: Hyperplasia, Moderate ]			
* Stomach, Glandular		Mineralization	Mild
* Testes	Germinal Epith	Atrophy	Marked
	Arteriole	Inflammation	Chronic, Mild
	Arteriole	Necrosis	Fibrinoid, Mild
[ Atrophy TGLS = 2-10: Atrophy, Germinal Epithelium, Marked ]			

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 98

TRT#: 3

SEX: Male

DAY ON TEST: 611

DOSE: 50 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500428

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
* Kidney		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
	[ Hepatodiaphragmatic Nodule TGLS = 1-5: Hepatodiaphragmatic Nodule ]		
* Lung	Alveolar Epith	Hyperplasia	Mild
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Mild
* Mammary Gland		Hyperplasia	Cystic, Mild
* Nose		Inflammation	Suppurative, Moderate
Oral Mucosa	Pharyngeal	Hyperplasia	Squamous, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 2-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
	Note: Additional Prostate On Slide #10.		
* Spleen		Fibrosis	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Testes	Interstit Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma  
CONTRIBUTORY CAUSE OF DEATH - Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 99

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 710

**DOSE:** 50 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500429

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	Blood Vessel	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Thymus

**OBSERVATIONS**

* Adrenal Medulla		Hyperplasia	Minimal
* Bone		Fibrous Osteodystrophy	Mild
* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney	Renal Tubule	Hyperplasia	Mild
		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Minimal
	[ Nephropathy TGLS = 4-1: Nephropathy, Chronic, Moderate ]		
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pancreas	Acinus	Atrophy	Minimal
* Parathyroid Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 5-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Inflammation	Chronic Active, Moderate
	[ Inflammation TGLS = 1-11: Inflammation, Chronic-Active, Moderate ]		
* Prostate		Inflammation	Chronic Active, Marked
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 99	<b>TRT#:</b> 3 <b>DOSE:</b> 50 MG/KG	<b>SEX:</b> Male <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 710 <b>HISTO:</b> 9500429
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	Arteriole	Inflammation	Chronic, Mild
	Arteriole	Necrosis	Fibrinoid, Mild

[ Adenoma TGLS = 2-10: Adenoma, Interstitial Cell ]

\* Urin Bladder

Note: TGL#3-1-NCL: Black Focus, Documented At Necropsy, Not Apparent Histologically.

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PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma
CONTRIBUTORY CAUSE OF DEATH	- Kidney Nephropathy

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 100

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 50 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500430

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney	Renal Tubule	Hyperplasia	Minimal
		Nephropathy	Chronic, Marked
		Pigmentation	Hemosiderin, Minimal
			[ Nephropathy TGLS = 3-1: Nephropathy, Chronic, Marked ]
* Liver	Bile Duct	Basophilic Focus	
		Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
* Spleen		Fibrosis	Moderate
			[ Fibrosis TGLS = 1-12: Fibrosis, Moderate ]
* Stomach, Forestomach		Edema	Marked
	Epithelium	Hyperplasia	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 100

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 50 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500430

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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	Epithelium	Inflammation	Chronic Active, Moderate
	[ Ulcer TGLS = 4-12: Ulcer, Epithelium, Marked ]	Ulcer	Marked
* Testes	Bilateral, Interstit Cell	Adenoma	
	[ Adenoma TGLS = 2-10: Adenoma, Interstitial Cell, Bilateral ]		
* Thyroid Gland	Follicular Cel	Adenoma	

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 101

TRT#: 5

SEX: Male

DAY ON TEST: 687

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500431

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Salivary Glands	* Seminal Vesicle
* Thymus	* Trachea	* Urinary Bladder	

MISSING

\* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Degeneration Hypertrophy Leukemia Mononuclear	Fatty, Mild Moderate
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia Leukemia Mononuclear	Marked
* Heart		Cardiomyopathy	Chronic, Mild
	Atrium	Thrombosis	Moderate
* Intestine Large, Cecum		Parasite Metazoan	
* Kidney		Leukemia Mononuclear Pigmentation	Hemosiderin, Moderate
	[ Pigmentation TGLS = 4-1: Pigment, Hemosiderin, Moderate ]		
* Liver	Bile Duct	Hyperplasia Leukemia Mononuclear	Mild
	Portal Vein	Thrombosis Vacuolization Cytoplasmic	Mild Moderate
	[ Leukemia Mononuclear TGLS = 3-4+5: Mononuclear Cell Leukemia ]		
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 101                      **TRT#:** 5                      **SEX:** Male                      **DAY ON TEST:** 687  
**DOSE:** 100 MG/KG                      **DISP:** Moribund Sacrifice                      **HISTO:** 9500431

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Adenoma TGLS = 1-7: Adenoma, Pars Distalis ]

* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
	Epidermis, SOA	Parakeratosis	Mild
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 2-1: Mononuclear Cell Leukemia ]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Inflammation	Chronic Active, Moderate
	Epithelium	Ulcer	Marked
[ Ulcer TGLS = 5-12: Ulcer, Epithelium, Marked ]			
* Stomach, Glandular	Epithelium	Erosion	Mild
		Leukemia Mononuclear	
	Epithelium	Ulcer	Mild
* Testes	Interstit Cell	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH** - Spleen Leukemia Mononuclear  
**CONTRIBUTORY CAUSE OF DEATH** - Pituitary Gland Pars Distalis Adenoma;Stomach;Forestomach Epithelium Ulcer

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 102

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 100 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500432

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hypertrophy	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 1-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Marked
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
	Epidermis, SOA	Parakeratosis	Mild
* Spleen		Leukemia Mononuclear	
* Stomach, Forestomach		Edema	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 102	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 100 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9500432

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	Arteriole	Inflammation	Chronic, Mild
	Arteriole	Necrosis	Fibrinoid, Mild
	[ Adenoma TGLS = 2-10: Adenoma, Interstitial Cell ]		
	[ Atrophy TGLS = 3-10: Atrophy, Germinal Epithelium, Marked ]		
* Thyroid Gland	C Cell	Adenoma	

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 103

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 565

**DOSE:** 100 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500433

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney	Renal Tubule	Adenoma	
		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Minimal
	[ Nephropathy TGLS = 1-1: Nephropathy, Chronic, Moderate ]		
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Mild
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Nose	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
	[ Adenoma TGLS = 2-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 103

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 565

**DOSE:** 100 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500433

**ORGAN AND ACCOUNTABLE SITE STATUS**

	SOA, Sebaceous Gland	Hyperplasia	Minimal
	Epidermis, SOA	Parakeratosis	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Inflammation	Chronic Active, Moderate
		Perforation	
	Epithelium	Ulcer	Marked
	[ Perforation TGLS = 3-12: Ulcer, Epithelium, Marked ]		
	[ Ulcer TGLS = 3-12: Ulcer, Epithelium, Marked ]		
* Stomach, Glandular		Inflammation	Chronic Active, Moderate
	Epithelium	Ulcer	Marked
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		
CONTRIBUTORY CAUSE OF DEATH	- Kidney Nephropathy; Stomach; Forestomach Perforation; Stomach; Forestomach Epithelium Ulcer; Stomach; Glandular Epithelium Ulcer		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 104

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 688

**DOSE:** 100 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500434

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Cyst	Mild
	Renal Tubule	Hyperplasia	Mild
		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Minimal
	[ Nephropathy TGLS = 1-1: Nephropathy, Chronic, Moderate ]		
* Liver	Bile Duct	Hyperplasia	Mild
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Lymph Node	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Nose	Nasolacrim Dct	Inflammation	Suppurative, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 3-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
	Epidermis, SOA	Parakeratosis	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 104	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 688
	<b>DOSE:</b> 100 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9500434

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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	Epithelium	Inflammation	Chronic Active, Moderate
	[ Hyperplasia TGLS = 4-12: Hyperplasia, Epithelium, Moderate ]	Ulcer	Marked
* Testes	Germinal Epith	Atrophy	Moderate
	Arteriole	Inflammation	Chronic, Mild
	Arteriole	Necrosis	Fibrinoid, Mild
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
	[ Adenoma TGLS = 2-7: Adenoma, C Cell ]		

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PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma
CONTRIBUTORY CAUSE OF DEATH	- Kidney Nephropathy;Stomach;Forestomach Epithelium Ulcer

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 105

TRT#: 5

DOSE: 100 MG/KG

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 729

HISTO: 9500435

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Mammary Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 9-12: Ectasia, Moderate ]			
* Adrenal Medulla		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 9-12: Ectasia, Moderate ]		Pheochromocytoma Benign	
[ Pheochromocytoma Benign TGLS = 9-12: Ectasia, Moderate ]			
* Bone		Fibrous Osteodystrophy	Marked
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Chronic, Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Cyst	Mild
	Renal Tubule	Hyperplasia	Minimal
		Leukemia Mononuclear	
		Nephropathy	Chronic, Marked
		Pigmentation	Hemosiderin, Minimal
[ Nephropathy TGLS = 4-1: Nephropathy, Chronic, Marked ]			
* Liver	Hepatocyte	Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 3-4+5: Mononuclear Cell Leukemia ]			
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Lymph Node, Mandibular		Ectasia	Moderate

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 105

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 100 MG/KG

DISP: Terminal Sacrifice

HISTO: 9500435

ORGAN AND ACCOUNTABLE SITE STATUS

[ Ectasia TGLS = 9-12: Ectasia, Moderate ]			
Mesentery	Fat	Necrosis	Marked
[ Necrosis TGLS = 8-12: Necrosis, Fat, Marked ]			
* Nose	Respirat Epith	Hyperplasia	Marked
		Inflammation	Chronic Active, Marked
	Respirat Epith	Metaplasia	Squamous, Mild
Note: Slide #09 - Fungal Cluster Associated With Inflammation In Nasal Cavity.			
* Pancreas	Acinus	Atrophy	Mild
* Parathyroid Gland		Hyperplasia	Mild
[ Hyperplasia TGLS = 6-7: Hyperplasia, Mild ]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
[ Hyperplasia TGLS = 5-7: Hyperplasia, Pars Distalis, Mild ]			
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Cyst Multilocular	Mild
		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous Gl	Hyperplasia	Mild
	Epidermis, SOA	Parakeratosis	Mild
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 1-12: Mononuclear Cell Leukemia ]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Inflammation	Chronic Active, Moderate
[ Hyperplasia TGLS = 7-12: Hyperplasia, Epithelium, Moderate ]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 2-10: Adenoma, Interstitial Cell, Bilateral ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 106

TRT#: 5

SEX: Male

DAY ON TEST: 505

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500436

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Heart		Cardiomyopathy	Chronic, Minimal
* Kidney		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Minimal
* Mammary Gland		Hyperplasia	Cystic, Moderate
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 1-7: Adenoma, Pars Distalis ]		
* Prostate		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 107

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 560

**DOSE:** 100 MG/KG

**DISP:** Natural Death

**HISTO:** 9500437

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Mild
* Heart		Cardiomyopathy	Chronic, Minimal
* Kidney		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Mild
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Marked
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 1-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Cyst Multilocular	Mild
		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Moderate
	Epidermis, SOA	Parakeratosis	Minimal

**PRIMARY CAUSE OF DEATH** - Pituitary Gland Pars Distalis Adenoma

Animal Note: Death May Also Have Been Due To Asphyxiation Secondary To Food Lodged Near Tracheal Opening As Documented At Necropsy.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 107

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 560

**DOSE:** 100 MG/KG

**DISP:** Natural Death

**HISTO:** 9500437

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 108

TRT#: 5

SEX: Male

DAY ON TEST: 579

DOSE: 100 MG/KG

DISP: Natural Death

HISTO: 9500438

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Mild
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Mild
		Vacuolization Cytoplasmic	Minimal
	[ Hepatodiaphragmatic Nodule TGLS = 1-5: Hepatodiaphragmatic Nodule ]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Nose		Squamous Cell Carcinoma	
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 2-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Moderate
	Epidermis, SOA	Parakeratosis	Mild
* Thyroid Gland	C Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 14:36:04

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 108

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 579

**DOSE:** 100 MG/KG

**DISP:** Natural Death

**HISTO:** 9500438

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 109

TRT#: 5

SEX: Male

DAY ON TEST: 607

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500439

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
	[ Nephropathy TGLS = 1-1: Nephropathy, Chronic, Mild ]		
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Mild
* Mammary Gland		Hyperplasia	Cystic, Moderate
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 2-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
* Stomach, Forestomach		Edema	Mild
	Epithelium	Hyperplasia	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 14:36:04

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 109

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 607

**DOSE:** 100 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500439

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 110

TRT#: 5

DOSE: 100 MG/KG

SEX: Male

DISP: Natural Death

DAY ON TEST: 711

HISTO: 9500440

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
	[ Cataract TGLS = 1-12: Cataract, Lens, Marked ]		
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Mild
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Mild
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 3-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Moderate
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Mild
	Epidermis, SOA	Parakeratosis	Mild
* Stomach, Glandular	Epithelium	Erosion	Moderate
	[ Erosion TGLS = 4-5: Erosion, Epithelium, Moderate ]		
* Testes	Bilateral, Interstit Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 14:36:04

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 110

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 711

**DOSE:** 100 MG/KG

**DISP:** Natural Death

**HISTO:** 9500440

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Adenoma TGLS = 2-10: Adenoma, Interstitial Cell, Bilateral ]

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**PRIMARY CAUSE OF DEATH**

- Pituitary Gland Pars Distalis Adenoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 111

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 100 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500441

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	Blood Vessel	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		

**OBSERVATIONS**

* Adrenal Medulla		Hyperplasia	Mild
		Pheochromocytoma Benign	
* Bone		Fibrous Osteodystrophy	Moderate
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney	Renal Tubule	Hyperplasia	Marked
		Nephropathy	Chronic, Marked
		Pigmentation	Hemosiderin, Mild
		[ Nephropathy TGLS = 3-1: Nephropathy, Chronic, Marked ]	
* Liver	Bile Duct	Basophilic Focus	
		Hyperplasia	Mild
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Minimal
* Mammary Gland		Carcinoma	
		Cyst	Marked
		Hyperplasia	Cystic, Moderate
		[ Carcinoma TGLS = 1-12: Carcinoma ]	
		[ Cyst TGLS = 2-13: Cyst, Marked ]	
* Parathyroid Gland		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
		[ Hyperplasia TGLS = 6-7: Hyperplasia, Pars Distalis, Moderate ]	
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Chronic Active, Marked

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 111	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 100 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9500441

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	Arteriole	Inflammation	Chronic, Moderate
	Arteriole	Necrosis	Fibrinoid, Moderate
	[ Adenoma TGLS = 4-10: Adenoma, Interstitial Cell ]		
	[ Atrophy TGLS = 5-10: Atrophy, Germinal Epithelium, Marked ]		
* Urinary Bladder	Transit Epithe	Hyperplasia	Moderate

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 112

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 508

**DOSE:** 100 MG/KG

**DISP:** Natural Death

**HISTO:** 9500442

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Epididymis		Mesothelioma Malignant	
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
	[ Hyperplasia TGLS = 1-4+5: Hyperplasia, Bile Duct, Mild ]		
	Lymph Node	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Note: TGL#3-7: White Focus, Documented At Necropsy, Not Apparent Histologically.		
	[ Adenoma TGLS = 2-7: Adenoma, Pars Distalis ]		
* Prostate		Inflammation	Chronic Active, Minimal
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
* Testes		Mesothelioma Malignant	

**PRIMARY CAUSE OF DEATH**

- Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 113

TRT#: 5

DOSE: 100 MG/KG

SEX: Male

DISP: Natural Death

DAY ON TEST: 701

HISTO: 9500443

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
	[ Cataract TGLS = 2-12: Cataract, Lens, Marked ]		
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney	Renal Tubule	Hyperplasia	Mild
		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Minimal
	[ Nephropathy TGLS = 3-1: Nephropathy, Chronic, Moderate ]		
* Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 5-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
	Note: TGL#1-13-NCL: Unable To Demonstrate Nodule Histologically. Possibly Lost During Microtomy.		
* Testes	Interstit Cell	Hyperplasia	Minimal
* Thyroid Gland	Follicular Cel	Carcinoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 14:36:04

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 113

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 701

**DOSE:** 100 MG/KG

**DISP:** Natural Death

**HISTO:** 9500443

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Carcinoma TGLS = 4-7: Carcinoma, Follicular Cell ]

---

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH

- Kidney Nephropathy

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 114

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 586

**DOSE:** 100 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500444

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Mild
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Mild
	[ Nephropathy TGLS = 4-1: Nephropathy, Chronic, Moderate ]		
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Mild
	[ Hepatodiaphragmatic Nodule TGLS = 5-5: Hepatodiaphragmatic Nodule ]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Note: TGL#7-2+3-NCL:Dark Discoloration,Documented At Necropsy,Due To Congestion.Lungs Normal Histologically.		
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Moderate
* Mammary Gland		Cyst	Marked
		Hyperplasia	Cystic, Mild
	[ Cyst TGLS = 2-13: Cyst, Marked ]		
Mesentery	Fat	Necrosis	Marked
	[ Necrosis TGLS = 3-13: Necrosis, Fat, Marked ]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 6-7: Adenoma, Pars Distalis ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 114	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 586
	<b>DOSE:</b> 100 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9500444

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Skin	Epidermis	Hyperkeratosis	Marked
	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis	Hyperplasia	Marked
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Moderate
	Epidermis, SOA	Parakeratosis	Mild

[ Hyperkeratosis TGLS = 1-12: Hyperkeratosis, Epidermis, Marked ]

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**PRIMARY CAUSE OF DEATH** - Pituitary Gland Pars Distalis Adenoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 115

TRT#: 5

SEX: Male

DAY ON TEST: 627

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500445

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Hyperplasia	Marked
		Leukemia Mononuclear	
* Brain		Mineralization	Mild
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Moderate
	[ Nephropathy TGLS = 4-1: Nephropathy, Chronic, Moderate ]		
* Liver	Hepatocyte	Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 3-4+5: Mononuclear Cell Leukemia ]		
* Lung		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 6-2+3: Mononuclear Cell Leukemia ]		
Lymph Node	Mediastinal	Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Cystic, Minimal
* Nose		Inflammation	Chronic Active, Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 115	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 627
	<b>DOSE:</b> 100 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9500445

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous Gl	Hyperplasia	Moderate
	Epidermis, SOA	Parakeratosis	Mild
		Trichoepithelioma	
	[ Trichoepithelioma TGLS = 1-12: Trichoepithelioma ]		
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 2-13: Mononuclear Cell Leukemia ]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[ Adenoma TGLS = 5-10: Adenoma, Interstitial Cell, Bilateral ]		

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**PRIMARY CAUSE OF DEATH** - Spleen Leukemia Mononuclear

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 116

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 100 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500446

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Cystic, Mild
		Degeneration	Fatty, Mild
		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Cyst	Moderate
	Renal Tubule	Hyperplasia	Minimal
		Nephropathy	Chronic, Marked
		Pigmentation	Hemosiderin, Minimal
	[ Cyst TGLS = 4-12: Cyst, Moderate ]		
	[ Nephropathy TGLS = 3-1: Nephropathy, Chronic, Marked ]		
* Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Cyst	Moderate
		Hyperplasia	Cystic, Moderate
	[ Cyst TGLS = 1-13: Cyst, Moderate ]		
* Pancreas	Acinus	Atrophy	Minimal
* Parathyroid Gland			
	Note: TGL#5-7: Enlarged Parathyroid Gland, Documented At Necropsy, Is Thyroid Gland C Cell Adenoma Histologically.		
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 6-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Hyperplasia	Mild

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

<b>ANIMAL ID:</b> 116	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 100 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9500446

**ORGAN AND ACCOUNTABLE SITE STATUS**

		Inflammation	Chronic Active, Mild
[ Hyperplasia TGLS = 2-11: Hyperplasia, Mild ]			
* Prostate		Inflammation	Chronic Active, Moderate
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Moderate
	Epidermis, SOA	Parakeratosis	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Inflammation	Chronic Active, Moderate
		Perforation	
	Epithelium	Ulcer	Marked
[ Perforation TGLS = 7-4: Perforation ]			
* Testes	Germinal Epith	Atrophy	Marked
	Arteriole	Inflammation	Chronic, Mild
	Arteriole	Necrosis	Fibrinoid, Mild
* Thyroid Gland	C Cell	Carcinoma	
[ Carcinoma TGLS = 5-7: Carcinoma, C Cell ]			

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 117

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 562

**DOSE:** 100 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500447

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Bone Marrow		Hyperplasia	Moderate
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Moderate
	[ Cataract TGLS = 1-12: Cataract, Lens, Moderate ]		
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Mild
* Mammary Gland			
		Note: TGL#2-13:Mammary Gland Mass, Documented At Necropsy, Is Subcutaneous Fibroma Histologically.	
* Pancreas	Acinus	Atrophy	Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Chronic Active, Mild
* Skin	Subcut Tiss	Fibrosarcoma	
	Epidermis, SOA	Hyperkeratosis	Moderate
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous Gland	Hyperplasia	Mild
	Epidermis, SOA	Parakeratosis	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 117

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 562

**DOSE:** 100 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500447

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Fibrosarcoma TGLS = 2-13: Fibrosarc, Subcutaneous Tissue ]

[ Hyperkeratosis TGLS = 4-12:Hyperkeratosis,Epidermis,Skin Soa,Moderate ]

\* Testes Bilateral, Interstit Cell

Adenoma

[ Adenoma TGLS = 3-10: Adenoma, Interstitial Cell, Bilateral ]

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**PRIMARY CAUSE OF DEATH**

- Skin Subcut Tiss Fibrosarcoma

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 118

TRT#: 5

DOSE: 100 MG/KG

SEX: Male

DISP: Moribund Sacrifice

DAY ON TEST: 552

HISTO: 9500448

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Necrosis	Mild
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
	[ Cataract TGLS = 1-13: Cataract, Lens, Marked ]		
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Moderate
		Vacuolization Cytoplasmic	Mild
* Mammary Gland		Hyperplasia	Cystic, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Carcinoma	
		Inflammation	Chronic Active, Moderate
	[ Carcinoma TGLS = 2-12: Carcinoma ]		
* Prostate		Cyst Multilocular	Moderate
* Skin	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
* Stomach, Forestomach		Squamous Cell Papilloma	
	[ Squamous Cell Papilloma TGLS = 4-13: Squamous Cell Papilloma ]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[ Adenoma TGLS = 3-10: Adenoma, Interstitial Cell, Bilateral ]		

PRIMARY CAUSE OF DEATH - Preputial Gland Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 119

TRT#: 5

DOSE: 100 MG/KG

SEX: Male

DISP: Natural Death

DAY ON TEST: 582

HISTO: 9500449

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Nose	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

AUTO PRECLUDES DIAG.

\* Intestine Small, Jejunum

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 1-10: Adenoma, Interstitial Cell ]			
* Adrenal Medulla		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 1-10: Adenoma, Interstitial Cell ]			
* Bone Marrow		Hyperplasia	Moderate
* Kidney	Renal Tubule	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
[ Leukemia Mononuclear TGLS = 3-1: Mononuclear Cell Leukemia ]			
[ Nephropathy TGLS = 3-1: Nephropathy, Chronic, Mild ]			
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Leukemia Mononuclear	
		Necrosis	Mild
		Vacuolization Cytoplasmic	Minimal
[ Hepatodiaphragmatic Nodule TGLS = 5-4: Hepatodiaphragmatic Nodule ]			
[ Leukemia Mononuclear TGLS = 4-4+5: Mononuclear Cell Leukemia ]			
* Lung		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 6-2+3: Mononuclear Cell Leukemia ]			
Lymph Node	Mediastinal	Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 119

TRT#: 5

DOSE: 100 MG/KG

SEX: Male

DISP: Natural Death

DAY ON TEST: 582

HISTO: 9500449

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric [ Leukemia Mononuclear TGLS = 1-10: Adenoma, Interstitial Cell ]		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland  [ Adenoma TGLS = 7-7: Adenoma, Pars Distalis ]	Pars Distalis	Adenoma Leukemia Mononuclear	
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Minimal
* Skin	Epidermis, SOA Epidermis, SOA SOA, Sebaceous GI Epidermis, SOA	Hyperkeratosis Hyperplasia Hyperplasia Parakeratosis	Mild Moderate Moderate Mild
* Spleen [ Leukemia Mononuclear TGLS = 2-1: Mononuclear Cell Leukemia ]		Leukemia Mononuclear	
* Stomach, Forestomach	Epithelium	Hyperplasia Inflammation	Mild Chronic Active, Moderate
	Epithelium [ Ulcer TGLS = 8-12: Ulcer, Epithelium, Marked ]	Ulcer	Marked
* Testes	Interstit Cell Germinal Epith Interstit Cell  [ Adenoma TGLS = 1-10: Adenoma, Interstitial Cell ]	Adenoma Atrophy Hyperplasia	Moderate Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 120

TRT#: 5

DOSE: 100 MG/KG

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 729

HISTO: 9500450

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Atypia Cellular Degeneration	Minimal Fatty, Minimal
* Adrenal Medulla		Hyperplasia	Minimal
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
	[ Cataract TGLS = 4-12: Cataract, Lens, Marked ]		
* Heart		Cardiomyopathy	Chronic, Mild
* Islets, Pancreatic		Adenoma	
* Kidney	Renal Tubule	Adenoma Leukemia Mononuclear Nephropathy Pigmentation	Chronic, Moderate Hemosiderin, Minimal
	[ Nephropathy TGLS = 2-1: Nephropathy, Chronic, Moderate ]		
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia Leukemia Mononuclear Vacuolization Cytoplasmic	Mild Mild
	[ Leukemia Mononuclear TGLS = 5-4+5: Mononuclear Cell Leukemia ]		
* Lung		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 5-4+5: Mononuclear Cell Leukemia ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 120	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 100 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9500450

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 6-7: Adenoma, Pars Distalis ]			
* Preputial Gland		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 3-1: Mononuclear Cell Leukemia ]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-10: Adenoma, Interstitial Cell, Bilateral ]			

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 121

TRT#: 5

SEX: Male

DAY ON TEST: 698

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500451

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Degeneration	Cystic, Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Kidney	Renal Tubule	Hyperplasia	Moderate
		Nephropathy	Chronic, Marked
		Pigmentation	Hemosiderin, Minimal
	[ Nephropathy TGLS = 5-1: Nephropathy, Chronic, Marked ]		
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Mild
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 6-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Inflammation	Chronic Active, Moderate
	[ Inflammation TGLS = 2-12: Inflammation, Chronic-Active, Moderate ]		
* Prostate		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Mild
	Epidermis, SOA	Parakeratosis	Mild
	[ Hyperkeratosis TGLS = 1-12: Hyperkeratosis, Epidermis, Skin Soa, Mild ]		
	[ Parakeratosis TGLS = 1-12: Parakeratosis, Epidermis, Skin Soa, Mild ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

<b>ANIMAL ID:</b> 121	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 698
	<b>DOSE:</b> 100 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9500451

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Stomach, Forestomach	Edema	Moderate
Epithelium	Hyperplasia	Moderate
	Inflammation	Chronic Active, Moderate
	Perforation	
Epithelium	Ulcer	Marked
[ Perforation TGLS = 7-12: Perforation ]		
* Stomach, Glandular	Inflammation	Chronic Active, Moderate
Epithelium	Ulcer	Marked
* Testes	Interstitial Cell	
Germinal Epith	Adenoma	
	Atrophy	Marked
[ Adenoma TGLS = 4-10: Adenoma, Interstitial Cell ]		
[ Atrophy TGLS = 3-10: Atrophy, Germinal Epithelium, Marked ]		
* Thyroid Gland	C Cell	
	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Kidney Nephropathy	
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma;Stomach;Forestomach Perforation;Stomach;Forestomach Epithelium Ulcer;Stomach;Glandular Epithelium Ulcer	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 122

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 100 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500452

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Minimal
* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney	Renal Tubule	Hyperplasia	Minimal
		Nephropathy	Chronic, Marked
		Pigmentation	Hemosiderin, Minimal
	[ Nephropathy TGLS = 3-1: Nephropathy, Chronic, Marked ]		
* Liver	Bile Duct	Hyperplasia	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Cystic, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 4-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Moderate
	[ Inflammation TGLS = 2-11: Inflammation, Chronic-Active, Moderate ]		
* Skin	Epidermis, SOA	Hyperkeratosis	Moderate
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Mild
	SOA	Inflammation	Chronic Active, Mild
	Epidermis, SOA	Parakeratosis	Mild
	Epidermis, SOA	Ulcer	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 122	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 100 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9500452

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Stomach, Forestomach		Edema	Mild
		Foreign Body	
	Epithelium	Hyperplasia	Moderate
		Inflammation	Chronic Active, Moderate
	Epithelium	Ulcer	Marked
Note: Slide #04- Foreign Body (Hair) In Center Of Inflammatory Focus Located In The Lamina Propria. [ Foreign Body TGLS = 5-12: Ulcer, Epithelium, Marked ] [ Ulcer TGLS = 5-12: Ulcer, Epithelium, Marked ]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-10: Adenoma, Interstitial cell, Bilateral ]			

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 123

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 529

**DOSE:** 100 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500453

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Chronic, Minimal
* Kidney		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Mild
		Vacuolization Cytoplasmic	Mild
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 1-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Moderate
* Testes	Interstit Cell	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH** - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 124

TRT#: 5

DOSE: 100 MG/KG

SEX: Male

DISP: Moribund Sacrifice

DAY ON TEST: 607

HISTO: 9500454

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Nephropathy	Chronic, Moderate
	[ Nephropathy TGLS = 1-1: Nephropathy, Chronic, Moderate ]	Pigmentation	Hemosiderin, Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Mild
		Vacuolization Cytoplasmic	Minimal
	[ Hepatodiaphragmatic Nodule TGLS = 2-5: Hepatodiaphragmatic Nodule ]		
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 3-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 124	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 607
	<b>DOSE:</b> 100 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9500454

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Testes	SOA, Sebaceous GI	Hyperplasia	Moderate
	Interstit Cell	Hyperplasia	Minimal
	Arteriole	Inflammation	Chronic, Mild
	Arteriole	Necrosis	Fibrinoid, Mild

---

PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma
CONTRIBUTORY CAUSE OF DEATH	- Kidney Nephropathy

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 125

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 100 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500455

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Mild
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
	[ Cataract TGLS = 2-12: Cataract, Lens, Marked ]		
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Mild
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 3-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
* Testes	Interstit Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 125	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 100 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9500455

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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	Interstit Cell	Hyperplasia	Mild
[ Adenoma TGLS = 1-10: Adenoma, Interstitial Cell ]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 126

TRT#: 5

SEX: Male

DAY ON TEST: 690

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500456

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

\* Thymus

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Kidney		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Mild
* Lung		Inflammation	Chronic Active, Moderate
	[ Inflammation TGLS = 3,4-2+3: Inflammation, Chronic Active, Moderate ]		
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Nose	Septum, Turbinate, Vein	Thrombosis	Marked
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Mild
	Epidermis, SOA	Parakeratosis	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	[ Adenoma TGLS = 2-10: Adenoma, Interstitial Cell, Bilateral ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 126

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 690

**DOSE:** 100 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500456

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Atrophy TGLS = 1-10: Atrophy, Germinal Epithelium, Marked ]

\* Thyroid Gland

C Cell

Hyperplasia

Minimal

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PRIMARY CAUSE OF DEATH

- Lung Inflammation

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 127

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 621

**DOSE:** 100 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500457

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Mild
		Degeneration	Fatty, Mild
		Hyperplasia	Mild
* Kidney		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Mild
	[ Nephropathy TGLS = 3-1: Nephropathy, Chronic, Moderate ]		
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Moderate
	[ Vacuolization Cytoplasmic TGLS = 2-5+12: Cytoplasmic Vacuolization, Moderate ]		
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Mild
	[ Fibroadenoma TGLS = 1-13: Fibroadenoma ]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 4-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
* Testes	Germinal Epith	Atrophy	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 127

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 621

**DOSE:** 100 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500457

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Interstit Cell

Hyperplasia

Minimal

Arteriole

Inflammation

Chronic, Mild

Arteriole

Necrosis

Fibrinoid, Mild

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**PRIMARY CAUSE OF DEATH**

- Pituitary Gland Pars Distalis Adenoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 128

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 329

**DOSE:** 100 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500458

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Kidney		Nephropathy	Chronic, Minimal
		Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Mammary Gland		Hyperplasia	Cystic, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 1-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Moderate
	Epidermis, SOA	Parakeratosis	Mild
* Stomach, Forestomach		Edema	Moderate
	Epithelium	Hyperplasia	Moderate

**PRIMARY CAUSE OF DEATH** - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:04

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 129

TRT#: 5

DOSE: 100 MG/KG

SEX: Male

DISP: Natural Death

DAY ON TEST: 560

HISTO: 9500459

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Mild
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Nose	Respirat Epith	Hyperplasia	Moderate
		Inflammation	Chronic Active, Mild
Note: Slide #09 - Fungal Cluster Associated With Inflammation In Nasal Cavity.			
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 1-7: Adenoma, Pars Distalis ]		
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Moderate
	Epidermis, SOA	Parakeratosis	Mild
	[ Hyperkeratosis TGLS = 2-12: Hyperkeratosis, Epidermis, Skin Soa, Mild ]		
* Testes	Interstit Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Animal Note: Death May Also Have Been Due To Asphyxiation Secondary To Food Lodged Near Trach eal Opening As Documented At Necropsy.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:04  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 130

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 632

**DOSE:** 100 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500460

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Pancreas	* Salivary Glands	* Seminal Vesicle	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Mild
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Nephropathy	Chronic, Moderate
	[ Nephropathy TGLS = 2-1: Nephropathy, Chronic, Moderate ]	Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Mild
	[ Vacuolization Cytoplasmic TGLS = 3-4+5: Cytoplasmic Vacuolization, Moderate ]	Vacuolization Cytoplasmic	Moderate
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Nose	Respirat Epith	Hyperplasia	Moderate
	Nasolacrim Dct	Inflammation	Suppurative, Moderate
	Respirat Epith	Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Moderate
	Note: Slide #09 - Fungal Cluster Associated With Inflammation In Nasal Cavity.		
* Parathyroid Gland		Hyperplasia	Mild
	[ Hyperplasia TGLS = 5-7: Hyperplasia, Mild ]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 4-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Moderate

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 55312-03

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 14:36:04

**First Dose M/F:** NA / NA

**Lab:** BAT

**ANIMAL ID:** 130

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 632

**DOSE:** 100 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500460

**ORGAN AND ACCOUNTABLE SITE STATUS**

Epidermis, SOA

Hyperplasia

Moderate

SOA, Sebaceous GI

Hyperplasia

Moderate

SOA

Inflammation

Chronic Active, Mild

Epidermis, SOA

Parakeratosis

Mild

[ Hyperkeratosis TGLS = 1-12: Hyperkeratosis, Epidermis, Skin Soa, Moderate ]

\* Spleen

Fibrosis

Mild

[ Fibrosis TGLS = 6-12: Fibrosis, Mild ]

\* Stomach, Forestomach

Edema

Moderate

Epithelium

Hyperplasia

Moderate

Inflammation

Chronic Active, Moderate

Epithelium

Ulcer

Marked

\* Testes

Germinal Epith

Atrophy

Mild

\* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

CONTRIBUTORY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma; Stomach; Forestomach Epithelium Ulcer

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 131

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 474

**DOSE:** 100 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500461

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Adrenal Cortex		Degeneration Hypertrophy Leukemia Mononuclear	Fatty, Minimal Mild
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Chronic, Minimal
* Kidney		Leukemia Mononuclear Nephropathy Pigmentation	Chronic, Mild Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia Leukemia Mononuclear	Mild
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal Mediastinal	Leukemia Mononuclear Pigmentation	Hemosiderin, Minimal
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Respirat Epith	Hyperplasia Inflammation	Moderate Chronic Active, Mild
Note: Slide #08 - Fungal Cluster Associated With Inflammation In Nasal Cavity.			
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Intermed Pars Distalis	Cyst Hyperplasia	Mild Mild
* Preputial Gland		Inflammation	Chronic Active, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 131	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 474
	<b>DOSE:</b> 100 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9500461

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Prostate		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Moderate
	Epidermis, SOA	Parakeratosis	Minimal
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 1-12: Mononuclear Cell Leukemia ]		
* Testes	Interstit Cell	Hyperplasia	Minimal
* Thymus			
	Note: TGL#2-2-NCL: Thymus Normal Histologically.		

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**PRIMARY CAUSE OF DEATH** - Spleen Leukemia Mononuclear

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 132

TRT#: 5

DOSE: 100 MG/KG

SEX: Male

DISP: Moribund Sacrifice

DAY ON TEST: 677

HISTO: 9500462

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney	Renal Tubule	Hyperplasia	Mild
		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Minimal
	[ Nephropathy TGLS = 2-1: Nephropathy, Chronic, Moderate ]		
* Liver	Bile Duct	Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Mammary Gland		Hyperplasia	Cystic, Moderate
* Nose	Respirat Epith	Hyperplasia	Moderate
		Inflammation	Chronic Active, Mild
Oral Mucosa	Gingival	Inflammation	Chronic Active, Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 3-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Carcinoma	
	[ Carcinoma TGLS = 1-13: Carcinoma ]		
* Prostate		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Moderate
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Mild
	Epidermis, SOA	Parakeratosis	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 132	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 677
	<b>DOSE:</b> 100 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9500462

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Stomach, Forestomach	Epithelium	Hyperplasia Inflammation Perforation	Moderate Chronic Active, Marked
	Epithelium	Ulcer	Marked
	[ Hyperplasia TGLS = 4-12: Hyperplasia, Epithelium, Moderate ]		
	[ Inflammation TGLS = 4-12: Inflammation, Chronic Active, Marked ]		
	[ Perforation TGLS = 4-12: Hyperplasia, Epithelium, Moderate ]		

---

PRIMARY CAUSE OF DEATH	- Kidney Nephropathy
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma;Stomach;Forestomach Inflammation;Stomach;Forestomach Epithelium Ulcer

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 133	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 100 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9500463

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Pancreas	Acinus	Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Cyst Multilocular	Moderate
		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous G	Hyperplasia	Mild
* Testes	Interstit Cell	Hyperplasia	Minimal
	Arteriole	Inflammation	Chronic, Mild
	Arteriole	Necrosis	Fibrinoid, Mild
* Thyroid Gland	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 134

TRT#: 5

SEX: Male

DAY ON TEST: 485

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500464

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Minimal
* Kidney		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Moderate
Note: TGL#2-12:Mammary Gland Mass, Documented At Necropsy, Is Subcutaneous Fibroma Histologically.			
* Pancreas	Acinus	Atrophy	Marked
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 1-7: Adenoma, Pars Distalis ]			
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Chronic Active, Mild
* Skin	Subcut Tiss	Fibroma	
	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
	Epidermis, SOA	Parakeratosis	Minimal
[ Fibroma TGLS = 2-12: Fibroma, Subcutaneous Tissue ]			

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 55312-03

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 14:36:05

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 134

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 485

**DOSE:** 100 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500464

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thyroid Gland

C Cell

Hyperplasia

Minimal

---

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 135

TRT#: 5

DOSE: 100 MG/KG

SEX: Male

DISP: Moribund Sacrifice

DAY ON TEST: 626

HISTO: 9500465

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Mild
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
	[ Cataract TGLS = 1-12: Cataract, Lens, Marked ]		
* Heart		Cardiomyopathy	Chronic, Minimal
* Kidney	Renal Tubule	Cyst	Mild
		Hyperplasia	Mild
		Nephropathy	Chronic, Marked
		Pigmentation	Hemosiderin, Minimal
	[ Cyst TGLS = 3-12: Cyst, Mild ]		
	[ Nephropathy TGLS = 2-1+12: Nephropathy, Chronic, Marked ]		
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Moderate
* Lung	Alveolar Epith	Hyperplasia	Marked
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	[ Hyperplasia TGLS = 5-3: Hyperplasia, Alveolar Epithelium, Marked ]		
	Lymph Node	Pigmentation	Hemosiderin, Minimal
* Mammary Gland	Mediastinal	Hyperplasia	Cystic, Mild
* Pancreas	Acinus	Atrophy	Mild
* Parathyroid Gland		Hyperplasia	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 135	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 626
	<b>DOSE:</b> 100 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9500465

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hyperplasia TGLS = 4-7: Hyperplasia, Mild ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 6-7: Adenoma, Pars Distalis ]			
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
* Stomach, Forestomach		Edema	Mild
	Epithelium	Hyperplasia	Mild
* Testes	Arteriole	Inflammation	Chronic, Mild
	Arteriole	Necrosis	Fibrinoid, Mild

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PRIMARY CAUSE OF DEATH	- Kidney Nephropathy
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 136

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 100 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500466

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Minimal
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
	[ Cataract TGLS = 1-12: Cataract, Lens, Marked ]		
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
* Mammary Gland		Hyperplasia	Cystic, Minimal
* Nose	Respirat Epith	Hyperplasia	Moderate
		Inflammation	Chronic Active, Moderate
	Note: Slide #09 - Fungal Cluster Associated With Inflammation In Nasal Cavity.		
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 136

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 100 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500466

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Adenoma TGLS = 2-10: Adenoma, Interstitial Cell, Bilateral ]

\* Thyroid Gland

C Cell

Adenoma

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 137

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 620

**DOSE:** 100 MG/KG

**DISP:** Natural Death

**HISTO:** 9500467

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Mild
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney	Renal Tubule	Hyperplasia	Mild
		Leukemia Mononuclear	
		Nephropathy	Chronic, Marked
		Pigmentation	Hemosiderin, Minimal
	[ Nephropathy TGLS = 2-1+12: Nephropathy, Chronic, Marked ]		
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Moderate
	[ Vacuolization Cytoplasmic TGLS = 3-4+5: Cytoplasmic Vacuolization, Moderate ]		
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Marked
	[ Hyperplasia TGLS = 1-13: Hyperplasia, Cystic, Marked ]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 4-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 137	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 620
	<b>DOSE:</b> 100 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 9500467

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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	SOA, Sebaceous GI	Hyperplasia	Mild
* Spleen		Leukemia Mononuclear	
* Testes	Arteriole	Inflammation	Chronic, Mild
	Arteriole	Necrosis	Fibrinoid, Mild

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PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH - Kidney Nephropathy

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Animal Note: Death May Also Have Been Due To Asphyxiation Secondary To Food Lodged Near Tracheal Opening As Documented At Necropsy.

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 138

TRT#: 5

SEX: Male

DAY ON TEST: 666

DOSE: 100 MG/KG

DISP: Natural Death

HISTO: 9500468

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Salivary Glands	* Seminal Vesicle
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
Blood Vessel	Aorta	Mineralization	Moderate
* Bone		Fibrous Osteodystrophy	Moderate
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Chronic, Moderate
		Mineralization	Moderate
* Intestine Large, Colon		Polyp Adenomatous	
[ Polyp Adenomatous TGLS = 6-13: Adenomatous Polyp ]			
* Kidney	Renal Tubule	Hyperplasia	Marked
		Nephropathy	Chronic, Marked
		Pigmentation	Hemosiderin, Minimal
[ Nephropathy TGLS = 3-1+12: Nephropathy, Chronic, Marked ]			
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Mild
		Vacuolization Cytoplasmic	Mild
* Lung	Interstitialium	Mineralization	Moderate
* Mammary Gland		Hyperplasia	Cystic, Mild
Oral Mucosa	Gingival	Squamous Cell Carcinoma	
* Parathyroid Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 4-7: Hyperplasia, Moderate ]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
[ Hyperplasia TGLS = 5-7: Hyperplasia, Pars Distalis, Mild ]			
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Minimal

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 138	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 666
	<b>DOSE:</b> 100 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 9500468

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Skin	SOA, Subcut Tiss	Fibrosarcoma	
	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous Gl	Hyperplasia	Minimal
[ Fibrosarcoma TGLS = 1-12: Fibrosarcoma, Subcutaneous Tissue, Skin Soa ]			
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 1-12: Fibrosarcoma, Subcutaneous Tissue, Skin Soa ]			
* Stomach, Forestomach		Mineralization	Minimal
* Stomach, Glandular		Mineralization	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 2-10: Adenoma, Interstitial Cell, Bilateral ]			

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PRIMARY CAUSE OF DEATH	- Kidney Nephropathy
CONTRIBUTORY CAUSE OF DEATH	- Spleen Leukemia Mononuclear

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 139

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 719

**DOSE:** 100 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500469

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Parathyroid Gland
* Stomach, Glandular	* Thyroid Gland	* Trachea	

**OBSERVATIONS**

* Adrenal Cortex		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 8-6: Mononuclear Cell Leukemia ]			
* Adrenal Medulla		Hyperplasia	Mild
		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 8-6: Mononuclear Cell Leukemia ]			
* Bone Marrow		Hyperplasia	Marked
		Leukemia Mononuclear	
* Epididymis		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 8-6: Mononuclear Cell Leukemia ]			
* Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Mild
[ Leukemia Mononuclear TGLS = 6-1: Mononuclear Cell Leukemia ]			
[ Nephropathy TGLS = 5-1: Nephropathy, Chronic, Moderate ]			
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 3-4+5: Mononuclear Cell Leukemia ]			
* Lung		Leukemia Mononuclear	
Lymph Node	Lumbar	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 10-2: Mononuclear Cell Leukemia, Mediastinal ]			
[ Leukemia Mononuclear TGLS = 7-12: Mononuclear Cell Leukemia, Lumbar ]			
* Lymph Node, Mandibular		Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014  
Time Report Requested: 14:36:05  
First Dose M/F: NA / NA  
Lab: BAT

ANIMAL ID: 139

TRT#: 5

DOSE: 100 MG/KG

SEX: Male

DISP: Moribund Sacrifice

DAY ON TEST: 719

HISTO: 9500469

ORGAN AND ACCOUNTABLE SITE STATUS

[ Leukemia Mononuclear TGLS = 8-6: Mononuclear Cell Leukemia ]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 12-4: Mononuclear Cell Leukemia ]			
* Mammary Gland		Cyst Hyperplasia	Mild Cystic, Mild
[ Cyst TGLS = 9-12: Cyst, Mild ]			
Mesentery		Leukemia Mononuclear	
	Fat	Necrosis	Marked
[ Necrosis TGLS = 4-13: Necrosis, Fat, Marked ]			
* Pancreas	Acinus	Atrophy Leukemia Mononuclear	Minimal
[ Leukemia Mononuclear TGLS = 4-13: Necrosis, Fat, Marked ]			
* Pituitary Gland	Pars Distalis	Adenoma Leukemia Mononuclear	
[ Adenoma TGLS = 11-7: Adenoma, Pars Distalis ]			
[ Leukemia Mononuclear TGLS = 11-7: Adenoma, Pars Distalis ]			
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Moderate
		Leukemia Mononuclear	
* Salivary Glands		Leukemia Mononuclear	
* Seminal Vesicle		Leukemia Mononuclear	
* Skin	Epidermis, SOA	Hyperkeratosis	Moderate
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Mild
	Subcut Tiss	Leukemia Mononuclear	
	Epidermis, SOA	Parakeratosis	Mild
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 1-1: Mononuclear Cell Leukemia ]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Inflammation	Chronic Active, Moderate
	Epithelium	Ulcer	Marked

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 139	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 719
	<b>DOSE:</b> 100 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9500469

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Ulcer TGLS = 13-4: Ulcer, Epithelium, Marked ]			
* Testes	Germinal Epith	Atrophy	Marked
[ Atrophy TGLS = 2-10: Atrophy, Germinal Epithelium, Marked ]			
* Thymus		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 2-10: Atrophy, Germinal Epithelium, Marked ]			
* Urinary Bladder		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 2-10: Atrophy, Germinal Epithelium, Marked ]			
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 140

TRT#: 5

SEX: Male

DAY ON TEST: 695

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500470

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Degeneration	Cystic, Mild
* Adrenal Medulla		Hyperplasia	Mild
* Brain		Hemorrhage	Mild
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
[ Nephropathy TGLS = 4-1: Nephropathy, Chronic, Mild ]			
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
		Vacuolization Cytoplasmic	Mild
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Nose	Nasolacrim Dct	Inflammation	Suppurative, Moderate
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
* Spleen	Red Pulp	Depletion Cellular	Mild
[ Depletion Cellular TGLS = 3-1: Cell Depletion, Red Pulp, Mild ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 140	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 695
	<b>DOSE:</b> 100 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9500470

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Stomach, Forestomach	Epithelium	Hyperplasia Inflammation	Minimal Chronic Active, Mild
	Epithelium	Ulcer	Moderate
[ Ulcer TGLS = 5-4: Ulcer, Epithelium, Moderate ]			
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Minimal
[ Adenoma TGLS = 1-10: Adenoma, Interstitial Cell ]			
[ Atrophy TGLS = 2-10: Atrophy, Germinal Epithelium, Moderate ]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

---

PRIMARY CAUSE OF DEATH	- Brain Hemorrhage
CONTRIBUTORY CAUSE OF DEATH	- Stomach;Forestomach Epithelium Ulcer

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 141

TRT#: 5

SEX: Male

DAY ON TEST: 698

DOSE: 100 MG/KG

DISP: Natural Death

HISTO: 9500471

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Minimal
	[ Nephropathy TGLS = 1-1: Nephropathy, Chronic, Moderate ]		
* Liver	Bile Duct	Hyperplasia	Mild
		Vacuolization Cytoplasmic	Moderate
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 2-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Mild
* Testes	Arteriole	Inflammation	Chronic, Mild
	Arteriole	Necrosis	Fibrinoid, Mild
* Thymus		Ectopic Parathyroid Gland	Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 14:36:05

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 141

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 698

**DOSE:** 100 MG/KG

**DISP:** Natural Death

**HISTO:** 9500471

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Animal Note: Death May Also Have Been Due To Asphyxiation Secondary To Food Lodged Near Tracheal Opening As Documented At Necropsy.

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 142

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 702

**DOSE:** 100 MG/KG

**DISP:** Natural Death

**HISTO:** 9500472

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Mild
		Leukemia Mononuclear	
Blood Vessel	Aorta	Mineralization	Moderate
	Pulmn Artery	Mineralization	Moderate
* Bone		Fibrous Osteodystrophy	Mild
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Chronic, Moderate
		Leukemia Mononuclear	
		Mineralization	Mild
* Kidney		Leukemia Mononuclear	
		Mineralization	Moderate
		Nephropathy	Chronic, Marked
		Pigmentation	Hemosiderin, Minimal
	[ Nephropathy TGLS = 4-1: Nephropathy, Chronic, Marked ]		
* Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Mild
	[ Leukemia Mononuclear TGLS = 3-4+5: Mononuclear Cell Leukemia ]		
* Lung		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 3-4+5: Mononuclear Cell Leukemia ]		
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 142

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 702

**DOSE:** 100 MG/KG

**DISP:** Natural Death

**HISTO:** 9500472

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Nose	Respirat Epith	Hyperplasia	Mild
	Septum, Turbinate, Vein	Inflammation	Chronic Active, Mild
		Thrombosis	Marked
Note: Slide #09 - Fungal Cluster Associated With Inflammation In Nasal Cavity.			
* Pancreas	Acinus	Atrophy	Mild
* Parathyroid Gland		Hyperplasia	Moderate
	[ Hyperplasia TGLS = 6-7: Hyperplasia, Moderate ]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 7-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Marked
	[ Inflammation TGLS = 1-11: Inflammation, Chronic Active, Marked ]		
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
	Epidermis, SOA	Parakeratosis	Mild
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 5-1: Mononuclear Cell Leukemia ]		
* Stom Forestom			
Note: TGL#8-5-NCL: Forestomach Serosal Lesion, Documented At Trim, Not Apparent Histologically.			
* Stomach, Glandular		Mineralization	Mild
* Testes	Bilateral, Germinal Epith	Atrophy	Marked
	[ Atrophy TGLS = 2-10: Atrophy, Germinal Epithelium, Bilat, Marked ]		

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Kidney Nephropathy; Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 143

TRT#: 5

SEX: Male

DAY ON TEST: 593

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500473

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Chronic, Minimal
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Minimal
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Mild
	[ Hepatodiaphragmatic Nodule TGLS = 3,4 - 5+4: Hepatodiaphragmatic Nodule ]		
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Mild
* Mammary Gland		Hyperplasia	Cystic, Mild
Mesentery	Fat	Necrosis	Marked
	[ Necrosis TGLS = 1-12: Necrosis, Fat, Marked ]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 2-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 143

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 593

**DOSE:** 100 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500473

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Testes

Germinal Epith

Atrophy

Mild

Interstit Cell

Hyperplasia

Minimal

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PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH

- Kidney Nephropathy

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 144

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 656

**DOSE:** 100 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500474

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Salivary Glands	* Seminal Vesicle
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Thymus

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Mild
Blood Vessel	Aorta	Mineralization	Moderate
* Bone		Fibrous Osteodystrophy	Marked
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Chronic, Moderate
		Mineralization	Moderate
* Kidney	Renal Tubule	Adenoma	
	Renal Tubule	Hyperplasia	Marked
		Mineralization	Moderate
		Nephropathy	Chronic, Marked
		Pigmentation	Hemosiderin, Minimal
	[ Nephropathy TGLS = 1-1: Nephropathy, Chronic, Marked ]		
* Liver	Hepatocyte	Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Moderate
		Vacuolization Cytoplasmic	Moderate
* Lung	Interstitialium	Mineralization	Mild
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Parathyroid Gland		Hyperplasia	Marked

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 144	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 656
	<b>DOSE:</b> 100 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9500474

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hyperplasia TGLS = 2-7: Hyperplasia, Marked ]			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Moderate
[ Hyperplasia TGLS = 3-7: Hyperplasia, Pars Distalis, Moderate ]			
* Preputial Gland		Inflammation	Chronic Active, Marked
* Prostate		Inflammation	Chronic Active, Moderate
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach		Mineralization	Moderate
* Stomach, Glandular		Mineralization	Moderate
* Testes	Germinal Epith	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal
	Arteriole	Inflammation	Chronic, Mild
	Arteriole	Necrosis	Fibrinoid, Mild
PRIMARY CAUSE OF DEATH	- Kidney Nephropathy		

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 145

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 640

**DOSE:** 100 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500475

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Adrenal Cortex		Degeneration Hypertrophy Leukemia Mononuclear	Fatty, Mild Mild
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia Leukemia Mononuclear	Marked
* Heart		Cardiomyopathy Leukemia Mononuclear	Chronic, Minimal
* Intestine Small, Duodenum	Epithelium	Ulcer	Marked
* Kidney		Accumulation, Hyaline Droplet Leukemia Mononuclear Nephropathy Pigmentation	Mild  Chronic, Mild Hemosiderin, Marked
[ Pigmentation TGLS = 3-1: Pigment, Hemosiderin, Marked ]			
* Liver	Bile Duct	Hyperplasia Leukemia Mononuclear	Moderate
[ Leukemia Mononuclear TGLS = 4-4+5: Mononuclear Cell Leukemia ]			
* Lung		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 4-4+5: Mononuclear Cell Leukemia ]			
Lymph Node	Mediastinal Renal	Leukemia Mononuclear Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 5-12: Mononuclear Cell Leukemia, Renal ]			
[ Leukemia Mononuclear TGLS = 6-2: Mononuclear Cell Leukemia, Mediastinal ]			

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014  
Time Report Requested: 14:36:05  
First Dose M/F: NA / NA  
Lab: BAT

ANIMAL ID: 145

TRT#: 5

DOSE: 100 MG/KG

SEX: Male

DISP: Moribund Sacrifice

DAY ON TEST: 640

HISTO: 9500475

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7: Hyperplasia, Cystic, Moderate ]			
Mesentery		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 1-7: Hyperplasia, Cystic, Moderate ]			
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 1-7: Hyperplasia, Cystic, Moderate ]			
* Preputial Gland		Adenoma	
		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Moderate
	Epidermis, SOA	Parakeratosis	Moderate
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 2-12: Mononuclear Cell Leukemia ]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
	Epithelium	Ulcer	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Adrenal Cortex Leukemia Mononuclear;Intestine Small;Duodenum Epithelium Ulcer;Pituitary Gland Pars Distalis Adenoma;Stomach;Forestomach Epithelium Ulcer

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 146

TRT#: 5

DOSE: 100 MG/KG

SEX: Male

DISP: Natural Death

DAY ON TEST: 421

HISTO: 9500476

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Mild
	[ Hepatodiaphragmatic Nodule TGLS = 1-12: Hepatodiaphragmatic Nodule ]		
	Lymph Node	Pigmentation	Hemosiderin, Minimal
* Pancreas	Mediastinal	Atrophy	Mild
	Acinus		
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 2,3-7: Adenoma, Pars Distalis ]		
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 147

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 389

**DOSE:** 100 MG/KG

**DISP:** Natural Death

**HISTO:** 9500477

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Epididymis	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Pituitary Gland

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Bone Marrow		Hyperplasia	Moderate
* Esophagus		Thymoma Malignant	Metastatic (Thymus)
* Kidney		Nephropathy	Chronic, Minimal
		Pigmentation	Hemosiderin, Minimal
		Thymoma Malignant	Metastatic (Thymus)
[ Thymoma Malignant TGLS = 4,5-13:Metastatic Malignant Thymoma ]			
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Lung		Thymoma Malignant	Metastatic (Thymus)
[ Thymoma Malignant TGLS = 2,3 - 12+2: Metastatic Malignant Thymoma ]			
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
Mesentery	Fat	Necrosis	Marked
[ Necrosis TGLS = 6-12: Necrosis, Fat, Marked ]			
* Nose	Respirat Epith	Hyperplasia	Moderate
		Inflammation	Chronic Active, Mild
	Respirat Epith	Metaplasia	Squamous, Mild
Note: Slide #09 - Fungal Cluster & Keratin Debris Associated With Inflammation In Nasal Cavity.			
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 147	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 389
	<b>DOSE:</b> 100 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 9500477

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
	Epidermis, SOA	Parakeratosis	Mild
* Stomach, Forestomach		Edema	Moderate
	Epithelium	Hyperplasia	Mild
* Testes	Germinal Epith	Atrophy	Mild
* Thymus		Thymoma Malignant	
	[ Thymoma Malignant TGLS = 2-12: Malignant Thymoma ]		

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PRIMARY CAUSE OF DEATH	- Thymus	Thymoma Malignant
CONTRIBUTORY CAUSE OF DEATH	- Kidney	Thymoma Malignant Thymus;Lung Thymoma Malignant Thymus

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 148

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 674

**DOSE:** 100 MG/KG

**DISP:** Natural Death

**HISTO:** 9500478

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Pancreas	* Salivary Glands	* Seminal Vesicle	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Mild
		Hypertrophy	Mild
* Adrenal Medulla		Hyperplasia	Mild
Blood Vessel	Aorta	Mineralization	Moderate
	Pulmn Artery	Mineralization	Moderate
* Bone		Fibrous Osteodystrophy	Moderate
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Chronic, Moderate
		Mineralization	Minimal
* Kidney		Cyst	Moderate
	Renal Tubule	Hyperplasia	Moderate
		Mineralization	Mild
		Nephropathy	Chronic, Marked
		Pigmentation	Hemosiderin, Minimal
			[ Cyst TGLS = 4-12: Cyst, Moderate ]
			[ Nephropathy TGLS = 2-1: Nephropathy, Chronic, Marked ]
* Liver	Bile Duct	Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Lung		Inflammation	Chronic Active, Mild
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Nose	Nasolacrim Dct	Inflammation	Suppurative, Moderate
* Parathyroid Gland		Hyperplasia	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 14:36:05

**First Dose M/F:** NA / NA

**Lab:** BAT

**ANIMAL ID:** 148

**TRT#:** 5

**DOSE:** 100 MG/KG

**SEX:** Male

**DISP:** Natural Death

**DAY ON TEST:** 674

**HISTO:** 9500478

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
[ Hyperplasia TGLS = 3-7: Hyperplasia, Pars Distalis, Mild ]			
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Epidermis, SOA	Parakeratosis	Mild
[ Hyperkeratosis TGLS = 1-12:Hyperkeratosis,Epidermis,Skin Soa,Mild ]			
[ Parakeratosis TGLS = 1-12: Parakeratosis,Epidermis,Skin Soa,Mild ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Marked
		Inflammation	Chronic Active, Moderate
	Epithelium	Ulcer	Marked
[ Hyperplasia TGLS = 5-5+13: Hyperplasia, Epithelium, Marked ]			
* Stomach, Glandular		Mineralization	Mild
* Testes	Germinal Epith	Atrophy	Marked
	Arteriole	Inflammation	Chronic, Mild
	Arteriole	Necrosis	Fibrinoid, Mild
PRIMARY CAUSE OF DEATH	- Kidney Nephropathy		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 149

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 100 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500479

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Adrenal Medulla		Hyperplasia	Minimal
		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Chronic, Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
	[ Hepatodiaphragmatic Nodule TGLS = 3-4: Hepatodiaphragmatic Nodule ]		
	Lymph Node	Pigmentation	Hemosiderin, Minimal
* Mammary Gland	Mediastinal	Hyperplasia	Cystic, Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
	[ Hyperplasia TGLS = 4-7: Hyperplasia, Pars Distalis, Moderate ]		
* Preputial Gland		Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
* Testes	Interstit Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 14:36:05

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 149

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 100 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500479

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Germinal Epith

Atrophy

Marked

Arteriole

Inflammation

Chronic, Mild

Arteriole

Necrosis

Fibrinoid, Mild

[ Adenoma TGLS = 1-10: Adenoma, Interstitial Cell ]

[ Atrophy TGLS = 2-10: Atrophy, Germinal Epithelium, Marked ]

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 150

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 100 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500480

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Cyst	Mild
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Mild
		Vacuolization Cytoplasmic	Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Moderate
	[ Hyperplasia TGLS = 5-7: Hyperplasia, Pars Distalis, Moderate ]		
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Moderate
	Epidermis, SOA	Parakeratosis	Minimal
* Spleen		Hyperplasia	Lymphoid, Marked

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 150	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 100 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9500480

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hyperplasia TGLS = 2,3,4-1+12: Hyperplasia, Lymphoid, Marked ]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 1-10: Adenoma, Interstitial Cell, Bilateral ]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

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PRIMARY CAUSE OF DEATH	-
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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 151

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 632

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 9500481

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**OBSERVATIONS**

* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Minimal
		Pigmentation	Hemosiderin, Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
	[ Basophilic Focus TGLS = 2-4: Hepatodiaphragmatic Nodule ]		
	[ Clear Cell Focus TGLS = 3-5: Clear Cell Focus ]		
	[ Hepatodiaphragmatic Nodule TGLS = 2-4: Hepatodiaphragmatic Nodule ]		
* Lung	Alveolar Epith	Hyperplasia	Marked
	[ Hyperplasia TGLS = 5-3: Hyperplasia, Alveolar Epithelium, Marked ]		
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
Mesentery	Fat	Necrosis	Marked
	[ Necrosis TGLS = 1-11: Necrosis, Fat. Marked ]		
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 4-7: Adenoma, Pars Distalis ]		

**PRIMARY CAUSE OF DEATH** - Pituitary Gland Pars Distalis Adenoma

Animal Note: Death May Also Have Been Due To Asphyxiation Secondary To Food Lodged Near Tracheal Opening As Documented At Necropsy.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 14:36:05

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 151

**TRT#:** 2

**DOSE:** 0 MG/KG

**SEX:** Female

**DISP:** Natural Death

**DAY ON TEST:** 632

**HISTO:** 9500481

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 152

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500482

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Cystic, Moderate
		Degeneration	Fatty, Minimal
		Hyperplasia	Marked
		Hypertrophy	Mild
* Heart		Cardiomyopathy	Chronic, Mild
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Minimal
		Pigmentation	Hemosiderin, Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic, Minimal
	[ Hepatodiaphragmatic Nodule TGLS = 1-4: Hepatodiaphragmatic Nodule ]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Mild
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 153

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500483

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

**OBSERVATIONS**

* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Mild
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Mild
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 1-7: Adenoma, Pars Distalis ]		
* Thyroid Gland	C Cell	Adenoma	

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 154

TRT#: 2

DOSE: 0 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 729

HISTO: 9500484

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Clitoral Gland		Adenoma	
[ Adenoma TGLS = 3-10: Adenoma ]			
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Granulomatous, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Adenoma	
		Fibroadenoma	
		Hyperplasia	Cystic, Moderate
[ Adenoma TGLS = 1-11: Adenoma ]			
[ Fibroadenoma TGLS = 2-12: Fibroadenoma ]			
[ Hyperplasia TGLS = 2-12: Hyperplasia, Cystic, Moderate ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 4-7: Adenoma, Pars Distalis ]			
* Thyroid Gland	C Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 154

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 729  
**HISTO:** 9500484

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

C Cell

Hyperplasia

Mild

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PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 155

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9500485

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Mild
		Hyperplasia	Minimal
		Hypertrophy	Mild
* Clitoral Gland		Adenoma	
		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
		Vacuolization Cytoplasmic	Minimal
		[ Basophilic Focus TGLS = 4-4+11: Basophilic Focus ]	
		[ Hepatodiaphragmatic Nodule TGLS = 3-5: Hepatodiaphragmatic Nodule ]	
* Lung		Inflammation	Chronic Active, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Carcinoma	
		Hyperplasia	Cystic, Mild
		[ Carcinoma TGLS = 2-11: CARCINOMA ]	
* Pancreas	Acinus	Atrophy	Moderate

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 55312-03

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 14:36:05

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 155

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500485

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Pituitary Gland

Pars Distalis

Hyperplasia

Moderate

[ Hyperplasia TGLS = 1-7: Hyperplasia, Pars Distalis, Moderate ]

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 156

TRT#: 2

SEX: Female

DAY ON TEST: 655

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500486

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Ovary
* Parathyroid Gland	* Salivary Glands	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Bone Marrow		Hyperplasia	Marked
* Heart		Inflammation	Chronic Active, Moderate
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Minimal
		Pigmentation	Hemosiderin, Mild
* Liver		Inflammation	Chronic, Moderate
	[ Inflammation TGLS = 2-11: Inflammation, Chronic, Moderate ]		
* Lung		Inflammation	Granulomatous, Moderate
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Nose	Nasolacrim Dct	Inflammation	Suppurative, Minimal
* Pancreas		Inflammation	Granulomatous, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
	[ Hyperplasia TGLS = 3-7: Hyperplasia, Pars Distalis, Mild ]		
Skeletal Muscle		Inflammation	Chronic Active, Moderate
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA	Inflammation	Chronic Active, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
	Capsule	Inflammation	Granulomatous, Marked
	[ Inflammation TGLS = 1-11: Inflammation, Granulomatous, Capsule, Marked ]		
* Stomach, Forestomach		Edema	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 156

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 655  
**HISTO:** 9500486

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Uterus  
[ Polyp Stromal TGLS = 1-11: Inflammation, Granulomatous, Capsule, Marked ]  
Polyp Stromal

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PRIMARY CAUSE OF DEATH - Uterus Polyp Stromal  
CONTRIBUTORY CAUSE OF DEATH - Heart Inflammation;Liver Inflammation;Lung Inflammation;Skeletal Muscle Inflammation

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 157

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 613

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500487

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**OBSERVATIONS**

* Heart		Cardiomyopathy	Chronic, Minimal
* Kidney		Cyst	Mild
		Mineralization	Minimal
		Nephropathy	Chronic, Minimal
		Pigmentation	Hemosiderin, Minimal
* Liver		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic, Minimal
	[ Hepatodiaphragmatic Nodule TGLS = 2-12: Hepatodiaphragmatic Nodule ]		
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
Mesentery	Fat	Necrosis	Marked
	[ Necrosis TGLS = 1-11: Necrosis, Fat, Marked ]		
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 3-7: Adenoma, Pars Distalis ]		

**PRIMARY CAUSE OF DEATH**

- Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 158

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500488

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Blood Vessel	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Degeneration	Cystic, Mild
		Hypertrophy	Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Marked
		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Leukemia Mononuclear	
		Mineralization	Minimal
		Nephropathy	Chronic, Minimal
		Pigmentation	Hemosiderin, Mild
* Liver		Leukemia Mononuclear	
Note: TGL#5-12-NCL: Black Focus, Documented At Necropsy, Not Apparent Histologically.			
[ Leukemia Mononuclear TGLS = 4-4+5: Mononuclear Cell Leukemia ]			
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 4-4+5: Mononuclear Cell Leukemia ]			
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Mild
[ Fibroadenoma TGLS = 1-11: Fibroadenoma ]			
* Ovary		Cyst	Marked
[ Cyst TGLS = 3-10: Cyst, Marked ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 158	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9500488

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
	[ Hyperplasia TGLS = 6-7: Hyperplasia, Pars Distalis, Mild ]		
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 2-1: Mononuclear Cell Leukemia ]		
* Thyroid Gland	Follicular Cel	Adenoma	
	[ Adenoma TGLS = 7-7: Adenoma, Follicular Cell ]		
Tooth		Inflammation	Chronic Active, Moderate

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 159

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 619

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500489

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Blood Vessel	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Mild
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia	Marked
* Kidney		Leukemia Mononuclear	
		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Mild
	[ Leukemia Mononuclear TGLS = 2-4+5: Mononuclear Cell Leukemia ]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 2-4+5: Mononuclear Cell Leukemia ]		
Lymph Node	Inguinal	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 5-6: Mononuclear Cell Leukemia ]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 4-4: Mononuclear Cell Leukemia ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 159	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 619
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9500489

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Mammary Gland		Hyperplasia	Cystic, Mild
* Ovary		Leukemia Mononuclear	
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
		Leukemia Mononuclear	
	[ Hyperplasia TGLS = 3-7: Hyperplasia, Pars Distalis, Mild ]		
	[ Leukemia Mononuclear TGLS = 3-7: Hyperplasia, Pars Distalis, Mild ]		
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 1-11: Mononuclear Cell Leukemia ]		
* Thymus		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 1-11: Mononuclear Cell Leukemia ]		
* Thyroid Gland	C Cell	Hyperplasia	Mild

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PRIMARY CAUSE OF DEATH      - Thymus    Leukemia Mononuclear

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 160

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500490

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

**OBSERVATIONS**

* Clitoral Gland		Hyperplasia	Mild
* Heart		Cardiomyopathy	Chronic, Minimal
* Islets, Pancreatic		Adenoma	
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Mild
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Mild
	[ Fibroadenoma TGLS = 1-11: Fibroadenoma ]		
* Ovary		Cyst	Mild
	[ Cyst TGLS = 2-10: Cyst, Mild ]		
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 161

TRT#: 2

DOSE: 0 MG/KG

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 613

HISTO: 9500491

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
		Vacuolization Cytoplasmic	Moderate
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Mild
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 1-7: Adenoma, Pars Distalis ]		
* Thyroid Gland	Follicular Cel	Adenoma	

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 162

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 728

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500492

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Uterus	

**OBSERVATIONS**

* Clitoral Gland		Hyperplasia	Moderate
[ Hyperplasia TGLS = 1-11: Hyperplasia, Moderate ]			
* Heart		Cardiomyopathy	Chronic, Minimal
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Minimal
[ Basophilic Focus TGLS = 3-4: Hepatodiaphragmatic Nodule ]			
[ Hepatodiaphragmatic Nodule TGLS = 3-4: Hepatodiaphragmatic Nodule ]			
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Carcinoma	
		Hyperplasia	Cystic, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 2-7: Adenoma, Pars Distalis ]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder	Transit Epithe	Papilloma	

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 163

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 522

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 9500493

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**OBSERVATIONS**

* Heart		Cardiomyopathy	Chronic, Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Minimal
		Pigmentation	Hemosiderin, Minimal
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
	[ Hepatodiaphragmatic Nodule TGLS = 1-5: Hepatodiaphragmatic Nodule ]		
	Lymph Node	Pigmentation	Hemosiderin, Minimal
* Lymph Node, Mandibular	Mediastinal	Pigmentation	Hemosiderin, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 2-7: Adenoma, Pars Distalis ]		
* Spleen		Pigmentation	Hemosiderin, Moderate

**PRIMARY CAUSE OF DEATH** - Pituitary Gland Pars Distalis Adenoma

Animal Note: Death May Also Have Been Due To Asphyxiation Secondary To Food Lodged Near Tracheal Opening As Documented At Necropsy.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 164

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 698

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 9500494

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Thymus

**OBSERVATIONS**

* Intestine Large, Rectum [ Parasite Metazoan TGLS = 1-7: Adenoma, Pars Distalis ]		Parasite Metazoan	
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Minimal
		Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Mild
[ Fibroadenoma TGLS = 2-11: Fibroadenoma ]			
* Ovary		Cyst	Marked
[ Cyst TGLS = 3-11: Cyst, Marked ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 1-7: Adenoma, Pars Distalis ]			

**PRIMARY CAUSE OF DEATH** - Pituitary Gland Pars Distalis Adenoma

Animal Note: Death May Also Be Due To Asphyxiation Secondary To Food Found Lodged Around Epiglottis At Necropsy.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 165

TRT#: 2

DOSE: 0 MG/KG

SEX: Female

DISP: Natural Death

DAY ON TEST: 708

HISTO: 9500495

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Moderate
		Hypertrophy	Mild
* Bone		Osteopetrosis	Moderate
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Chronic, Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver	Centrilobular, Hepatocyte	Degeneration	Moderate
		Inflammation	Chronic, Minimal
	Centrilobular, Hepatocyte	Necrosis	Moderate
		Vacuolization Cytoplasmic	Moderate
	[ Vacuolization Cytoplasmic TGLS = 4-4+5: Vacuolization, Cytoplasm, Moderate ]		
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Fibroadenoma	
	[ Fibroadenoma TGLS = 1-11: Fibroadenoma ]		
* Ovary		Cyst	Moderate
	[ Cyst TGLS = 3-10: Cyst, Moderate ]		
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
	[ Adenoma TGLS = 5-7: Adenoma, Pars Distalis ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 165

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Natural Death

**DAY ON TEST:** 708  
**HISTO:** 9500495

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Spleen	Hematopoietic Cell Proliferation	Marked
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma	
CONTRIBUTORY CAUSE OF DEATH	- Liver Centrilobular Hepatocyte Degeneration; Liver Centrilobular Hepatocyte Necrosis; Mammary Gland Fibroadenoma	

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 166

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 728

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500496

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

**OBSERVATIONS**

* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Chronic, Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Minimal
		Pigmentation	Hemosiderin, Minimal
* Liver		Vacuolization Cytoplasmic	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Minimal
	[ Fibroadenoma TGLS = 1-11: Fibroadenoma ]		
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
	[ Hyperplasia TGLS = 2-7: Hyperplasia, Pars Distalis, Mild ]		
* Thyroid Gland	C Cell	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 167

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9500497

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

\* Parathyroid Gland

OBSERVATIONS

* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild

[ Adenoma TGLS = 1-7: Adenoma, Pars Distalis ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 168

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500498

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Mild
* Mammary Gland		Hyperplasia	Cystic, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus		Polyp Stromal	

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 169

TRT#: 2

DOSE: 0 MG/KG

SEX: Female

DISP: Natural Death

DAY ON TEST: 717

HISTO: 9500499

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

\* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 2-11: Mononuclear Cell Leukemia ]			
* Adrenal Medulla		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 2-11: Mononuclear Cell Leukemia ]			
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Chronic, Mild
		Leukemia Mononuclear	
		Parasite Metazoan	
* Intestine Large, Colon			
[ Parasite Metazoan TGLS = 2-11: Mononuclear Cell Leukemia ]			
* Kidney		Leukemia Mononuclear	
		Mineralization	Minimal
		Nephropathy	Chronic, Minimal
		Pigmentation	Hemosiderin, Minimal
* Liver		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 3-4+5: Mononuclear Cell Leukemia ]			
* Lung		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 3-4+5: Mononuclear Cell Leukemia ]			
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Ovary		Cyst	Marked
		Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 169	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 717
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 9500499

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Cyst TGLS = 1-10: Cyst, Marked ]  
[ Leukemia Mononuclear TGLS = 1-10: Cyst, Marked ]  
\* Pituitary Gland Pars Distalis Hyperplasia Minimal  
\* Spleen Leukemia Mononuclear  
[ Leukemia Mononuclear TGLS = 2-11: Mononuclear Cell Leukemia ]

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PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 170

TRT#: 2

DOSE: 0 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 729

HISTO: 9500500

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone		Osteopetrosis	Moderate
* Clitoral Gland	Duct	Cyst	Moderate
		Inflammation	Chronic Active, Mild
	[ Cyst TGLS = 5-10: Cyst, Duct, Moderate ]		
* Intestine Large, Cecum		Parasite Metazoan	
	[ Parasite Metazoan TGLS = 4-10: Dysplasia, Marked ]		
* Intestine Large, Rectum		Parasite Metazoan	
	[ Parasite Metazoan TGLS = 4-10: Dysplasia, Marked ]		
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Minimal
	[ Basophilic Focus TGLS = 2-4: Hepatodiaphragmatic Nodule ]		
	[ Hepatodiaphragmatic Nodule TGLS = 2-4: Hepatodiaphragmatic Nodule ]		
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Mild
	[ Fibroadenoma TGLS = 1-11: Fibroadenoma ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 14:36:05

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 170

**TRT#:** 2

**DOSE:** 0 MG/KG

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 729

**HISTO:** 9500500

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Pituitary Gland Pars Distalis  
[ Hyperplasia TGLS = 3-7: Hyperplasia, Pars Distalis, Moderate ]

Hyperplasia

Moderate

\* Uterus  
[ Dysplasia TGLS = 4-10: Dysplasia, Marked ]

Dysplasia

Marked

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 171

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 729  
**HISTO:** 9500501

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Adrenal Cortex		Degeneration Hypertrophy Adenoma	Fatty, Minimal Mild
* Clitoral Gland			
[ Adenoma TGLS = 2-11: Adenoma ]			
* Kidney		Mineralization Nephropathy Pigmentation	Minimal Chronic, Mild Hemosiderin, Minimal
* Liver		Basophilic Focus Inflammation	Chronic, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Mild
* Mammary Gland		Fibroadenoma Hyperplasia	Cystic, Mild
[ Fibroadenoma TGLS = 1-11: Fibroadenoma ]			
* Nose	Respirat Epith Nasolacrim Dct	Hyperplasia Inflammation Inflammation	Moderate Suppurative, Mild Chronic Active, Mild
Note: Slide #09 - Foreign Body (Hair) Associated With Inflammation In Nasal Cavity.			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 3-7: Adenoma, Pars Distalis ]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 172

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 723

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 9500502

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Clitoral Gland		Adenoma	
[ Adenoma TGLS = 3-10: Adenoma ]			
Eye	Lens	Cataract	Mild
[ Cataract TGLS = 1-11: Cataract, Lens, Mild ]			
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Minimal
[ Fibroadenoma TGLS = 4-7: Fibroadenoma ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 2-7: Adenoma, Pars Distalis ]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH** - Pituitary Gland Pars Distalis Adenoma

Animal Note: Death May Also Be Due To Asphyziation Secondary To The Finding Of Food Lodged Ar ound Epiglottis At Necropsy.

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 173

TRT#: 2

DOSE: 0 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 729

HISTO: 9500503

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Mild
		Degeneration	Fatty, Mild
		Hyperplasia	Mild
		Hypertrophy	Mild
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
	[ Cataract TGLS = 1-11: Cataract, Lens, Marked ]		
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Mild
	[ Fibroadenoma TGLS = 2-12: Fibroadenoma ]		
* Nose	Nasolacrim Dct	Inflammation	Suppurative, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
	[ Hyperplasia TGLS = 3-7: Hyperplasia, Pars Distalis, Moderate ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 14:36:05

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 173

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500503

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Thyroid Gland

C Cell

Hyperplasia

Mild

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 174

TRT#: 2

SEX: Female

DAY ON TEST: 680

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 9500504

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	Eye	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

\* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Hypertrophy	Minimal
* Clitoral Gland	Bilateral	Adenoma	
[ Adenoma TGLS = 2-12: Adenoma ]			
Harderian Gland			
Note: TGL#1-11-NCL: Eyes Within Normal Limits Histologically.			
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Minimal
		Pigmentation	Hemosiderin, Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
[ Hyperplasia TGLS = 3-7: Hyperplasia, Pars Distalis, Mild ]			

PRIMARY CAUSE OF DEATH

- UNCERTAIN

Animal Note: Death Probably Due To Asphyxiation Secondary To Food Lodged Around Epiglottis As Documented At Necropsy.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 175

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9500505

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Pituitary Gland
* Salivary Glands	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

\* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Degeneration	Cystic, Moderate
		Fibrosis	Mild
		Hyperplasia	Mild
	[ Degeneration TGLS = 5-7: Degeneration, Cystic, Moderate ]		
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Mild
	[ Pigmentation TGLS = 3-1: Pigment, Hemosiderin, Mild ]		
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Vacuolization Cytoplasmic	Mild
	[ Basophilic Focus TGLS = 4-4: Hepatodiaphragmatic Nodule ]		
	[ Hepatodiaphragmatic Nodule TGLS = 4-4: Hepatodiaphragmatic Nodule ]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Lymph Node	Pigmentation	Hemosiderin, Mild
* Mammary Gland	Mediastinal	Fibroadenoma	
		Hyperplasia	Cystic, Moderate
	[ Fibroadenoma TGLS = 1-11: Fibroadenoma ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 175	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9500505

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Skin	Pinna, Subcut Tiss	Melanoma Malignant	
	[ Melanoma Malignant TGLS = 2-11: Melanoma Mal ]		
* Thyroid Gland	C Cell	Hyperplasia	Minimal

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Test Compound: Coconut oil acid diethanolamine condensate  
 CAS Number: 68603-42-9

Date Report Requested: 10/22/2014  
 Time Report Requested: 14:36:05  
 First Dose M/F: NA / NA  
 Lab: BAT

ANIMAL ID: 176      TRT#: 2      SEX: Female      DAY ON TEST: 729  
 DOSE: 0 MG/KG      DISP: Terminal Sacrifice      HISTO: 9500506

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Mild
		Hypertrophy	Mild
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia	Marked
		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Leukemia Mononuclear	
		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Moderate
[ Pigmentation TGLS = 2-1: Pigment, Hemosiderin, Moderate ]			
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 3-4+5: Mononuclear Cell Leukemia ]			
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Granulomatous, Moderate
		Leukemia Mononuclear	
Lymph Node	Inguinal	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mediastinal	Pigmentation	Hemosiderin, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 176

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500506

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Leukemia Mononuclear TGLS = 4-2: Mononuclear Cell Leukemia ]

\* Lymph Node, Mandibular

Leukemia Mononuclear

\* Lymph Node, Mesenteric

Leukemia Mononuclear

\* Mammary Gland

Hyperplasia

Cystic, Mild

Mesentery

Leukemia Mononuclear

Oral Mucosa

Gingival

Hyperplasia

Squamous, Moderate

\* Pancreas

Acinus

Atrophy

Minimal

\* Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Cyst

Moderate

[ Adenoma TGLS = 5-7: Adenoma, Pars Distalis ]

\* Spleen

Fibrosis

Moderate

Leukemia Mononuclear

[ Leukemia Mononuclear TGLS = 1-1: Mononuclear Cell Leukemia ]

\* Urinary Bladder

Leukemia Mononuclear

[ Leukemia Mononuclear TGLS = 1-1: Mononuclear Cell Leukemia ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 177

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 493

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 9500507

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Blood Vessel	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Cystic, Mild
		Necrosis	Marked
* Adrenal Medulla		Histiocytic Sarcoma	
* Bone Marrow		Hyperplasia	Moderate
* Kidney		Accumulation, Hyaline Droplet	Mild
		Mineralization	Minimal
		Pigmentation	Hemosiderin, Minimal
* Liver		Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 3-4+5: Histo Sarc ]			
* Lung		Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 5-2+3: Histo Sarc ]			
Lymph Node	Mediastinal	Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 4-2: Histo Sarc ]			
* Lymph Node, Mesenteric		Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 7-4: Histo Sarc ]			
* Mammary Gland		Hyperplasia	Cystic, Minimal
* Ovary		Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 2-10: Histo Sarc ]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
[ Hyperplasia TGLS = 6-7: Hyperplasia, Pars Distalis, Mild ]			
Skeletal Muscle		Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 1-11: Histo Sarc ]			
* Skin	Subcut Tiss	Histiocytic Sarcoma	

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 177	<b>TRT#:</b> 2 <b>DOSE:</b> 0 MG/KG	<b>SEX:</b> Female <b>DISP:</b> Natural Death	<b>DAY ON TEST:</b> 493 <b>HISTO:</b> 9500507
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Glandular	Epithelium	Ulcer	Marked
[ Ulcer TGLS = 8-4: Ulcer, Epithelium, Marked ]			
* Thymus		Histiocytic Sarcoma	
PRIMARY CAUSE OF DEATH	- Skeletal Muscle Histiocytic Sarcoma		
CONTRIBUTORY CAUSE OF DEATH	- Adrenal Cortex Necrosis;Adrenal Medulla Histiocytic Sarcoma;Liver Histiocytic Sarcoma;Lung Histiocytic Sarcoma;Lymph Node Mediastinal Histiocytic Sarcoma;Lymph Node;Mesenteric Histiocytic Sarcoma;Ovary Histiocytic Sarcoma;Thymus Histiocytic Sarcoma		

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 178

TRT#: 2

SEX: Female

DAY ON TEST: 728

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9500508

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
		Vacuolization Cytoplasmic	Minimal
* Lung		Inflammation	Chronic Active, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Mild
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
	[ Adenoma TGLS = 1-7: Adenoma, Pars Distalis ]		
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 179

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500509

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Mild
* Clitoral Gland		Inflammation	Chronic Active, Mild
* Heart		Cardiomyopathy	Chronic, Minimal
* Intestine Large, Cecum		Parasite Metazoan	
[ Parasite Metazoan TGLS = 3-7: Carcinoma, Follicular Cell ]			
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
[ Adenoma TGLS = 1-7: Adenoma, Pars Distalis ]			
* Thyroid Gland	Follicular Cel	Carcinoma	
[ Carcinoma TGLS = 3-7: Carcinoma, Follicular Cell ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 14:36:05

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 179

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500509

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Uterus

Note: TGL#2-10-NCL: Uterus Normal Histologically. Dilatation Documented At Necropsy Normal Physiological Change.

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 180

TRT#: 2

SEX: Female

DAY ON TEST: 342

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 9500510

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Kidney		Mineralization	Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: Death Probably Due To Asphyxiation Secondary To Food Found Caked Around Tracheal Opening At Necropsy.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 181

TRT#: 2

DOSE: 0 MG/KG

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 727

HISTO: 9500511

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

\* Thymus

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Bone Marrow		Hyperplasia	Marked
Eye	Lens	Cataract	Mild
	Cornea	Inflammation	Chronic, Mild
	Antr Chamber, Cornea, Iris	Synechia	Marked
	[ Cataract TGLS = 4-11: Cataract, Lens, Mild ]		
	[ Inflammation TGLS = 4-11: Inflammation, Cornea, Chronic, Mild ]		
	[ Synechia TGLS = 4-11: Synechia, Antr Chamber, Iris, Cornea, Marked ]		
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver		Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Hyperplasia	Adenomatous, Moderate
	[ Fibrosis TGLS = 1-12: Fibrosis, Mild ]		
	[ Hyperplasia TGLS = 2-12: Hyperplasia, Hepatocyte, Adenomatous, Moderate ]		
* Lung		Granulosa-Theca Tumor Malignant	Metastatic (Ovary)
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Mild
* Mammary Gland		Hyperplasia	Cystic, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 181	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 727
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9500511

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Ovary [ Granulosa-Theca Tumor Malignant TGLS = 3-10: Granulosa Theca, Malignant ]	Granulosa-Theca Tumor Malignant
* Pituitary Gland [ Adenoma TGLS = 5-7: Adenoma, Pars Distalis ]	Pars Distalis Adenoma

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PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma
CONTRIBUTORY CAUSE OF DEATH	- Ovary Granulosa-Theca Tumor Malignant

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 182

TRT#: 2

SEX: Female

DAY ON TEST: 618

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 9500512

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hypertrophy	Mild
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Mild
	[ Cataract TGLS = 1-12: Cataract, Lens, Mild ]		
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Minimal
		Pigmentation	Hemosiderin, Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Leukemia Mononuclear	
		Necrosis	Mild
		Pigmentation	Hemosiderin, Mild
		Vacuolization Cytoplasmic	Minimal
	[ Leukemia Mononuclear TGLS = 3-5+11: Mononuclear Cell Leukemia ]		
* Lung		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 3-5+11: Mononuclear Cell Leukemia ]		
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Mild
	[ Fibroadenoma TGLS = 2-13: Fibroadenoma ]		

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 182	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 618
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 9500512

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
	[ Hyperplasia TGLS = 4-7: Hyperplasia, Pars Distalis, Mild ]		
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 4-7: Hyperplasia, Pars Distalis, Mild ]		

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**PRIMARY CAUSE OF DEATH** - Spleen Leukemia Mononuclear

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Animal Note: Death May Also Have Been Due To Asphyxiation Secondary To Food Lodged Near Tracheal Opening As Documented At Necropsy.

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 183

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9500513

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Clitoral Gland		Adenoma	
		Carcinoma	
	[ Adenoma TGLS = 1-10: Adenoma ]		
	[ Carcinoma TGLS = 1-10: Carcinoma ]		
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney	Renal Tubule	Hyperplasia	Mild
		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
	[ Adenoma TGLS = 3-7: Adenoma, Pars Distalis ]		
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Mild
	SOA	Inflammation	Chronic Active, Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 14:36:05

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 183

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500513

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Epidermis, SOA

Ulcer

Marked

[ Ulcer TGLS = 2-11: Ulcer, Epidermis, Skin Soa, Marked ]

\* Thyroid Gland

C Cell

Adenoma

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 184

TRT#: 2

SEX: Female

DAY ON TEST: 606

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 9500514

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Minimal
		Pigmentation	Hemosiderin, Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Mild
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Mild
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pancreas	Acinus	Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	

[ Adenoma TGLS = 1-7: Adenoma, Pars Distalis ]

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 185

TRT#: 2

SEX: Female

DAY ON TEST: 728

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9500515

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Ovary	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Minimal
	[ Basophilic Focus TGLS = 3-4: Hepatodiaphragmatic Nodule ]		
	[ Hepatodiaphragmatic Nodule TGLS = 3-4: Hepatodiaphragmatic Nodule ]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Mild
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Mild
	[ Fibroadenoma TGLS = 1-11: Fibroadenoma ]		
* Pancreas	Acinus	Atrophy	Minimal
* Parathyroid Gland		Adenoma	
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 185

**TRT#:** 2  
**DOSE:** 0 MG/KG

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 728  
**HISTO:** 9500515

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Adenoma TGLS = 2-7: Adenoma, Pars Distalis ]

\* Thyroid Gland

C Cell

Hyperplasia

Mild

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PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 186

TRT#: 2

DOSE: 0 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 729

HISTO: 9500516

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Degeneration Leukemia Mononuclear	Fatty, Marked
[ Leukemia Mononuclear TGLS = 3-1: Necrosis, Marked ]			
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia	Marked
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear Mineralization Nephropathy Pigmentation	Minimal Chronic, Mild Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia Leukemia Mononuclear	Mild
[ Leukemia Mononuclear TGLS = 4,5-4+5+11: Mononuclear Cell Leukemia ]			
* Lung	Alveolus	Infiltration Cellular Leukemia Mononuclear	Histiocyte, Minimal
[ Leukemia Mononuclear TGLS = 4,5-4+5+11: Mononuclear Cell Leukemia ]			
Lymph Node	Mediastinal Mediastinal	Leukemia Mononuclear Pigmentation	Hemosiderin, Minimal
* Lymph Node, Mandibular		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 3-1: Necrosis, Marked ]			
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pituitary Gland	Pars Distalis	Cyst	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 186	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9500516

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Pars Distalis [ Hyperplasia TGLS = 6-7: Hyperplasia, Pars Distalis, Mild ]	Hyperplasia	Mild
* Spleen [ Leukemia Mononuclear TGLS = 1,2-1+11: Mononuclear Cell Leukemia ] [ Necrosis TGLS = 3-1: Necrosis, Marked ]	Leukemia Mononuclear Necrosis	Marked
* Stomach, Forestomach Epithelium Epithelium [ Ulcer TGLS = 7,8-4+11: Ulcer, Epithelium, Marked ]	Hyperplasia Inflammation Ulcer	Moderate Chronic Active, Moderate Marked

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 187

TRT#: 2

SEX: Female

DAY ON TEST: 552

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 9500517

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Brain		Hemorrhage	Moderate
[ Hemorrhage TGLS = 2-6: Hemorrhage, Moderate ]			
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Minimal
		Pigmentation	Hemosiderin, Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Mild
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pancreas	Acinus	Atrophy	Marked
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 1-7: Adenoma, Pars Distalis ]			

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014  
Time Report Requested: 14:36:05  
First Dose M/F: NA / NA  
Lab: BAT

ANIMAL ID: 188

TRT#: 2

DOSE: 0 MG/KG

SEX: Female

DISP: Natural Death

DAY ON TEST: 697

HISTO: 9500518

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Pancreas	* Parathyroid Gland
* Skin	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Marked
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Atrophy	Marked
		Hyperplasia	Marked
		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Intestine Small, Duodenum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver	Centrilobular, Hepatocyte	Degeneration	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Serosa	Necrosis	Fibrinoid, Moderate
		Vacuolization Cytoplasmic	Moderate
	[ Necrosis TGLS = 2-4+5: Necrosis, Fibrinoid, Serosa, Moderate ]		
* Lung	Mediastinum	Leukemia Mononuclear	
		Leukemia Mononuclear	
	Mediastinum	Necrosis	Moderate

Note: Necrosis Involves Mediastinal Fat Surrounding Esophagus.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 14:36:05

**First Dose M/F:** NA / NA

**Lab:** BAT

**ANIMAL ID:** 188

**TRT#:** 2

**DOSE:** 0 MG/KG

**SEX:** Female

**DISP:** Natural Death

**DAY ON TEST:** 697

**HISTO:** 9500518

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Necrosis TGLS = 4-11: Necrosis, Mediastinum, Moderate ]

Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Cystic, Moderate
Mesentery		Leukemia Mononuclear	
	Fat	Necrosis	Marked

[ Necrosis TGLS = 3-11: Necrosis, Fat, Marked ]

* Nose	Septum, Turbinate, Vein	Thrombosis	Marked
* Ovary		Leukemia Mononuclear	

[ Leukemia Mononuclear TGLS = 3-11: Necrosis, Fat, Marked ]

* Pituitary Gland	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Moderate
		Leukemia Mononuclear	

[ Hyperplasia TGLS = 5-7: Hyperplasia, Pars Distalis, Moderate ]

* Salivary Glands		Leukemia Mononuclear	
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[ Leukemia Mononuclear TGLS = 5-7: Hyperplasia, Pars Distalis, Moderate ]

* Spleen		Leukemia Mononuclear	
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[ Leukemia Mononuclear TGLS = 5-7: Hyperplasia, Pars Distalis, Moderate ]

* Stomach, Forestomach		Leukemia Mononuclear	
* Stomach, Glandular		Leukemia Mononuclear	
* Uterus		Leukemia Mononuclear	

[ Leukemia Mononuclear TGLS = 6-11: Mononuclear Cell Leukemia ]

**PRIMARY CAUSE OF DEATH** - Spleen Leukemia Mononuclear

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 189

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9500519

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Mild
		[ Fibroadenoma TGLS = 1-11: Fibroadenoma ]	
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		[ Adenoma TGLS = 2-7: Adenoma, Pars Distalis ]	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 190

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500520

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Clitoral Gland		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Chronic, Minimal
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Moderate
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Mild
* Mammary Gland		Hyperplasia	Cystic, Minimal
* Nose	Nasolacrim Dct	Inflammation	Suppurative, Mild
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 2-7: Adenoma, Pars Distalis ]		
* Thyroid Gland	C Cell	Carcinoma	
	C Cell	Hyperplasia	Minimal
	[ Carcinoma TGLS = 3-7: Carcinoma, C Cell ]		
* Uterus		Polyp Stromal	
	[ Polyp Stromal TGLS = 1-10: Stromal Polyp ]		

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014  
Time Report Requested: 14:36:05  
First Dose M/F: NA / NA  
Lab: BAT

ANIMAL ID: 191

TRT#: 2

DOSE: 0 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 729

HISTO: 9500521

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

\* Parathyroid Gland

OBSERVATIONS

* Kidney		Mineralization Nephropathy Pigmentation	Minimal Chronic, Minimal Hemosiderin, Moderate
* Liver	Bile Duct	Basophilic Focus Hyperplasia Inflammation	Minimal Chronic, Minimal
* Lung	Alveolus	Mixed Cell Focus Infiltration Cellular Inflammation	Histiocyte, Mild Chronic Active, Mild
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Fibroadenoma Hyperplasia	Cystic, Mild
	[ Fibroadenoma TGLS = 1-11: Fibroadenoma ]		
* Ovary		Cyst	Mild
	[ Cyst TGLS = 3-10: Cyst, Mild ]		
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
	[ Adenoma TGLS = 2-7: Adenoma ]		
* Thyroid Gland	C Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 191

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500521

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 192

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 728

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500522

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Mild
* Clitoral Gland		Inflammation	Chronic Active, Moderate
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
* Mammary Gland		Hyperplasia	Cystic, Moderate
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Moderate
	[ Hyperplasia TGLS = 1-7: Hyperplasia, Pars Distalis, Moderate ]		
* Uterus		Polyp Stromal	
	[ Polyp Stromal TGLS = 1-7: Hyperplasia, Pars Distalis, Moderate ]		

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 193

TRT#: 2

SEX: Female

DAY ON TEST: 669

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500523

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Marked
* Clitoral Gland	Bilateral	Carcinoma	
	[ Carcinoma TGLS = 1-11 + 5-10: Carcinoma ]		
* Kidney		Accumulation, Hyaline Droplet	Moderate
		Leukemia Mononuclear	
		Mineralization	Minimal
		Nephropathy	Chronic, Minimal
		Pigmentation	Hemosiderin, Minimal
	[ Leukemia Mononuclear TGLS = 1-11 + 5-10: Carcinoma ]		
* Liver		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 4-4+5: Mononuclear Cell Leukemia ]		
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 4-4+5: Mononuclear Cell Leukemia ]		
Lymph Node	Inguinal	Ectasia	Mild
		Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Cystic, Mild

Note: TGL#1-11: Inguinal Mammary Gland Mass, Documented At Necropsy, Is Clitoral Gland Adenoma Histologically.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 193	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 669
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9500523

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Fibroadenoma TGLS = 2,3-12+13: Fibroadenoma, Multiple ]

* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Intermed	Cyst	Minimal
	Pars Distalis	Hyperplasia	Minimal
* Spleen		Leukemia Mononuclear	

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PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH	- Clitoral Gland Bilateral Carcinoma;Kidney Leukemia Mononuclear;Mammary Gland Fibroadenoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 194

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 639

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500524

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Minimal
* Bone	Femur	Osteosarcoma	
	[ Osteosarcoma TGLS = 4-13+14: Osteosarcoma, Femur ]		
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Minimal
		Pigmentation	Hemosiderin, Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Lung		Osteosarcoma	Metastatic (Bone)
	[ Osteosarcoma TGLS = 2-2+3: Metastatic Osteosarcoma, Bone ]		
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
	[ Adenoma TGLS = 3-7: Adenoma, Pars Distalis ]		
Skeletal Muscle		Osteosarcoma	Metastatic (Bone)
	[ Osteosarcoma TGLS = 1-11+12: Metastatic Osteosarcoma, Bone ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 14:36:05

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 194

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 639

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500524

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Bone Femur Osteosarcoma

CONTRIBUTORY CAUSE OF DEATH

- Lung Osteosarcoma Bone;Pituitary Gland Pars Distalis Adenoma;Skeletal Muscle Osteosarcoma Bone

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 195

TRT#: 2

DOSE: 0 MG/KG

SEX: Female

DISP: Natural Death

DAY ON TEST: 585

HISTO: 9500525

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Thymus

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Degeneration	Cystic, Minimal
		Hyperplasia	Mild
		Hypertrophy	Mild
* Heart		Cardiomyopathy	Chronic, Minimal
* Kidney		Mineralization	Minimal
		Pigmentation	Hemosiderin, Minimal
* Liver		Inflammation	Chronic, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Minimal
	SOA	Inflammation	Chronic Active, Moderate
	Epidermis, SOA	Parakeratosis	Minimal
	Epidermis, SOA	Ulcer	Minimal
	[ Ulcer TGLS = 1-11: Ulcer, Epidermis, Skin Soa ]		
* Uterus		Polyp Stromal	
	[ Polyp Stromal TGLS = 1-11: Ulcer, Epidermis, Skin Soa ]		

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 14:36:05

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 195

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 585

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 9500525

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Animal Note: Death Probably Due To Asphyxiation Secondary To Food Lodged Near Tracheal Opening As Documented At Necropsy.

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 196

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500526

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Ovary
* Salivary Glands	* Skin	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Moderate
* Bone Marrow		Hyperplasia	Moderate
* Clitoral Gland		Adenoma	
	Duct	Cyst	Moderate
		Inflammation	Chronic Active, Moderate
	[ Adenoma TGLS = 3-10: Adenoma ]		
* Heart		Cardiomyopathy	Chronic, Mild
		Leukemia Mononuclear	
		Mineralization	Minimal
* Kidney	Renal Tubule	Hyperplasia	Mild
		Leukemia Mononuclear	
		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Mild
* Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Minimal
	[ Leukemia Mononuclear TGLS = 2-4+5: Mononuclear Cell Leukemia ]		
* Lung		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 2-4+5: Mononuclear Cell Leukemia ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 196	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9500526

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 4-7: Adenoma, Pars Distalis ]		
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 1-1: Mononuclear Cell Leukemia ]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 197

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 636

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 9500527

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Mild
* Clitoral Gland		Hyperplasia	Mild
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Moderate
	[ Cataract TGLS = 1-11: Cataract, Lens, Moderate ]		
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
		Vacuolization Cytoplasmic	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Minimal
* Ovary		Cyst	Moderate
	[ Cyst TGLS = 2-10: Cyst, Moderate ]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 3-7: Adenoma, Pars Distalis ]		

**PRIMARY CAUSE OF DEATH** - Pituitary Gland Pars Distalis Adenoma

Animal Note: Death May Also Have Been Due To Asphyxiation Secondary To Food Lodged Near Tracheal Opening As Documented At Necropsy.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 197

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 636

**DOSE:** 0 MG/KG

**DISP:** Natural Death

**HISTO:** 9500527

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 198

TRT#: 2

SEX: Female

DAY ON TEST: 728

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9500528

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Clitoral Gland		Adenoma	
* Heart		Cardiomyopathy	Chronic, Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Minimal
		Pigmentation	Hemosiderin, Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
	[ Basophilic Focus TGLS = 2-5: Hepatodiaphragmatic Nodule ]		
	[ Hepatodiaphragmatic Nodule TGLS = 2-5: Hepatodiaphragmatic Nodule ]		
	[ Leukemia Mononuclear TGLS = 2-5: Hepatodiaphragmatic Nodule ]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Mild
	[ Fibroadenoma TGLS = 1-11: Fibroadenoma ]		
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
* Spleen		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 14:36:05

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 198

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 728

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500528

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 199

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9500529

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Ovary
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

\* Parathyroid Gland

OBSERVATIONS

* Kidney		Cyst	Mild
		Mineralization	Mild
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Mild
[ Cyst TGLS = 2-1: Cyst, Mild ]			
* Liver	Bile Duct	Basophilic Focus	Minimal
		Hyperplasia	Chronic, Minimal
		Inflammation	Mild
		Vacuolization Cytoplasmic	
[ Basophilic Focus TGLS = 2-1: Cyst, Mild ]			
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
[ Fibroadenoma TGLS = 1-11: Fibroadenoma ]			
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
[ Hyperplasia TGLS = 3-7: Hyperplasia, Pars Distalis, Mild ]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 14:36:05

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 199

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500529

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 200

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 9500530

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Mild
* Heart		Cardiomyopathy	Chronic, Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate

[ Adenoma TGLS = 1-7: Adenoma ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 201

TRT#: 4

SEX: Female

DAY ON TEST: 722

DOSE: 50 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500531

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Intestine Large, Colon		Parasite Metazoan	
* Kidney	Renal Tubule	Hyperplasia	Marked
		Mineralization	Minimal
		Nephropathy	Chronic, Mild
	[ Nephropathy TGLS = 4-1: Nephropathy, Chronic, Mild ]		
* Liver		Inflammation	Chronic, Mild
		Mixed Cell Focus	
	[ Mixed Cell Focus TGLS = 3-4+5: Mixed cell Focus ]		
* Lung		Inflammation	Chronic Active, Minimal
	[ Inflammation TGLS = 6-12: Inflammation, Chronic Active, Minimal ]		
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Mild
	[ Fibroadenoma TGLS = 1-11: Fibroadenoma ]		
* Ovary		Cyst	Mild
	[ Cyst TGLS = 2-10: Cyst, Mild ]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 5-7: Adenoma, Pars Distalis ]		
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
	Epidermis, SOA	Parakeratosis	Mild

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 55312-03

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 14:36:05

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 201

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 722

**DOSE:** 50 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500531

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 202

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 728

**DOSE:** 50 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500532

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**OBSERVATIONS**

* Bone Marrow		Hyperplasia	Marked
* Clitoral Gland	Bilateral	Carcinoma	
[ Carcinoma TGLS = 1-11: Carcinoma ]			
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Minimal
		Pigmentation	Hemosiderin, Minimal
* Liver		Basophilic Focus	
		Hematopoietic Cell Proliferation	Mild
		Inflammation	Chronic, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Cyst	Marked
		Fibroadenoma	Multiple
		Hyperplasia	Cystic, Mild
[ Cyst TGLS = 2-12: Cyst, Marked ]			
[ Fibroadenoma TGLS = 2,3,4-12+13+11: Fibroadenoma, Multiple ]			
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Mild
[ Cyst TGLS = 5-7: Cyst, Pars Distalis, Moderate ]			
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 14:36:05

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 202

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 728

**DOSE:** 50 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500532

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Spleen

Hematopoietic Cell Proliferation

Moderate

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014  
Time Report Requested: 14:36:05  
First Dose M/F: NA / NA  
Lab: BAT

ANIMAL ID: 203

TRT#: 4

DOSE: 50 MG/KG

SEX: Female

DISP: Natural Death

DAY ON TEST: 390

HISTO: 9500533

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Minimal
		Pigmentation	Hemosiderin, Minimal
* Liver		Inflammation	Chronic, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

- UNCERTAIN

Animal Note: Death Probably Due To Asphyxiation Secondary To Food In Tracheal Opening As Documented At Necropsy.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 204

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 50 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500534

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Uterus			

**OBSERVATIONS**

* Clitoral Gland		Carcinoma	
[ Carcinoma TGLS = 1-10: Carcinoma ]			
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Mild
[ Basophilic Focus TGLS = 4-4: Hepatodiaphragmatic Nodule ]			
[ Hepatodiaphragmatic Nodule TGLS = 4-4: Hepatodiaphragmatic Nodule ]			
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Mild
[ Inflammation TGLS = 2-2: Inflammation, Chronic-Active, Mild ]			
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
[ Adenoma TGLS = 3-7: Adenoma, Pars Distalis ]			
* Skin	Epidermis, SOA	Hyperkeratosis	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 204

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 50 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500534

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Epidermis, SOA

Hyperplasia

Mild

SOA, Sebaceous GI

Hyperplasia

Mild

Epidermis, SOA

Parakeratosis

Minimal

\* Urinary Bladder

Transit Epithe

Hyperplasia

Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 205

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 637

**DOSE:** 50 MG/KG

**DISP:** Natural Death

**HISTO:** 9500535

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Mild
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
	[ Hyperplasia TGLS = 2,3-7: Hyperplasia, Pars Distalis, Mild ]		
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
* Uterus			

Note: TGL#1-11-NCL: Uterus Normal Histologically.

**PRIMARY CAUSE OF DEATH**

- UNCERTAIN

Animal Note: Death Was Probably Due To Asphyxiation Secondary To Food Lodged In Tracheal Open ing As Documented At Necropsy.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 206      **TRT#:** 4      **SEX:** Female      **DAY ON TEST:** 728  
**DOSE:** 50 MG/KG      **DISP:** Terminal Sacrifice      **HISTO:** 9500536

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Parathyroid Gland	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**OBSERVATIONS**

* Intestine Large, Colon		Parasite Metazoan	
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Minimal
	[ Basophilic Focus TGLS = 3-4: Hepatodiaphragmatic Nodule ]		
	[ Hepatodiaphragmatic Nodule TGLS = 3-4: Hepatodiaphragmatic Nodule ]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Cyst	Marked
		Fibroadenoma	
	[ Cyst TGLS = 1-11: Cyst, Marked ]		
	[ Fibroadenoma TGLS = 1-11: Fibroadenoma ]		
* Ovary		Cyst	Mild
	[ Cyst TGLS = 2-10: Cyst, Mild ]		
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Mild

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 206

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 728

**DOSE:** 50 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500536

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Epidermis, SOA

Hyperplasia

Mild

SOA, Sebaceous GI

Hyperplasia

Mild

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 207

TRT#: 4

SEX: Female

DAY ON TEST: 578

DOSE: 50 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500537

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 6-4: Mononuclear Cell Leukemia ]			
* Adrenal Medulla		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 6-4: Mononuclear Cell Leukemia ]			
* Bone Marrow		Hyperplasia	Marked
		Leukemia Mononuclear	
* Clitoral Gland		Adenoma	
* Heart		Cardiomyopathy	Chronic, Mild
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Moderate
[ Leukemia Mononuclear TGLS = 2-1: Mononuclear Cell Leukemia ]			
[ Nephropathy TGLS = 2-1: Nephropathy, Chronic, Mild ]			
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 3-4+5: Mononuclear Cell Leukemia ]			
* Lung		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 3-4+5: Mononuclear Cell Leukemia ]			
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Lymph Node, Mandibular		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 6-4: Mononuclear Cell Leukemia ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 207	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 578
	<b>DOSE:</b> 50 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9500537

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Lymph Node, Mesenteric [ Leukemia Mononuclear TGLS = 6-4: Mononuclear Cell Leukemia ]		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Cystic, Mild
* Ovary		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
[ Adenoma TGLS = 5-7: Adenoma, Pars Distalis ]			
[ Leukemia Mononuclear TGLS = 5-7: Adenoma, Pars Distalis ]			
* Skin		Cyst Epithelial Inclusion	
	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 1-11: Mononuclear Cell Leukemia ]			
* Thymus		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 1-11: Mononuclear Cell Leukemia ]			

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<b>PRIMARY CAUSE OF DEATH</b>	- Thymus	Leukemia Mononuclear
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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 208

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 533

**DOSE:** 50 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500538

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Blood Vessel	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia	Marked
* Kidney		Leukemia Mononuclear	
		Mineralization	Minimal
		Nephropathy	Chronic, Minimal
		Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		[ Leukemia Mononuclear TGLS = 2-4+5: Mononuclear Cell Leukemia ]	
* Lung		Leukemia Mononuclear	
		[ Leukemia Mononuclear TGLS = 2-4+5: Mononuclear Cell Leukemia ]	
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
Oral Mucosa	Pharyngeal	Hyperplasia	Squamous, Marked
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Cyst	Moderate
		[ Cyst TGLS = 3-7: Cyst, Pars Distalis, Moderate ]	
* Spleen		Leukemia Mononuclear	
		[ Leukemia Mononuclear TGLS = 1-1: Mononuclear Cell Leukemia ]	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 208	<b>TRT#:</b> 4 <b>DOSE:</b> 50 MG/KG	<b>SEX:</b> Female <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 533 <b>HISTO:</b> 9500538
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Stomach, Forestomach		Inflammation	Chronic Active, Moderate
		Mineralization	Moderate
	Epithelium	Ulcer	Marked
[ Ulcer TGLS = 4-11: Ulcer, Epithelium, Marked ]			

---

PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH	- Stomach;Forestomach Epithelium Ulcer

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 209

TRT#: 4

SEX: Female

DAY ON TEST: 689

DOSE: 50 MG/KG

DISP: Natural Death

HISTO: 9500539

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
	[ Adenoma TGLS = 2-7: Adenoma, Pars Distalis ]		
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
* Uterus		Polyp Stromal	
	[ Polyp Stromal TGLS = 1-11: Stromal Polyp ]		

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Animal Note: Death Possibly Also Due To Asphyxiation Secondary To Food Lodged At Epiglottis A s Documented At Necropsy.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 210

TRT#: 4

SEX: Female

DAY ON TEST: 514

DOSE: 50 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500540

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

\* Pituitary Gland

OBSERVATIONS

* Adrenal Cortex		Atrophy	Mild
Note: Only One Adrenal Gland Available For Histological Exam.			
* Intestine Small, Ileum		Inflammation	Chronic Active, Mild
[ Inflammation TGLS = 4-5: Inflammation, Chronic-Active, Mild ]			
* Intestine Small, Jejunum		Inflammation	Chronic Active, Mild
[ Inflammation TGLS = 3-11: Inflammation, Chronic-Active, Mild ]			
* Kidney		Mineralization	Minimal
		Pigmentation	Hemosiderin, Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic, Mild
[ Hepatodiaphragmatic Nodule TGLS = 1-5: Hepatodiaphragmatic Nodule ]			
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Intestine Small, Ileum Inflammation  
CONTRIBUTORY CAUSE OF DEATH - Intestine Small;Jejunum Inflammation

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 14:36:05

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 210

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 514

**DOSE:** 50 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500540

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 211

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 50 MG/KG

DISP: Terminal Sacrifice

HISTO: 9500541

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Bone		Osteopetrosis	Moderate
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pituitary Gland	Pars Intermed	Adenoma	
	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
	[ Adenoma TGLS = 1-7: Adenoma, Pars Intermedia ]		
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
	Epidermis, SOA	Parakeratosis	Minimal
* Spleen		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 212

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 50 MG/KG

DISP: Terminal Sacrifice

HISTO: 9500542

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Parathyroid Gland
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Degeneration	Cystic, Minimal
		Hyperplasia	Minimal
		Hypertrophy	Mild
		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 3,5-2+11+12: Mononuclear Cell Leukemia ]			
* Adrenal Medulla		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Bone Marrow		Hyperplasia	Marked
		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Clitoral Gland		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Kidney	Renal Tubule	Hyperplasia	Minimal
		Leukemia Mononuclear	
		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Mild
[ Leukemia Mononuclear TGLS = 4-1: Mononuclear Cell Leukemia ]			
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Mild
[ Leukemia Mononuclear TGLS = 1-4+5: Mononuclear Cell Leukemia ]			
* Lung		Leukemia Mononuclear	

Note: TGL #5: Mediastinal Mass, Documented At Necropsy, Is Mononuclear Cell Leukemia Involving Thymus And Mediastinal Lymph Nodes.

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 212

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 50 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500542

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Uterus

Leukemia Mononuclear

[ Leukemia Mononuclear TGLS = 3,5-2+11+12: Mononuclear Cell Leukemia ]

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 213

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 533

**DOSE:** 50 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500543

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Ovary	* Parathyroid Gland
* Spleen	* Trachea	* Uterus	

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
	Capsule	Lymphoma Malignant	
* Heart		Lymphoma Malignant	
* Kidney		Lymphoma Malignant	
		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver		Vacuolization Cytoplasmic	Mild
* Lung		Lymphoma Malignant	
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Mammary Gland		Hyperplasia	Cystic, Mild
Mesentery		Lymphoma Malignant	
* Nose	Nasolacrim Dct	Inflammation	Suppurative, Mild
* Pancreas		Lymphoma Malignant	
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
* Salivary Glands		Lymphoma Malignant	
Skeletal Muscle		Lymphoma Malignant	
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Subcut Tiss	Lymphoma Malignant	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 213	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 533
	<b>DOSE:</b> 50 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9500543

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
	Epithelium	Lymphoma Malignant	
	[ Ulcer TGLS = 2-11: Ulcer, Epithelium, Marked ]	Ulcer	Marked
* Stomach, Glandular		Lymphoma Malignant	
	[ Lymphoma Malignant TGLS = 2-11: Ulcer, Epithelium, Marked ]		
* Thymus		Lymphoma Malignant	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder		Lymphoma Malignant	

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PRIMARY CAUSE OF DEATH	- Lung Lymphoma Malignant
CONTRIBUTORY CAUSE OF DEATH	- Stomach;Forestomach Epithelium Ulcer;Stomach;Glandular Lymphoma Malignant

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 214

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 728

**DOSE:** 50 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500544

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Mild
* Liver		Hepatodiaphragmatic Nodule	
	Hepatocyte	Hyperplasia	Adenomatous, Marked
		Vacuolization Cytoplasmic	Mild

Note: TGL#1-5: Surface or Capsular Deformity Observed But Hepatocytes Considered To Be Within Normal Limits Histologically Resulting In A Diagnosis Of HDN.

[ Hepatodiaphragmatic Nodule TGLS = 1-5: Hepatodiaphragmatic Nodule ]

[ Hyperplasia TGLS = 2-11: Hyperplasia,Hepatocyte,Adenomatous,Marked ]

* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
	Epidermis, SOA	Parakeratosis	Minimal
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 215

TRT#: 4

SEX: Female

DAY ON TEST: 382

DOSE: 50 MG/KG

DISP: Natural Death

HISTO: 9500545

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

\* Intestine Small, Ileum

OBSERVATIONS

* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Minimal
		Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 1-7: Adenoma, Pars Distalis ]		
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Animal Note: Death May Also Have Been Due To Asphyxiation Secondary To Food Lodged Near Tracheal Opening As Documented At Necropsy.

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 216

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 692

**DOSE:** 50 MG/KG

**DISP:** Natural Death

**HISTO:** 9500546

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Mild
* Clitoral Gland		Inflammation	Chronic Active, Moderate
* Kidney		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 1-7: Adenoma, Pars Distalis ]		
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Mild

**PRIMARY CAUSE OF DEATH**

- Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 217

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 728

**DOSE:** 50 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500547

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Bone Marrow		Hyperplasia	Moderate
* Clitoral Gland		Carcinoma	
		Inflammation	Chronic Active, Moderate
[ Carcinoma TGLS = 2-13: Carcinoma ]			
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
[ Cataract TGLS = 1-11: Cataract, Lens, Marked ]			
* Kidney	Renal Tubule	Hyperplasia	Marked
		Mineralization	Minimal
		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Minimal
[ Nephropathy TGLS = 5-1: Nephropathy, Chronic, Moderate ]			
* Liver		Hepatodiaphragmatic Nodule	
[ Hepatodiaphragmatic Nodule TGLS = 3-11: Hepatodiaphragmatic Nodule ]			
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Ovary		Cyst	Marked
[ Cyst TGLS = 6-12: Cyst, Marked ]			
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
[ Adenoma TGLS = 8-7: Adenoma, Pars Distalis ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 217	<b>TRT#:</b> 4 <b>DOSE:</b> 50 MG/KG	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 728 <b>HISTO:</b> 9500547
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Skin	Epidermis, SOA Epidermis, SOA SOA, Sebaceous Gl	Hyperkeratosis Hyperplasia Hyperplasia	Mild Mild Mild
* Stomach, Forestomach	Epithelium	Hyperplasia Inflammation	Mild Chronic Active, Mild
* Thyroid Gland	C Cell Follicular Cel	Carcinoma Carcinoma	
	[ Carcinoma TGLS = 4-7: Carcinoma, Follicular Cell ] [ Carcinoma TGLS = 4-7: Carcinoma, C Cell ]		
* Uterus		Leiomyosarcoma Polyp Stromal	
	[ Leiomyosarcoma TGLS = 7-12: Stromal Polyp ] [ Polyp Stromal TGLS = 7-12: Stromal Polyp ]		

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 218

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 50 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500548

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Clitoral Gland		Adenoma	
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Mild
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Minimal
	[ Basophilic Focus TGLS = 5-11: Basophilic Focus ]		
	[ Hepatodiaphragmatic Nodule TGLS = 4-4: Hepatodiaphragmatic Nodule ]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
* Mammary Gland		Carcinoma	
		Fibroadenoma	
		Hyperplasia	Cystic, Mild
	[ Carcinoma TGLS = 2-11: Carcinoma ]		
	[ Fibroadenoma TGLS = 1-12: Fibroadenoma ]		
* Pituitary Gland	Pars Distalis	Cyst	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 218	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 50 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9500548

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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	Pars Distalis	Hyperplasia	Mild
	[ Hyperplasia TGLS = 3-7: Hyperplasia, Pars Distalis, Mild ]		
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 219

TRT#: 4

SEX: Female

DAY ON TEST: 476

DOSE: 50 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500549

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 1-7: Adenoma, Pars Distalis ]		
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 220

TRT#: 4

SEX: Female

DAY ON TEST: 689

DOSE: 50 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500550

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

\* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Mild
* Clitoral Gland		Inflammation	Chronic Active, Mild
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Minimal
* Liver		Vacuolization Cytoplasmic	Minimal
Note: TGL#2-5+11-NCL: Red Cysts, Documented At Necropsy, Not Apparent Histologically.			
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Mild
[ Fibroadenoma TGLS = 1-12: Fibroadenoma ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 3-7: Adenoma, Pars Distalis ]			
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma  
CONTRIBUTORY CAUSE OF DEATH - Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 14:36:05

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 220

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 689

**DOSE:** 50 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500550

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 221

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 50 MG/KG

DISP: Terminal Sacrifice

HISTO: 9500551

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Adenoma	
		Degeneration	Cystic, Moderate
* Heart		Cardiomyopathy	Chronic, Minimal
* Kidney	Renal Tubule	Hyperplasia	Mild
		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Minimal
	[ Adenoma TGLS = 1-7: Adenoma, Pars Distalis ]		
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 222

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 728

**DOSE:** 50 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500552

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

**OBSERVATIONS**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Degeneration	Cystic, Moderate
		Hypertrophy	Moderate
* Bone Marrow		Hyperplasia	Moderate
* Clitoral Gland	Bilateral	Carcinoma	
	[ Carcinoma TGLS = 2-12: Carcinoma ]		
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Mild
* Liver		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
	[ Fibroadenoma TGLS = 1-11: Fibroadenoma ]	Hyperplasia	Cystic, Mild
* Nose	Respirat Epith	Hyperplasia	Moderate
		Inflammation	Chronic Active, Moderate
	Note: Slide #09 - Fungal Cluster Associated With Inflammation In Nasal Cavity.		
* Ovary		Cyst	Mild
	[ Cyst TGLS = 3-10: Cyst, Mild ]		
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
* Skin	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 222

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 728

**DOSE:** 50 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500552

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Spleen

Leukemia Mononuclear

[ Leukemia Mononuclear TGLS = 4-1: Mononuclear Cell Leukemia ]

\* Thyroid Gland

C Cell

Hyperplasia

Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014  
Time Report Requested: 14:36:05  
First Dose M/F: NA / NA  
Lab: BAT

ANIMAL ID: 223

TRT#: 4

DOSE: 50 MG/KG

SEX: Female

DISP: Natural Death

DAY ON TEST: 271

HISTO: 9500553

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Kidney		Mineralization	Mild
* Liver		Inflammation	Chronic, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 224

TRT#: 4

SEX: Female

DAY ON TEST: 225

DOSE: 50 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500554

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Clitoral Gland		Inflammation	Chronic Active, Mild
* Int Lg Cecum			
Note: TGL#1-5-NCL: Cecum Normal Histologically.			
* Kidney		Mineralization	Minimal
* Nose	Respirat Epith	Hyperplasia	Moderate
		Inflammation	Chronic Active, Moderate
	Respirat Epith	Metaplasia	Squamous, Moderate
Note: Slide #09 - Fungal Cluster Associated With Inflammation In Nasal Cavity.			
* Pituitary Gland	Pars Distalis	Cyst	Minimal
	Pars Intermed	Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 225

TRT#: 4

SEX: Female

DAY ON TEST: 578

DOSE: 50 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500555

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Clitoral Gland		Carcinoma	
[ Carcinoma TGLS = 4-10: Carcinoma ]			
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Minimal
		Pigmentation	Hemosiderin, Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hepatodiaphragmatic Nodule	
		Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Mixed Cell Focus	
[ Basophilic Focus TGLS = 3-4: Basophilic Focus ]			
[ Hepatodiaphragmatic Nodule TGLS = 2-5: Hepatodiaphragmatic Nodule ]			
[ Mixed Cell Focus TGLS = 3-4: Mixed Cell Focus ]			
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Minimal
[ Fibroadenoma TGLS = 1-11: Fibroadenoma ]			
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 225	<b>TRT#:</b> 4 <b>DOSE:</b> 50 MG/KG	<b>SEX:</b> Female <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 578 <b>HISTO:</b> 9500555
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
	Epidermis, SOA	Parakeratosis	Minimal

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**PRIMARY CAUSE OF DEATH** - Mammary Gland Fibroadenoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 226

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 585

**DOSE:** 50 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500556

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**OBSERVATIONS**

* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Lung	Alveolar Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
	[ Hyperplasia TGLS = 1-3: Hyperplasia, Alveolar Epithelium, Mild ]		
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 2-7: Adenoma, Pars Distalis ]		
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
	Epidermis, SOA	Parakeratosis	Minimal

**PRIMARY CAUSE OF DEATH**

- Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 227

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 50 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500557

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Mild
* Heart		Cardiomyopathy	Chronic, Minimal
* Kidney		Leukemia Mononuclear	
		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver		Inflammation	Chronic, Mild
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
	[ Hyperplasia TGLS = 1-7: Hyperplasia, Pars Distalis, Mild ]		
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
	Epidermis, SOA	Parakeratosis	Minimal
* Spleen		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 14:36:05

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 227

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 50 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500557

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Uterus

Polyp Stromal

---

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 228

TRT#: 4

SEX: Female

DAY ON TEST: 562

DOSE: 50 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500558

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Salivary Glands	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
Blood Vessel	Aorta	Mineralization	Mild
* Bone		Fibrous Osteodystrophy	Moderate
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Chronic, Mild
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney	Renal Tubule	Hyperplasia	Minimal
		Mineralization	Minimal
		Nephropathy	Chronic, Marked
		Pigmentation	Hemosiderin, Minimal
		[ Nephropathy TGLS = 1-1: Nephropathy, Chronic, Marked ]	
* Liver		Basophilic Focus	
		Vacuolization Cytoplasmic	Mild
		[ Vacuolization Cytoplasmic TGLS = 2-4+5: Vacuolization, Cytoplasm, Mild ]	
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Mild
* Mammary Gland		Hyperplasia	Cystic, Mild
* Parathyroid Gland		Hyperplasia	Moderate
		[ Hyperplasia TGLS = 3-7: Hyperplasia, Moderate ]	
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
		[ Hyperplasia TGLS = 4-7: Hyperplasia, Pars Distalis, Mild ]	
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 14:36:05

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 228

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 562

**DOSE:** 50 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500558

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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SOA, Sebaceous GI

Hyperplasia

Mild

\* Spleen

Hematopoietic Cell Proliferation

Mild

\* Stomach, Glandular

Mineralization

Mild

---

**PRIMARY CAUSE OF DEATH**

- Kidney Nephropathy

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 229

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 728

**DOSE:** 50 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500559

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Minimal
		Pigmentation	Hemosiderin, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Mild
* Mammary Gland		Hyperplasia	Cystic, Mild
Mesentery	Fat	Necrosis	Marked
	[ Necrosis TGLS = 1-11: Necrosis, Fat, Marked ]		
* Nose	Nasolacrim Dct	Inflammation	Suppurative, Mild
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
	[ Hyperplasia TGLS = 2-7: Hyperplasia, Pars Distalis, Mild ]		
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Mild
* Thyroid Gland	C Cell	Adenoma	

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 230

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 50 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500560

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
		Degeneration	Cystic, Mild
		Hypertrophy	Moderate
* Kidney		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
	[ Fibroadenoma TGLS = 1-11: Fibroadenoma ]		
Mesentery	Fat	Necrosis	Marked
	[ Necrosis TGLS = 3,4-12+13: Necrosis, Fat, Marked ]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 2-7: Adenoma, Pars Distalis ]		
* Skin	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH**

-

Animal Note: TGL-5=NCL

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 231

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 50 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500561

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Mild
* Bone Marrow		Hyperplasia	Marked
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Mild
	[ Fibroadenoma TGLS = 1-11: Fibroadenoma ]		
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
	[ Adenoma TGLS = 2-7: Adenoma, Pars Distalis ]		
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 232

TRT#: 4

SEX: Female

DAY ON TEST: 712

DOSE: 50 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500562

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Bone Marrow		Hyperplasia	Marked
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver	Hepatocyte	Necrosis	Moderate
Note: TGL#2-5: Cause Of Pale Discoloration, Documented At Necropsy, Not Apparent On Slide #05.			
[ Necrosis TGLS = 2-4: Necrosis, Hepatocyte, Moderate ]			
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Marked
* Nose	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 3-7: Adenoma, Pars Distalis ]			
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
		Inflammation	Suppurative, Mild
	Epidermis, SOA	Parakeratosis	Minimal
[ Inflammation TGLS = 4-12: Inflammation, Suppurative, Mild ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Uterus		Inflammation	Suppurative, Marked

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 55312-03

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 14:36:05

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 232

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 712

**DOSE:** 50 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500562

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Inflammation TGLS = 1-11: Inflammation, Suppurative, Marked ]

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PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH

- Liver Hepatocyte Necrosis

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 233

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 719

**DOSE:** 50 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500563

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Marked
* Kidney	Renal Tubule	Carcinoma	
		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
	[ Carcinoma TGLS = 4-1: Carcinoma, Renal Tubule ]		
	[ Nephropathy TGLS = 3-1: Nephropathy, Chronic, Mild ]		
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
	Hepatocyte	Necrosis	Mild
		Vacuolization Cytoplasmic	Mild
	[ Necrosis TGLS = 7-11: Necrosis, Hepatocyte, Mild ]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Note: TGL#5-2+3-NCL: Lungs Are Congested Which Accounts For The Diffuse, Black Foci Documented At Necropsy.		
	Lymph Node	Pigmentation	Hemosiderin, Mild
* Mammary Gland	Mediastinal	Cyst	Marked
		Fibroadenoma	
		Hyperplasia	Cystic, Mild
	[ Cyst TGLS = 1-12: Cyst, Marked ]		
	[ Fibroadenoma TGLS = 1-12: Fibroadenoma ]		
* Pancreas	Acinus	Atrophy	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 233	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 719
	<b>DOSE:</b> 50 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9500563

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 6-7: Adenoma, Pars Distalis ]			
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Squamous Cell Papilloma	Multiple
[ Squamous Cell Papilloma TGLS = 8,9-11: Squamous Cell Papilloma, Multiple ]			

---

PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma
CONTRIBUTORY CAUSE OF DEATH	- Kidney Renal Tubule Carcinoma

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 234

TRT#: 4

SEX: Female

DAY ON TEST: 582

DOSE: 50 MG/KG

DISP: Natural Death

HISTO: 9500564

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
* Lung		Inflammation	Chronic Active, Mild
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 1-7: Adenoma, Pars Distalis ]		
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

Animal Note: Death May Also Have Been Due To Asphyxiation Secondary To Food Lodged Near Tracheal Opening As Documented At Necropsy.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 235

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 50 MG/KG

DISP: Terminal Sacrifice

HISTO: 9500565

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Kidney	Renal Tubule Renal Tubule	Carcinoma Hyperplasia Mineralization Nephropathy Pigmentation	Moderate Minimal Chronic, Minimal Hemosiderin, Minimal
[ Carcinoma TGLS = 3-1: Carcinoma, Renal Tubule ]			
* Liver	Bile Duct	Hyperplasia	Minimal
* Lung		Inflammation	Chronic Active, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Fibroadenoma Hyperplasia	Cystic, Mild
[ Fibroadenoma TGLS = 1-11: Fibroadenoma ]			
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis Pars Distalis	Cyst Hyperplasia	Mild Mild
[ Hyperplasia TGLS = 2-7: Hyperplasia, Pars Distalis, Mild ]			
* Skin	Epidermis, SOA Epidermis, SOA SOA, Sebaceous GI	Hyperkeratosis Hyperplasia Hyperplasia	Minimal Minimal Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 236

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 50 MG/KG

DISP: Terminal Sacrifice

HISTO: 9500566

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Salivary Glands	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Uterus

MISSING

\* Parathyroid Gland

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Clitoral Gland		Carcinoma	
[ Carcinoma TGLS = 3-11: Carcinoma ]			
* Intestine Large, Colon		Parasite Metazoan	
[ Parasite Metazoan TGLS = 6-6: Malignant Lymphoma ]			
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Lymphoma Malignant	
* Lung		Inflammation	Chronic Active, Minimal
		Inflammation	Granulomatous, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Mild
* Lymph Node, Mandibular		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 6-6: Malignant Lymphoma ]			
* Mammary Gland		Carcinoma	Multiple
		Fibroadenoma	Multiple
		Hyperplasia	Cystic, Mild
[ Carcinoma TGLS = 2-11: Carcinoma ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 236	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 50 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9500566

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Fibroadenoma TGLS = 1,2 - 12+11: Fibroadenoma, Multiple ]			
* Ovary		Cyst	Marked
[ Cyst TGLS = 5-10: Cyst, Marked ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 4-7: Adenoma, Pars Distalis ]			
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
* Urinary Bladder		Lymphoma Malignant	

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 237

TRT#: 4

SEX: Female

DAY ON TEST: 708

DOSE: 50 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500567

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Degeneration Leukemia Mononuclear	Cystic, Moderate
* Bone		Osteopetrosis	Moderate
* Heart	Atrium	Thrombosis	Moderate
	[ Thrombosis TGLS = 4-5: Thrombosis, Atrium, Moderate ]		
* Kidney		Mineralization Nephropathy Pigmentation	Minimal Chronic, Minimal Hemosiderin, Minimal
* Liver	Centrilobular, Hepatocyte	Degeneration Leukemia Mononuclear	Marked
	[ Degeneration TGLS = 3-4+5: Degen, Hepatocyte, Centrilobular, Marked ]		
	[ Leukemia Mononuclear TGLS = 3-4+5: Degen, Hepatocyte, Centrilobular, Marked ]		
* Mammary Gland		Fibroadenoma Hyperplasia	Cystic, Mild
	[ Fibroadenoma TGLS = 1-11: Fibroadenoma ]		
* Ovary		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 1-11: Fibroadenoma ]		
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
	[ Hyperplasia TGLS = 6-7: Hyperplasia, Pars Distalis, Mild ]		
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 237	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 708
	<b>DOSE:</b> 50 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9500567

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Spleen	SOA, Sebaceous GI	Hyperplasia	Minimal
	[ Leukemia Mononuclear TGLS = 2-1: Leukemia Mononuclear ]	Leukemia Mononuclear	
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Stomach, Glandular	Epithelium	Erosion	Moderate
	[ Erosion TGLS = 7-5: Erosion, Epithelium, Moderate ]		
* Uterus			
	Note: TGL#5-11-NCL: Cervix Normal Histologically.		

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PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH	- Liver Centrilobular Hepatocyte Degeneration;Liver Leukemia Mononuclear;Mammary Gland Fibroadenoma;Ovary Leukemia Mononuclear

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 238

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 50 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500568

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Ovary	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Adrenal Cortex		Adenoma	
		Degeneration	Fatty, Minimal
* Clitoral Gland		Adenoma	
[ Adenoma TGLS = 7-5: Erosion, Epithelium, Moderate ]			
* Kidney	Renal Tubule	Hyperplasia	Marked
		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
[ Hepatodiaphragmatic Nodule TGLS = 1-5: Hepatodiaphragmatic Nodule ]			
* Lung		Inflammation	Chronic Active, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Mild
* Mammary Gland		Hyperplasia	Cystic, Moderate
Mesentery	Fat	Necrosis	Marked
[ Necrosis TGLS = 3,4-11+12: Necrosis, Fat, Marked ]			
* Pancreas	Acinus	Atrophy	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 238

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 50 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500568

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Cyst

Mild

Pars Intermed

Cyst

Mild

[ Adenoma TGLS = 2-7: Adenoma, Pars Distalis ]

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 239

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 50 MG/KG

DISP: Terminal Sacrifice

HISTO: 9500569

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Chronic, Minimal
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
[ Hepatodiaphragmatic Nodule TGLS = 2-4: Hepatodiaphragmatic Nodule ]			
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Mild
* Mammary Gland		Hyperplasia	Cystic, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
[ Adenoma TGLS = 1-7: Adenoma, Pars Distalis ]			
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:05

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 240

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 50 MG/KG

DISP: Terminal Sacrifice

HISTO: 9500570

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Clitoral Gland		Adenoma	
[ Adenoma TGLS = 1-10: Adenoma ]			
* Heart		Cardiomyopathy	Chronic, Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver		Basophilic Focus	
		Vacuolization Cytoplasmic	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Mild
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Mild
* Mammary Gland		Hyperplasia	Cystic, Minimal
* Ovary		Cyst	Mild
[ Cyst TGLS = 2-10: Cyst, Mild ]			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
[ Adenoma TGLS = 3-7: Adenoma, Pars Distalis ]			
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
* Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 241

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 50 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500571

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Minimal
* Clitoral Gland		Carcinoma	
[ Carcinoma TGLS = 2-10: Carcinoma ]			
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Minimal
[ Fibroadenoma TGLS = 3-11: Fibroadenoma ]			
* Parathyroid Gland			
Note: TGL#4-7: Enlarged Left Parathyroid Gland, Documented At Necropsy, Is Thyroid Gland C Cell Adenoma Histologically.			
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 241	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 50 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9500571

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hyperplasia TGLS = 1-7: Hyperplasia, Pars Distalis, Moderate ]			
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous Gl	Hyperplasia	Mild
* Thyroid Gland	C Cell	Carcinoma	
		Ectopic Thymus	Moderate
[ Carcinoma TGLS = 4-7: Carcinoma, C Cell ]			
* Uterus		Polyp Stromal	
[ Polyp Stromal TGLS = 4-7: Carcinoma, C Cell ]			

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:05  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 242

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 612

**DOSE:** 50 MG/KG

**DISP:** Natural Death

**HISTO:** 9500572

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Cystic, Mild
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Minimal
		Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Minimal
	[ Fibroadenoma TGLS = 1-11: Fibroadenoma ]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 2-7: Adenoma, Pars Distalis ]		
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild

**PRIMARY CAUSE OF DEATH**

- Pituitary Gland Pars Distalis Adenoma

Animal Note: Death May Also Have Been Due To Asphyxiation Secondary To Food Lodged Near Tracheal Opening As Documented At Necropsy.

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:06

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 243

TRT#: 4

SEX: Female

DAY ON TEST: 408

DOSE: 50 MG/KG

DISP: Natural Death

HISTO: 9500573

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Esophagus			
Note: TGL#2-2-NCL: Esophagus Normal Histologically.			
* Heart		Cardiomyopathy	Chronic, Minimal
* Kidney		Mineralization	Minimal
		Pigmentation	Hemosiderin, Minimal
* Liver			
Note: TGL#4-11: Focus, Documented At Trim, Not Apparent At Embedding or Histopathological Examination.			
* Lung		Congestion	Marked
[ Congestion TGLS = 3-2+3: Congestion, Marked ]			
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
Note: TGL#1-2-NCL: Mediastinal Lymph Node Normal Size Histologically.			
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: Death Probably Due To Food Lodged Near Tracheal Opening As Noted At Necropsy.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:06

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 244

TRT#: 4

DOSE: 50 MG/KG

SEX: Female

DISP: Natural Death

DAY ON TEST: 651

HISTO: 9500574

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
Eye	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

Eye

Note: TGL#1-11-NCL: Eyes Within Normal Limits Histologically.

* Heart		Cardiomyopathy	Chronic, Minimal
* Kidney	Renal Tubule	Hyperplasia	Minimal
		Mineralization	Minimal
		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Minimal
	[ Nephropathy TGLS = 3-1: Nephropathy, Chronic, Moderate ]		
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Mild
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Moderate
	Note: TGL#2-12: Lesion Included Cystic Hyperplasia Of Mammary Gland And A Cutaneous Epithelial Inclusion Cyst.		
	[ Hyperplasia TGLS = 2-12: Hyperplasia, Cystic, Moderate ]		
* Nose	Respirat Epith	Hyperplasia	Moderate
		Inflammation	Chronic Active, Moderate
	Note: Slide #09 - Fungal Cluster Associated With Inflammation In Nasal Cavity.		
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 4-7: Adenoma, Pars Distalis ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 244	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 651
	<b>DOSE:</b> 50 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 9500574

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Skin		Cyst Epithelial Inclusion	
	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
	Epidermis, SOA	Parakeratosis	Minimal
	[ Cyst Epithelial Inclusion TGLS = 2-12: Epithelial Inclusion Cyst ]		
* Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:06

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 245

TRT#: 4

SEX: Female

DAY ON TEST: 677

DOSE: 50 MG/KG

DISP: Natural Death

HISTO: 9500575

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Pheochromocytoma Benign	
Note: Only One Adrenal Gland Enlarged Histologically. [ Pheochromocytoma Benign TGLS = 4-7: Pheochrom Bgn ]			
* Clitoral Gland	Duct	Cyst	Moderate
[ Cyst TGLS = 3-10: Cyst, Duct, Moderate ]			
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Mild
		Vacuolization Cytoplasmic	Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Marked
[ Adenoma TGLS = 5-7: Adenoma, Pars Distalis ]			
* Skin	SOA, Sebaceous GI	Adenoma	
	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis	Hyperplasia	Moderate
	Epidermis, SOA	Hyperplasia	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 245	<b>TRT#:</b> 4 <b>DOSE:</b> 50 MG/KG	<b>SEX:</b> Female <b>DISP:</b> Natural Death	<b>DAY ON TEST:</b> 677 <b>HISTO:</b> 9500575
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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SOA, Sebaceous GI	Hyperplasia Inflammation	Mild Chronic Active, Mild
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[ Adenoma TGLS = 2-11: Adenoma, Sebaceous Gland, Skin Soa ]  
[ Hyperplasia TGLS = 1-12: Hyperplasia, Epidermis, Moderate ]

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**PRIMARY CAUSE OF DEATH** - Pituitary Gland Pars Distalis Adenoma

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**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 246

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 50 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500576

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Blood Vessel	* Bone	* Brain	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Adrenal Cortex		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 3-10: Stromal Polyp ]			
* Adrenal Medulla		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 3-10: Stromal Polyp ]			
* Bone Marrow		Hyperplasia	Marked
		Leukemia Mononuclear	
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Kidney		Leukemia Mononuclear	
		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Mild
* Liver		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 2-4+5: Mononuclear Cell Leukemia ]			
* Lung		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 2-4+5: Mononuclear Cell Leukemia ]			
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Lymph Node, Mandibular		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 3-10: Stromal Polyp ]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 3-10: Stromal Polyp ]			
* Mammary Gland		Hyperplasia	Cystic, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 246

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 50 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500576

**ORGAN AND ACCOUNTABLE SITE STATUS**

		Leukemia Mononuclear	
[ Adenoma TGLS = 4-7: Adenoma, Pars Distalis ]			
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Epidermis, SOA	Parakeratosis	Minimal
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 1-1: Mononuclear Cell Leukemia ]			
* Thymus		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 1-1: Mononuclear Cell Leukemia ]			
* Uterus		Polyp Stromal	
[ Polyp Stromal TGLS = 3-10: Stromal Polyp ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:06

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 247

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 50 MG/KG

DISP: Terminal Sacrifice

HISTO: 9500577

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Mild
* Bone		Fibrous Osteodystrophy	Mild
* Bone Marrow		Hyperplasia	Marked
* Clitoral Gland		Adenoma	
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Nephropathy	Chronic, Marked
	[ Nephropathy TGLS = 1-1: Nephropathy, Chronic, Marked ]	Pigmentation	Hemosiderin, Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
	[ Hepatodiaphragmatic Nodule TGLS = 3-5: Hepatodiaphragmatic Nodule ]	Vacuolization Cytoplasmic	Mild
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Mild
* Mammary Gland		Hyperplasia	Cystic, Mild
* Ovary		Cyst	Marked
	[ Cyst TGLS = 2-10: Cyst, Marked ]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 4-7: Adenoma, Pars Distalis ]		
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 247

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 50 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500577

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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SOA, Sebaceous GI

Hyperplasia

Mild

\* Urinary Bladder

Papilloma

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:06

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 248

TRT#: 4

SEX: Female

DAY ON TEST: 280

DOSE: 50 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500578

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	Peripheral Nerve
* Salivary Glands	* Skin	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia	Marked
* Brain		Hemorrhage	Moderate
	[ Hemorrhage TGLS = 4-6: Hemorrhage, Moderate ]	Leukemia Mononuclear	
* Heart		Cardiomyopathy	Chronic, Minimal
	[ Leukemia Mononuclear TGLS = 4-6: Hemorrhage, Moderate ]	Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver		Leukemia Mononuclear	
* Lung		Hemorrhage	Minimal
		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
	Mediastinal	Pigmentation	Hemosiderin, Minimal
		Note: TGL#2-11: Enlarged Right Lumbar Lymph Node, Documented At Necropsy, Is Necrotic Mesenteric Fat Nodule Histologically.	
	[ Leukemia Mononuclear TGLS = 3-12: Mononuclear Cell Leukemia, Renal ]		
* Mammary Gland		Hyperplasia	Cystic, Mild
Mesentery	Fat	Necrosis	Marked

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 248	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 280
	<b>DOSE:</b> 50 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9500578

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Necrosis TGLS = 2-11: Necrosis, Fat, Marked ]			
* Nose	Nasolacrim Dct	Inflammation	Suppurative, Moderate
* Ovary		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 2-11: Necrosis, Fat, Marked ]			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
Spinal Cord		Hemorrhage	Minimal
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 1-11: Mononuclear Cell Leukemia ]			
* Stomach, Forestomach		Edema	Moderate
	Epithelium	Hyperplasia	Moderate
		Inflammation	Chronic Active, Mild
	Epithelium	Ulcer	Marked
[ Ulcer TGLS = 5-5+12: Ulcer, Epithelium, Marked ]			

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PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH	- Brain Hemorrhage;Heart Leukemia Mononuclear;Stomach;Forestomach Epithelium Ulcer

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 249

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 728

**DOSE:** 50 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500579

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Parathyroid Gland	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

**OBSERVATIONS**

* Clitoral Gland		Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic, Mild
		Vacuolization Cytoplasmic	Mild
[ Hepatodiaphragmatic Nodule TGLS = 3-4: Hepatodiaphragmatic Nodule ]			
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Ovary		Cyst	Marked
[ Cyst TGLS = 1-10: Cyst, Marked ]			
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 2-7: Adenoma, Pars Distalis ]			
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 14:36:06

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 249

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 728

**DOSE:** 50 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500579

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Thyroid Gland

C Cell

Hyperplasia

Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 250      **TRT#:** 4      **SEX:** Female      **DAY ON TEST:** 729  
**DOSE:** 50 MG/KG      **DISP:** Terminal Sacrifice      **HISTO:** 9500580

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Mild
* Clitoral Gland		Carcinoma	
[ Carcinoma TGLS = 1-10: Carcinoma ]			
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Mild
[ Nephropathy TGLS = 2-1: Nephropathy, Chronic, Mild ]			
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Moderate
[ Hyperplasia TGLS = 3-7: Hyperplasia, Pars Distalis, Moderate ]			
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 4-10: Hyperplasia, Cystic, Endometrium, Moderate ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 250

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 50 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500580

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:06

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 251

TRT#: 6

SEX: Female

DAY ON TEST: 724

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500581

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Minimal
		Hypertrophy	Minimal
* Bone Marrow		Hyperplasia	Moderate
* Clitoral Gland		Adenoma	
		Inflammation	Chronic Active, Mild
	[ Adenoma TGLS = 4-10: Adenoma ]		
* Heart		Cardiomyopathy	Chronic, Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Mild
	[ Nephropathy TGLS = 2-1: Nephropathy, Chronic, Moderate ]		
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Moderate
	[ Hepatodiaphragmatic Nodule TGLS = 1-11: Hepatodiaphragmatic Nodule ]		
* Lung			
	Note: TGL #5, White Focus, Not Found Histologically.		
	Lymph Node	Pigmentation	Hemosiderin, Mild
* Mammary Gland	Mediastinal	Hyperplasia	Cystic, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 3-7: Adenoma, Pars Distalis ]		

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 251	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 724
	<b>DOSE:</b> 100 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9500581

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Mild
	Epidermis, SOA	Parakeratosis	Mild
* Thyroid Gland	C Cell	Hyperplasia	Mild

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PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 252      **TRT#:** 6      **SEX:** Female      **DAY ON TEST:** 729  
**DOSE:** 100 MG/KG      **DISP:** Terminal Sacrifice      **HISTO:** 9500582

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

**OBSERVATIONS**

* Heart		Cardiomyopathy	Chronic, Minimal
* Kidney	Renal Tubule	Hyperplasia	Marked
		Mineralization	Mild
		Nephropathy	Chronic, Marked
		Pigmentation	Hemosiderin, Mild
	[ Nephropathy TGLS = 2-1: Nephropathy, Chronic, Marked ]		
* Liver		Vacuolization Cytoplasmic	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Carcinoma	
		Hyperplasia	Cystic, Mild
	[ Carcinoma TGLS = 1-11: Carcinoma ]		
Oral Mucosa	Pharyngeal	Hyperplasia	Squamous, Marked
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Skin	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
	Epidermis, SOA	Parakeratosis	Minimal
* Stomach, Forestomach		Edema	Moderate
	Epithelium	Hyperplasia	Mild
	Epithelium	Ulcer	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 14:36:06

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 252

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 100 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500582

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Thyroid Gland

C Cell

Adenoma

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:06

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 253

TRT#: 6

DOSE: 100 MG/KG

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 689

HISTO: 9500583

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Spleen
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Degeneration Degeneration Hyperplasia Hypertrophy Carcinoma	Fatty, Moderate Cystic, Moderate Minimal Moderate
* Clitoral Gland	Bilateral [ Carcinoma TGLS = 1-10+12: Carcinoma ]		
* Heart	Atrium [ Thrombosis TGLS = 4-11: Thrombosis, Atrium, Marked ]	Thrombosis	Marked
* Kidney		Mineralization Nephropathy Pigmentation	Minimal Chronic, Marked Hemosiderin, Minimal
	[ Nephropathy TGLS = 2-1: Nephropathy, Chronic, Marked ]		
* Liver		Vacuolization Cytoplasmic	Moderate
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Mild
* Mammary Gland		Hyperplasia	Cystic, Mild
* Ovary		Cyst	Marked
	[ Cyst TGLS = 3-10: Cyst, Marked ]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 253	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 689
	<b>DOSE:</b> 100 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9500583

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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	SOA	Inflammation	Chronic Active, Mild
	Epidermis, SOA	Parakeratosis	Moderate
	Epidermis, SOA	Ulcer	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Inflammation	Chronic Active, Moderate
	Epithelium	Ulcer	Marked

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PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

CONTRIBUTORY CAUSE OF DEATH

- Clitoral Gland Bilateral Carcinoma;Heart Atrium Thrombosis;Stomach;Forestomach Epithelium Ulcer

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 254      **TRT#:** 6      **SEX:** Female      **DAY ON TEST:** 729  
**DOSE:** 100 MG/KG      **DISP:** Terminal Sacrifice      **HISTO:** 9500584

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

**OBSERVATIONS**

* Heart		Cardiomyopathy	Chronic, Mild
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney	Renal Tubule	Hyperplasia	Minimal
		Mineralization	Minimal
		Nephropathy	Chronic, Marked
		Pigmentation	Hemosiderin, Mild
	[ Nephropathy TGLS = 1-1: Nephropathy, Chronic, Marked ]		
* Liver	Bile Duct	Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Minimal
* Parathyroid Gland			
	Note: TGL#2-7-NCL: Parathyroid Gland Within Normal Limits Histologically.		
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:06

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 255

TRT#: 6

SEX: Female

DAY ON TEST: 715

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500585

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Salivary Glands	* Spleen	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Degeneration	Cystic, Mild
		Hyperplasia	Minimal
		Hypertrophy	Mild
* Adrenal Medulla		Hyperplasia	Mild
Blood Vessel	Aorta	Mineralization	Mild
	Pulmn Artery	Mineralization	Mild
* Bone		Fibrous Osteodystrophy	Mild
* Bone Marrow		Hyperplasia	Marked
* Clitoral Gland		Adenoma	
		Inflammation	Chronic Active, Mild
	[ Adenoma TGLS = 3-10: Adenoma ]		
Eye	Bilateral	Inflammation	Suppurative, Marked
	[ Inflammation TGLS = 1-12: Inflammation, Suppurative, Bilateral, Marked ]		
* Heart		Cardiomyopathy	Chronic, Moderate
		Mineralization	Minimal
* Intestine Large, Colon		Parasite Metazoan	
* Kidney	Renal Tubule	Hyperplasia	Marked
		Mineralization	Minimal
		Nephropathy	Chronic, Marked
		Pigmentation	Hemosiderin, Minimal
	[ Nephropathy TGLS = 2-1+11: Nephropathy, Chronic, Marked ]		
* Liver		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic, Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:06

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 255

TRT#: 6

DOSE: 100 MG/KG

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 715

HISTO: 9500585

ORGAN AND ACCOUNTABLE SITE STATUS

Note: TGL:5-4: Hepatodiaphragmatic Nodule Only Present On Slide #04.

[ Hepatodiaphragmatic Nodule TGLS = 5-4: Hepatodiaphragmatic Nodule ]

* Lung	Alveolus	Infiltration Cellular	Minimal
Lymph Node	Mediastinal	Pigmentation	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Hemosiderin, Minimal
* Nose	Nasolacrim Dct	Inflammation	Cystic, Moderate
* Parathyroid Gland		Hyperplasia	Suppurative, Mild
	[ Hyperplasia TGLS = 4-7: Hyperplasia, Mild ]		Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 6-7: Adenoma, Pars Distalis ]		
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Mild
	Epidermis, SOA	Parakeratosis	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
	[ Hyperplasia TGLS = 7-4: Hyperplasia, moderate ]		
* Stomach, Glandular		Mineralization	Mild
* Thyroid Gland	C Cell	Carcinoma	

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH - Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 256

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 718

**DOSE:** 100 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500586

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Bone Marrow		Hyperplasia	Marked
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Marked
		Pigmentation	Hemosiderin, Minimal
[ Nephropathy TGLS = 1-1: Nephropathy, Chronic, Marked ]			
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Mild
[ Infiltration Cellular TGLS = 3-11: Infiltrat Cell,Histiocyte,Alveolus,Minimal ]			
[ Inflammation TGLS = 4-11: Inflammation, Chronic Active, Mild ]			
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 2-7: Adenoma, Pars Distalis ]			
* Skin	Epidermis, SOA	Hyperkeratosis	Moderate
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Mild
	SOA	Inflammation	Chronic Active, Mild
	Epidermis, SOA	Parakeratosis	Moderate
	Epidermis, SOA	Ulcer	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 256	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 718
	<b>DOSE:</b> 100 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9500586

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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	Epithelium	Inflammation	Chronic Active, Moderate
		Ulcer	Marked
	[ Hyperplasia TGLS = 5-12: Hyperplasia ]		
	[ Ulcer TGLS = 5-12: Ulcer, Epithelium, Marked ]		

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PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma
CONTRIBUTORY CAUSE OF DEATH	- Kidney Nephropathy

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014  
Time Report Requested: 14:36:06  
First Dose M/F: NA / NA  
Lab: BAT

ANIMAL ID: 257

TRT#: 6

SEX: Female

DAY ON TEST: 626

DOSE: 100 MG/KG

DISP: Natural Death

HISTO: 9500587

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Minimal
	[ Nephropathy TGLS = 1-1: Nephropathy, Chronic, Moderate ]		
* Liver	Bile Duct	Hyperplasia	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 2-7: Adenoma, Pars Distalis ]		
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Moderate
	Epidermis, SOA	Parakeratosis	Mild
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

Animal Note: Death May Also Have Been Due To Asphyxiation Secondary To Food Lodged Near Tracheal Opening As Documented At Necropsy.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 258

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 373

**DOSE:** 100 MG/KG

**DISP:** Natural Death

**HISTO:** 9500588

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	Vagina		

**MISSING**

* Lymph Node, Mandibular	* Salivary Glands
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**OBSERVATIONS**

* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Nose	Respirat Epith	Hyperplasia	Moderate
	Respirat Epith	Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Moderate
Note: Slide #09 - Small Fungal Cluster Associated With Inflammation In Nasal Cavity.			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
	Epidermis, SOA	Parakeratosis	Mild
	[ Parakeratosis TGLS = 3-11: Parakeratosis, Epidermis, Skin Soa, Mild ]		
* Uterus		Deciduoma Benign	
	[ Deciduoma Benign TGLS = 1-10: Deciduoma Bgn ]		
Vagina			
Note: TGL#2-11-NCL: Dark Lesion, Documented At Necropsy, Not Apparent Histologically.			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 14:36:06

**First Dose M/F:** NA / NA

**Lab:** BAT

---

**ANIMAL ID:** 258

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 373

**DOSE:** 100 MG/KG

**DISP:** Natural Death

**HISTO:** 9500588

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- UNCERTAIN

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Animal Note: Death Was Probably Due To Asphyxiation Secondary To Food Lodged In Tracheal Opening As Documented At Necropsy.

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:06

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 259

TRT#: 6

DOSE: 100 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 728

HISTO: 9500589

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Clitoral Gland	Duct	Cyst Inflammation	Mild Chronic Active, Minimal
[ Cyst TGLS = 3-10: Cyst, Duct, Mild ]			
* Kidney	Renal Tubule	Hyperplasia Mineralization Nephropathy Pigmentation	Minimal Minimal Chronic, Mild Hemosiderin, Mild
* Liver	Bile Duct	Hepatodiaphragmatic Nodule Hyperplasia Inflammation Vacuolization Cytoplasmic	Minimal Chronic, Minimal Minimal
[ Hepatodiaphragmatic Nodule TGLS = 2-4: Hepatodiaphragmatic Nodule ]			
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pituitary Gland	Pars Distalis Pars Distalis	Cyst Hyperplasia	Mild Moderate
[ Hyperplasia TGLS = 1-7: Hyperplasia, Pars Distalis, Moderate ]			
* Skin	Epidermis, SOA Epidermis, SOA SOA, Sebaceous GI	Hyperkeratosis Hyperplasia Hyperplasia	Mild Mild Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 260

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 669

**DOSE:** 100 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500590

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Salivary Glands	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
* Clitoral Gland		Adenoma	
* Kidney	Renal Tubule	Hyperplasia	Minimal
		Mineralization	Minimal
		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Mild
	[ Nephropathy TGLS = 2-1: Nephropathy, Chronic, Moderate ]		
* Liver		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Minimal
	[ Hepatodiaphragmatic Nodule TGLS = 3-4: Hepatodiaphragmatic Nodule ]		
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Marked
	[ Fibroadenoma TGLS = 1-11: Fibroadenoma ]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 4-7: Adenoma, Pars Distalis ]		
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 14:36:06

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 260

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 669

**DOSE:** 100 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500590

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

SOA, Sebaceous GI

Hyperplasia

Mild

Epidermis, SOA

Parakeratosis

Mild

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**PRIMARY CAUSE OF DEATH**

- Pituitary Gland Pars Distalis Adenoma

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:06

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 261

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 100 MG/KG

DISP: Terminal Sacrifice

HISTO: 9500591

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* 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
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Minimal
* Liver		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Mild
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Ovary		Cyst	Moderate
		Granulosa-Theca Tumor Benign	
	[ Cyst TGLS = 1-10: Cyst, Moderate ]		
	[ Granulosa-Theca Tumor Benign TGLS = 1-10: Benign Gran Theca ]		
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Marked
	[ Hyperplasia TGLS = 2-7: Hyperplasia, Pars Distalis, Marked ]		
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:06

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 262

TRT#: 6

SEX: Female

DAY ON TEST: 620

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500592

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Salivary Glands	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Mild
		Hypertrophy	Mild
* Clitoral Gland		Inflammation	Chronic Active, Mild
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Cyst	Mild
	Renal Tubule	Hyperplasia	Mild
		Mineralization	Minimal
		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Minimal
	[ Nephropathy TGLS = 2-1: Nephropathy, Chronic, Moderate ]		
* Liver		Hepatodiaphragmatic Nodule	
		Vacuolization Cytoplasmic	Moderate
	[ Hepatodiaphragmatic Nodule TGLS = 1-4: Hepatodiaphragmatic Nodule ]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Metaplasia	Osseous, Minimal
	Lymph Node	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Parathyroid Gland	Mediastinal	Hyperplasia	Minimal

Note: Only One Parathyroid Gland Available For Histopathologic Examination.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 262	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 620
	<b>DOSE:</b> 100 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9500592

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hyperplasia TGLS = 3-7: Hyperplasia, Minimal ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 4-7: Adenoma, Pars Distalis ]			
* Skin	Epidermis, SOA	Hyperkeratosis	Moderate
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Mild
	SOA	Inflammation	Chronic Active, Mild
	Epidermis, SOA	Parakeratosis	Moderate
	Epidermis, SOA	Ulcer	Marked
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Inflammation	Chronic Active, Moderate
	Epithelium	Ulcer	Marked

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PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

CONTRIBUTORY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma;Stomach;Forestomach Epithelium Ulcer

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:06

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 263

TRT#: 6

SEX: Female

DAY ON TEST: 536

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500593

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Clitoral Gland		Carcinoma	
[ Carcinoma TGLS = 1-11: Carcinoma ]			
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Mineralization	Mild
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland			
Note: TGL#1-11-NCL: Mammary Gland Mass, Documented At Necropsy, Is Bilateral Clitoral Gland Carcinoma Histologically.			
* Pituitary Gland	Pars Intermed	Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH - Clitoral Gland Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:06

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 264

TRT#: 6

SEX: Female

DAY ON TEST: 466

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 9500594

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Inflammation	Chronic Active, Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Mild
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Intermed	Cyst	Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
	Epidermis, SOA	Parakeratosis	Mild
	Epidermis, SOA	Ulcer	Mild
* Uterus		Sarcoma Stromal	

[ Sarcoma Stromal TGLS = 1-11: Stromal Sarcoma ]

PRIMARY CAUSE OF DEATH

- Uterus Sarcoma Stromal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:06

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 265

TRT#: 6

DOSE: 100 MG/KG

SEX: Female

DISP: Natural Death

DAY ON TEST: 672

HISTO: 9500595

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Nose	* Pancreas	* Salivary Glands
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

\* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Degeneration Leukemia Mononuclear	Fatty, Mild
[ Leukemia Mononuclear TGLS = 2-11: Mononuclear Cell Leukemia ]			
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia	Marked
* Heart	Atrium	Leukemia Mononuclear Thrombosis	Moderate
[ Thrombosis TGLS = 9-5: Thrombosis, Atrium, Moderate ]			
* Kidney		Leukemia Mononuclear Mineralization Nephropathy Pigmentation	Minimal Chronic, Mild Hemosiderin, Mild
[ Leukemia Mononuclear TGLS = 9-5: Thrombosis, Atrium, Moderate ]			
* Liver	Centrilobular, Hepatocyte	Degeneration Hepatodiaphragmatic Nodule Leukemia Mononuclear	Marked
[ Hepatodiaphragmatic Nodule TGLS = 6-4: Hepatodiaphragmatic Nodule ]			
[ Leukemia Mononuclear TGLS = 3-4+5: Mononuclear Cell Leukemia ]			
* Lung	Mediastinal	Leukemia Mononuclear Pigmentation	Hemosiderin, Minimal
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 2-11: Mononuclear Cell Leukemia ]			

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:06

First Dose M/F: NA / NA

Lab: BAT

<b>ANIMAL ID:</b> 265	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 672
	<b>DOSE:</b> 100 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> 9500595

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Mammary Gland		Hyperplasia	Cystic, Mild
* Ovary		Cyst	Mild
[ Cyst TGLS = 4-10: Cyst, Mild ]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
		Leukemia Mononuclear	
[ Hyperplasia TGLS = 5-7: Hyperplasia, Pars Distalis, Mild ]			
[ Leukemia Mononuclear TGLS = 4-10: Cyst, Mild ]			
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous Gl	Hyperplasia	Minimal
	Epidermis, SOA	Parakeratosis	Mild
[ Hyperkeratosis TGLS = 1-11: Hyperkeratosis, Epidermis, Skin Soa, Mild ]			
[ Parakeratosis TGLS = 1-11: Parakeratosis, Epidermis, Skin Soa, Mild ]			
* Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 2-11: Mononuclear Cell Leukemia ]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Inflammation	Chronic Active, Mild
	Epithelium	Ulcer	Marked
[ Ulcer TGLS = 8-4: Ulcer, Epithelium, Marked ]			
* Stomach, Glandular	Epithelium	Erosion	Mild
[ Erosion TGLS = 7-5+11: Erosion, Epithelium, Mild ]			
* Thymus		Thymoma Benign	
[ Thymoma Benign TGLS = 2-11: Mononuclear Cell Leukemia ]			

PRIMARY CAUSE OF DEATH	- Thymus Thymoma Benign
CONTRIBUTORY CAUSE OF DEATH	- Heart Atrium Thrombosis;Kidney Leukemia Mononuclear;Stomach;Forestomach Epithelium Ulcer

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:06

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 266

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 100 MG/KG

DISP: Terminal Sacrifice

HISTO: 9500596

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Salivary Glands	* Spleen	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

\* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Moderate
* Clitoral Gland	Bilateral	Carcinoma	
	[ Carcinoma TGLS = 1-10: Carcinoma ]		
* Heart		Cardiomyopathy	Chronic, Minimal
* Kidney	Renal Tubule	Hyperplasia	Minimal
		Mineralization	Minimal
		Nephropathy	Chronic, Marked
		Pigmentation	Hemosiderin, Minimal
	[ Nephropathy TGLS = 2-1: Nephropathy, Chronic, Marked ]		
* Liver	Bile Duct	Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Lymph Node	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 3-7: Adenoma, Pars Distalis ]		
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 266	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 100 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9500596

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Stomach, Forestomach	Epidermis, SOA	Parakeratosis	Minimal
		Edema	Marked
	Epithelium	Hyperplasia	Moderate
		Inflammation	Chronic Active, Moderate
* Thyroid Gland	Epithelium	Ulcer	Mild
	C Cell	Hyperplasia	Minimal

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:06

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 267

TRT#: 6

SEX: Female

DAY ON TEST: 387

DOSE: 100 MG/KG

DISP: Natural Death

HISTO: 9500597

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

Eye	Lens	Cataract	Mild
	[ Cataract TGLS = 2-11: Cataract. Lens. Mild ]		
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Nose	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
	Respirat Epith	Metaplasia	Squamous, Mild
* Ovary		Cyst	Mild
	[ Cyst TGLS = 1-10: Cyst, Mild ]		
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

- UNCERTAIN

Animal Note: Death Was Probably Due To Asphyxiation Secondary To The Food In Tracheal Opening As Documented At Necropsy.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 268

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 100 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500598

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

**OBSERVATIONS**

* Bone Marrow		Hyperplasia	Moderate
* Clitoral Gland			
Note: One Clitoral Gland On Slide #11 And One On Slide #10.			
* Kidney	Renal Tubule	Hyperplasia Mineralization Nephropathy Pigmentation	Minimal Minimal Chronic, Moderate Hemosiderin, Mild
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Carcinoma Hyperplasia	Cystic, Mild
[ Carcinoma TGLS = 1-11: Carcinoma ]			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
[ Adenoma TGLS = 2-7: Adenoma, Pars Distalis ]			
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous Gland	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Mild

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:06

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 269

TRT#: 6

SEX: Female

DAY ON TEST: 728

DOSE: 100 MG/KG

DISP: Terminal Sacrifice

HISTO: 9500599

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Bone		Fibrous Osteodystrophy	Mild
* Kidney	Renal Tubule	Hyperplasia	Marked
		Mineralization	Mild
		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pituitary Gland	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Mild
	[ Hyperplasia TGLS = 1-7: Hyperplasia, Pars Distalis, Mild ]		
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Moderate
* Thyroid Gland	C Cell	Adenoma	
	[ Adenoma TGLS = 2-7: Adenoma, C Cell ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 270

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 100 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500600

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Cystic, Mild
		Degeneration	Fatty, Mild
		Hypertrophy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Minimal
* Liver		Vacuolization Cytoplasmic	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Moderate
	Epidermis, SOA	Parakeratosis	Mild
* Stomach, Glandular	Epithelium	Hyperplasia	Mild

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 271      **TRT#:** 6      **SEX:** Female      **DAY ON TEST:** 728  
**DOSE:** 100 MG/KG      **DISP:** Moribund Sacrifice      **HISTO:** 9500601

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Blood Vessel	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Hyperplasia	Marked
* Heart	Atrium	Thrombosis	Moderate
	[ Thrombosis TGLS = 5-5: Thrombosis, Atrium, Moderate ]		
* Kidney		Nephropathy	Chronic, Mild
	[ Nephropathy TGLS = 4-1: Nephropathy, Chronic, Mild ]	Pigmentation	Hemosiderin, Moderate
* Liver	Centrilobular, Hepatocyte	Degeneration	Moderate
	Bile Duct	Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Mild
	Note: No Correlating Lesion for TGLs = 3-4+5: No Correlating Lesion		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Congestion	Moderate
	[ Congestion TGLS = 6-2: Congestion, Moderate ]		
* Mammary Gland		Hyperplasia	Cystic, Moderate
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
	[ Hyperplasia TGLS = 2-7: Hyperplasia, Pars Distalis, Mild ]		
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 271	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 728
	<b>DOSE:</b> 100 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 9500601

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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	SOA	Inflammation	Chronic Active, Mild
	Epidermis, SOA	Parakeratosis	Mild
	Epidermis, SOA	Ulcer	Minimal
* Spleen		Congestion	Moderate
	[ Congestion TGLS = 1-1: Congestion, Moderate ]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Marked
		Inflammation	Chronic Active, Moderate
	Epithelium	Ulcer	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

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PRIMARY CAUSE OF DEATH	- Spleen Congestion
CONTRIBUTORY CAUSE OF DEATH	- Heart Atrium Thrombosis;Stomach;Forestomach Epithelium Ulcer

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:06

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 272

TRT#: 6

SEX: Female

DAY ON TEST: 377

DOSE: 100 MG/KG

DISP: Natural Death

HISTO: 9500602

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Heart		Cardiomyopathy	Chronic, Minimal
* Kidney		Mineralization	Minimal
		Pigmentation	Hemosiderin, Minimal
* Liver		Inflammation	Chronic, Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

- UNCERTAIN

Animal Note: Death Was Probably Due To Asphyxiation Secondary To Food Lodged In Tracheal Opening As Documented At Necropsy.

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:06

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 273

TRT#: 6

DOSE: 100 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 728

HISTO: 9500603

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Ovary	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

\* Parathyroid Gland

OBSERVATIONS

* Clitoral Gland		Inflammation	Chronic Active, Mild
* Kidney		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
	[ Adenoma TGLS = 1-7: Adenoma, Pars Distalis ]		
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Moderate
		Inflammation	Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:06

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 274

TRT#: 6

SEX: Female

DAY ON TEST: 665

DOSE: 100 MG/KG

DISP: Natural Death

HISTO: 9500604

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Ovary	* Parathyroid Gland	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Mild
* Adrenal Medulla		Hyperplasia	Mild
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver	Hepatocyte	Degeneration	Cystic, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Nose	Nasolacrim Dct	Inflammation	Suppurative, Moderate
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 1-7: Adenoma, Pars Distalis ]		
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Moderate
* Uterus		Polyp Stromal	
	[ Polyp Stromal TGLS = 2-10: Stromal Polyp ]		

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Animal Note: Death Also Probably Due To Asphyxiation Secondary To Food Lodged Around Epiglott is As Documented At Necropsy.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:06

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 275

TRT#: 6

SEX: Female

DAY ON TEST: 294

DOSE: 100 MG/KG

DISP: Natural Death

HISTO: 9500605

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Kidney		Mineralization	Mild
		Nephropathy	Chronic, Minimal
		Pigmentation	Hemosiderin, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

- UNCERTAIN

Animal Note: Death Probably Due To Asphyxiation Secondary To Food Lodged In Tracheal Opening As Documented At Necropsy.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:06

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 276

TRT#: 6

DOSE: 100 MG/KG

SEX: Female

DISP: Natural Death

DAY ON TEST: 545

HISTO: 9500606

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

Eye	Retina	Atrophy	Marked
	Lens	Cataract	Moderate
	[ Cataract TGLS = 1-11: Cataract, Lens, Moderate ]		
* Kidney		Mineralization	Mild
		Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
Mesentery	Fat	Necrosis	Marked
	[ Necrosis TGLS = 3-11: Necrosis, Fat, Marked ]		
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
	SOA	Inflammation	Chronic Active, Mild
	Epidermis, SOA	Parakeratosis	Mild
	Epidermis, SOA	Ulcer	Mild
	[ Inflammation TGLS = 2-10: Inflammation, Chronic Active, Mild ]		

PRIMARY CAUSE OF DEATH

- UNCERTAIN

Animal Note: Death Probably Due To Asphyxiation Secondary To Food Lodged Near Tracheal Opening As Documented At Necropsy.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:06

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 277

TRT#: 6

SEX: Female

DAY ON TEST: 314

DOSE: 100 MG/KG

DISP: Natural Death

HISTO: 9500607

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                          |                          |                             |
|----------------------------|--------------------------|--------------------------|-----------------------------|
| * Adrenal Cortex           | * Adrenal Medulla        | Blood Vessel             | * Bone                      |
| * Bone Marrow              | * Brain                  | * Clitoral Gland         | * Esophagus                 |
| * Heart                    | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Small, Duodenum |
| * Intestine Small, Jejunum | * Islets, Pancreatic     | * Liver                  | * Lung                      |
| * Lymph Node, Mandibular   | * Lymph Node, Mesenteric | * Nose                   | * Ovary                     |
| * Pancreas                 | * Parathyroid Gland      | * Salivary Glands        | * Spleen                    |
| * Stomach, Forestomach     | * Stomach, Glandular     | * Thymus                 | * Thyroid Gland             |
| * Trachea                  | * Urinary Bladder        | * Uterus                 |                             |

MISSING

- \* Intestine Small, Ileum

OBSERVATIONS

- |                           |                   |                   |                      |
|---------------------------|-------------------|-------------------|----------------------|
| * Intestine Large, Rectum |                   | Parasite Metazoan |                      |
| * Kidney                  |                   | Mineralization    | Minimal              |
|                           |                   | Pigmentation      | Hemosiderin, Minimal |
| Lymph Node                | Mediastinal       | Pigmentation      | Hemosiderin, Minimal |
| * Mammary Gland           |                   | Hyperplasia       | Cystic, Mild         |
| * Pituitary Gland         | Pars Distalis     | Hyperplasia       | Mild                 |
| * Skin                    | Epidermis, SOA    | Hyperkeratosis    | Mild                 |
|                           | Epidermis, SOA    | Hyperplasia       | Moderate             |
|                           | SOA, Sebaceous GI | Hyperplasia       | Mild                 |
|                           | Epidermis, SOA    | Parakeratosis     | Minimal              |

Note: TGL#1-10-NCL: Small, Red Crust, Documented At Necropsy, Not Apparent Histologically.

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:06

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 278

TRT#: 6

DOSE: 100 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 728

HISTO: 9500608

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Degeneration Degeneration Hyperplasia	Cystic, Minimal Fatty, Minimal Mild
* Bone			
Note: TGL#2-11: Left Mandibular Mass, Documented At Necropsy, Is Gingival Squamous Cell Carcinoma Histologically.			
* Kidney		Mineralization Nephropathy Pigmentation	Minimal Chronic, Mild Hemosiderin, Mild
* Liver		Hepatodiaphragmatic Nodule Inflammation Vacuolization Cytoplasmic	Chronic, Mild Minimal
[ Hepatodiaphragmatic Nodule TGLS = 1-5: Hepatodiaphragmatic Nodule ]			
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
Oral Mucosa	Gingival	Squamous Cell Carcinoma	
[ Squamous Cell Carcinoma TGLS = 2-11: Squamous Cell Carcinoma, Gingival ]			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
[ Adenoma TGLS = 3-7: Adenoma, Pars Distalis ]			
* Skin	Epidermis, SOA	Hyperkeratosis	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 278

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 728

**DOSE:** 100 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500608

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Epidermis, SOA

Hyperplasia

Moderate

SOA, Sebaceous GI

Hyperplasia

Moderate

Epidermis, SOA

Parakeratosis

Moderate

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:06

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 279

TRT#: 6

DOSE: 100 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 729

HISTO: 9500609

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Clitoral Gland		Hyperplasia	Mild
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
	[ Cataract TGLS = 1-11: Cataract, Lens, Marked ]		
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Minimal
	[ Nephropathy TGLS = 3-1: Nephropathy, Chronic, Moderate ]		
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
Mesentery	Fat	Inflammation	Chronic Active, Marked
	[ Inflammation TGLS = 5-11: Inflammation, Chronic Active, Fat, Marked ]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 4-7: Adenoma, Pars Distalis ]		
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Moderate

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 279	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 100 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9500609

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Stomach, Forestomach	Epithelium	Hyperplasia	Marked
		Inflammation	Chronic Active, Moderate
	Epithelium	Ulcer	Marked
Note: TGL#6-11: Probably Was A Perforation Grossly, However, This Is Not Demonstrated Histologically. Only The Severe Ulcer Was Evident. [ Ulcer TGLS = 6-4+11: Ulcer, Epithelium, Marked ]			
* Uterus		Polyp Stromal	
[ Polyp Stromal TGLS = 2-10: Stromal Polyp ]			

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 280

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 308

**DOSE:** 100 MG/KG

**DISP:** Natural Death

**HISTO:** 9500610

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**OBSERVATIONS**

* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Esophagus		Perforation	
[ Perforation TGLS = 2-2: Perforation ]			
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Minimal
		Pigmentation	Hemosiderin, Minimal
* Lung			
Note: TGL#3-2+3-NCL: Lungs Are Congested Which Accounts For The Dark Red Discoloration Documented At Necropsy. No Lesion Connected With Discoloration.			
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Minimal
	Epidermis, SOA	Ulcer	Mild
[ Ulcer TGLS = 1-10: Ulcer, Epidermis, Skin Soa, Mild ]			

**PRIMARY CAUSE OF DEATH**

- UNCERTAIN

Animal Note: Death Was Probably Due To Asphyxiation Secondary To Food Lodged In Tracheal Open ing As Documented At Necropsy.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:06

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 281

TRT#: 6

SEX: Female

DAY ON TEST: 728

DOSE: 100 MG/KG

DISP: Terminal Sacrifice

HISTO: 9500611

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
		Degeneration	Cystic, Moderate
		Hyperplasia	Minimal
* Clitoral Gland		Carcinoma	
[ Carcinoma TGLS = 1-10: Carcinoma ]			
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Mild
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Mild
* Mammary Gland		Hyperplasia	Cystic, Mild
* Nose	Nasolacrim Dct	Inflammation	Suppurative, Mild
* Ovary		Cyst	Mild
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
[ Hyperplasia TGLS = 5-7: Hyperplasia, Pars Distalis, Mild ]			
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Moderate
	SOA	Inflammation	Chronic Active, Mild
	Epidermis, SOA	Squamous Cell Papilloma	Multiple
		Ulcer	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 14:36:06

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 281

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 728

**DOSE:** 100 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500611

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Squamous Cell Papilloma TGLS = 3,4-12+11: Squamous Cell Papilloma, Multiple ]

[ Ulcer TGLS = 2-11: Ulcer, Epidermis, Skin Soa, Mild ]

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:06

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 282

TRT#: 6

DOSE: 100 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 729

HISTO: 9500612

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                          |                             |                          |
|----------------------------|--------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla        | Blood Vessel                | * Bone                   |
| * Bone Marrow              | * Brain                  | * Esophagus                 | * Heart                  |
| * Intestine Large, Cecum   | * Intestine Large, Colon | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic     | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric |
| * Nose                     | * Ovary                  | * Pancreas                  | * Parathyroid Gland      |
| * Salivary Glands          | * Spleen                 | * Stomach, Forestomach      | * Stomach, Glandular     |
| * Thymus                   | * Thyroid Gland          | * Trachea                   | * Urinary Bladder        |
| * Uterus                   |                          |                             |                          |

OBSERVATIONS

- |   |                   |                            |                      |
|---|-------------------|----------------------------|----------------------|
| * Clitoral Gland  |                   | Adenoma                    |                      |
| [ Adenoma TGLS = 1-10: Adenoma ]                                      |                   |                            |                      |
| * Intestine Large, Rectum   |                   | Parasite Metazoan          |                      |
| * Kidney  | Renal Tubule      | Hyperplasia                | Minimal              |
|   |                   | Mineralization             | Minimal              |
|   |                   | Nephropathy                | Chronic, Moderate    |
|   |                   | Pigmentation               | Hemosiderin, Minimal |
| * Liver   |                   | Basophilic Focus           |                      |
|   |                   | Clear Cell Focus           |                      |
|   |                   | Hepatodiaphragmatic Nodule |                      |
|   |                   | Inflammation               | Chronic, Minimal     |
|   |                   | Vacuolization Cytoplasmic  | Minimal              |
| [ Hepatodiaphragmatic Nodule TGLS = 2-5: Hepatodiaphragmatic Nodule ] |                   |                            |                      |
| * Lung  |                   | Inflammation               | Chronic Active, Mild |
| * Mammary Gland   |                   | Hyperplasia                | Cystic, Minimal      |
| * Pituitary Gland   | Pars Distalis     | Adenoma                    |                      |
| * Skin  | Epidermis, SOA    | Hyperplasia                | Minimal              |
|   | SOA, Sebaceous GI | Hyperplasia                | Minimal              |

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:06

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 283

TRT#: 6

SEX: Female

DAY ON TEST: 374

DOSE: 100 MG/KG

DISP: Natural Death

HISTO: 9500613

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Kidney		Mineralization	Minimal
		Pigmentation	Hemosiderin, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Note: TGL#1-2+3-NCL: Lungs Are Congested Which Accounts For The Dark Red Discoloration Documented At Necropsy. No Lesion Connected With Discoloration.			
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pituitary Gland	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Minimal
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

- UNCERTAIN

Animal Note: Death Was Probably Due To Asphyxiation Secondary To The Food Lodged In Tracheal Opening As Documented At Necropsy.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 284

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 666

**DOSE:** 100 MG/KG

**DISP:** Natural Death

**HISTO:** 9500614

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**OBSERVATIONS**

* Heart		Cardiomyopathy	Chronic, Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver		Hepatodiaphragmatic Nodule	
	[ Hepatodiaphragmatic Nodule TGLS = 2-11: Hepatodiaphragmatic Nodule ]		
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Moderate
* Nose	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
	Note: Slide #09 - Fungal Cluster Associated With Inflammation In Nasal Cavity.		
* Ovary		Cyst	Moderate
	[ Cyst TGLS = 1-10: Cyst, Moderate ]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH**

- UNCERTAIN

Animal Note: Death Was Probably Due To Asphyxiation Secondary To Food Lodged In Tracheal Open ing As Documented At Necropsy.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 285

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 100 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500615

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Cystic, Moderate
		Degeneration	Fatty, Moderate
		Hyperplasia	Moderate
		Hypertrophy	Moderate
	[ Hyperplasia TGLS = 6-7: Hyperplasia, Moderate ]		
	[ Hypertrophy TGLS = 6-7: Hypertrophy, Moderate ]		
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Marked
	[ Cataract TGLS = 1-11: Cataract, Lens, Marked ]		
* Heart		Cardiomyopathy	Chronic, Mild
* Kidney	Renal Tubule	Hyperplasia	Marked
		Mineralization	Mild
		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Mild
* Liver		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
	[ Hepatocellular Adenoma TGLS = 3-4: Hepatoclr Aden ]		
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 285	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 100 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9500615

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
	[ Hyperplasia TGLS = 4-7: Hyperplasia, Pars Distalis, Mild ]		
* Skin	SOA, Subcut Tiss	Fibrosarcoma	
	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous Gl	Hyperplasia	Moderate
	Epidermis, SOA	Parakeratosis	Minimal
	Epidermis, SOA	Ulcer	Mild
	[ Fibrosarcoma TGLS = 2-11: Fibrosarcoma, Subcutaneous Tissue, Skin Soa ]		
	[ Ulcer TGLS = 2-11: Ulcer, Epidermis, Skin Soa, Mild ]		
Tongue		Hyperplasia	Squamous, Marked
	[ Hyperplasia TGLS = 5-11 ]		
* Uterus		Polyp Stromal	
	[ Polyp Stromal TGLS = 5-11 ]		

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014  
Time Report Requested: 14:36:06  
First Dose M/F: NA / NA  
Lab: BAT

ANIMAL ID: 286

TRT#: 6

SEX: Female

DAY ON TEST: 639

DOSE: 100 MG/KG

DISP: Natural Death

HISTO: 9500616

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Mineralization	Mild
		Nephropathy	Chronic, Minimal
		Pigmentation	Hemosiderin, Minimal
[ Nephropathy TGLS = 1-1: Nephropathy, Chronic, Minimal ]			
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Mild
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Minimal
* Stomach, Glandular	Glands	Hyperplasia	Mild
[ Hyperplasia TGLS = 2-11: Hyperplasia, Glands, Mild ]			

PRIMARY CAUSE OF DEATH

- UNCERTAIN

Animal Note: Death Was Probably Due To Asphyxiation Secondary To Food Lodged In Esophagus As Documented At Necropsy.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:06

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 287

TRT#: 6

SEX: Female

DAY ON TEST: 479

DOSE: 100 MG/KG

DISP: Natural Death

HISTO: 9500617

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 1-7: Adenoma, Pars Distalis ]		
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

- UNCERTAIN

Animal Note: Death Probably Due To Asphyxiation Secondary To Food Lodged In Esophagus As Documented At Necropsy.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 288

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 588

**DOSE:** 100 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500618

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Ovary
* Salivary Glands	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Uterus	

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hypertrophy	Minimal
* Kidney	Renal Tubule	Hyperplasia	Mild
		Mineralization	Minimal
		Nephropathy	Chronic, Marked
		Pigmentation	Hemosiderin, Minimal
	[ Nephropathy TGLS = 2-1: Nephropathy, Chronic, Marked ]		
* Liver		Hepatodiaphragmatic Nodule	
		Vacuolization Cytoplasmic	Mild
	[ Hepatodiaphragmatic Nodule TGLS = 3-4: Hepatodiaphragmatic Nodule ]		
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pancreas	Acinus	Atrophy	Minimal
* Parathyroid Gland		Hyperplasia	Minimal
	[ Hyperplasia TGLS = 4-7: Hyperplasia, Minimal ]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 5-7: Adenoma, Pars Distalis ]		
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
	Epidermis, SOA	Parakeratosis	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 288

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 588

**DOSE:** 100 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500618

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Urinary Bladder  
Vagina

Epithelium  
Transit Epithe

Inflammation  
Ulcer  
Hyperplasia  
Inflammation

Chronic Active, Moderate  
Marked  
Mild  
Suppurative, Moderate

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[ Inflammation TGLS = 1-11: Inflammation, Suppurative, Moderate ]

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PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

CONTRIBUTORY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:06

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 289

TRT#: 6

DOSE: 100 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 728

HISTO: 9500619

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
* Bone Marrow		Hyperplasia	Moderate
* Clitoral Gland	Bilateral, Duct	Cyst	Moderate
	[ Cyst TGLS = 2-10: Cyst, Duct, Bilateral, Moderate ]	Hyperplasia	Mild
* Heart		Cardiomyopathy	Chronic, Mild
* Intestine Small, Duodenum	Epithelium	Ulcer	Marked
* Kidney		Nephropathy	Chronic, Marked
	[ Nephropathy TGLS = 3-1: Nephropathy, Chronic, Marked ]	Pigmentation	Hemosiderin, Minimal
* Liver		Vacuolization Cytoplasmic	Moderate
	[ Vacuolization Cytoplasmic TGLS = 4-4+5: Vacuolization, Cytoplasmic, Moderate ]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
	[ Adenoma TGLS = 5-7: Adenoma, Pars Distalis ]		
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Mild
	Epidermis, SOA	Parakeratosis	Mild
* Spleen	Capsule	Fibrosis	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 289	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 728
	<b>DOSE:</b> 100 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9500619

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Fibrosis TGLS = 1-1: Fibrosis(Adhesion To Peritoneum),Capsule,Mild ]

* Stomach, Forestomach	Epithelium	Hyperplasia Inflammation Squamous Cell Papilloma	Moderate Chronic Active, Mild
* Thyroid Gland	Epithelium C Cell	Ulcer Adenoma	Moderate

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:06

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 290

TRT#: 6

DOSE: 100 MG/KG

SEX: Female

DISP: Natural Death

DAY ON TEST: 557

HISTO: 9500620

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | Blood Vessel               | * Bone                    |
| * Bone Marrow               | * Brain                  | * Clitoral Gland           | * Esophagus               |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Nose                     | * Parathyroid Gland       |
| * Salivary Glands           | * Spleen                 | * Stomach, Forestomach     | * Stomach, Glandular      |
| * Thymus                    | * Thyroid Gland          | * Trachea                  | * Urinary Bladder         |
| * Uterus                    |                          |                            |                           |

OBSERVATIONS

- |  |                   |   |  |
|--|-------------------|---|--|
| * Kidney   |                   | Mineralization<br>Nephropathy<br>Pigmentation | Minimal<br>Chronic, Mild<br>Hemosiderin, Minimal |
| [ Nephropathy TGLS = 2-1: Nephropathy, Chronic, Mild ]                 |                   |   |  |
| * Liver  |                   | Hepatodiaphragmatic Nodule                    |  |
| [ Hepatodiaphragmatic Nodule TGLS = 3-11: Hepatodiaphragmatic Nodule ] |                   |   |  |
| * Lung   | Alveolus          | Infiltration Cellular                         | Histiocyte, Minimal                              |
| Lymph Node   | Mediastinal       | Pigmentation                                  | Hemosiderin, Mild                                |
| * Mammary Gland  |                   | Hyperplasia                                   | Cystic, Mild                                     |
| * Ovary  |                   | Cyst  | Moderate   |
| [ Cyst TGLS = 1-10: Cyst, Moderate ]                                   |                   |   |  |
| * Pancreas   | Acinus            | Atrophy                                       | Minimal  |
| * Pituitary Gland  | Pars Distalis     | Adenoma                                       |  |
| [ Adenoma TGLS = 4-7: Adenoma, Pars Distalis ]                         |                   |   |  |
| * Skin   | Epidermis, SOA    | Hyperkeratosis                                | Minimal  |
|  | Epidermis, SOA    | Hyperplasia                                   | Mild   |
|  | SOA, Sebaceous GI | Hyperplasia                                   | Mild   |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH - Kidney Nephropathy

Animal Note: Death May Also Have Been Due To Asphyxiation Secondary To Food Lodged Near Tracheal Opening As Documented At Necropsy.

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:06

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 291

TRT#: 6

DOSE: 100 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 728

HISTO: 9500621

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Intestine Large, Rectum		Parasite Metazoan	
[ Parasite Metazoan TGLS = 2-10: Stromal Polyp ]			
* Kidney	Renal Tubule	Hyperplasia	Minimal
		Mineralization	Minimal
		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Mild
[ Nephropathy TGLS = 1-1: Nephropathy, Chronic, Moderate ]			
* Liver		Vacuolization Cytoplasmic	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Granulomatous, Minimal
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Mild
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Minimal
[ Cyst TGLS = 3-7: Cyst, Pars Distalis, Mild ]			
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Moderate
* Spleen			
Note: TGL#4-1-NCL: Splenic Deformity, Documented At Trim, Not Apparent Histologically.			
* Uterus		Polyp Stromal	
[ Polyp Stromal TGLS = 2-10: Stromal Polyp ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 14:36:06

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 291

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 728

**DOSE:** 100 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500621

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 292

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 728

**DOSE:** 100 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500622

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

\* Thymus

**OBSERVATIONS**

* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Mild
	[ Nephropathy TGLS = 1-1: Nephropathy, Chronic, Moderate ]		
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
	[ Hepatodiaphragmatic Nodule TGLS = 3,4-5+11: Hepatodiaphragmatic Nodule ]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Mild
	Lymph Node	Pigmentation	Hemosiderin, Mild
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
	[ Adenoma TGLS = 2-7: Adenoma, Pars Distalis ]		
* Skin	Epidermis, SOA	Hyperplasia	Minimal
	SOA, Sebaceous GI	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 292

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 728

**DOSE:** 100 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500622

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:06

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 293

TRT#: 6

SEX: Female

DAY ON TEST: 271

DOSE: 100 MG/KG

DISP: Natural Death

HISTO: 9500623

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | Blood Vessel               | * Bone                    |
| * Bone Marrow               | * Brain                  | * Clitoral Gland           | * Esophagus               |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Mammary Gland           |
| * Nose                      | * Ovary                  | * Pancreas                 | * Parathyroid Gland       |
| * Pituitary Gland           | * Salivary Glands        | * Spleen                   | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Thymus                 | * Thyroid Gland            | * Trachea                 |
| * Urinary Bladder           | * Uterus                 |                            |                           |

OBSERVATIONS

- |          |                   |                |                  |
|----------|-------------------|----------------|------------------|
| * Kidney |                   | Mineralization | Minimal          |
|          |                   | Nephropathy    | Chronic, Minimal |
| * Liver  |                   | Inflammation   | Chronic, Minimal |
| * Skin   | Epidermis, SOA    | Hyperkeratosis | Minimal          |
|          | Epidermis, SOA    | Hyperplasia    | Mild             |
|          | SOA, Sebaceous GI | Hyperplasia    | Mild             |
|          | Epidermis, SOA    | Parakeratosis  | Mild             |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:06

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 294

TRT#: 6

SEX: Female

DAY ON TEST: 537

DOSE: 100 MG/KG

DISP: Natural Death

HISTO: 9500624

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Heart		Cardiomyopathy	Chronic, Minimal
* Kidney		Mineralization	Mild
		Nephropathy	Chronic, Moderate
* Liver	Bile Duct	Hepatodiaphragmatic Nodule	
		Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Minimal
	[ Hepatodiaphragmatic Nodule TGLS = 3-4: Hepatodiaphragmatic Nodule ]		
* Lung		Inflammation	Chronic Active, Mild
* Mammary Gland		Hyperplasia	Cystic, Mild
* Ovary			
	Note: TGL #2, Ovarian Cyst, Not Apparent Histologically.		
	Oviduct		
	Note: TGL#2-10-NCL: Cyst, Documented At Necropsy, Not Apparent Histologically.		
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 1-7: Adenoma, Pars Distalis ]		
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:06

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 295

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 100 MG/KG

DISP: Terminal Sacrifice

HISTO: 9500625

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Moderate
* Bone Marrow		Hyperplasia	Marked
* Clitoral Gland		Hyperplasia	Mild
	[ Hyperplasia TGLS = 7-10: Hyperplasia, Mild ]		
* Kidney		Leukemia Mononuclear	
		Mineralization	Minimal
		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Moderate
	[ Leukemia Mononuclear TGLS = 7-10: Hyperplasia, Mild ]		
	[ Nephropathy TGLS = 2-1: Nephropathy, Chronic, Moderate ]		
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 3-4+5: Mononuclear Cell Leukemia ]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Mild
	[ Fibroadenoma TGLS = 1-11: Fibroadenoma ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 295	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 100 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 9500625

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Ovary		Cyst	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
	[ Hyperplasia TGLS = 6-7: Hyperplasia, Pars Distalis, Moderate ]		
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Marked
	SOA, Sebaceous GI	Hyperplasia	Moderate
	Epidermis, SOA	Parakeratosis	Moderate
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 4-11: Mononuclear Cell Leukemia ]		
* Thymus		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 5-2: Mononuclear Cell Leukemia ]		
* Thyroid Gland	C Cell	Adenoma	
* Urinary Bladder	Transit Epithe	Hyperplasia	Moderate

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 296

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 100 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500626

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Moderate
	[ Nephropathy TGLS = 1-1: Nephropathy, Chronic, Moderate ]	Pigmentation	Hemosiderin, Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Minimal
	[ Basophilic Focus TGLS = 1-1: Nephropathy, Chronic, Moderate ]		
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Cystic, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 2-7: Adenoma, Pars Distalis ]		
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
	[ Hyperplasia TGLS = 3-5: Hyperplasia, Epithelium, Mild ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:06

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 297

TRT#: 6

DOSE: 100 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 729

HISTO: 9500627

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adren Cortex			
Note: TGL#2-7-NCL: Adrenal Glands Within Normal Limits Histologically. Congestion May Have Resulted In Enlarged Appearance Documented At Necroscopy.			
* Heart		Cardiomyopathy	Chronic, Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
	[ Hepatodiaphragmatic Nodule TGLS = 4-11: Hepatodiaphragmatic Nodule ]		
	[ Leukemia Mononuclear TGLS = 4-11: Hepatodiaphragmatic Nodule ]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
Lymph Node	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Cystic, Mild
	[ Fibroadenoma TGLS = 1-11: Fibroadenoma ]		
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
	[ Adenoma TGLS = 3-7: Adenoma, Pars Distalis ]		
* Skin	Epidermis, SOA	Hyperkeratosis	Minimal
	Epidermis, SOA	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 297

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 100 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500627

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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SOA, Sebaceous GI

Hyperplasia

Mild

\* Spleen

Leukemia Mononuclear

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:06

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 298

TRT#: 6

DOSE: 100 MG/KG

SEX: Female

DISP: Natural Death

DAY ON TEST: 522

HISTO: 9500628

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Ovary	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

\* Parathyroid Gland

OBSERVATIONS

* Clitoral GI			
Note: Only One Clitoral Gland Available For Histologic Examination.			
* Kidney		Mineralization	Minimal
		Nephropathy	Chronic, Mild
		Pigmentation	Hemosiderin, Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
	Lymph Node	Pigmentation	Hemosiderin, Minimal
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 1-7: Adenoma, Pars Distalis ]		
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 55312-03

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Coconut oil acid diethanolamine condensate  
CAS Number: 68603-42-9

Date Report Requested: 10/22/2014

Time Report Requested: 14:36:06

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 299

TRT#: 6

DOSE: 100 MG/KG

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 702

HISTO: 9500629

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Kidney	Renal Tubule	Hyperplasia Mineralization Nephropathy Pigmentation	Minimal Minimal Chronic, Moderate Hemosiderin, Minimal
	[ Nephropathy TGLS = 1-1: Nephropathy, Chronic, Moderate ]		
* Liver		Vacuolization Cytoplasmic	Mild
* Mammary Gland		Hyperplasia	Cystic, Mild
Oral Mucosa	Gingival	Inflammation	Chronic Active, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 2-7: Adenoma, Pars Distalis ]		
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Mild
	SOA, Sebaceous GI	Hyperplasia	Mild
	Epidermis, SOA	Parakeratosis	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Inflammation	Chronic Active, Moderate
	Epithelium	Ulcer	Marked
	[ Ulcer TGLS = 3-4: Ulcer, Epithelium, Marked ]		
* Thyroid Gland	C Cell	Carcinoma	
* Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 299

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 702

**DOSE:** 100 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 9500629

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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CONTRIBUTORY CAUSE OF DEATH

- Kidney Nephropathy;Stomach;Forestomach Epithelium Ulcer

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 14:36:06  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 300

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 100 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500630

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

**OBSERVATIONS**

* Heart		Cardiomyopathy	Chronic, Minimal
* Islets, Pancreatic		Adenoma	
* Kidney	Renal Tubule	Hyperplasia	Minimal
		Leukemia Mononuclear	
		Mineralization	Minimal
		Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Minimal
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mediastinal	Pigmentation	Hemosiderin, Minimal
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Cystic, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 1-7: Adenoma, Pars Distalis ]		
* Skin	Epidermis, SOA	Hyperkeratosis	Mild
	Epidermis, SOA	Hyperplasia	Moderate
	SOA, Sebaceous GI	Hyperplasia	Moderate
* Spleen		Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 55312-03

**Test Type:** CHRONIC

**Route:** SKIN APPLICATION

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Coconut oil acid diethanolamine condensate  
**CAS Number:** 68603-42-9

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 14:36:06

**First Dose M/F:** NA / NA

**Lab:** BAT

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**ANIMAL ID:** 300

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 100 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 9500630

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thyroid Gland

C Cell

Hyperplasia

Minimal

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PRIMARY CAUSE OF DEATH

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

\* PROTOCOL REQUIRED TISSUE