

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

C Number:	C60106
Lock Date:	Not Entered.
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Both
PWG Approval Date	08/22/1990

Experiment Number: 05033-01

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Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 2

TRT#: 1

SEX: Male

DAY ON TEST: 636

DOSE: CONTROL UM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Tongue
Trachea	Urinary Bladder		

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Moderate
	Cortex	Vacuolization Cytoplasmic	Mild
Brain	Cerebellum	Infarct	Marked
		Leukemia Mononuclear	
Note: INFARCT	TGLs = 10-5		
Note: LEUKEMIA MONUC	TGLs = 10-5		
Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
Note: NEPHROPATHY	TGLs = 8-4		
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 9-3		
Lung		Leukemia Mononuclear	
	Artery	Mineralization	Minimal
[Leukemia Mononuclear TGLS = 2-1+2]			
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Mesentery		Leukemia Mononuclear	
		Necrosis	Coagulative, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

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CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 2	TRT#: 1	SEX: Male	DAY ON TEST: 636
	DOSE: CONTROL UM	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: NECROSIS TGLs = 6-3			
Note: LEUKEMIA MONUC TGLs = 6-3			
Nose	Lumen	Inflammation Leukemia Mononuclear	Acute, Minimal
Pituitary Gland	Pars Intermed Pars Distalis Pars Distalis	Cyst Hyperplasia Leukemia Mononuclear	Minimal Minimal
Note: LEUKEMIA MONUC TGLs = 11-8			
Preputial Gland		Inflammation	Chronic, Mild
Prostate		Inflammation	Chronic Active, Minimal
Seminal Vesicle		Atrophy	Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-3.1+3.2			
Testes	Interstit Cell Seminif Tub Interstit Cell	Adenoma Atrophy Hyperplasia	Moderate Minimal
Note: ADENOMA TGLs = 3,4-6			
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 3	TRT#: 1 DOSE: CONTROL UM	SEX: Male DISP: Dead	DAY ON TEST: 573 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Islets, Pancreatic	Lung
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea

MISSING

Lymph Node - Mandibular	Pituitary Gland	Tongue
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AUTO PRECLUDES DIAG.

Intestine Small - Jejunum

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Mild
Epididymis		Mesothelioma Malignant	
Note: MESOTHELIO MAL TGLs = 5-6			
Heart		Cardiomyopathy	Minimal
		Thrombosis	Moderate
Kidney		Nephropathy	Mild
	Epithelium, Prox Con Tub	Pigmentation	Moderate
Liver		Fatty Change	Moderate
	Bile Duct	Hyperplasia	Minimal
		Mesothelioma Malignant	
		Necrosis	Coagulative, Moderate
Note: MESOTHELIO MAL TGLs = 7-3			
Note: DEGEN TGLs = 7-3			
Note: NECROSIS TGLs = 7-3			
Lymph Node	Mediastinal	Hemorrhage	Mild
	Mesenteric	Infiltration Cellular	Histiocyte, Mild
	Mediastinal	Pigmentation	Mild
	Mesenteric	Pigmentation	Minimal
[Hemorrhage TGLS = 3-2]			
Mammary Gland		Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 3	TRT#: 1	SEX: Male	DAY ON TEST: 573
	DOSE: CONTROL UM	DISP: Dead	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS			
Mesentery		Mesothelioma Malignant	
Note: MESOTHELIO MAL	TGLs = 8-10		
Pancreas		Inflammation	Chronic, Minimal
		Mesothelioma Malignant	
Note: MESOTHELIO MAL	TGLs = 6-7+9		
Preputial Gland		Inflammation	Chronic, Mild
Prostate		Inflammation	Chronic Active, Minimal
Seminal Vesicle		Mesothelioma Malignant	
Note: MESOTHELIO MAL	TGLs = 9-6		
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal
		Mesothelioma Malignant	
Urinary Bladder		Mesothelioma Malignant	

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 4	TRT#: 1 DOSE: CONTROL UM	SEX: Male DISP: Moribund	DAY ON TEST: 226 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	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	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Pancreas	Parathyroid Gland	Prostate
Salivary Glands	Seminal Vesicle	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Mammary Gland	Preputial Gland
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AUTO PRECLUDES DIAG.

Pituitary Gland

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Cortex	Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Minimal
Liver	Bile Duct	Hyperplasia	Minimal
Nose	Nasopharyn Dct	Inflammation	Chronic, Minimal
Skin	Subcut Tiss	Inflammation	Granulomatous, Mild
	Subcut Tiss	Lipoma	

Note: LIPOMA TGLs = 1-13

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 5	TRT#: 1 DOSE: CONTROL UM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	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
Prostate	Spleen	Stomach - Forestomach	Tongue
Trachea	Urinary Bladder		

MISSING

Eye	Lymph Node - Mandibular	Salivary Glands	Thymus
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OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Eye			
Note: REPRESENTS ACCUMULATION OF PORPHYRIN PIGMENT ON THE LIDS.			
Note: EYE LESION WAS NOT FOUND IN BAGGED TISSUES. IT PROBABLY			
Heart		Cardiomyopathy	Minimal
Kidney	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Marked
Note: [NEPHROPATHY] TGLs = 4,5,6-4			
Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Lymph Node	Pancreatic	Hyperplasia	Plasma Cell, Mild
	Mesenteric	Infiltration Cellular	Histiocyte, Mild
	Mesenteric	Pigmentation	Minimal
Note: HYPERPLASIA TGLs = 3-8			
Pancreas		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
Seminal Vesicle		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:14
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 5	TRT#: 1 DOSE: CONTROL UM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
Stomach Note: GLANDULAR STOMACH. THIS MAY REFLECT UREMIA. Note: MILD MINERALITION WAS NOTED IN THE MUSCULARIS OF THE	Glandular, Muscularis	Mineralization	Mild
Testes Note: ADENOMA TGLs = 2-6	Interstit Cell Seminif Tub Interstit Cell	Adenoma Atrophy Hyperplasia	Marked Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 9

TRT#: 1

SEX: Male

DAY ON TEST: 562

DOSE: CONTROL UM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	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	Parathyroid Gland	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Tongue	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 7-4		
Liver		Cytoplasmic Alteration	Mild
		Degeneration	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Lymph Node	Renal	Ectasia	Marked
	Mesenteric	Infiltration Cellular	Histiocyte, Mild
	Mesenteric	Pigmentation	Minimal
Note: ECTASIA	TGLs = 6-10		
Mammary Gland		Hyperplasia	Mild
Pancreas		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Adenoma	
		Inflammation	Chronic, Mild
Note: INFLAMMATION	TGLs = 2-10		
Note: ADENOMA	TGLs = 2-10		
Prostate		Inflammation	Chronic Active, Minimal
Thymus		Depletion Lymphoid	Mild
Thyroid Gland		Ultimobranchial Cyst	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 9

TRT#: 1

SEX: Male

DAY ON TEST: 562

DOSE: CONTROL UM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 10

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL UM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Spleen
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Tongue
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	Multiple
Heart		Cardiomyopathy	Mild
Intestine Large	Colon	Parasite Metazoan	Minimal
Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 2,3-4			
Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
Lung	Artery	Mineralization	Minimal
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Moderate
Pancreas		Inflammation	Chronic, Minimal
Seminal Vesicle		Atrophy	Moderate
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal

Note: ADENOMA TGLs = 1-6

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 11

TRT#: 1

SEX: Male

DAY ON TEST: 679

DOSE: CONTROL UM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	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	Testes	Tongue	Trachea

MISSING

Lymph Node - Mesenteric

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Minimal
Coagulating Gland	Adventitia	Inflammation	Chronic Active, Mild
Note: INFLAMMATION TGLs = 2,3-6			
Heart		Cardiomyopathy	Moderate
Kidney		Nephropathy	Moderate
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	Artery	Mineralization	Minimal
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Mild
	Pancreatic	Infiltration Cellular	Histiocyte, Mild
	Pancreatic	Pigmentation	Minimal
Note: INFILTRAT CELL TGLs = 5-8			
Note: PIGMENT TGLs = 5-8			
Pancreas		Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 8-7			
Prostate		Inflammation	Chronic Active, Marked
Skin		Cyst Epithelial Inclusion	
Note: CYST EPITH INC TGLs = 1-9			
Spleen		Depletion Lymphoid	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 11

TRT#: 1

SEX: Male

DAY ON TEST: 679

DOSE: CONTROL UM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Fibrosis

Mild

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 6-3

Note: FIBROSIS TGLs = 7-3

Thymus

Depletion Lymphoid

Moderate

Thyroid Gland

C Cell

Adenoma

Urinary Bladder

Calculus Micro Observation Only

Note: CALCUS MIC OBS TGLs = 11

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 12

TRT#: 1

SEX: Male

DAY ON TEST: 458

DOSE: CONTROL UM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Coagulating Gland	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mandibular	Nose
Pancreas	Prostate	Salivary Glands	Seminal Vesicle
Spleen	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Tongue	Trachea	Urinary Bladder	

MISSING

Intestine Small - Duodenum	Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Mild
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Minimal
Liver		Congestion	Mild
		Fatty Change	Mild
		Hemorrhage	Mild
Note: CONGESTION	TGLs = 2-3		
Note: HEMORRHAGE	TGLs = 2-3		
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
Pituitary Gland	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Minimal
Preputial Gland		Inflammation	Chronic, Minimal
Skin	Subcut Tiss	Fibrosarcoma	
Note: FIBROSARC	TGLs = 1-13		
Testes	Interstit Cell	Hyperplasia	Minimal
Thymus		Depletion Lymphoid	Moderate
		Hemorrhage	Minimal

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 13

TRT#: 1

SEX: Male

DAY ON TEST: 728

DOSE: CONTROL UM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Parathyroid Gland	Prostate
Salivary Glands	Spleen	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Tongue	Trachea	Urinary Bladder

MISSING

Lymph Node - Mesenteric	Thymus
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OBSERVATIONS

Adrenal Gland Note: PHEOCHROM BGN TGLs = 3-7	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Mild
Intestine Large	Colon	Parasite Metazoan	Minimal
	Rectum	Parasite Metazoan	Minimal
Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Marked
Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Mild
		Leukemia Mononuclear	
Lung		Infiltration Cellular	Histiocyte, Minimal
Nose	Glands	Inflammation	Acute, Minimal
Pancreas		Atrophy	Mild
		Inflammation	Chronic, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Seminal Vesicle		Atrophy	Moderate
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
Note: ADENOMA TGLs = 1,2-6			

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 14

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL UM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Colon
Intestine Small - Jejunum
Spleen
Urinary Bladder

Brain
Intestine Large - Rectum
Islets, Pancreatic
Stomach - Glandular

Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Tongue

Intestine Large - Cecum
Intestine Small - Ileum
Salivary Glands
Trachea

MISSING

Prostate

OBSERVATIONS

Adrenal Gland
Epididymis
Heart
Kidney

Cortex

Transit Epithe

Hyperplasia
Mesothelioma Malignant
Cardiomyopathy
Hyperplasia
Nephropathy

Minimal

Moderate
Mild
Marked

Note: NEPHROPATHY TGLs = 5,6,7-4
Liver

Clear Cell Focus

Mild

Bile Duct

Hyperplasia
Inflammation

Mild
Chronic, Minimal

Lung
Lymph Node

Artery
Mesenteric
Pancreatic
Pancreatic

Mineralization
Hyperplasia
Infiltration Cellular
Pigmentation

Minimal
Plasma Cell, Mild
Histiocyte, Mild
Mild

Mesentery
Note: MESOTHELIO MAL TGLs = 4-11

Mesothelioma Malignant

Nose
Pancreas

Glands

Inflammation
Atrophy
Inflammation

Acute, Minimal
Minimal
Chronic, Minimal

Parathyroid Gland
Pituitary Gland
Seminal Vesicle
Stomach

Pars Intermed

Forestomach

Adenoma
Cyst
Atrophy
Hyperplasia

Minimal
Moderate
Basal Cell, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 14	TRT#: 1 DOSE: CONTROL UM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
Testes	Interstit Cell Seminif Tub	Adenoma Atrophy Mesothelioma Malignant	Marked
Note: MESOTHELIO MAL TGLs = 2-6 Note: ADENOMA TGLs = 1-6			
Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 15

TRT#: 1

SEX: Male

DAY ON TEST: 704

DOSE: CONTROL UM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Parathyroid Gland	Prostate
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Lymphoma Malignant Lymphocytic	
	Medulla	Lymphoma Malignant Lymphocytic	
	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Moderate
		Lymphoma Malignant Lymphocytic	
Intestine Small	Ileum	Lymphoma Malignant Lymphocytic	
Kidney		Lymphoma Malignant Lymphocytic	
		Nephropathy	Mild
Liver	Bile Duct	Hyperplasia	Moderate
		Lymphoma Malignant Lymphocytic	
Note: LYMPH MAL LYMP TGLs = 11-2			
Lung		Infiltration Cellular	Histiocyte, Minimal
		Lymphoma Malignant Lymphocytic	
[Lymphoma Malignant Lymphocytic TGLS = 3-1+2]			
Lymph Node	Mandibular	Lymphoma Malignant Lymphocytic	
	Mesenteric	Lymphoma Malignant Lymphocytic	
	Pancreatic	Lymphoma Malignant Lymphocytic	
	Renal	Lymphoma Malignant Lymphocytic	
Note: LYMPH MAL LYMP TGLs = 10-3			
Note: LYMPH MAL LYMP TGLs = 9-7			
Note: LYMPH MAL LYMP TGLs = 8-8.1			
Pancreas		Atrophy	Mild
		Lymphoma Malignant Lymphocytic	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 15	TRT#: 1 DOSE: CONTROL UM	SEX: Male DISP: Moribund	DAY ON TEST: 704 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
Pituitary Gland	Pars Distalis Pars Intermed Pars Nervosa	Lymphoma Malignant Lymphocytic Lymphoma Malignant Lymphocytic Lymphoma Malignant Lymphocytic	
Seminal Vesicle		Atrophy	Moderate
Spleen		Infarct Lymphoma Malignant Lymphocytic	Mild
Note: INFARCT TGLs = 7-3.1 Note: LYMPH MAL LYMP TGLs = 6-3.1			
Testes	Interstit Cell Seminif Tub Interstit Cell	Adenoma Atrophy Hyperplasia	Mild Minimal
Note: ADENOMA TGLs = 4,5-6			
Thymus		Lymphoma Malignant Lymphocytic	
Note: LYMPH MAL LYMP TGLs = 2-2.1			
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 16

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL UM

DISP: Terminal Sacrifice

HISTO:

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	Parathyroid Gland
Prostate	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Tongue	Trachea	Urinary Bladder	

MISSING

Lymph Node - Mesenteric

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Minimal
	Cortex	Leukemia Mononuclear	
	Cortex	Vacuolization Cytoplasmic	Mild
Heart		Cardiomyopathy	Mild
	Kidney	Transit Epithe	Hyperplasia
		Leukemia Mononuclear	
		Nephropathy	Moderate
		Hepatocellular Adenoma	
Liver	Bile Duct	Hyperplasia	Moderate
		Hyperplasia	Focal, Moderate
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
	Artery	Mineralization	Minimal
Lymph Node	Mandibular	Hemorrhage	Moderate
	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	

Note: LEUKEMIA MONUC TGLs = 7-3
Note: [HYPERPLASIA] TGLs = 8-3
Note: LEUKEMIA MONUC TGLs = 5-1+2
Note: LEUKEMIA MONUC TGLs = 6-11
Note: LEUKEMIA MONUC TGLs = 9-8

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 16

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL UM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Mammary Gland

Fibroadenoma

Hyperplasia

Minimal

Note: FIBROADENOMA TGLs = 2-10

Pancreas

Inflammation

Chronic, Minimal

Pituitary Gland

Pars Distalis

Angiectasis

Mild

Pars Intermed

Cyst

Minimal

Pars Distalis

Hyperplasia

Mild

Pars Distalis

Leukemia Mononuclear

Seminal Vesicle

Atrophy

Mild

Skin

Acanthosis

Mild

Hyperkeratosis

Marked

Note: ACANTHOSIS TGLs = 1-11

Note: HYPERKERATOSIS TGLs = 1-11

Spleen

Depletion Lymphoid

Marked

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 4-3]

Testes

Interstit Cell

Adenoma

Marked

Seminif Tub

Atrophy

Marked

Interstit Cell

Hyperplasia

Minimal

Note: ADENOMA TGLs = 3-6

Thymus

Depletion Lymphoid

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 17

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL UM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - 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
Nose	Parathyroid Gland	Prostate	Salivary Glands
Spleen	Stomach - Glandular	Thyroid Gland	Tongue
Trachea	Urinary Bladder		

MISSING

Stomach - Forestomach	Thymus
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OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Mild
Liver		Eosinophilic Focus	Mild
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Pancreas		Atrophy	Minimal
		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Seminal Vesicle		Atrophy	Mild
Skeletal Muscle		Sarcoma	
Note: SARCOMA TGLs = 2-10			
Note: THE POORLY DIFFERENTIATED SARCOMA WAS LOCATED IN THE			
Note: RETROPERITONEAL AREA.			
Testes	Interstitial Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Interstitial Cell	Hyperplasia	Minimal
Note: ADENOMA TGLs = 1-6			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 17

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL UM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 18

TRT#: 1

SEX: Male

DAY ON TEST: 724

DOSE: CONTROL UM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum
Islets, Pancreatic	Pancreas	Parathyroid Gland	Prostate
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Tongue
Trachea	Urinary Bladder		

MISSING

Intestine Small - Ileum	Lymph Node - Mandibular	Salivary Glands	Thymus
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OBSERVATIONS

Adrenal Gland	Cortex	Congestion	Moderate
	Cortex	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
	Cortex	Vacuolization Cytoplasmic	Moderate
Note: PHEOCHROM BGN TGLs = 4-7			
Blood Vessel	Aorta	Mineralization	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Transit Epithe	Mineralization	Minimal
		Nephropathy	Moderate
Liver		Cytoplasmic Alteration	Mild
		Leukemia Mononuclear	
		Necrosis	Coagulative, Mild
Note: LEUKEMIA MONUC TGLs = 5-3			
Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
Lymph Node	Mesenteric	Leukemia Mononuclear	
Nose		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Cyst	Minimal
Seminal Vesicle		Atrophy	Mild
Note: ATROPHY TGLs = 1-6			
Spleen		Depletion Lymphoid	Moderate
		Fibrosis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 18

TRT#: 1

SEX: Male

DAY ON TEST: 724

DOSE: CONTROL UM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Leukemia Mononuclear

Note: FIBROSIS TGLs = 3-3

[Leukemia Mononuclear TGLS = 3-3]

Testes

Interstit Cell

Adenoma

Seminif Tub

Atrophy

Marked

Note: ADENOMA TGLs = 2-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 19

TRT#: 1

SEX: Male

DAY ON TEST: 724

DOSE: CONTROL UM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Parathyroid Gland	Pituitary Gland	Prostate
Stomach - Forestomach	Stomach - Glandular	Tongue	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Moderate
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
Intestine Large	Rectum	Parasite Metazoan	Minimal
Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 5-4			
Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Lung		Hemorrhage	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
Lymph Node	Mandibular	Hemorrhage	Mild
Nose	Lumen	Inflammation	Acute, Mild
Pancreas		Inflammation	Chronic, Minimal
Seminal Vesicle		Atrophy	Mild
Note: ATROPHY TGLs = 3-6			
Spleen		Infarct	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-3			
Testes	Interstitial Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
Note: ADENOMA TGLs = 1,2-6			
Thyroid Gland	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 19

TRT#: 1

SEX: Male

DAY ON TEST: 724

DOSE: CONTROL UM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 21

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: CONTROL UM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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	Spleen	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Tongue	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	Multiple
Heart		Cardiomyopathy	Moderate
Kidney	Renal Tubule	Hyperplasia	Mild
	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 5-4			
Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
Lung		Alveolar/Bronchiolar Adenoma	
	Artery	Mineralization	Minimal
[Alveolar/Bronchiolar Adenoma TGLS = 4-1]			
Lymph Node	Mandibular	Hemorrhage	Moderate
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA TGLs = 2-10			
Pancreas		Atrophy	Moderate
		Inflammation	Chronic, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Prostate		Inflammation	Chronic Active, Moderate
Seminal Vesicle		Atrophy	Mild
Skin		Cyst Epithelial Inclusion	
Note: CYST EPITH INC TGLs = 1-8			
Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 21

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: CONTROL UM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Seminif Tub

Atrophy

Marked

Note: ADENOMA TGLs = 3-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 22

TRT#: 1

SEX: Male

DAY ON TEST: 721

DOSE: CONTROL UM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Epididymis	Esophagus	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Nose	Parathyroid Gland
Stomach - Forestomach	Stomach - Glandular	Tongue	Trachea
Urinary Bladder			

MISSING

Lymph Node - Mesenteric

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
	Cortex	Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
Intestine Large	Cecum	Parasite Metazoan	Minimal
Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
Note: NEPHROPATHY TGLs = 7-4			
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 8-3			
Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	Artery	Mineralization	Minimal
Note: LEUKEMIA MONUC TGLs = 1-1			
Pancreas		Atrophy	Minimal
		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 9-7			
Prostate		Inflammation	Chronic Active, Minimal
Seminal Vesicle		Atrophy	Moderate
Note: ATROPHY TGLs = 4-6			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:14
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 22	TRT#: 1 DOSE: CONTROL UM	SEX: Male DISP: Moribund	DAY ON TEST: 721 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Depletion Lymphoid Leukemia Mononuclear	Mild
[Depletion Lymphoid TGLS = 6-3]			
Testes	Interstit Cell Seminif Tub Interstit Cell	Adenoma Atrophy Hyperplasia Necrosis	Marked Minimal Coagulative, Moderate
Note: ADENOMA TGLs = 2,3-6			
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 23

TRT#: 1

SEX: Male

DAY ON TEST: 724

DOSE: CONTROL UM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Cecum
Intestine Small - Jejunum
Parathyroid Gland
Trachea

Brain
Intestine Large - Rectum
Islets, Pancreatic
Spleen
Urinary Bladder

Epididymis
Intestine Small - Duodenum
Lung
Stomach - Forestomach

Esophagus
Intestine Small - Ileum
Nose
Stomach - Glandular

MISSING

Tongue

OBSERVATIONS

Adrenal Gland
Heart
Intestine Large
Kidney
Liver

Cortex

Angiectasis
Cardiomyopathy
Parasite Metazoan
Nephropathy
Basophilic Focus
Clear Cell Focus
Hyperplasia
Angiectasis
Hemorrhage

Minimal
Mild
Mild
Mild
Minimal
Minimal
Minimal
Moderate
Marked

Lymph Node

Bile Duct
Mandibular
Mandibular

Note: ANGIECTASIS TGLs = 1-8
Note: HEMORRHAGE TGLs = 1-8

Pancreas

Atrophy
Inflammation

Minimal
Chronic, Minimal

Pituitary Gland

Pars Distalis
Pars Intermed

Adenoma
Cyst

Minimal

Note: ADENOMA TGLs = 5-7

Prostate
Seminal Vesicle
Testes

Inflammation
Atrophy
Adenoma
Atrophy
Hyperplasia

Chronic Active, Mild
Mild
Marked
Minimal

Note: ADENOMA TGLs = 2-6

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 23

TRT#: 1

SEX: Male

DAY ON TEST: 724

DOSE: CONTROL UM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 25

TRT#: 1

SEX: Male

DAY ON TEST: 682

DOSE: CONTROL UM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Epididymis	Esophagus	Islets, Pancreatic	Seminal Vesicle
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Tongue
Trachea	Urinary Bladder		

MISSING

Parathyroid Gland

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum		

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 10-7		
Brain		Hemorrhage	Marked
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 12-5		
Note: HEMORRHAGE	TGLs = 12-5		
Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 11-3		
Lung		Hemorrhage	Mild
		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	Artery	Mineralization	Minimal
Note: HEMORRHAGE	TGLs = 3-1+2		
Note: LEUKEMIA MONUC	TGLs = 3-1+2		
Lymph Node	Mandibular	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 25

TRT#: 1

SEX: Male

DAY ON TEST: 682

DOSE: CONTROL UM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Mesenteric

Leukemia Mononuclear

Pancreatic

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 8-7

Note: LEUKEMIA MONUC TGLs = 9-10

Note: LEUKEMIA MONUC TGLs = 2-8

Nose

Glands

Inflammation

Acute, Minimal

Pancreas

Atrophy

Minimal

Note: SLIGHT AUTOLYSIS AFFECTED THE PANCREAS AND MAY ACCOUNT

Note: FOR THE GREEN FOCI.

Pituitary Gland

Pars Distalis

Leukemia Mononuclear

Prostate

Inflammation

Chronic Active, Mild

Spleen

Depletion Lymphoid

Moderate

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 6-3

Stomach

Note: THE GLANDULAR STOMACH.

Note: FOCI OF AUTOLYSIS ACCOUNT FOR THE GROSS OBSERVATIONS IN

Testes

Interstit Cell

Adenoma

Seminif Tub

Atrophy

Moderate

Note: ADENOMA TGLs = 4-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 27

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: CONTROL UM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

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

Seminal Vesicle

Spleen

Stomach - Forestomach

Stomach - Glandular

Thyroid Gland

Tongue

Trachea

Urinary Bladder

OBSERVATIONS

Heart

Cardiomyopathy

Mild

Kidney

Nephropathy

Moderate

Note: NEPHROPATHY TGLs = 6,7-4

Liver

Clear Cell Focus

Minimal

Degeneration

Cystic, Minimal

Hepatocellular Adenoma

Bile Duct

Hyperplasia

Mild

Inflammation

Chronic, Minimal

Note: [HEPATOCLR ADEN] TGLs = 10,11-3

Lung

Mineralization

Minimal

Lymph Node

Artery

Ectasia

Mild

Lumbar

Hemorrhage

Moderate

Mandibular

Pigmentation

Mild

Renal

Note: PIGMENT TGLs = 8-4

Note: ECTASIA TGLs = 9-1

Mammary Gland

Galactocele

Mild

Note: GALACTOCELE TGLs = 13-10

Mesentery

Inflammation

Chronic, Moderate

Note: INFLAMMATION TGLs = 5-10

Nose

Glands

Inflammation

Acute, Minimal

Pancreas

Inflammation

Chronic, Minimal

Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Hyperplasia

Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 27

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: CONTROL UM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA	TGLs = 12		
Prostate		Inflammation	Chronic Active, Mild
Skin		Squamous Cell Papilloma	
Note: PAPILLOMA SQUA	TGLs = 1-11		
Testes		Adenoma	
		Seminif Tub	Mild
		Interstit Cell	Minimal
Note: ADENOMA	TGLs = 2,3-6		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 28

TRT#: 1

SEX: Male

DAY ON TEST: 717

DOSE: CONTROL UM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - 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
Nose	Parathyroid Gland	Prostate	Spleen
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Tongue
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
	Medulla	Pheochromocytoma Malignant	
Note: PHEOCHROM MAL TGLs = 9-7.1			
Heart		Cardiomyopathy	Mild
		Schwannoma Benign	
Note: TECHNICALLY THE TUMOR LINING THE CARDIAC VENTRICLE LOOKS LIKE A NEURINOMA HOWEVER THIS TERM WAS NOT AVAILABLE IN THE PCT.			
Kidney	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 10,11,12-4			
Liver		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Necrosis	Coagulative, Mild
Lung		Hemorrhage	Minimal
		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
		Pheochromocytoma Malignant	Metastatic (Adrenal Gland)
[Hemorrhage TGLs = 2-2]			
Lymph Node	Mediastinal	Hemorrhage	Mild
	Mesenteric	Infiltration Cellular	Histiocyte, Mild
	Pancreatic	Infiltration Cellular	Histiocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 28

TRT#: 1

SEX: Male

DAY ON TEST: 717

DOSE: CONTROL UM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Mesenteric

Pigmentation

Mild

Pancreatic

Pigmentation

Mild

Renal

Pigmentation

Mild

Note: PIGMENT TGLs = 13-4

Note: HEMORRHAGE TGLs = 3-2

Pancreas

Atrophy

Minimal

Inflammation

Chronic, Minimal

Pituitary Gland

Pars Distalis

Hyperplasia

Minimal

Seminal Vesicle

Atrophy

Mild

Note: ATROPHY TGLs = 5-6

Testes

Interstit Cell

Adenoma

Moderate

Seminif Tub

Atrophy

Interstit Cell

Hyperplasia

Minimal

Note: ADENOMA TGLs = 4-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 29

TRT#: 1

SEX: Male

DAY ON TEST: 590

DOSE: CONTROL UM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Parathyroid Gland
Prostate	Seminal Vesicle	Skin	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Tongue	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Cortex	Vacuolization Cytoplasmic	Minimal
Heart		Leukemia Mononuclear	
Intestine Large	Colon	Parasite Metazoan	Minimal
Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
	Epithelium, Prox Con Tub	Pigmentation	Moderate
Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-3		
Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3,4-1+2]			
Lymph Node	Mandibular	Ectasia	Mild
	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mediastinal	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
	Mesenteric	Pigmentation	Minimal
Note: LEUKEMIA MONUC	TGLs = 8-3		
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 2-13		
Pancreas		Inflammation	Chronic, Minimal
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 29

TRT#: 1

SEX: Male

DAY ON TEST: 590

DOSE: CONTROL UM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Pituitary Gland
Preputial Gland
Spleen

Pars Distalis

Leukemia Mononuclear
Inflammation
Depletion Lymphoid
Leukemia Mononuclear

Chronic, Mild
Moderate

Note: LEUKEMIA MONUC TGLs = 6-3

Testes

Interstit Cell
Seminif Tub
Interstit Cell

Adenoma
Atrophy
Hyperplasia

Moderate
Minimal

Note: ADENOMA TGLs = 5-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 30

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: CONTROL UM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - 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
Spleen	Stomach - Forestomach	Stomach - Glandular	Tongue
Trachea	Urinary Bladder		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Minimal
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Mild
Liver		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
Lung		Carcinoma	Metastatic (Thyroid Gland)
		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Pancreas		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Prostate		Inflammation	Chronic Active, Minimal
Seminal Vesicle		Atrophy	Mild
Testes	Interstitial Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Interstitial Cell	Hyperplasia	Minimal
Note: ADENOMA	TGLs = 2,3-6		
Thyroid Gland	C Cell	Carcinoma	
	C Cell	Hyperplasia	Minimal
Note: CARCINOMA	TGLs = 1-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 34

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: CONTROL UM

DISP: Terminal Sacrifice

HISTO:

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	Parathyroid Gland
Prostate	Spleen	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Tongue	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
	Cortex	Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Mild
	Coron Artery	Inflammation	Chronic Active, Mild
Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 6-4		
Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Degeneration	Cystic, Minimal
		Fibrosis	Mild
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
Note: FIBROSIS	TGLs = 7-3		
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mandibular	Ectasia	Mild
	Mandibular	Hemorrhage	Mild
	Mediastinal	Hemorrhage	Mild
Note: HEMORRHAGE	TGLs = 1-10		
Pancreas		Atrophy	Minimal
		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Angiectasis	Minimal
	Pars Distalis	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 34

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: CONTROL UM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ANGIECTASIS TGLs = 8-7

Seminal Vesicle

Testes

Interstit Cell

Seminif Tub

Interstit Cell

Atrophy

Adenoma

Atrophy

Hyperplasia

Mild

Marked

Minimal

Note: ADENOMA TGLs = 3-6

Note: ATROPHY TGLs = 4-6

Thymus

Mediastinum

Basosquamous Tumor Nos

Note: THIS IS AN UNUSUAL TUMOR WHICH MAY HAVE ARISEN WITHIN

Note: THYMIC DUCTS IN THE MEDIASTINUM. THE MASS IS COMPOSED OF

Note: PAPILLARY-LIKE FRONDS PROJECTING INTO CYSTIC SPACES.

Note: THE FRONDS ARE COVERED BY AN EPITHELIUM WITH SQUAMOUS AND

Note: BASAL CELL DIFFERENTIATION.

Note: BASOSQU TM NOS TGLs = 2-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 35

TRT#: 1

SEX: Male

DAY ON TEST: 724

DOSE: CONTROL UM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	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	Prostate	Spleen	Stomach - Forestomach
Stomach - Glandular	Tongue	Trachea	Urinary Bladder

MISSING

Lymph Node - Mandibular

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Cyst	Mild
	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 2,3-4		
Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Nose	Glands	Inflammation	Acute, Minimal
Pancreas		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Cyst	Mild
Seminal Vesicle		Atrophy	Mild
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal
		Ultimobranchial Cyst	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 35

TRT#: 1

SEX: Male

DAY ON TEST: 724

DOSE: CONTROL UM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 37

TRT#: 1

SEX: Male

DAY ON TEST: 656

DOSE: CONTROL UM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Esophagus	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Parathyroid Gland	Stomach - Forestomach	Stomach - Glandular	Tongue
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
	Cortex	Lymphoma Malignant Lymphocytic	
	Medulla	Lymphoma Malignant Lymphocytic	
Epididymis		Lymphoma Malignant Lymphocytic	
Heart		Cardiomyopathy	Moderate
		Lymphoma Malignant Lymphocytic	
Note: LYMPH MAL LYMP TGLs = 9-2			
Intestine Large	Cecum	Lymphoma Malignant Lymphocytic	
Kidney	Transit Epithe	Hyperplasia	Minimal
		Lymphoma Malignant Lymphocytic	
	Epithelium, Prox Con Tub	Nephropathy	Moderate
Liver	Bile Duct	Pigmentation	Mild
		Hyperplasia	Moderate
		Lymphoma Malignant Lymphocytic	
Note: LYMPH MAL LYMP TGLs = 17-3			
Lung		Infiltration Cellular	Histiocyte, Minimal
		Lymphoma Malignant Lymphocytic	
	Artery	Mineralization	Minimal
		Necrosis	Coagulative, Minimal
Note: LYMPH MAL LYMP TGLs = 8-1+2 [Necrosis TGLS = 8-1+2]			
Lymph Node	Mandibular	Hemorrhage	Moderate
	Mesenteric	Hemorrhage	Minimal
	Pancreatic	Hemorrhage	Marked
	Renal	Hemorrhage	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 37	TRT#: 1 DOSE: CONTROL UM	SEX: Male DISP: Moribund	DAY ON TEST: 656 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Lumbar	Lymphoma Malignant Lymphocytic
Mandibular	Lymphoma Malignant Lymphocytic
Mediastinal	Lymphoma Malignant Lymphocytic
Mesenteric	Lymphoma Malignant Lymphocytic
Pancreatic	Lymphoma Malignant Lymphocytic
Renal	Lymphoma Malignant Lymphocytic

Note: HEMORRHAGE TGLs = 15-4
 Note: HEMORRHAGE TGLs = 11-10
 Note: LYMPH MAL LYMP TGLs = 11-10
 Note: HEMORRHAGE TGLs = 12-8.1
 Note: LYMPH MAL LYMP TGLs = 12-8.1
 Note: LYMPH MAL LYMP TGLs = 16-7
 Note: LYMPH MAL LYMP TGLs = 15-4
 Note: LYMPH MAL LYMP TGLs = 7-1

[Hemorrhage TGLS = 2-8]
 [Lymphoma Malignant Lymphocytic TGLS = 2-8]

Pancreas		Atrophy Lymphoma Malignant Lymphocytic	Mild
Pituitary Gland	Pars Distalis	Lymphoma Malignant Lymphocytic	
Preputial Gland		Adenoma Inflammation	Chronic, Mild
Prostate		Lymphoma Malignant Lymphocytic	
Seminal Vesicle		Atrophy	Mild
Spleen		Depletion Lymphoid Lymphoma Malignant Lymphocytic	Moderate
Testes	Interstit Cell Seminif Tub	Adenoma Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 37

TRT#: 1

SEX: Male

DAY ON TEST: 656

DOSE: CONTROL UM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 4-6	Interstit Cell	Hyperplasia	Minimal
Thymus		Lymphoma Malignant Lymphocytic	
Note: LYMPH MAL LYMP TGLs = 6-2			
Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicle	Pigmentation	Minimal
Note: THE PIGMENT OBSERVED APPEARS TO BE WITHIN MACROPHAGES IN			
Note: A RARE FOLLICLE.			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 38

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL UM

DISP: Terminal Sacrifice

HISTO:

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
Parathyroid Gland	Spleen	Stomach - Forestomach	Stomach - Glandular
Tongue	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Minimal
	Medulla	Hyperplasia	Mild
Heart		Cardiomyopathy	Mild
Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 4,5-4		
Liver		Degeneration	Cystic, Minimal
		Eosinophilic Focus	Mild
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Mixed Cell Focus	
Lung	Artery	Mineralization	Minimal
Nose	Glands	Inflammation	Acute, Mild
Note: ASPERGILLUS SPECIES			
Note: SURROUNDED BY NEUTROPHILS. THESE ARE PRESUMABLY			
Note: FUNGAL HYPHAE WERE NOTED IN THE LUMEN OF THE NOSE			
Pancreas		Atrophy	Minimal
	Duct	Dilatation	Minimal
		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Mild
Prostate	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 38

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL UM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Seminal Vesicle		Atrophy	Mild
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
Note: ADENOMA	TGLs = 1,2-6		
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 41

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL UM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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
Parathyroid Gland	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Tongue	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Mild
	Medulla	Hyperplasia	Mild
Heart		Cardiomyopathy	Mild
Intestine Large	Cecum	Parasite Metazoan	Minimal
Kidney		Nephropathy	Moderate
Liver		Degeneration	Cystic, Minimal
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
Lung	Artery	Mineralization	Minimal
Lymph Node	Mediastinal	Hemorrhage	Mild
	Pancreatic	Hemorrhage	Minimal
Note: HEMORRHAGE TGLs = 3-9 [Hemorrhage TGLS = 2-1]			
Pancreas		Atrophy	Marked
		Inflammation	Chronic, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 5-7			
Prostate		Inflammation	Chronic Active, Mild
Seminal Vesicle		Atrophy	Mild
Spleen		Fibrosis	Moderate
		Pigmentation	Moderate
Note: FIBROSIS TGLs = 4-3			
Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 41

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL UM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Seminif Tub

Atrophy

Marked

Note: ADENOMA TGLs = 1-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 42

TRT#: 1

SEX: Male

DAY ON TEST: 724

DOSE: CONTROL UM

DISP: Terminal Sacrifice

HISTO:

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	Parathyroid Gland	Pituitary Gland
Prostate	Spleen	Stomach - Forestomach	Stomach - Glandular
Tongue	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Mild
	Medulla	Angiectasis	Mild
	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Mild
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Minimal
		Degeneration	Minimal
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
Lung	Artery	Mineralization	Minimal
Lymph Node	Mandibular	Hemorrhage	Moderate
Nose	Glands	Inflammation	Acute, Minimal
Pancreas		Inflammation	Chronic, Minimal
Seminal Vesicle		Atrophy	Mild
Note: ATROPHY	TGLs = 2-6		
Testes	Interstitial Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
Note: ADENOMA	TGLs = 1-6		
Thyroid Gland	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 43

TRT#: 1

SEX: Male

DAY ON TEST: 724

DOSE: CONTROL UM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Tongue	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Hematopoietic Cell Proliferation	Minimal
	Medulla	Hyperplasia	Mild
Brain	Chor Plexus	Sarcoma	Metastatic (Uncertain Primary Site)
Heart		Cardiomyopathy	Mild
		Thrombosis	Moderate
Note: THROMBUS	TGLs = 7-2		
Kidney		Nephropathy	Mild
		Sarcoma	Metastatic (Uncertain Primary Site)
Note: SARCOMA	TGLs = 6-4		
Liver		Degeneration	Minimal
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Necrosis	Coagulative, Mild
		Sarcoma	Metastatic (Uncertain Primary Site)
Note: SARCOMA	TGLs = 5-3		
Lung	Artery	Mineralization	Minimal
		Sarcoma	Metastatic (Uncertain Primary Site)
Note: SARCOMA	TGLs = 3-1+2		
Lymph Node	Mediastinal	Sarcoma	Metastatic (Uncertain Primary Site)
Note: SARCOMA	TGLs = 2-1		
Pituitary Gland	Pars Distalis	Adenoma	
Prostate		Inflammation	Chronic Active, Minimal
Seminal Vesicle		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 43

TRT#: 1

SEX: Male

DAY ON TEST: 724

DOSE: CONTROL UM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Hematopoietic Cell Proliferation	Moderate
Note: POOLING OF BLOOD IN A SUBCAPSULAR AREA.			
Note: THE BLACK FOCUS OBSERVED IN THE SPLEEN REPRESENTS THE			
Testes	Interstit Cell Seminif Tub	Adenoma Atrophy	Marked
Note: ADENOMA TGLs = 1-6			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 44

TRT#: 1

SEX: Male

DAY ON TEST: 654

DOSE: CONTROL UM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - 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
Mammary Gland	Nose	Parathyroid Gland	Spleen
Thyroid Gland	Tongue	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Minimal
Bone		Osteoma	
Note: OSTEOMA	TGLs = 3-10		
Heart		Cardiomyopathy	Moderate
Kidney		Nephropathy	Mild
Liver		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Note: INFILTRAT CELL	TGLs = 5-1+2		
Lymph Node	Renal	Hyperplasia	Plasma Cell, Mild
	Mesenteric	Infiltration Cellular	Histiocyte, Mild
	Mesenteric	Pigmentation	Minimal
Note: PIGMENT	TGLs = 8-11		
Note: HYPERPLASIA	TGLs = 11-12		
Pancreas		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 12-7		
Prostate		Inflammation	Chronic Active, Mild
Seminal Vesicle		Atrophy	Mild
Stomach	Forestomach	Inflammation	Chronic Active, Moderate
	Glandular	Inflammation	Chronic Active, Moderate
Testes	Interstit Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 44

TRT#: 1

SEX: Male

DAY ON TEST: 654

DOSE: CONTROL UM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 45

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL UM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Intestine Large - Cecum
Intestine Small - Jejunum
Pituitary Gland
Stomach - Glandular

Brain
Intestine Large - Rectum
Islets, Pancreatic
Prostate
Trachea

Epididymis
Intestine Small - Duodenum
Lymph Node - Mandibular
Spleen
Urinary Bladder

Esophagus
Intestine Small - Ileum
Parathyroid Gland
Stomach - Forestomach

MISSING

Tongue

OBSERVATIONS

Adrenal Gland
Medulla
Medulla
Note: PHEOCHROM BGN TGLs = 5-7

Hyperplasia
Pheochromocytoma Benign

Mild
Multiple

Heart
Note: THROMBUS TGLs = 1-2

Cardiomyopathy
Thrombosis

Mild
Moderate

Intestine Large
Kidney
Note: NEPHROPATHY TGLs = 6-4

Colon
Parasite Metazoan
Nephropathy

Minimal
Moderate

Liver

Basophilic Focus
Bile Duct
Hyperplasia
Inflammation
Alveolar/Bronchiolar Adenoma

Minimal
Minimal
Chronic, Minimal

Lung
Nose

Artery
Mineralization

Minimal

Pancreas
Seminal Vesicle
Testes

Glands
Inflammation
Inflammation
Atrophy

Acute, Minimal
Chronic, Minimal
Moderate

Interstitial Cell
Seminif Tub
Interstitial Cell
Adenoma
Atrophy
Hyperplasia

Marked
Minimal

Note: ADENOMA TGLs = 3,4-6
Thyroid Gland

C Cell
Hyperplasia

Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 45

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL UM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 46

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: CONTROL UM

DISP: Terminal Sacrifice

HISTO:

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	Nose
Parathyroid Gland	Prostate	Stomach - Forestomach	Stomach - Glandular
Tongue	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Moderate
Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 9-4			
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 10-3			
Lung		Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
	Artery	Mineralization	Minimal
Pancreas		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Cyst	Marked
Note: CYST TGLs = 4-10			
Seminal Vesicle		Atrophy	Mild
Note: ATROPHY TGLs = 7-6			
Skin	Subcut Tiss	Fibroma	
Note: FIBROMA TGLs = 1-11			
Spleen		Fibrosis	Mild
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:14
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 46	TRT#: 1 DOSE: CONTROL UM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 727 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: LEUKEMIA MONUC TGLs = 8-3 Testes	Interstit Cell Seminif Tub Interstit Cell	Necrosis Adenoma Atrophy Hyperplasia	Coagulative, Mild Marked Minimal
Note: ADENOMA TGLs = 5-6 Note: ATROPHY TGLs = 6-6 Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 49

TRT#: 1

SEX: Male

DAY ON TEST: 674

DOSE: CONTROL UM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Esophagus	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Nose	Parathyroid Gland	Prostate
Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular	Tongue
Trachea			

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Minimal
	Medulla	Angiectasis	Minimal
	Medulla	Hyperplasia	Mild
Epididymis		Mesothelioma Malignant	
Harderian Gland		Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 3-11			
Heart		Cardiomyopathy	Mild
Intestine Large	Cecum	Parasite Metazoan	Minimal
Kidney		Nephropathy	Moderate
	Epithelium, Prox Con Tub	Pigmentation	Moderate
Note: PIGMENT TGLs = 10,11-4			
Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 12-3			
Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Mild
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Pigmentation	Minimal
Note: LEUKEMIA MONUC TGLs = 14-1			
Note: PIGMENT TGLs = 7-12			
Mesentery		Mesothelioma Malignant	
		Pigmentation	Minimal
Note: MESOTHELIO MAL TGLs = 6-9+10			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 49

TRT#: 1

SEX: Male

DAY ON TEST: 674

DOSE: CONTROL UM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: PIGMENT TGLs = 6-9+10				
Pancreas			Mesothelioma Malignant Pigmentation	Moderate
Note: MESOTHELIO MAL TGLs = 9-8				
Pituitary Gland	Pars Distalis		Adenoma	
Note: ADENOMA TGLs = 15-7				
Spleen			Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 8-3				
Testes	Interstit Cell		Adenoma	
	Seminif Tub		Atrophy	Marked
	Interstit Cell		Hyperplasia	Minimal
			Mesothelioma Malignant	
Note: ADENOMA TGLs = 1-6				
Thyroid Gland	Follicular Cel		Hyperplasia	Minimal
Urinary Bladder			Mesothelioma Malignant	
PRIMARY CAUSE OF DEATH	-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 50

TRT#: 1

SEX: Male

DAY ON TEST: 664

DOSE: CONTROL UM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum
Islets, Pancreatic	Parathyroid Gland	Thyroid Gland	Tongue
Trachea	Urinary Bladder		

MISSING

Intestine Small - Ileum	Pituitary Gland
-------------------------	-----------------

OBSERVATIONS

Adrenal Gland	Cortex	Atrophy	Moderate
	Medulla	Atrophy	Moderate
Note: ATROPHY	TGLs = 8-7		
Heart		Cardiomyopathy	Moderate
Kidney		Cyst	Moderate
		Leukemia Mononuclear	
		Nephropathy	Mild
Note: CYST	TGLs = 13-4		
Note: LEUKEMIA MONUC	TGLs = 9-4		
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Necrosis	Coagulative, Minimal
Note: LEUKEMIA MONUC	TGLs = 10-3		
Lung		Leukemia Mononuclear	
	Artery	Mineralization	Minimal
[Leukemia Mononuclear TGLS = 3-1+2]			
Lymph Node	Mandibular	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
	Renal	Pigmentation	Mild
Note: PIGMENT	TGLs = 11-3		
Nose	Glands	Inflammation	Acute, Minimal
Pancreas		Atrophy	Moderate
Preputial Gland		Inflammation	Chronic, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 50

TRT#: 1

SEX: Male

DAY ON TEST: 664

DOSE: CONTROL UM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: INFLAMMATION TGLs = 2-9

Prostate

Seminal Vesicle

Spleen

Note: LEUKEMIA MONUC TGLs = 7-3

Stomach

Glandular, Submucosa

Forestomach

Note: FIBROSIS TGLs = 6-7

Testes

Interstit Cell

Seminif Tub

Interstit Cell

Note: ATROPHY TGLs = 5-6

Note: ADENOMA TGLs = 4-6

Inflammation

Atrophy

Leukemia Mononuclear

Fibrosis

Hyperplasia

Adenoma

Atrophy

Hyperplasia

Chronic Active, Minimal

Moderate

Moderate

Basal Cell, Mild

Moderate

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 51

TRT#: 1

SEX: Male

DAY ON TEST: 654

DOSE: CONTROL UM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Epididymis	Esophagus	Eye	Intestine Large - Rectum
Intestine Small - Duodenum	Islets, Pancreatic	Nose	Parathyroid Gland
Prostate	Tongue		

OBSERVATIONS

Adrenal Gland	Cortex	Lymphoma Malignant Lymphocytic	
	Medulla	Lymphoma Malignant Lymphocytic	
	Cortex	Vacuolization Cytoplasmic	Mild
Brain	Chor Plexus	Lymphoma Malignant Lymphocytic	
Heart		Cardiomyopathy	Mild
		Lymphoma Malignant Lymphocytic	
Intestine Large	Cecum	Lymphoma Malignant Lymphocytic	
	Colon	Lymphoma Malignant Lymphocytic	
Intestine Small	Ileum	Lymphoma Malignant Lymphocytic	
	Jejunum	Lymphoma Malignant Lymphocytic	
Kidney		Lymphoma Malignant Lymphocytic	
	Epithelium, Prox Con Tub	Pigmentation	Mild
Note: PIGMENT TGLs = 13-4			
Note: LYMPH MAL LYMP TGLs = 13-4			
Liver		Fatty Change	Moderate
	Bile Duct	Hyperplasia	Minimal
		Lymphoma Malignant Lymphocytic	
Note: LYMPH MAL LYMP TGLs = 14-3			
Note: FATTY CHANGE TGLs = 14-3			
Lung		Infiltration Cellular	Histiocyte, Minimal
		Lymphoma Malignant Lymphocytic	
Note: LYMPH MAL LYMP TGLs = 5-1+2			
Lymph Node	Mandibular	Hemorrhage	Mild
	Renal	Hemorrhage	Minimal
	Lumbar	Lymphoma Malignant Lymphocytic	
	Mandibular	Lymphoma Malignant Lymphocytic	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 51

TRT#: 1

SEX: Male

DAY ON TEST: 654

DOSE: CONTROL UM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Mediastinal	Lymphoma Malignant Lymphocytic
Mesenteric	Lymphoma Malignant Lymphocytic
Renal	Lymphoma Malignant Lymphocytic

Note: LYMPH MAL LYMP TGLs = 12-10
 Note: LYMPH MAL LYMP TGLs = 19-2.1
 Note: HEMORRHAGE TGLs = 12-10
 Note: HEMORRHAGE TGLs = 3-8
 Note: LYMPH MAL LYMP TGLs = 10-7
 Note: LYMPH MAL LYMP TGLs = 15-11
 Note: LYMPH MAL LYMP TGLs = 3-8

Pancreas	Lymphoma Malignant Lymphocytic
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Note: LYMPH MAL LYMP TGLs = 11-8

Pituitary Gland	Pars Distalis	Lymphoma Malignant Lymphocytic
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Note: LYMPH MAL LYMP TGLs = 16,17,18-7

Seminal Vesicle	Atrophy	Moderate
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Lymphoma Malignant Lymphocytic
 Lymphoma Malignant Lymphocytic

Spleen
 Note: LYMPH MAL LYMP TGLs = 8-3

Stomach	Forestomach	Lymphoma Malignant Lymphocytic
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Lymphoma Malignant Lymphocytic

Testes	Interstitial Cell	Adenoma
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Note: ADENOMA TGLs = 6,7-6

Atrophy Marked

Thymus	Lymphoma Malignant Lymphocytic
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Note: LYMPH MAL LYMP TGLs = 4-2.1

Thyroid Gland	C Cell	Adenoma
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Hyperplasia Minimal

Trachea	Lymphoma Malignant Lymphocytic
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Urinary Bladder	Lymphoma Malignant Lymphocytic
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PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 53

TRT#: 1

SEX: Male

DAY ON TEST: 689

DOSE: CONTROL UM

DISP: Moribund

HISTO:

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	Nose
Seminal Vesicle	Spleen	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Tongue	Trachea	Urinary Bladder

MISSING

Lymph Node - Mesenteric	Parathyroid Gland
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INSUFFICIENT TISSUE

Eye

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Pheochromocytoma Benign	
	Cortex	Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Mild
Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 8-4		
Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Lymph Node	Renal	Hemorrhage	Mild
	Renal	Pigmentation	Minimal
Note: HEMORRHAGE	TGLs = 10-11		
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 3-10		
Pancreas		Atrophy	Minimal
		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 11-7		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 53

TRT#: 1

SEX: Male

DAY ON TEST: 689

DOSE: CONTROL UM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Prostate		Inflammation	Chronic Active, Minimal
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal
Note: ADENOMA	TGLs = 6-6		
Note: ATROPHY	TGLs = 5-6		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 54

TRT#: 1

SEX: Male

DAY ON TEST: 640

DOSE: CONTROL UM

DISP: Moribund

HISTO:

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	Nose
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Tongue	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Cortex	Vacuolization Cytoplasmic	Minimal
Bone Marrow		Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 12-3			
Lung		Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
	Artery	Mineralization	Minimal
[Infiltration Cellular TGLS = 6-1]			
Lymph Node	Lumbar	Hemorrhage	Moderate
	Mesenteric	Hemorrhage	Moderate
	Pancreatic	Hemorrhage	Moderate
	Lumbar	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 54

TRT#: 1

SEX: Male

DAY ON TEST: 640

DOSE: CONTROL UM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

	Renal	Leukemia Mononuclear	
Note: HEMORRHAGE	TGLs = 8-9		
Note: LEUKEMIA MONUC	TGLs = 10-10		
Note: LEUKEMIA MONUC	TGLs = 8-9		
Note: LEUKEMIA MONUC	TGLs = 9-8		
Note: LEUKEMIA MONUC	TGLs = 11-3		
Note: HEMORRHAGE	TGLs = 10-10		
	[Leukemia Mononuclear TGLS = 9-8]		
Mammary Gland		Hyperplasia	Mild
Pancreas		Atrophy	Mild
		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Cyst	
	Pars Intermed	Cyst	Minimal
	Pars Distalis	Leukemia Mononuclear	
Preputial Gland		Inflammation	Chronic, Mild
Prostate		Inflammation	Chronic Active, Mild
Seminal Vesicle		Atrophy	Moderate
Note: ATROPHY	TGLs = 5-6		
Spleen		Depletion Lymphoid	Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-3		
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal
Note: ADENOMA	TGLs = 3,4-6		
Thymus		Depletion Lymphoid	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 55

TRT#: 1

SEX: Male

DAY ON TEST: 717

DOSE: CONTROL UM

DISP: Moribund

HISTO:

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	Nose	Parathyroid Gland
Stomach - Forestomach	Stomach - Glandular	Tongue	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	Multiple
	Cortex	Vacuolization Cytoplasmic	Minimal
Note: PHEOCHROM BGN TGLs = 18-7			
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 19-4			
Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Mixed Cell Focus	Mild
Note: MIXED CL FOCUS TGLs = 20,21-3			
Lung	Artery	Infiltration Cellular	Histiocyte, Minimal
		Mineralization	Minimal
Lymph Node	Pancreatic	Ectasia	Mild
	Mediastinal	Hemorrhage	Mild
	Renal	Hemorrhage	Minimal
	Mesenteric	Infiltration Cellular	Histiocyte, Mild
	Mesenteric	Pigmentation	Minimal
	Renal	Pigmentation	Mild
Note: ECTASIA TGLs = 15,16-8			
Note: PIGMENT TGLs = 22-2.1			
Note: INFILTRAT CELL TGLs = 17-2			
[Hemorrhage TGLS = 6-1]			
[Infiltration Cellular TGLS = 17-2]			
[Pigmentation TGLS = 22-2.1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 55

TRT#: 1

SEX: Male

DAY ON TEST: 717

DOSE: CONTROL UM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Pancreas		Atrophy Inflammation	Mild Chronic, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Prostate		Inflammation	Chronic Active, Mild
Seminal Vesicle		Atrophy	Mild
Note: ATROPHY	TGLs = 11-6		
Skin	Subcut Tiss	Fibroma	
Note: FIBROMA	TGLs = 2-10		
Spleen		Congestion Depletion Lymphoid Fibrosis	Marked Moderate Marked
Note: CONGESTION	TGLs = 12-3		
Note: FIBROSIS	TGLs = 13,14-3		
Testes	Interstit Cell Seminif Tub Interstit Cell	Adenoma Atrophy Hyperplasia	Marked Minimal
Note: ADENOMA	TGLs = 10-6		
Note: ATROPHY	TGLs = 9-6		
Thyroid Gland	C Cell	Adenoma	
Note: ADENOMA	TGLs = 7-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 56

TRT#: 1

SEX: Male

DAY ON TEST: 575

DOSE: CONTROL UM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Parathyroid Gland	Salivary Glands	Spleen	Stomach - Forestomach
Stomach - Glandular	Tongue	Trachea	Urinary Bladder

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
	Cortex	Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Mild
		Thrombosis	Marked
Note: THROMBUS	TGLs = 4-2		
Intestine Large	Cecum	Parasite Metazoan	Minimal
Kidney		Congestion	Mild
		Nephropathy	Mild
Note: CONGESTION	TGLs = 9-4		
Liver	Bile Duct	Hyperplasia	Mild
Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Lymph Node	Mandibular	Hemorrhage	Moderate
	Mediastinal	Hemorrhage	Moderate
	Mesenteric	Hemorrhage	Minimal
	Mesenteric	Infiltration Cellular	Histiocyte, Mild
Note: HEMORRHAGE	TGLs = 8-8		
	[Hemorrhage TGLS = 2-9]		
Pancreas		Atrophy	Minimal
		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 56

TRT#: 1

SEX: Male

DAY ON TEST: 575

DOSE: CONTROL UM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Preputial Gland		Inflammation	Chronic, Mild
Prostate		Inflammation	Chronic Active, Minimal
Seminal Vesicle		Atrophy	Mild
Skin	Subcut Tiss	Edema	Mild
Note: CONNECTIVE TISSUE SUGGEST IT HAD BEEN THERE.			
Note: EDEMA TGLs = 1-10			
Note: THE SUBCUTANEOUS EDEMA DESCRIBED AT THE TIME OF NECROPSY			
Note: THE DILATED LYMPHATICS PLUS THE SEPARATION OF SUBCUTANEOUS			
Note: APPARENTLY WASHED OUT DURING TISSUE PROCESSING; HOWEVER,			
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Minimal
Note: ADENOMA TGLs = 6-6			
Thymus		Depletion Lymphoid	Moderate
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 57

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL UM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Cecum
Intestine Small - Ileum
Nose
Stomach - Forestomach
Urinary Bladder

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Pancreas
Stomach - Glandular

Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Parathyroid Gland
Tongue

Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Prostate
Trachea

OBSERVATIONS

Adrenal Gland
Heart
Kidney
Liver

Cortex

Vacuolization Cytoplasmic
Cardiomyopathy
Nephropathy
Basophilic Focus

Minimal
Moderate
Marked

Bile Duct

Hyperplasia
Leukemia Mononuclear

Mild

Lung

Artery

Hemorrhage
Mineralization

Minimal
Minimal

Note: HEMORRHAGE TGLs = 2-1+2

Pituitary Gland

Pars Distalis
Pars Distalis

Cyst
Hyperplasia
Atrophy

Minimal
Mild

Seminal Vesicle

Spleen

Note: LEUKEMIA MONUC TGLs = 3-3

Testes

Interstitial Cell
Seminif Tub
Interstitial Cell

Adenoma
Atrophy
Hyperplasia

Marked
Minimal

Note: ADENOMA TGLs = 1-6

Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 58

TRT#: 1

SEX: Male

DAY ON TEST: 636

DOSE: CONTROL UM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	Salivary Glands
Skin	Stomach - Glandular	Tongue	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Necrosis	Coagulative, Minimal
	Cortex	Vacuolization Cytoplasmic	Mild
Bone Marrow		Leukemia Mononuclear	
Brain		Hemorrhage	Minimal
		Leukemia Mononuclear	
Epididymis		Mesothelioma Malignant	
Note: MESOTHELIO MAL TGLs = 5-6			
Eye	Retina	Degeneration	Moderate
	Cornea	Fibrosis	Moderate
Note: FIBROSIS TGLs = 2-10			
Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
Liver		Fatty Change	Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 13-3			
Lung		Leukemia Mononuclear	
	Artery	Mineralization	Minimal
[Leukemia Mononuclear TGLS = 8-1+2]			
Lymph Node	Mandibular	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 58	TRT#: 1 DOSE: CONTROL UM	SEX: Male DISP: Moribund	DAY ON TEST: 636 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-2		
Note: LEUKEMIA MONUC	TGLs = 4-9		
Note: LEUKEMIA MONUC	TGLs = 10-8		
Mammary Gland		Hyperplasia	Mild
Mesentery		Leukemia Mononuclear	
Pancreas		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Leukemia Mononuclear	
Preputial Gland		Inflammation	Chronic, Moderate
Note: INFLAMMATION	TGLs = 3-10		
Prostate		Inflammation	Chronic Active, Minimal
Seminal Vesicle		Atrophy	Mild
Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	
Note: FIBROSIS	TGLs = 11-3.1		
Note: BE USED.			
Note: THE TERM ADHESION WAS NOT IN THE PCT SO FIBROSIS HAD TO			
Note: LEUKEMIA MONUC	TGLs = 12-3.1		
Stomach	Forestomach	Hyperplasia	Basal Cell, Minimal
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Minimal
		Mesothelioma Malignant	
Note: ATROPHY	TGLs = 6-6		
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 60

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL UM

DISP: Terminal Sacrifice

HISTO:

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	Prostate
Spleen	Stomach - Forestomach	Stomach - Glandular	Tongue
Trachea	Urinary Bladder		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Minimal
	Cortex	Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Pancreas		Atrophy	Mild
		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Seminal Vesicle		Atrophy	Moderate
Note: ATROPHY	TGLs = 2-6		
Skin		Basal Cell Carcinoma	
Note: BASAL CEL CARC	TGLs = 1-10		
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal
Note: ADENOMA	TGLs = 3-6		
Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 60

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL UM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 61

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL UM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Cecum
Intestine Small - Jejunum
Prostate
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Rectum
Islets, Pancreatic
Seminal Vesicle
Thyroid Gland

Epididymis
Intestine Small - Duodenum
Nose
Spleen
Tongue

Esophagus
Intestine Small - Ileum
Parathyroid Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Adrenal Gland

Heart
Intestine Large
Kidney
Liver

Cortex
Cortex

Colon

Bile Duct

Hyperplasia
Vacuolization Cytoplasmic
Cardiomyopathy
Parasite Metazoan
Nephropathy
Basophilic Focus
Eosinophilic Focus
Hyperplasia
Inflammation
Necrosis

Minimal
Minimal
Moderate
Mild
Moderate
Minimal
Moderate
Mild
Chronic, Minimal
Coagulative, Minimal

Note: [EOSIN FOCUS] TGLs = 5-3

Lung

Artery
Mandibular

Infiltration Cellular
Mineralization
Hemorrhage
Atrophy
Inflammation
Cyst
Squamous Cell Papilloma

Histiocyte, Minimal
Minimal
Minimal
Minimal
Chronic, Minimal
Minimal

Lymph Node
Pancreas

Pituitary Gland
Skin

Pars Intermed

Note: PAPILOMA SQUA TGLs = 3-10

Testes

Interstit Cell
Seminif Tub
Interstit Cell

Adenoma
Atrophy
Hyperplasia

Marked
Minimal

Note: ADENOMA TGLs = 4-6

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 61

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL UM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 62

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL UM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Small - Ileum
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Intestine Large - Cecum
Intestine Small - Jejunum
Pituitary Gland
Thyroid Gland

Brain
Intestine Large - Colon
Lymph Node - Mandibular
Spleen
Tongue

Epididymis
Intestine Small - Duodenum
Nose
Stomach - Forestomach
Trachea

OBSERVATIONS

Heart
Intestine Large
Kidney
Note: NEPHROPATHY TGLs = 3-4
Liver

Rectum

Cardiomyopathy
Parasite Metazoan
Nephropathy

Moderate
Minimal
Moderate

Lung
Pancreas
Prostate
Seminal Vesicle
Note: ATROPHY TGLs = 1-6
Testes

Bile Duct

Artery

Basophilic Focus
Hyperplasia
Inflammation
Infiltration Cellular
Mineralization
Atrophy
Inflammation
Inflammation
Atrophy

Minimal
Mild
Chronic, Minimal
Histiocyte, Minimal
Minimal
Mild
Chronic, Mild
Chronic Active, Mild
Mild

Interstit Cell
Seminif Tub
Interstit Cell

Adenoma
Atrophy
Hyperplasia

Marked
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 63

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL UM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Parathyroid Gland	Spleen
Stomach - Forestomach	Stomach - Glandular	Trachea	Urinary Bladder

MISSING

Pituitary Gland

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Minimal
	Medulla	Pheochromocytoma Benign	
Note: PHEOCHROM BGN TGLs = 11-7			
Heart		Cardiomyopathy	Mild
		Thrombosis	Marked
[Cardiomyopathy TGLS = 4,5-2]			
Intestine Large	Colon	Parasite Metazoan	Minimal
Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 12-4			
Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Mild
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
Note: [HDN] TGLs = 13-3.1			
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Renal	Hemorrhage	Minimal
	Renal	Pigmentation	Mild
Note: HEMORRHAGE TGLs = 14-3			
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA TGLs = 1-10+10.1			
Mesentery		Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 63

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL UM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: INFLAMMATION	TGLs = 8-9			
Nose		Glands	Inflammation	Acute, Minimal
Pancreas			Inflammation	Chronic, Minimal
Prostate			Inflammation	Chronic Active, Minimal
Seminal Vesicle			Atrophy	Moderate
Note: ATROPHY	TGLs = 9-6			
Testes		Interstit Cell	Adenoma	
		Seminif Tub	Atrophy	Marked
Note: ADENOMA	TGLs = 6,7-6			
Thyroid Gland		Follicular Cel	Adenoma	
			Inflammation	Acute, Moderate
Tongue			Metaplasia	Osseous, Minimal
Note: WITHIN AN ISLAND OF SALIVARY TISSUE WITHIN THE TONGUE.				
Note: A SMALL FOCAL AREA OF OSSEOUS METAPLASIA WAS NOTED				

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 64

TRT#: 1

SEX: Male

DAY ON TEST: 519

DOSE: CONTROL UM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	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	Nose	Pancreas
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thyroid Gland
Tongue	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland

INSUFFICIENT TISSUE

Eye

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Minimal
Bone			
Note: THE BAGGED TISSUES WERE SEARCHED FOR THE DEFORMITY OF THE			
Note: LEFT HUMERUS WHICH WAS DESCRIBED AT NECROPSY; HOWEVER IT			
Note: APPEAR TO HAVE BEEN THE SITE OF THE PRIMARY OSTEOGENIC			
Note: WAS NOT FOUND. FROM THE ORIGINAL DESCRIPTION THIS WOULD			
Note: SARCOMA.			
Kidney		Congestion Nephropathy	Minimal Mild
Note: CONGESTION TGLs = 11-4			
Liver	Bile Duct	Basophilic Focus Hyperplasia	Minimal Minimal
Lung	Artery	Infiltration Cellular Mineralization Osteosarcoma	Histiocyte, Minimal Minimal Metastatic (Bone)
[Osteosarcoma TGLS = 8,9-1+2]			
Lymph Node	Mandibular	Hemorrhage	Moderate
Note: HEMORRHAGE TGLs = 4-9			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 64

TRT#: 1

SEX: Male

DAY ON TEST: 519

DOSE: CONTROL UM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: SARCOMA. IT WAS NOT IN THE MEDIASTINAL LN BUT JUST IN

Note: THE MEDIASTINUM.

Note: THE MASS IN THE MEDIASTINUM WAS A METASTATIC OSTEOGENIC

Mammary Gland

Hyperplasia

Mild

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA TGLs = 12-8

Preputial Gland

Inflammation

Chronic, Moderate

Note: INFLAMMATION TGLs = 5-10

Prostate

Inflammation

Chronic Active, Moderate

Thymus

Depletion Lymphoid

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 65

TRT#: 1

SEX: Male

DAY ON TEST: 720

DOSE: CONTROL UM

DISP: Dead

HISTO:

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	Nose
Pituitary Gland	Prostate	Seminal Vesicle	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Tongue	Trachea

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
	Cortex	Vacuolization Cytoplasmic	Mild
Note: PHEOCHROM BGN TGLs = 10-7			
Heart		Cardiomyopathy	Moderate
		Thrombosis	Marked
Note: THROMBUS TGLs = 2,3-2			
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
Pancreas		Atrophy	Mild
		Inflammation	Chronic, Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 8,9-3.1			
Testes	Interstitial Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
	Interstitial Cell	Hyperplasia	Minimal
Note: ADENOMA TGLs = 6-6			
Note: ATROPHY TGLs = 5-6			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 65

TRT#: 1

SEX: Male

DAY ON TEST: 720

DOSE: CONTROL UM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Urinary Bladder

Calculus Micro Observation Only

Note: CALCUS MIC OBS TGLs = 11-8

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 68

TRT#: 1

SEX: Male

DAY ON TEST: 724

DOSE: CONTROL UM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Intestine Large - Cecum
Intestine Small - Jejunum
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Rectum
Pancreas
Thyroid Gland

Epididymis
Intestine Small - Duodenum
Spleen
Tongue

Esophagus
Intestine Small - Ileum
Stomach - Forestomach
Trachea

OBSERVATIONS

Adrenal Gland

Medulla
Medulla

Hyperplasia
Pheochromocytoma Benign

Minimal

Note: PHEOCHROM BGN TGLs = 5-7

Heart

Cardiomyopathy

Mild

Intestine Large

Colon

Parasite Metazoan

Mild

Islets, Pancreatic

Hyperplasia

Minimal

Kidney

Transit Epithe

Hyperplasia

Mild

Note: NEPHROPATHY TGLs = 6-4

Liver

Bile Duct

Basophilic Focus

Minimal

Degeneration

Minimal

Hyperplasia

Mild

Inflammation

Chronic, Minimal

Mixed Cell Focus

Mild

Infiltration Cellular

Histiocyte, Minimal

Lung

Mandibular

Ectasia

Mild

Lymph Node

Mandibular

Hyperplasia

Plasma Cell, Marked

Nose

Glands

Inflammation

Acute, Minimal

Parathyroid Gland

Hyperplasia

Moderate

Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Hyperplasia

Minimal

Prostate

Epithelium

Hyperplasia

Mild

Inflammation

Chronic Active, Mild

Seminal Vesicle

Atrophy

Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 68

TRT#: 1

SEX: Male

DAY ON TEST: 724

DOSE: CONTROL UM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ATROPHY	TGLs = 2-6			
Skin		Subcut Tiss	Abscess	Marked
Note: ABSCESS	TGLs = 1-10			
Testes		Interstit Cell	Adenoma	
		Seminif Tub	Atrophy	Marked
		Interstit Cell	Hyperplasia	Minimal
Note: ADENOMA	TGLs = 3-6			
Note: ATROPHY	TGLs = 4-6			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 69

TRT#: 1

SEX: Male

DAY ON TEST: 620

DOSE: CONTROL UM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Tongue
Trachea	Urinary Bladder		

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Minimal
	Cortex	Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Mild
Intestine Large	Colon	Parasite Metazoan	Minimal
Kidney		Nephropathy	Mild
Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Necrosis	Coagulative, Minimal
		Infiltration Cellular	Histiocyte, Minimal
Lung	Mesenteric	Infiltration Cellular	Histiocyte, Mild
		Pigmentation	Minimal
Mammary Gland	Mesenteric	Hyperplasia	Mild
Preputial Gland		Carcinoma	
		Inflammation	Chronic, Moderate
Note: INFLAMMATION	TGLs = 2-10		
Note: CARCINOMA	TGLs = 2-10		
Prostate		Inflammation	Chronic Active, Mild
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 69

TRT#: 1

SEX: Male

DAY ON TEST: 620

DOSE: CONTROL UM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 5-6

Interstit Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 73

TRT#: 2

SEX: Male

DAY ON TEST: 727

DOSE: 0.1% LM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Parathyroid Gland
Urinary Bladder

Intestine Small - Ileum
Stomach - Forestomach

Intestine Small - Jejunum
Stomach - Glandular

Nose
Tongue

OBSERVATIONS

Kidney

Transit Epithe
Artery

Hyperplasia
Inflammation
Nephropathy

Minimal
Necrotizing, Chronic Active, Moderate
Moderate

Note: NEPHROPATHY TGLs = 2-2

Liver

Bile Duct

Basophilic Focus
Clear Cell Focus
Degeneration
Hyperplasia
Inflammation

Minimal
Minimal
Cystic, Minimal
Mild
Chronic, Minimal

Pancreas

Atrophy
Inflammation

Minimal
Chronic, Minimal

Pituitary Gland

Pars Intermed
Pars Distalis

Cyst
Hyperplasia

Minimal
Moderate

Testes

Interstit Cell
Seminif Tub
Interstit Cell

Adenoma
Atrophy
Hyperplasia

Marked
Minimal

[Adenoma TGLS = 1-5]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 76

TRT#: 2

SEX: Male

DAY ON TEST: 727

DOSE: 0.1% LM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Parathyroid Gland

Spleen

Stomach - Forestomach

Stomach - Glandular

Tongue

Urinary Bladder

OBSERVATIONS

Kidney

Nephropathy

Moderate

Note: NEPHROPATHY TGLs = 5-2

Liver

Basophilic Focus

Minimal

Bile Duct

Hyperplasia

Minimal

Inflammation

Chronic, Minimal

Nose

Glands

Inflammation

Acute, Minimal

Pancreas

Atrophy

Minimal

Inflammation

Chronic, Minimal

Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Hyperplasia

Minimal

Note: ADENOMA TGLs = 6-3

Seminal Vesicle

Atrophy

Moderate

Note: ATROPHY TGLs = 3-5

Testes

Interstit Cell

Adenoma

Seminif Tub

Atrophy

Marked

Interstit Cell

Hyperplasia

Minimal

[Adenoma TGLS = 1,2-5]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 77	TRT#: 2 DOSE: 0.1% LM	SEX: Male DISP: Dead	DAY ON TEST: 654 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Parathyroid Gland	Stomach - Forestomach	Stomach - Glandular	Urinary Bladder
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AUTO PRECLUDES DIAG.

Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	
----------------------------	-------------------------	---------------------------	--

OBSERVATIONS

Brain		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
Note: LEUKEMIA MONUC	TGLs = 7-2		
Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
		Necrosis	Coagulative, Minimal
Note: LEUKEMIA MONUC	TGLs = 8-1		
Lung		Leukemia Mononuclear	
	Artery	Mineralization	Minimal
Note: LEUKEMIA MONUC	TGLs = 4-6+7		
Lymph Node	Mandibular	Congestion	Minimal
	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: CONGESTION	TGLs = 1-7		
Note: LEUKEMIA MONUC	TGLs = 6-8		
Nose	Nasopharyn Dct	Inflammation	Acute, Mild
Pancreas		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 10-3]		
Preputial Gland		Inflammation	Chronic, Mild
Note: INFLAMMATION	TGLs = 2-8		
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-7		
Thyroid Gland		Congestion	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 77

TRT#: 2

SEX: Male

DAY ON TEST: 654

DOSE: 0.1% LM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Leukemia Mononuclear

Note: CONGESTION TGLs = 3-3
Tongue

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:14
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 78	TRT#: 2 DOSE: 0.1% LM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Nose
Parathyroid Gland	Pituitary Gland	Stomach - Forestomach	Stomach - Glandular
Tongue	Urinary Bladder		

OBSERVATIONS

Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
Pancreas		Atrophy	Minimal
		Inflammation	Chronic, Minimal
Testes	Interstitial Cell	Adenoma	
	Seminif Tub	Atrophy	Marked

Note: ADENOMA TGLs = 1-5

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
 Test Type: CHRONIC
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Quercetin
 CAS Number: 117-39-5

Date Report Requested: 10/21/2014
 Time Report Requested: 12:10:14
 First Dose M/F: NA / NA
 Lab: TSI MASON

ANIMAL ID: 79	TRT#: 2 DOSE: 0.1% LM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL	Intestine Small - Duodenum Stomach - Forestomach	Intestine Small - Ileum Stomach - Glandular	Intestine Small - Jejunum Urinary Bladder	Pancreas
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MISSING	Parathyroid Gland			
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OBSERVATIONS				
Kidney			Nephropathy	Mild
Liver			Cytoplasmic Alteration	Minimal
			Degeneration	Minimal
	Bile Duct		Hyperplasia	Minimal
			Inflammation	Chronic, Minimal
Lung			Infiltration Cellular	Histiocyte, Minimal
	Artery		Mineralization	Minimal
Nose	Glands		Inflammation	Acute, Minimal
Pituitary Gland	Pars Distalis		Cyst	Minimal
	Pars Intermed		Cyst	Mild
	Pars Distalis		Hyperplasia	Mild
Testes	Interstit Cell		Adenoma	
	Seminif Tub		Atrophy	Marked
	Interstit Cell		Hyperplasia	Minimal
	[Adenoma TGLS = 1,2-5]			
Tongue			Hemorrhage	Minimal

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 81

TRT#: 2

SEX: Male

DAY ON TEST: 695

DOSE: 0.1% LM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Nose

Stomach - Forestomach

Stomach - Glandular

Tongue

Urinary Bladder

OBSERVATIONS

Kidney

Transit Epithe

Hyperplasia

Minimal

Nephropathy

Marked

Note: NEPHROPATHY TGLs = 4,5,6-2+2.1

Liver

Basophilic Focus

Minimal

Clear Cell Focus

Mild

Bile Duct

Hyperplasia

Minimal

Inflammation

Chronic, Minimal

[Basophilic Focus TGLS = 7-1.1]

Pancreas

Atrophy

Minimal

Inflammation

Chronic, Minimal

Parathyroid Gland

Hyperplasia

Minimal

Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Pigmentation

Minimal

Inflammation

Chronic, Mild

Preputial Gland

Note: INFLAMMATION TGLs = 2-5

Prostate

Hemorrhage

Minimal

Inflammation

Chronic Active, Marked

Note: INFLAMMATION TGLs = 3-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 82

TRT#: 2

SEX: Male

DAY ON TEST: 643

DOSE: 0.1% LM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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
Nose	Parathyroid Gland	Salivary Glands	Seminal Vesicle
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Lymph Node - Mesenteric

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
	Cortex	Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Mild
Intestine Large	Colon	Parasite Metazoan	Minimal
Kidney		Nephropathy	Mild
Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Necrosis	Coagulative, Mild
Note: NECROSIS	TGLs = 10-3		
Lung	Artery	Mineralization	Minimal
Lymph Node	Lumbar	Ectasia	Mild
	Renal	Ectasia	Moderate
	Lumbar	Inflammation	Acute, Mild
Note: ECTASIA	TGLs = 8-9		
Note: ECTASIA	TGLs = 9-3		
Mammary Gland		Hyperplasia	Mild
		Pigmentation	Minimal
Pancreas		Atrophy	Minimal
		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Adenoma	Multiple
	Pars Distalis	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:14
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 82	TRT#: 2 DOSE: 0.1% LM	SEX: Male DISP: Moribund	DAY ON TEST: 643 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA Preputial Gland	TGLs = 11-8	Adenoma Inflammation Squamous Cell Carcinoma	Chronic, Mild
Note: ADENOMA Note: SQUAM CEL CARC	TGLs = 2-13 TGLs = 2-10+13	Inflammation Hematopoietic Cell Proliferation	Acute, Mild Mild
Prostate Spleen Testes	Interstit Cell Seminif Tub Interstit Cell	Adenoma Atrophy Hyperplasia	Mild Minimal
Note: ADENOMA Thymus Tongue	TGLs = 3,4-6	Depletion Lymphoid Leukemia Mononuclear	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 84

TRT#: 2

SEX: Male

DAY ON TEST: 730

DOSE: 0.1% LM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Stomach - Forestomach

Intestine Small - Ileum
Tongue

Intestine Small - Jejunum
Urinary Bladder

Parathyroid Gland

OBSERVATIONS

Kidney
Liver

Nephropathy
Basophilic Focus
Fatty Change
Hyperplasia
Inflammation
Neoplastic Nodule

Moderate
Minimal
Minimal
Minimal
Chronic, Minimal
Multiple

Bile Duct

Inflammation
Atrophy
Inflammation
Adenoma
Angiectasis
Pigmentation

Acute, Minimal
Minimal
Chronic, Minimal
Marked
Mild

Note: NEOPLASTIC NOD TGLs = 4-1

Nose
Pancreas

Glands

Pituitary Gland

Pars Distalis
Pars Intermed
Pars Distalis

Note: ADENOMA TGLs = 3-3

Stomach
Testes

Glandular
Interstit Cell
Seminif Tub

Inflammation
Adenoma
Atrophy

Chronic Active, Minimal
Marked

[Adenoma TGLS = 1,2-5]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 85

TRT#: 2

SEX: Male

DAY ON TEST: 685

DOSE: 0.1% LM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Pancreas

Parathyroid Gland

Stomach - Forestomach

Stomach - Glandular

Tongue

Urinary Bladder

OBSERVATIONS

Kidney

Leukemia Mononuclear

Nephropathy

Mild

Liver

Degeneration

Minimal

Fatty Change

Mild

Bile Duct

Hyperplasia

Minimal

Leukemia Mononuclear

[Leukemia Mononuclear TGLs = 11-1]

Lung

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 4,5-7

Lymph Node

Pancreatic

Hemorrhage

Minimal

Pancreatic

Infiltration Cellular

Histiocyte, Mild

Pancreatic

Leukemia Mononuclear

Note: HEMORRHAGE TGLs = 9-7

Note: LEUKEMIA MONUC TGLs = 9-7

Nose

Glands

Inflammation

Acute, Mild

Pituitary Gland

Pars Distalis

Hyperplasia

Mild

Pars Distalis

Leukemia Mononuclear

Preputial Gland

Abscess

Marked

Adenoma

Note: ADENOMA TGLs = 2,3-5

Seminal Vesicle

Atrophy

Moderate

Note: ATROPHY TGLs = 7-9

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 8-8

Testes

Interstit Cell

Adenoma

Seminif Tub

Atrophy

Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 85

TRT#: 2

SEX: Male

DAY ON TEST: 685

DOSE: 0.1% LM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 6-9

Interstit Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 86

TRT#: 2

SEX: Male

DAY ON TEST: 556

DOSE: 0.1% LM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Islets, Pancreatic	Lymph Node - Mandibular
Nose	Parathyroid Gland	Salivary Glands	Seminal Vesicle
Skin	Stomach - Glandular	Testes	Thyroid Gland
Tongue	Trachea	Urinary Bladder	

MISSING

Intestine Small - Duodenum	Intestine Small - Jejunum
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OBSERVATIONS

Heart		Cardiomyopathy	Moderate
Intestine Small	Ileum	Leukemia Mononuclear	
	Epithelium, Ileum	Pigmentation	Minimal
Note: LEUKEMIA MONUC	TGLs = 2-7		
Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
Note: LEUKEMIA MONUC	TGLs = 5-4		
Liver		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6,7-3		
Lung		Leukemia Mononuclear	
	Artery	Mineralization	Minimal
[Leukemia Mononuclear TGLS = 1-1+2]			
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mesenteric	Pigmentation	Minimal
Mammary Gland		Hyperplasia	Mild
Pancreas		Atrophy	Minimal
		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Necrosis	Marked
Note: NECROSIS	TGLs = 8-8		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 86

TRT#: 2

SEX: Male

DAY ON TEST: 556

DOSE: 0.1% LM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Preputial Gland

Inflammation

Chronic, Mild

Prostate

Inflammation

Chronic Active, Mild

Spleen

Depletion Lymphoid

Mild

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 3-3

Stomach

Forestomach

Acanthosis

Minimal

Forestomach

Hyperkeratosis

Minimal

Forestomach

Hyperplasia

Basal Cell, Minimal

Thymus

Depletion Lymphoid

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 87

TRT#: 2

SEX: Male

DAY ON TEST: 618

DOSE: 0.1% LM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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
Nose	Pancreas	Salivary Glands	Seminal Vesicle
Skin	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Tongue	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
	Cortex	Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Mild
Intestine Large	Colon	Parasite Metazoan	Minimal
Kidney		Nephropathy	Mild
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Inguinal	Ectasia	Marked
	Lumbar	Ectasia	Marked
	Renal	Ectasia	Marked
	Renal	Fibrosis	Mild
	Renal	Hemorrhage	Minimal
	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Renal	Infiltration Cellular	Histiocyte, Mild
	Mesenteric	Pigmentation	Minimal
	Renal	Pigmentation	Minimal

Note: PIGMENT TGLs = 5-8

Note: HEMORRHAGE TGLs = 7-9

Note: ECTASIA TGLs = 6-3

Note: ECTASIA TGLs = 4-10

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 87

TRT#: 2

SEX: Male

DAY ON TEST: 618

DOSE: 0.1% LM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ECTASIA	TGLs = 2-13			
Mammary Gland			Hyperplasia	Mild
Pituitary Gland		Pars Distalis	Adenoma	
		Pars Intermed	Cyst	Minimal
Note: ADENOMA	TGLs = 8-8			
Preputial Gland			Adenoma	
			Inflammation	Chronic, Moderate
Note: ADENOMA	TGLs = 1-10			
Prostate			Inflammation	Chronic Active, Moderate
Spleen			Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-3			
Testes		Seminif Tub	Atrophy	Mild
		Interstit Cell	Hyperplasia	Minimal
Thymus			Depletion Lymphoid	Minimal
PRIMARY CAUSE OF DEATH	-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 88

TRT#: 2

SEX: Male

DAY ON TEST: 599

DOSE: 0.1% LM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Nose	Pancreas	Parathyroid Gland	Prostate
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Tongue	Trachea	

MISSING

Mammary Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Mild
Epididymis		Mesothelioma Malignant	
Heart		Cardiomyopathy	Mild
Intestine Large	Colon	Mesothelioma Malignant	
Kidney		Nephropathy	Mild
	Epithelium, Prox Con Tub	Pigmentation	Mild
Liver		Fatty Change	Moderate
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Necrosis	Coagulative, Minimal
		Leukemia Mononuclear	
	Mediastinal	Hemorrhage	Mild
	Mesenteric	Infiltration Cellular	Histiocyte, Mild
	Pancreatic	Infiltration Cellular	Histiocyte, Mild
	Mediastinal	Pigmentation	Moderate
	Mesenteric	Pigmentation	Minimal
	Pancreatic	Pigmentation	Minimal

Note: FATTY CHANGE TGLs = 12-3

Lung

[Leukemia Mononuclear TGLS = 6-1+2]

Lymph Node

Note: INFILTRAT CELL TGLs = 3-2

Note: PIGMENT TGLs = 11-2

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 88

TRT#: 2

SEX: Male

DAY ON TEST: 599

DOSE: 0.1% LM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: PIGMENT	TGLs = 11-9			
Note: INFILTRAT CELL	TGLs = 11-9			
Mesentery			Mesothelioma Malignant	
Note: MESOTHELIO MAL	TGLs = 8-7+9			
Pituitary Gland		Pars Distalis	Adenoma	
		Pars Intermed	Angiectasis	Moderate
		Pars Distalis	Cyst	Mild
Note: ADENOMA	TGLs = 13-8			
Preputial Gland			Inflammation	Chronic, Mild
Seminal Vesicle			Mesothelioma Malignant	
Skeletal Muscle			Mesothelioma Malignant	
Note: MESOTHELIO MAL	TGLs = 7-10			
Spleen			Hematopoietic Cell Proliferation	Moderate
Note: HEMA CELL PROL	TGLs = 10-3			
Testes		Interstit Cell	Adenoma	
		Seminif Tub	Atrophy	Marked
		Interstit Cell	Hyperplasia	Minimal
			Mesothelioma Malignant	
Note: ADENOMA	TGLs = 9-6			
Urinary Bladder		Serosa	Mesothelioma Malignant	
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 92

TRT#: 2

SEX: Male

DAY ON TEST: 618

DOSE: 0.1% LM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic
Parathyroid Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Tongue	Trachea
Urinary Bladder			

MISSING

Intestine Small - Ileum	Thymus
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OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Cortex	Necrosis	Coagulative, Minimal
	Cortex	Vacuolization Cytoplasmic	Mild
Bone Marrow		Leukemia Mononuclear	
		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Epididymis		Leukemia Mononuclear	
Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
Kidney	Transit Epithe	Hyperplasia	Mild
		Leukemia Mononuclear	
		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 7-4		
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Necrosis	Coagulative, Moderate
Lung		Leukemia Mononuclear	
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Renal	Infiltration Cellular	Histiocyte, Minimal
	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 92	TRT#: 2 DOSE: 0.1% LM	SEX: Male DISP: Moribund	DAY ON TEST: 618 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
	Mesenteric	Pigmentation	Minimal
	Renal	Pigmentation	Minimal
Note: PIGMENT TGLs = 6-8 Note: LEUKEMIA MONUC TGLs = 8-3 [Pigmentation TGLS = 6-8]			
Mammary Gland		Galactocele Hyperplasia Pigmentation	Mild Mild Mild
Nose		Leukemia Mononuclear	
Pancreas		Cytoplasmic Alteration	Mild
Pituitary Gland	Pars Distalis	Leukemia Mononuclear Hyperplasia	Minimal
Preputial Gland	Pars Distalis	Leukemia Mononuclear Inflammation	Chronic, Moderate
Seminal Vesicle		Atrophy	Moderate
Note: ATROPHY TGLs = 4-6			
Spleen		Depletion Lymphoid Leukemia Mononuclear	Moderate
Note: LEUKEMIA MONUC TGLs = 5-3			
Testes	Interstit Cell Seminif Tub	Adenoma Atrophy Leukemia Mononuclear	Marked
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 93

TRT#: 2

SEX: Male

DAY ON TEST: 729

DOSE: 0.1% LM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Heart	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Nose	Parathyroid Gland	Pituitary Gland	Stomach - Forestomach
Stomach - Glandular	Urinary Bladder		

MISSING

Tongue

OBSERVATIONS

Epididymis		Mesothelioma Malignant	
Note: MESOTHELIO MAL	TGLs = 7-7		
Kidney		Cyst	Minimal
	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 9-2		
Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Hemorrhage	Minimal
Lung			
Note: HEMORRHAGE	TGLs = 4-5		
Lymph Node		Hemorrhage	Mild
Note: HEMORRHAGE	TGLs = 1-6		
Mesentery		Mesothelioma Malignant	
Note: MESOTHELIO MAL	TGLs = 8-7		
Pancreas		Adenoma	
		Atrophy	Minimal
		Inflammation	Chronic, Minimal
Preputial Gland		Adenoma	
		Inflammation	Chronic, Mild
Note: ADENOMA	TGLs = 2-8		
Skin		Cyst Epithelial Inclusion	
Note: THE EPITHELIAL INCLUSION CYST APPEARS TO BE CONTIGUOUS			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:14
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 93	TRT#: 2 DOSE: 0.1% LM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: WITH THE PREPUTIAL GLAND ADENOMA.

Testes	Interstit Cell Seminif Tub Interstit Cell	Adenoma Atrophy Hyperplasia Mesothelioma Malignant	Marked Minimal
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[Adenoma TGLS = 5-7]

[Atrophy TGLS = 6-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 94

TRT#: 2

DOSE: 0.1% LM

SEX: Male

DISP: Dead

DAY ON TEST: 562

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Colon	Islets, Pancreatic
Lymph Node - Mandibular	Nose	Pancreas	Parathyroid Gland
Salivary Glands	Seminal Vesicle	Skin	Stomach - Forestomach
Stomach - Glandular	Tongue	Trachea	Urinary Bladder

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum
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OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Mild
Heart		Cardiomyopathy	Moderate
Intestine Small	Ileum	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 8-7		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-4+4.1		Nephropathy	Mild
Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-1+2]			
Lymph Node	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 9-8			
Mammary Gland		Hyperplasia	Minimal
Pituitary Gland		Autolysis	Mild
Preputial Gland		Inflammation	Chronic, Moderate
Note: INFLAMMATION TGLs = 1-10			
Prostate		Inflammation	Chronic Active, Mild
Spleen		Depletion Lymphoid	Marked
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:14
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 94	TRT#: 2 DOSE: 0.1% LM	SEX: Male DISP: Dead	DAY ON TEST: 562 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 5-3			
Testes	Interstit Cell Seminif Tub Interstit Cell	Adenoma Atrophy Hyperplasia	Minimal Minimal
Note: ADENOMA TGLs = 3-6			
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 96

TRT#: 2

SEX: Male

DAY ON TEST: 730

DOSE: 0.1% LM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Nose	Parathyroid Gland	Stomach - Forestomach	Stomach - Glandular
Tongue			

OBSERVATIONS

Islets, Pancreatic		Adenoma	
Kidney		Nephropathy	Marked
Liver		Basophilic Focus	Minimal
	Bile Duct	Hepatocellular Adenoma	
		Hyperplasia	Mild
		Leukemia Mononuclear	
Note: [HEPATOCLR ADEN] TGLs = 11-1.1			
Lymph Node	Lumbar	Ectasia	Mild
	Lumbar	Infiltration Cellular	Histiocyte, Minimal
	Renal	Infiltration Cellular	Histiocyte, Mild
	Lumbar	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
Note: ECTASIA TGLs = 7-5			
Note: LEUKEMIA MONUC TGLs = 7-5			
Note: LEUKEMIA MONUC TGLs = 6-7			
Mammary Gland		Abscess	Marked
		Hyperplasia	Moderate
		Leukemia Mononuclear	
Note: HYPERPLASIA TGLs = 1-8			
Note: ABSCESS TGLs = 3-8			
Mesentery		Leukemia Mononuclear	
Pancreas		Atrophy	Minimal
		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Leukemia Mononuclear	
Note: ADENOMA TGLs = 10-3			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 96

TRT#: 2

SEX: Male

DAY ON TEST: 730

DOSE: 0.1% LM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Prostate	Inflammation	Chronic Active, Marked
Note: INFLAMMATION TGLs = 2-7		
Spleen	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4,5-5]		
Urinary Bladder	Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 98

TRT#: 2

SEX: Male

DAY ON TEST: 729

DOSE: 0.1% LM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Stomach - Glandular

Intestine Small - Ileum
Tongue

Intestine Small - Jejunum
Urinary Bladder

Stomach - Forestomach

OBSERVATIONS

Heart

Cardiomyopathy

Mild

Kidney

Cyst

Minimal

Renal Tubule

Hyperplasia

Cystic, Mild

Nephropathy

Marked

Note: NEPHROPATHY TGLs = 7,8,11-2

Liver

Basophilic Focus

Minimal

Bile Duct

Hyperplasia

Minimal

Inflammation

Chronic, Minimal

Lung

Infiltration Cellular

Histiocyte, Minimal

Artery

Mineralization

Minimal

Lymph Node

Renal

Hemorrhage

Minimal

Renal

Pigmentation

Mild

Note: HEMORRHAGE TGLs = 9-8

Nose

Glands

Inflammation

Acute, Minimal

Pancreas

Atrophy

Mild

Inflammation

Chronic, Minimal

Parathyroid Gland

Hyperplasia

Mild

Pituitary Gland

Pars Distalis

Adenoma

Multiple

Note: ADENOMA TGLs = 10-3

Preputial Gland

Abscess

Mild

Inflammation

Chronic, Mild

Note: ABSCESS TGLs = 1-8

Seminal Vesicle

Atrophy

Moderate

Note: ATROPHY TGLs = 6-7

Testes

Interstit Cell

Adenoma

Seminif Tub

Atrophy

Marked

[Adenoma TGLS = 4,5-7]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 98

TRT#: 2

SEX: Male

DAY ON TEST: 729

DOSE: 0.1% LM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 99

TRT#: 2

SEX: Male

DAY ON TEST: 730

DOSE: 0.1% LM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Nose

Parathyroid Gland

Stomach - Forestomach

Stomach - Glandular

Tongue

Urinary Bladder

INSUFFICIENT TISSUE

Pituitary Gland

OBSERVATIONS

Brain

Hemorrhage

Minimal

Meningioma Benign

Note: THIS WOULD APPEAR TO BE A FIBROUS MENINGIOMA. PORTIONS

Note: MENINGIOMA BGN TGLs = 6,7-5+7

Note: OF THE GROWTH WERE SEEN ON THE SURFACE OF THE CEREBELLUM

Kidney

Nephropathy

Moderate

Liver

Basophilic Focus

Minimal

Bile Duct

Hyperplasia

Minimal

Inflammation

Chronic, Minimal

Lymph Node

Mediastinal

Pigmentation

Minimal

[Pigmentation TGLS = 3-7]

Pancreas

Atrophy

Minimal

Inflammation

Chronic, Minimal

Preputial Gland

Abscess

Marked

[Abscess TGLS = 1]

Testes

Interstitial Cell

Adenoma

Marked

Seminif Tub

Atrophy

Marked

Interstitial Cell

Hyperplasia

Minimal

[Adenoma TGLS = 5-6]

[Atrophy TGLS = 4-6]

Thyroid Gland

C Cell

Adenoma

Note: ADENOMA TGLs = 2-3

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 101

TRT#: 2

DOSE: 0.1% LM

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 724

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Nose

Parathyroid Gland

Salivary Glands

Seminal Vesicle

Stomach - Forestomach

Stomach - Glandular

Tongue

Urinary Bladder

OBSERVATIONS

Kidney

Lymphoma Malignant Mixed

Nephropathy

Moderate

Note: NEPHROPATHY TGLs = 12-2

Liver

Basophilic Focus

Minimal

Degeneration

Cystic, Mild

Eosinophilic Focus

Minimal

Bile Duct

Hyperplasia

Mild

Hyperplasia

Focal, Mild

Lymphoma Malignant Mixed

Note: LYMPH MAL MIXD TGLs = 13-1+1.1

Note: DEGEN TGLs = 14,15,16-1+1.1

Lung

Infiltration Cellular

Histiocyte, Minimal

Mineralization

Minimal

Lymph Node

Artery

Infiltration Cellular

Histiocyte, Mild

Pancreatic

Lumbar

Lymphoma Malignant Mixed

Renal

Pigmentation

Minimal

Note: PIGMENT TGLs = 17-8

Note: LYMPH MAL MIXD TGLs = 18-9

[Pigmentation TGLS = 11-6]

Pancreas

Atrophy

Minimal

Pituitary Gland

Pars Distalis

Adenoma

Pars Intermed

Cyst

Minimal

Pars Distalis

Pigmentation

Mild

Spleen

Depletion Lymphoid

Moderate

Note: FIBROSIS TGLs = 7-8

Fibrosis

Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 101

TRT#: 2

SEX: Male

DAY ON TEST: 724

DOSE: 0.1% LM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: SEQUESTERED IN THE UNSCARRED AREA OF THE SPLEEN.

Note: THE DARK RED AREA (TGL 8) PROBABLY REPRESENTS BLOOD

Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal

Note: ATROPHY TGLs = 4-7

[Adenoma TGLS = 5-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 102

TRT#: 2

SEX: Male

DAY ON TEST: 727

DOSE: 0.1% LM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Eye	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Nose	Parathyroid Gland	Pituitary Gland	Stomach - Forestomach
Stomach - Glandular	Tongue		

OBSERVATIONS

Kidney		Nephropathy	Mild
Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
Lung	Alveolar Epith	Hyperplasia	Minimal
Note: ALSO CONSIDERED.			
Note: THE IDEA OF AN EARLY ALVEOLAR BRONCHIOLAR ADENOMA WAS			
Note: HYPERPLASIA TGLs = 2-5			
Pancreas		Atrophy	Minimal
	Artery	Fibrosis	Moderate
	Perivascular	Inflammation	Chronic, Mild
		Inflammation	Chronic, Minimal
Preputial Gland		Abscess	Marked
		Inflammation	Chronic, Mild
Note: ABSCESS TGLs = 1-7			
Testes	Interstitial Cell	Adenoma	Marked
	Seminif Tub	Atrophy	Minimal
	Interstitial Cell	Hyperplasia	Minimal
[Adenoma TGLS = 4-6]			
Urinary Bladder		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:14
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 103

TRT#: 2
DOSE: 0.1% LM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Parathyroid Gland
Urinary Bladder

Intestine Small - Ileum
Stomach - Forestomach

Intestine Small - Jejunum
Stomach - Glandular

Nose
Tongue

OBSERVATIONS

Kidney
Liver

Bile Duct

Nephropathy
Hyperplasia
Inflammation
Atrophy
Inflammation
Adenoma
Cyst
Hyperplasia

Mild
Minimal
Chronic, Minimal
Mild
Chronic, Minimal
Minimal
Minimal

Pancreas

Pituitary Gland

Pars Distalis
Pars Intermed
Pars Distalis

[Adenoma TGLS = 1-3]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 104

TRT#: 2

SEX: Male

DAY ON TEST: 729

DOSE: 0.1% LM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Nose
Stomach - Glandular	Tongue		

MISSING

Parathyroid Gland	Stomach - Forestomach	Urinary Bladder	
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OBSERVATIONS

Kidney		Nephropathy	Moderate
Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
Pancreas		Atrophy	Minimal
		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Testes	Interstitial Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Interstitial Cell	Hyperplasia	Minimal

[Adenoma TGLS = 1-5]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 105

TRT#: 2

SEX: Male

DAY ON TEST: 727

DOSE: 0.1% LM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Stomach - Glandular

Intestine Small - Ileum
Tongue

Intestine Small - Jejunum
Urinary Bladder

Parathyroid Gland

OBSERVATIONS

Kidney
Note: NEPHROPATHY TGLs = 4-2
Liver

Nephropathy Mild

Bile Duct

Basophilic Focus Minimal
Hepatodiaphragmatic Nodule
Hyperplasia Mild
Inflammation Chronic, Minimal
Necrosis Coagulative, Minimal

[Hepatodiaphragmatic Nodule TGLS = 5-1]

Lymph Node
Note: ECTASIA TGLs = 1-6

Mandibular
Mandibular

Ectasia Marked
Hemorrhage Minimal

Nose
Lumen

Inflammation Acute, Mild
Metaplasia Squamous, Moderate

Note: FUNGAL HYPHAE, PRESUMABLY ASPERGILLUS SPECIES
Note: SURROUNDED BY ACUTE INFLAMMATORY CELLS.
Note: VISIBLE WITHIN THE LUMEN OF THE NOSE WERE NUMEROUS

Pancreas

Atrophy Minimal
Inflammation Chronic, Minimal

Pituitary Gland
Seminal Vesicle
Note: ATROPHY TGLs = 2-6

Pars Distalis

Cyst Minimal
Atrophy Moderate

Stomach
Note: ACANTHOSIS TGLs = 6-4
Note: INFLAMMATION TGLs = 6-4
Note: HYPERKERATOSIS TGLs = 6-4

Forestomach
Forestomach
Forestomach

Acanthosis Mild
Hyperkeratosis Mild
Inflammation Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:14
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 105

TRT#: 2
DOSE: 0.1% LM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 727
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Testes	Interstit Cell Seminif Tub	Adenoma Atrophy	Marked
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Note: ADENOMA TGLs = 3-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 106

TRT#: 2

SEX: Male

DAY ON TEST: 704

DOSE: 0.1% LM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Eye	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Nose	Parathyroid Gland	Stomach - Forestomach	Stomach - Glandular
Urinary Bladder			

OBSERVATIONS

Heart		Cardiomyopathy Leukemia Mononuclear Adenoma	Mild
Islets, Pancreatic Note: ADENOMA TGLs = 14-10			
Kidney		Leukemia Mononuclear Nephropathy	Mild
Liver	Bile Duct	Fatty Change Hyperplasia Leukemia Mononuclear Necrosis	Mild Moderate Coagulative, Mild
Note: LEUKEMIA MONUC TGLs = 12-1			
Lung		Hemorrhage Infiltration Cellular Leukemia Mononuclear	Minimal Histiocyte, Minimal
Note: HEMORRHAGE TGLs = 7-5+6			
Lymph Node	Mediastinal Mediastinal	Hemorrhage Leukemia Mononuclear	Marked
Note: HEMORRHAGE TGLs = 15-7 Note: LEUKEMIA MONUC TGLs = 15-7			
Pancreas		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis Pars Distalis	Hyperplasia Leukemia Mononuclear	Mild
Preputial Gland		Adenoma Inflammation	Chronic, Mild
Note: ADENOMA TGLs = 3-9			
Skin	Subcut Tiss	Fibroma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:14
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 106	TRT#: 2 DOSE: 0.1% LM	SEX: Male DISP: Dead	DAY ON TEST: 704 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: FIBROMA Spleen	TGLs = 4-9		Depletion Lymphoid Leukemia Mononuclear	Moderate
Note: LEUKEMIA MONUC Testes	TGLs = 10-6	Interstit Cell Seminif Tub Interstit Cell	Adenoma Atrophy Hyperplasia Infarct	Marked Minimal Marked
Note: ATROPHY [Infarct TGLS = 8-8] Thymus	TGLs = 9-8		Depletion Lymphoid Leukemia Mononuclear	Marked
Note: LEUKEMIA MONUC Tongue	TGLs = 5-7		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 107

TRT#: 2

SEX: Male

DAY ON TEST: 620

DOSE: 0.1% LM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	Parathyroid Gland	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Tongue	Trachea	Urinary Bladder

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
	Cortex	Vacuolization Cytoplasmic	Mild
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Minimal
Liver		Clear Cell Focus	Mild
		Fatty Change	Mild
		Hemorrhage	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
Note: FATTY CHANGE	TGLs = 6-3		
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mesenteric	Pigmentation	Minimal
Nose	Glands	Carcinoma	
Pancreas		Atrophy	Minimal
		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Adenoma	Multiple
	Pars Distalis	Hyperplasia	Minimal
Preputial Gland		Inflammation	Chronic, Mild
Prostate		Inflammation	Chronic Active, Moderate
Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 107

TRT#: 2

DOSE: 0.1% LM

SEX: Male

DISP: Moribund

DAY ON TEST: 620

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

	Seminif Tub	Atrophy	Mild
	Interstit Cell	Hyperplasia	Mild
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 108

TRT#: 2

SEX: Male

DAY ON TEST: 458

DOSE: 0.1% LM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Coagulating Gland	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	Skin
Stomach - Glandular	Thyroid Gland	Tongue	Trachea

MISSING

Preputial Gland

OBSERVATIONS

Adrenal Gland	Cortex	Congestion	Minimal
	Cortex	Lymphoma Malignant Undifferentiated Cell Type	
	Medulla	Lymphoma Malignant Undifferentiated Cell Type	
Note: CONGESTION	TGLs = 8-8		
Bone Marrow	Sternal	Lymphoma Malignant Undifferentiated Cell Type	
Brain		Hemorrhage	Mild
		Lymphoma Malignant Undifferentiated Cell Type	
Heart		Lymphoma Malignant Undifferentiated Cell Type	
Kidney		Lymphoma Malignant Undifferentiated Cell Type	
		Nephropathy	Mild
Liver		Fatty Change	Mild
		Hemorrhage	Mild
	Bile Duct	Hyperplasia	Minimal
		Lymphoma Malignant Undifferentiated Cell Type	
Note: LYMPH MAL UNDF	TGLs = 10-3		
Note: HEMORRHAGE	TGLs = 10-3		
Note: FATTY CHANGE	TGLs = 10-3		
Lung		Hemorrhage	Mild
		Infiltration Cellular	Histiocyte, Minimal
		Lymphoma Malignant Undifferentiated Cell Type	
Note: HEMORRHAGE	TGLs = 3,4-1+2		
Lymph Node	Mandibular	Lymphoma Malignant Undifferentiated Cell Type	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 108

TRT#: 2

SEX: Male

DAY ON TEST: 458

DOSE: 0.1% LM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Mammary Gland	Mediastinal	Lymphoma Malignant Undifferentiated Cell Type	
Pancreas	Mesenteric	Lymphoma Malignant Undifferentiated Cell Type	
	Pancreatic	Lymphoma Malignant Undifferentiated Cell Type	
		Hyperplasia	Minimal
		Atrophy	Mild
Pituitary Gland		Lymphoma Malignant Undifferentiated Cell Type	
	Pars Distalis	Hyperplasia	Mild
	Pars Distalis	Lymphoma Malignant Undifferentiated Cell Type	
Prostate		Inflammation	Chronic Active, Minimal
Skeletal Muscle	Hindlimb	Mineralization	Minimal
Spleen		Congestion	Moderate
		Lymphoma Malignant Undifferentiated Cell Type	
Note: CONGESTION TGLs = 7-3.1			
Note: LYMPH MAL UNDF TGLs = 7-3.1			
Stomach	Forestomach	Acanthosis	Mild
	Forestomach	Hyperplasia	Basal Cell, Mild
Testes	Interstit Cell	Hyperplasia	Minimal
Thymus		Lymphoma Malignant Undifferentiated Cell Type	
Urinary Bladder	Submucosa	Hemorrhage	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 109

TRT#: 2

SEX: Male

DAY ON TEST: 546

DOSE: 0.1% LM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Parathyroid Gland	Preputial Gland
Salivary Glands	Seminal Vesicle	Skin	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Tongue	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Cortex	Necrosis	Coagulative, Minimal
	Cortex	Vacuolization Cytoplasmic	Mild
Bone Marrow		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 11-5			
Eye	Cornea	Fibrosis	Moderate
Note: FIBROSIS TGLs = 2-10			
Heart		Leukemia Mononuclear	
Intestine Small	Ileum	Leukemia Mononuclear	
	Ileum	Necrosis	Coagulative, Mild
Note: NECROSIS TGLs = 6-7			
Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
	Epithelium, Prox Con Tub	Pigmentation	Mild
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Necrosis	Coagulative, Minimal
Note: LEUKEMIA MONUC TGLs = 9-3			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-1+2			
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 109

TRT#: 2

DOSE: 0.1% LM

SEX: Male

DISP: Moribund

DAY ON TEST: 546

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Mandibular
Mediastinal
Mesenteric
Pancreatic
Mediastinal
Mesenteric

Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
Pigmentation
Pigmentation

Minimal
Minimal

Note: LEUKEMIA MONUC TGLs = 7-9
[Leukemia Mononuclear TGLS = 3-2]
[Pigmentation TGLS = 3-2]

Mammary Gland

Hyperplasia
Pigmentation

Mild
Minimal
Minimal

Pancreas

Leukemia Mononuclear
Adenoma
Cyst
Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear

Minimal

Pituitary Gland

Pars Distalis
Pars Intermed
Pars Distalis
Pars Intermed
Pars Nervosa

Note: ADENOMA TGLs = 12

Prostate

Spleen

Inflammation
Depletion Lymphoid
Leukemia Mononuclear

Chronic Active, Moderate
Moderate

Note: LEUKEMIA MONUC TGLs = 8-3

Testes

Interstit Cell
Seminif Tub

Adenoma
Atrophy
Leukemia Mononuclear
Leukemia Mononuclear

Minimal

Thymus

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 110

TRT#: 2

SEX: Male

DAY ON TEST: 728

DOSE: 0.1% LM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Stomach - Forestomach
Urinary Bladder

Intestine Small - Duodenum
Stomach - Glandular

Intestine Small - Ileum
Thyroid Gland

Nose
Tongue

AUTO PRECLUDES DIAG.

Intestine Small - Jejunum

OBSERVATIONS

Adrenal Gland
Heart
Kidney

Cortex

Congestion
Cardiomyopathy
Cyst
Hemorrhage
Nephropathy

Mild
Mild
Minimal
Mild
Marked

Note: NEPHROPATHY TGLs = 9,10-2

Note: HEMORRHAGE TGLs = 10-2

Liver

Angiectasis
Degeneration
Eosinophilic Focus
Hyperplasia
Inflammation
Mixed Cell Focus
Neoplastic Nodule

Mild
Cystic, Mild
Minimal
Minimal
Chronic, Minimal
Mild

Note: ANGIECTASIS TGLs = 13-1+1.1

Lung

Lymph Node

Note: PIGMENT TGLs = 6-6

Mammary Gland

Note: FIBROADENOMA TGLs = 1-8

Pancreas

Bile Duct

Mediastinal

Infiltration Cellular
Pigmentation

Histiocyte, Minimal
Minimal

Fibroadenoma

Artery

Perivascular

Atrophy
Fibrosis
Inflammation

Minimal
Marked
Chronic, Mild

Note: FIBROSIS TGLs = 14-9

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 110

TRT#: 2

SEX: Male

DAY ON TEST: 728

DOSE: 0.1% LM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: (FIBROSIS) ON THE INTIMAL SURFACE.

Note: VASCULAR INFLAMMATION AND PRONOUNCED PROLIFERATION

Note: ACTUALLY THE PANCREATIC ARTERIES WHICH REVEALED PERI-

Note: WHAT WAS THOUGHT TO BE A PANCREATIC LYMPH NODE WAS

Parathyroid Gland

Hyperplasia

Minimal

Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Cyst

Minimal

Note: ADENOMA TGLs = 12-3

Testes

Interstit Cell

Adenoma

Seminif Tub

Atrophy

Marked

[Adenoma TGLS = 2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 111

TRT#: 2

SEX: Male

DAY ON TEST: 723

DOSE: 0.1% LM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Pancreas

Parathyroid Gland

Stomach - Forestomach

Stomach - Glandular

Tongue

Urinary Bladder

OBSERVATIONS

Kidney

Autolysis

Mild

Cyst

Mild

Transit Epithe

Hyperplasia

Minimal

Leukemia Mononuclear

Nephropathy

Moderate

Note: NEPHROPATHY TGLs = 4,5,6-2

Liver

Bile Duct

Hyperplasia

Moderate

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 7-1

Lymph Node

Mediastinal

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 3-6

Nose

Leukemia Mononuclear

Pituitary Gland

Pars Distalis

Hyperplasia

Minimal

Pars Distalis

Leukemia Mononuclear

Spleen

Depletion Lymphoid

Moderate

Fibrosis

Mild

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 2-5]

Testes

Interstit Cell

Adenoma

Seminif Tub

Atrophy

Marked

Leukemia Mononuclear

Note: ADENOMA TGLs = 1-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 112

TRT#: 2

SEX: Male

DAY ON TEST: 730

DOSE: 0.1% LM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Pancreas

Parathyroid Gland

Stomach - Forestomach

Stomach - Glandular

Tongue

Urinary Bladder

OBSERVATIONS

Heart

Cardiomyopathy

Mild

Note: CARDIOMYOPATHY TGLs = 2-5

Kidney

Nephropathy

Moderate

Liver

Bile Duct

Hepatocellular Carcinoma

Hyperplasia

Minimal

Inflammation

Chronic, Minimal

[Hyperplasia TGLs = 5-1+1.1]

Pituitary Gland

Pars Distalis

Hyperplasia

Minimal

Skin

Subcut Tiss

Inflammation

Granulomatous, Moderate

Note: IN THE SUBCUTANEOUS TISSUES THERE WERE SEVERAL CONTIGUOUS

Note: INFLAMMATION TGLs = 1-5

Note: GRANULOMAS COMPOSED OF MULTINUCLEATE GIANT CELLS SURROUND-

Note: SHAFT WAS ALSO NOTED IN THE AREA.

Note: ING A PINK KERATINOUS MATERIAL. A CROSS SECTION OF A HAIR

Testes

Interstit Cell

Adenoma

Seminif Tub

Atrophy

Marked

Interstit Cell

Hyperplasia

Minimal

[Adenoma TGLs = 3-6]

[Atrophy TGLs = 4-6]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 114

TRT#: 2

SEX: Male

DAY ON TEST: 509

DOSE: 0.1% LM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Small - Duodenum
Islets, Pancreatic	Nose	Pancreas	Prostate
Salivary Glands	Seminal Vesicle	Skin	Stomach - Forestomach
Stomach - Glandular	Tongue	Trachea	Urinary Bladder

MISSING

Mammary Gland	Parathyroid Gland
---------------	-------------------

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Ileum
Intestine Small - Jejunum			

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Minimal
Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
Lung		Carcinoma	Metastatic (Thyroid Gland)
		Congestion	Moderate
[Congestion TGLS = 4-1+2]			
Lymph Node	Mandibular	Carcinoma	Metastatic (Thyroid Gland)
	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mesenteric	Pigmentation	Minimal
Mesentery		Necrosis	Coagulative, Mild
Note: NECROSIS TGLs = 5-9			
Pituitary Gland	Pars Distalis	Autolysis	Moderate
Preputial Gland		Inflammation	Chronic, Mild
Spleen		Congestion	Moderate
		Depletion Lymphoid	Mild
Note: CONGESTION TGLs = 7-3			
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 114

TRT#: 2

SEX: Male

DAY ON TEST: 509

DOSE: 0.1% LM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA	TGLs = 9-6	Interstitial Cell	Hyperplasia	Minimal
Thymus			Depletion Lymphoid	Moderate
Thyroid Gland		C Cell	Carcinoma	
Note: CARCINOMA	TGLs = 10-8			
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 117

TRT#: 2

SEX: Male

DAY ON TEST: 584

DOSE: 0.1% LM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Epididymis	Esophagus
Eye	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Pancreas	Parathyroid Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Mammary Gland	Tongue
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OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Cortex	Vacuolization Cytoplasmic	Minimal
Note: LEUKEMIA MONUC	TGLs = 9-8		
Brain		Leukemia Mononuclear	
Heart		Cardiomyopathy	Minimal
Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
Liver		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Thrombosis	Moderate
Note: LEUKEMIA MONUC	TGLs = 10-3		
Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	Artery	Mineralization	Minimal
[Leukemia Mononuclear TGLS = 4-1+2]			
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 117

TRT#: 2

SEX: Male

DAY ON TEST: 584

DOSE: 0.1% LM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Organ	Accountable Site	Status
Mesentery	Mesenteric	Pigmentation Leukemia Mononuclear
Note: LEUKEMIA MONUC TGLs = 8-9		
Nose	Lumen	Hemorrhage
	Glands	Inflammation
Pituitary Gland	Pars Distalis	Cyst
	Pars Intermed	Cyst
	Pars Distalis	Hyperplasia
	Pars Distalis	Leukemia Mononuclear
Note: ADENOMA TGLs = 11-8		
Preputial Gland		Inflammation
Spleen		Depletion Lymphoid Leukemia Mononuclear
Note: LEUKEMIA MONUC TGLs = 6-3		
Stomach	Forestomach	Acanthosis
	Forestomach	Hyperplasia
Testes	Interstit Cell	Adenoma
	Seminif Tub	Atrophy
	Interstit Cell	Hyperplasia
Note: ADENOMA TGLs = 5-6		
Thymus		Leukemia Mononuclear
PRIMARY CAUSE OF DEATH	-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 119

TRT#: 2

SEX: Male

DAY ON TEST: 730

DOSE: 0.1% LM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Parathyroid Gland
Tongue

Intestine Small - Ileum
Seminal Vesicle
Urinary Bladder

Intestine Small - Jejunum
Stomach - Forestomach

Nose
Stomach - Glandular

OBSERVATIONS

Kidney Intestit Tiss, Prox Con Tub

Inflammation Acute, Mild
Nephropathy Marked

Liver Basophilic Focus Minimal
Clear Cell Focus Mild
Eosinophilic Focus Minimal
Bile Duct Hyperplasia Mild
Inflammation Chronic, Minimal

Note: [CLEAR CL FOCUS] TGLs = 6-1.1
Pancreas

Duct Dilatation Minimal
Artery Inflammation Necrotizing, Chronic Active, Marked
Inflammation Chronic, Minimal

Note: INFLAMMATION TGLs = 7-6
Pituitary Gland

Pars Distalis Adenoma
Pars Distalis Pigmentation Minimal

Note: ADENOMA TGLs = 5-3
Preputial Gland

Duct Dilatation Marked
Inflammation Chronic, Mild

Note: DILATATION TGLs = 1-6
Testes

Interstit Cell Adenoma
Seminif Tub Atrophy Moderate
Interstit Cell Hyperplasia Minimal

[Adenoma TGLS = 2-5]

[Atrophy TGLS = 3-5]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 120

TRT#: 2

SEX: Male

DAY ON TEST: 730

DOSE: 0.1% LM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Eye	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Stomach - Forestomach	Stomach - Glandular	Tongue	Urinary Bladder

OBSERVATIONS

Kidney	Transit Epithe	Cyst	Minimal
		Hyperplasia	Mild
		Nephropathy	Marked
Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Moderate
		Eosinophilic Focus	Mild
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Mixed Cell Focus	Mild
Note: [EOSIN FOCUS] TGLs = 3,4-1.1+1.2			
Nose	Glands	Inflammation	Acute, Minimal
Pancreas		Inflammation	Chronic, Minimal
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Intermed	Cyst	Minimal
	Pars Distalis	Hyperplasia	Mild
Skin		Cyst Epithelial Inclusion	
Note: CYST EPITH INC TGLs = 2-6			
Testes	Interstitial Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Interstitial Cell	Hyperplasia	Minimal

[Adenoma TGLS = 1-5]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 121

TRT#: 2

SEX: Male

DAY ON TEST: 572

DOSE: 0.1% LM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Epididymis	Esophagus	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Islets, Pancreatic	Parathyroid Gland
Salivary Glands	Seminal Vesicle	Skin	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Tongue	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Eye	Cornea	Inflammation	Chronic, Mild
		Leukemia Mononuclear	
Intestine Large	Cecum	Parasite Metazoan	Minimal
Intestine Small	Ileum	Leukemia Mononuclear	
	Jejunum	Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 8-3			
Lung		Hemorrhage	Mild
		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	Artery	Mineralization	Minimal
[Hemorrhage TGLS = 3-1+2]			
[Leukemia Mononuclear TGLS = 3-1+2]			
Lymph Node	Mediastinal	Hemorrhage	Minimal
	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 121

TRT#: 2

SEX: Male

DAY ON TEST: 572

DOSE: 0.1% LM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

	Pancreatic	Leukemia Mononuclear	
	Mesenteric	Pigmentation	Minimal
Note: LEUKEMIA MONUC TGLs = 7-9			
Mammary Gland		Hyperplasia	Minimal
Nose		Leukemia Mononuclear	
Pancreas		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Intermed	Cyst	Minimal
	Pars Distalis	Leukemia Mononuclear	
Preputial Gland		Inflammation	Chronic, Moderate
Note: INFLAMMATION TGLs = 2-10			
Prostate		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
Spleen		Depletion Lymphoid	Marked
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-3			
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Mild
	Interstit Cell	Hyperplasia	Mild
Note: ADENOMA TGLs = 5-6			
Thymus		Hemorrhage	Moderate
		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:14
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 122 **TRT#:** 2 **SEX:** Male **DAY ON TEST:** 729
DOSE: 0.1% LM **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Nose
Parathyroid Gland	Pituitary Gland	Stomach - Forestomach	Stomach - Glandular
Tongue			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
	Cortex	Vacuolization Cytoplasmic	Mild
[Vacuolization Cytoplasmic TGLS = 3-6]			
Kidney		Nephropathy	Moderate
Liver		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
Pancreas		Hyperplasia	Mild
		Inflammation	Chronic, Minimal
Testes	Interstitial Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
Note: STITIAL ADENOMA.			
Note: LARGE AREAS OF NECROSIS WERE NOTED WITHIN THE INTER-			
[Adenoma TGLS = 1,2-5]			
Urinary Bladder	Subserosa	Mineralization	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 124

TRT#: 2

SEX: Male

DAY ON TEST: 720

DOSE: 0.1% LM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Eye

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Nose

Parathyroid Gland

Pituitary Gland

Stomach - Forestomach

Tongue

Urinary Bladder

MISSING

Thymus

OBSERVATIONS

Kidney

Prox Con Tub

Mineralization

Minimal

Prox Con Tub

Necrosis

Mild

Nephropathy

Moderate

Liver

Fatty Change

Minimal

Bile Duct

Hyperplasia

Minimal

Inflammation

Chronic, Minimal

Necrosis

Coagulative, Mild

Note: NECROSIS TGLs = 9-1

Lymph Node

Lumbar

Hemorrhage

Moderate

Renal

Hemorrhage

Moderate

Lumbar

Pigmentation

Mild

Renal

Pigmentation

Mild

Note: HEMORRHAGE TGLs = 11-6

Note: PIGMENT TGLs = 11-6

Note: HEMORRHAGE TGLs = 10-7

Note: PIGMENT TGLs = 10-7

Pancreas

Inflammation

Chronic, Minimal

Seminal Vesicle

Atrophy

Moderate

Note: ATROPHY TGLs = 6-5

Skin

Cyst Epithelial Inclusion

Subcut Tiss

Sarcoma

Note: LARGE AREAS OF THE MASS WERE NECROTIC. THE MORPHOLOGIC

Note: PATTERNS WITHIN THE MASS WERE VERY VARIABLE.

Note: SARCOMA TGLs = 7-8+9+10

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:14
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 124

TRT#: 2
DOSE: 0.1% LM

SEX: Male
DISP: Moribund

DAY ON TEST: 720
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CYST EPITH INC TGLs = 2,3-7 Stomach	Glandular	Necrosis	Coagulative, Mild
Note: NECROSIS TGLs = 14-4 Testes	Interstit Cell Seminif Tub Interstit Cell	Adenoma Atrophy Hyperplasia	Marked Minimal
[Adenoma TGLS = 5-5]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:14
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 125	TRT#: 2 DOSE: 0.1% LM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Nose
Stomach - Forestomach	Stomach - Glandular	Tongue	Urinary Bladder

MISSING

Parathyroid Gland

OBSERVATIONS

Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Hydronephrosis	Mild
		Nephropathy	Marked
Liver		Clear Cell Focus	Minimal
		Eosinophilic Focus	Mild
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Mixed Cell Focus	Mild
Note: [EOSIN FOCUS] TGLs = 3,4-1.1			
Pancreas		Atrophy	Minimal
		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLS = 2-5]			
[Atrophy TGLS = 1-5]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 126

TRT#: 2

DOSE: 0.1% LM

SEX: Male

DISP: Moribund

DAY ON TEST: 721

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum

Parathyroid Gland

Urinary Bladder

Intestine Small - Ileum

Salivary Glands

Intestine Small - Jejunum

Stomach - Glandular

Nose

Tongue

OBSERVATIONS

Adrenal Gland

Cortex

Cortex

Medulla

Medulla

Cortex

Hyperplasia

Leukemia Mononuclear

Leukemia Mononuclear

Pheochromocytoma Benign

Vacuolization Cytoplasmic

Nephropathy

Clear Cell Focus

Fatty Change

Hyperplasia

Leukemia Mononuclear

Mild

Moderate

Moderate

Moderate

Moderate

Mild

Note: WAS ALSO A PRONOUNCED DIFFUSE FATTY CHANGE.

Note: FATTY CHANGE TGLs = 16-1

Note: IN ADDITION TO THE PROMINENT FOCAL FATTY CHANGE THERE

Lung

Alveolar Epith

Hemorrhage

Hyperplasia

Infiltration Cellular

Leukemia Mononuclear

Minimal

Mild

Histiocyte, Minimal

Note: LEUKEMIA MONUC TGLs = 6-5

Note: HYPERPLASIA TGLs = 5-5

Lymph Node

Mediastinal

Mandibular

Mesenteric

Renal

Pancreatic

Renal

Pancreatic

Ectasia

Hemorrhage

Hemorrhage

Hemorrhage

Infiltration Cellular

Infiltration Cellular

Leukemia Mononuclear

Minimal

Minimal

Minimal

Mild

Histiocyte, Mild

Histiocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 126

TRT#: 2

DOSE: 0.1% LM

SEX: Male

DISP: Moribund

DAY ON TEST: 721

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Pancreatic
Renal

Pigmentation
Pigmentation

Minimal
Mild

Note: LEUKEMIA MONUC TGLs = 13,14-7

Note: HEMORRHAGE TGLs = 12,19,20-1+8

Note: HEMORRHAGE TGLs = 4-5

Note: HEMORRHAGE TGLs = 17,18-6

[Leukemia Mononuclear TGLS = 3-8]

Pancreas

Pituitary Gland

Pars Distalis
Pars Distalis
Pars Distalis

Inflammation
Hyperplasia
Leukemia Mononuclear
Pigmentation

Chronic, Minimal
Mild
Minimal

Note: PIGMENT TGLs = 21-3

Seminal Vesicle

Note: ATROPHY TGLs = 8-6

Spleen

Atrophy

Moderate

Note: FIBROSIS TGLs = 10-7

Note: LEUKEMIA MONUC TGLs = 9-7

Stomach

Testes

Forestomach
Interstit Cell
Seminif Tub
Interstit Cell

Hyperplasia
Adenoma
Atrophy
Hyperplasia

Basal Cell, Minimal
Marked
Minimal

Note: ADENOMA TGLs = 7-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 128

TRT#: 2

SEX: Male

DAY ON TEST: 724

DOSE: 0.1% LM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Parathyroid Gland

Skin

Stomach - Glandular

Tongue

Urinary Bladder

OBSERVATIONS

Adrenal Gland

Cortex

Congestion

Mild

Cortex

Vacuolization Cytoplasmic

Minimal

Note: CONGESTION TGLs = 7-7

Kidney

Nephropathy

Mild

Liver

Bile Duct

Hyperplasia

Mild

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 6-1

Lymph Node

Mediastinal

Ectasia

Moderate

Note: ECTASIA TGLs = 3-6

Nose

Glands

Inflammation

Acute, Minimal

Pancreas

Atrophy

Mild

Hyperplasia

Mild

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 2-3

Pituitary Gland

Pars Intermed

Cyst

Minimal

Pars Distalis

Leukemia Mononuclear

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 4-5

Stomach

Forestomach

Hyperplasia

Basal Cell, Minimal

Testes

Interstitial Cell

Adenoma

Marked

Seminif Tub

Atrophy

Interstitial Cell

Hyperplasia

Minimal

[Adenoma TGLS = 8-6]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:14

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 129

TRT#: 2

SEX: Male

DAY ON TEST: 727

DOSE: 0.1% LM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Stomach - Forestomach

Intestine Small - Ileum
Stomach - Glandular

Intestine Small - Jejunum
Tongue

Spleen

OBSERVATIONS

Kidney

Cyst

Mild

Nephropathy

Marked

Note: NEPHROPATHY TGLs = 5-2+2.1

Liver

Basophilic Focus

Minimal

Bile Duct

Hyperplasia

Minimal

Inflammation

Chronic, Minimal

Nose

Glands

Inflammation

Acute, Minimal

Pancreas

Atrophy

Minimal

Inflammation

Chronic, Minimal

Parathyroid Gland

Hyperplasia

Mild

Pituitary Gland

Pars Distalis

Hyperplasia

Minimal

Testes

Interstitial Cell

Adenoma

Moderate

Seminif Tub

Atrophy

Interstitial Cell

Hyperplasia

Minimal

[Adenoma TGLS = 2-5]

[Atrophy TGLS = 1-5]

Thyroid Gland

C Cell

Carcinoma

Note: CARCINOMA TGLs = 3-3

Urinary Bladder

Inflammation

Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 130

TRT#: 2

SEX: Male

DAY ON TEST: 730

DOSE: 0.1% LM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Parathyroid Gland

Intestine Small - Ileum
Stomach - Glandular

Intestine Small - Jejunum
Tongue

Nose
Urinary Bladder

OBSERVATIONS

Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
Liver		Clear Cell Focus	
		Hemorrhage	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Mixed Cell Focus	Minimal
Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
Pancreas		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Angiectasis	Mild
Stomach	Forestomach	Hyperplasia	Basal Cell, Minimal
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Minimal

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 131

TRT#: 2

SEX: Male

DAY ON TEST: 727

DOSE: 0.1% LM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Stomach - Forestomach

Intestine Small - Ileum
Stomach - Glandular

Intestine Small - Jejunum
Tongue

Parathyroid Gland
Urinary Bladder

OBSERVATIONS

Adrenal Gland

Cortex
Medulla
Cortex

Angiectasis
Pheochromocytoma Benign
Vacuolization Cytoplasmic
Nephropathy

Mild

Mild
Mild

Kidney

Note: NEPHROPATHY TGLs = 4-2

Liver

Bile Duct

Hyperplasia
Inflammation

Minimal
Chronic, Minimal

Nose

Glands

Inflammation

Acute, Minimal

Pancreas

Artery

Fibrosis

Moderate

Perivascular

Inflammation

Chronic, Mild

Pars Distalis

Hyperplasia

Mild

Pituitary Gland

Skin

Note: HYPERKERATOSIS TGLs = 6-6

Hyperkeratosis

Moderate

Testes

Interstit Cell

Adenoma

Marked

Seminif Tub

Atrophy

Interstit Cell

Hyperplasia

Minimal

[Adenoma TGLS = 1,2-5]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 132

TRT#: 2

SEX: Male

DAY ON TEST: 729

DOSE: 0.1% LM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Eye	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Parathyroid Gland	Stomach - Forestomach	Stomach - Glandular	Tongue
Urinary Bladder			

OBSERVATIONS

Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
		Hyperplasia	Focal, Moderate
		Inflammation	Chronic, Minimal
Note: NEOPLASTIC NOD TGLs = 6-1			
Nose		Foreign Body	Minimal
	Lumen	Inflammation	Acute, Minimal
Note: NEUTROPHILS.			
Note: CROSS SECTION OF HAIR IN LUMEN OF NOSE SURROUNDED BY			
Pancreas		Cytoplasmic Alteration	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Marked
Note: HYPERPLASIA TGLs = 5-3			
Spleen		Depletion Lymphoid	Minimal
		Fibrosis	Mild
Note: FIBROSIS TGLs = 4-6			
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Minimal
		Mesothelioma Benign	

[Adenoma TGLS = 3-5]

[Atrophy TGLS = 2-5]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 133

TRT#: 2

DOSE: 0.1% LM

SEX: Male

DISP: Dead

DAY ON TEST: 678

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Stomach - Glandular

Intestine Small - Ileum
Tongue

Nose
Urinary Bladder

Parathyroid Gland

AUTO PRECLUDES DIAG.

Intestine Small - Jejunum

OBSERVATIONS

Heart		Cardiomyopathy	Moderate
		Cytomegaly	Marked
		Thrombosis	
Note: CYTOMEGALY	TGLs = 3-7		
Kidney		Autolysis	Mild
	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 12,13-2		
Liver		Hemorrhage	Mild
	Centrilobular	Necrosis	Coagulative, Moderate
Note: NECROSIS	TGLs = 14-1		
Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Lymph Node		Angiectasis	Minimal
	Mandibular	Hemorrhage	Moderate
	Mediastinal	Hemorrhage	Mild
	Pancreatic	Hemorrhage	Mild
	Pancreatic	Infiltration Cellular	Histiocyte, Mild
Note: HEMORRHAGE	TGLs = 4-7		
Note: HEMORRHAGE	TGLs = 2-6		
Note: HEMORRHAGE	TGLs = 10-8		
Mesentery		Fibrosis	Marked
		Mesothelioma Malignant	
		Necrosis	Coagulative, Marked
Note: MESOTHELIO MAL	TGLs = 7,9-9		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 133

TRT#: 2

SEX: Male

DAY ON TEST: 678

DOSE: 0.1% LM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: NECROSIS	TGLs = 9-9			
Note: FIBROSIS	TGLs = 9-9			
Pancreas			Atrophy Inflammation Mesothelioma Malignant	Minimal Chronic, Minimal
Pituitary Gland		Pars Distalis Pars Distalis	Cyst Hyperplasia Atrophy	Minimal Minimal Moderate
Seminal Vesicle				
Note: ATROPHY	TGLs = 8-8			
Stomach		Forestomach Forestomach	Inflammation Ulcer	Acute, Mild Mild
Note: INFLAMMATION	TGLs = 11-4			
Note: ULCER	TGLs = 11-4			
Testes		Interstit Cell Seminif Tub Interstit Cell	Adenoma Atrophy Hyperplasia	Moderate Minimal
[Adenoma TGLS = 6-8]				
[Atrophy TGLS = 6-1]				

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 135

TRT#: 2

SEX: Male

DAY ON TEST: 671

DOSE: 0.1% LM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Tongue

Intestine Small - Ileum
Urinary Bladder

Intestine Small - Jejunum

Stomach - Glandular

OBSERVATIONS

Eye

Sclera

Metaplasia

Osseous, Mild

Kidney

Nephropathy

Mild

Liver

Angiectasis

Mild

Fatty Change

Moderate

Bile Duct

Hyperplasia

Mild

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 8-1

Note: FATTY CHANGE TGLs = 8-1

Lung

Infiltration Cellular

Histiocyte, Minimal

Leukemia Mononuclear

Artery

Mineralization

Minimal

Nose

Leukemia Mononuclear

Pancreas

Atrophy

Minimal

Inflammation

Chronic, Minimal

Parathyroid Gland

Hyperplasia

Mild

Pituitary Gland

Pars Distalis

Hyperplasia

Mild

Pars Distalis

Leukemia Mononuclear

Spleen

Depletion Lymphoid

Moderate

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 6-6

Stomach

Forestomach

Hyperplasia

Basal Cell, Minimal

Testes

Interstit Cell

Adenoma

Seminif Tub

Atrophy

Moderate

[Adenoma TGLS = 4-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 136

TRT#: 2

SEX: Male

DAY ON TEST: 730

DOSE: 0.1% LM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Stomach - Forestomach

Intestine Small - Ileum
Stomach - Glandular

Intestine Small - Jejunum
Tongue

Parathyroid Gland
Urinary Bladder

OBSERVATIONS

Kidney
Liver

Lung

Pancreas

Pituitary Gland
Seminal Vesicle
Note: ATROPHY TGLs = 3-7

Bile Duct

Artery

Pars Distalis

Nephropathy
Hyperplasia
Inflammation
Infiltration Cellular
Mineralization
Hyperplasia
Inflammation
Hyperplasia
Atrophy

Mild
Minimal
Chronic, Minimal
Histiocyte, Minimal
Minimal
Minimal
Chronic, Minimal
Mild
Mild

Testes

[Adenoma TGLS = 1,2-7]

Interstit Cell
Seminif Tub
Interstit Cell

Adenoma
Atrophy
Hyperplasia

Basosquamous Tumor Benign

Marked
Minimal

Tissue NOS
Note: BASOSQU TM BGN TGLs = 5-8
Note: THE BASOSQUAMOUS TUMOR APPEARED TO ARISE FROM THE SOFT
Note: PALATE.

Tongue
Note: PAPILLOMA SQUA TGLs = 5-8

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 137

TRT#: 2

SEX: Male

DAY ON TEST: 729

DOSE: 0.1% LM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Stomach - Forestomach

Intestine Small - Ileum
Stomach - Glandular

Intestine Small - Jejunum
Tongue

Parathyroid Gland
Urinary Bladder

OBSERVATIONS

Kidney
Liver

Nephropathy
Basophilic Focus
Cytoplasmic Alteration
Hyperplasia
Inflammation

Moderate
Minimal
Mild
Minimal
Chronic, Minimal

Bile Duct

Inflammation
Inflammation
Hyperplasia
Adenoma
Atrophy
Hyperplasia

Acute, Minimal
Chronic, Minimal
Minimal
Marked
Minimal

Note: CYTOPLAS ALTER TGLs = 2-1

Nose
Pancreas
Pituitary Gland
Testes

Glands
Pars Distalis
Interstit Cell
Seminif Tub
Interstit Cell

[Adenoma TGLS = 1-5]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 139

TRT#: 2

SEX: Male

DAY ON TEST: 729

DOSE: 0.1% LM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Parathyroid Gland

Pituitary Gland

Stomach - Glandular

Thyroid Gland

Tongue

Urinary Bladder

OBSERVATIONS

Kidney

Transit Epithe

Hyperplasia

Mild

Nephropathy

Moderate

Note: NEPHROPATHY TGLs = 8-2

Liver

Basophilic Focus

Minimal

Cytoplasmic Alteration

Mild

Bile Duct

Hyperplasia

Minimal

Inflammation

Chronic, Minimal

Lung

Infiltration Cellular

Histiocyte, Minimal

Artery

Mineralization

Minimal

Lymph Node

Mediastinal

Pigmentation

Minimal

Nose

Lumen

Inflammation

Acute, Minimal

Pancreas

Ectopic Liver

Preputial Gland

Abscess

Moderate

Inflammation

Chronic, Mild

Note: ABSCESS TGLs = 1-8

Stomach

Forestomach

Acanthosis

Minimal

Forestomach

Hyperkeratosis

Mild

Forestomach

Hyperplasia

Basal Cell, Minimal

Note: HYPERKERATOSIS TGLs = 10-4

Note: ACANTHOSIS TGLs = 10-4

Testes

Interstit Cell

Adenoma

Marked

Seminif Tub

Atrophy

Marked

Interstit Cell

Hyperplasia

Minimal

[Adenoma TGLS = 2-7]

[Atrophy TGLS = 3-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 140

TRT#: 2

SEX: Male

DAY ON TEST: 716

DOSE: 0.1% LM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Stomach - Glandular

Intestine Small - Ileum
Tongue

Intestine Small - Jejunum
Urinary Bladder

Parathyroid Gland

INSUFFICIENT TISSUE

Eye

OBSERVATIONS

Kidney

Renal Tubule

Hyperplasia
Leukemia Mononuclear
Nephropathy

Mild

Liver

Bile Duct

Fatty Change
Hyperplasia
Leukemia Mononuclear

Moderate

Mild

Minimal

Note: LEUKEMIA MONUC TGLs = 12-1

Lung

Alveolar Epith

Hemorrhage
Hyperplasia
Infiltration Cellular
Leukemia Mononuclear
Mineralization

Minimal

Minimal

Histiocyte, Minimal

Minimal

Note: HEMORRHAGE TGLs = 6-5+6

Lymph Node

Mandibular
Mediastinal
Mesenteric
Pancreatic

Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 9-10

Note: LEUKEMIA MONUC TGLs = 11-7

Note: LEUKEMIA MONUC TGLs = 3-9

[Leukemia Mononuclear TGLs = 5-6]

Nose

Leukemia Mononuclear

Pancreas

Atrophy

Minimal

Pituitary Gland

Pars Distalis

Leukemia Mononuclear
Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:15
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 140	TRT#: 2 DOSE: 0.1% LM	SEX: Male DISP: Moribund	DAY ON TEST: 716 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Preputial Gland Note: INFLAMMATION TGLs = 4-9		Inflammation	Chronic, Moderate
Spleen		Depletion Lymphoid Fibrosis Leukemia Mononuclear	Marked Minimal
Note: LEUKEMIA MONUC TGLs = 8-7			
Stomach	Forestomach	Acanthosis	Minimal
	Forestomach	Hyperplasia	Basal Cell, Minimal
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal

[Adenoma TGLS = 7-8]

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 142

TRT#: 3

DOSE: 1.0% MM

SEX: Male

DISP: Moribund

DAY ON TEST: 687

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum	Intestine Small - Jejunum	Nose	Urinary Bladder
OBSERVATIONS			
Blood Vessel Note: MINERALIZATION TGLs = 3-6	Aorta	Mineralization	Moderate
Eye	Artery	Mineralization	Minimal
Intestine Small	Epithelium, Ileum	Pigmentation	Minimal
Kidney	Transit Epithe	Hyperplasia	Minimal
	Collect Tub	Mineralization	Moderate
	Prox Con Tub	Mineralization	Moderate
		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 9-2+2.1			
Liver	Bile Duct	Hyperplasia Inflammation	Minimal Chronic, Minimal
Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Note: HYPERPLASIA TGLs = 4-5			
Lymph Node	Renal	Ectasia	Moderate
	Renal	Hemorrhage	Marked
	Mesenteric	Infiltration Cellular	Histiocyte, Mild
Note: ECTASIA TGLs = 6-7			
Note: INFILTRAT CELL TGLs = 11-6			
Note: HEMORRHAGE TGLs = 6-7			
Nose			
Note: BONE MARROW IN THE CRANIUM REVEALED MARKED			
Note: MYELOFIBROSIS			
Pancreas		Fibrosis	Mild
	Artery	Inflammation	Necrotizing, Chronic Active, Marked
Parathyroid Gland		Hyperplasia	Moderate
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:15
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 142	TRT#: 3 DOSE: 1.0% MM	SEX: Male DISP: Moribund	DAY ON TEST: 687 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA	TGLs = 12-3		
Spleen		Depletion Lymphoid	Mild
Note: DEPLET LYMPH	TGLs = 8-8		
Stomach		Forestomach	Hyperplasia
		Forestomach	Mineralization
		Glandular, Mucosa	Mineralization
		Glandular, Muscularis	Mineralization
Testes		Seminif Tub	Atrophy
		Interstit Cell	Hyperplasia
Note: ATROPHY	TGLs = 5-8		
Thyroid Gland		C Cell	Hyperplasia
Tongue		Artery	Mineralization

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 143

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 1.0% MM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Stomach - Glandular

Parathyroid Gland
Tongue

Spleen
Urinary Bladder

Stomach - Forestomach

MISSING

Intestine Small - Ileum

OBSERVATIONS

Intestine Small

Jejunum

Autolysis

Moderate

Note: 1991 CONVERSION DISCREPANCY. ORIGINAL DIAGNOSIS SITE NOT SPECIFIED.

Kidney

Transit Epithe

Hyperplasia
Nephropathy

Mild
Moderate

Note: NEPHROPATHY TGLs = 7-2

Liver

Angiectasis
Basophilic Focus
Degeneration
Eosinophilic Focus
Hyperplasia
Inflammation
Leukemia Mononuclear

Minimal
Mild
Cystic, Mild
Mild
Minimal
Chronic, Minimal

Bile Duct

Lung

Artery

Mineralization

Minimal

Lymph Node

Renal

Hemorrhage

Moderate

Mesenteric

Infiltration Cellular

Histiocyte, Mild

Renal

Infiltration Cellular

Histiocyte, Mild

Renal

Pigmentation

Mild

Note: HEMORRHAGE TGLs = 11-7

Nose

Glands

Inflammation

Acute, Minimal

Pancreas

Atrophy

Mild

Inflammation

Chronic, Mild

Pituitary Gland

Pars Distalis

Adenoma

Seminal Vesicle

Atrophy

Moderate

Note: ATROPHY TGLs = 4-8

Testes

Interstit Cell

Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:15
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 143

TRT#: 3
DOSE: 1.0% MM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 727
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 2,3-8

Interstit Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 145

TRT#: 3

SEX: Male

DAY ON TEST: 555

DOSE: 1.0% MM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Eye	Intestine Large - Cecum
Intestine Large - Rectum	Intestine Small - Duodenum	Islets, Pancreatic	Lung
Nose	Pituitary Gland	Salivary Glands	Seminal Vesicle
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Tongue	Trachea	Urinary Bladder

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Mild
Intestine Large	Colon	Parasite Metazoan	Minimal
Intestine Small	Epithelium, Ileum	Pigmentation	Minimal
	Epithelium, Jejunum	Pigmentation	Mild
Kidney		Nephropathy	Mild
Liver		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Necrosis	Coagulative, Minimal
Lymph Node	Mandibular	Ectasia	Mild
	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mesenteric	Pigmentation	Minimal
Mammary Gland		Hyperplasia	Minimal
		Pigmentation	Minimal
Pancreas		Inflammation	Chronic, Minimal
		Pigmentation	Minimal
Preputial Gland		Inflammation	Chronic, Moderate
Prostate		Inflammation	Chronic Active, Minimal
Skin	Subcut Tiss	Fibroma	

[Fibroma TGLS = 1-13]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:15
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 145

TRT#: 3
DOSE: 1.0% MM

SEX: Male
DISP: Moribund

DAY ON TEST: 555
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Mild

Note: ADENOMA TGLs = 2-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 146

TRT#: 3

DOSE: 1.0% MM

SEX: Male

DISP: Moribund

DAY ON TEST: 555

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Epididymis	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Prostate
Salivary Glands	Seminal Vesicle	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Tongue
Trachea	Urinary Bladder		

MISSING

Esophagus	Parathyroid Gland		
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OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
	Cortex	Vacuolization Cytoplasmic	Minimal
Brain	Cerebrum	Degeneration	Focal, Mild
		Leukemia Mononuclear	
Note: CEREBRUM WHERE THERE IS NEOCAPILLARY FORMATION AND Note: GLIOSIS. Note: THERE APPEARS TO BE A FOCAL AREA OF MALACIA IN THE			
Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
		Thrombosis	Moderate
Note: CARDIOMYOPATHY TGLs = 5-2			
Kidney		Nephropathy	Moderate
Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-3			
Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Infiltration Cellular	Histiocyte, Minimal
	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Pigmentation	Minimal
	Mesenteric	Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 146

TRT#: 3

SEX: Male

DAY ON TEST: 555

DOSE: 1.0% MM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: PIGMENT	TGLs = 4-2		
Mammary Gland		Hyperplasia	Mild
		Pigmentation	Minimal
Pancreas		Cyst	Marked
		Thrombosis	Mild
Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Intermed	Cyst	Minimal
	Pars Distalis	Hyperplasia	Minimal
Preputial Gland		Inflammation	Chronic, Mild
Spleen		Depletion Lymphoid	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-3		
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Mild
	Interstit Cell	Hyperplasia	Mild

Note: ADENOMA TGLs = 2-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 151

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 1.0% MM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Nose

Pituitary Gland

Stomach - Forestomach

Tongue

Urinary Bladder

INSUFFICIENT TISSUE

Eye

OBSERVATIONS

Kidney

Prox Con Tub

Mineralization

Moderate

Nephropathy

Marked

Note: MINERALIZATION TGLs = 6,7-2

Note: NEPHROPATHY TGLs = 6,7-2

Liver

Bile Duct

Hyperplasia

Mild

Inflammation

Chronic, Minimal

Necrosis

Coagulative, Minimal

Nose

Note: MYELOFIBROSIS

Note: BONE MARROW IN THE CRANIUM REVEALED MARKED

Pancreas

Atrophy

Minimal

Fibrosis

Mild

Inflammation

Chronic, Mild

Hyperplasia

Minimal

Parathyroid Gland

Atrophy

Mild

Seminal Vesicle

Note: ATROPHY TGLs = 2-5

Spleen

Congestion

Marked

Fibrosis

Moderate

Sarcoma

Thrombosis

Marked

Note: EXTENSIVE AREAS OF NECROSIS AND HEMORRHAGE WERE NOTED IN

Note: CONCRETION TGLs = 5-6+6.1

Note: IN THE TUMOR.

Note: SARCOMA TGLs = 5-6+6.1

Stomach

Glandular, Mucosa

Mineralization

Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 151

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 1.0% MM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Testes

Interstit Cell

Adenoma

Seminif Tub

Atrophy

Marked

Note: ATROPHY

TGLs = 4-5

Note: ADENOMA

TGLs = 3-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 152

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 1.0% MM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Eye	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Stomach - Forestomach	Stomach - Glandular	Tongue	Urinary Bladder

OBSERVATIONS

Kidney		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 7-2		
Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
		Mixed Cell Focus	Mild
[Leukemia Mononuclear TGLS = 8-1]			
Lung		Infiltration Cellular	Histiocyte, Minimal
Preputial Gland		Carcinoma	
Note: CARCINOMA	TGLs = 1-5		
Spleen		Hyperplasia	Lymphoid, Minimal
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal
Note: ADENOMA	TGLs = 2,3-8		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 155

TRT#: 3

SEX: Male

DAY ON TEST: 680

DOSE: 1.0% MM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Tongue

Intestine Small - Jejunum
Urinary Bladder

Parathyroid Gland

Stomach - Glandular

OBSERVATIONS

Intestine Small
Kidney
Liver

Epithelium, Ileum

Bile Duct

Pigmentation
Nephropathy
Clear Cell Focus
Hyperplasia
Inflammation
Inflammation
Atrophy
Inflammation

Mild
Mild
Minimal
Minimal
Chronic, Minimal
Acute, Minimal
Minimal
Chronic, Minimal

Nose
Pancreas

Lumen

Adenoma
Hyperplasia
Sarcoma

Mild

Pituitary Gland

Pars Distalis
Pars Distalis
Subcut Tiss

Skin
Note: OR A LIPOSARCOMA.

Note: SARCOMA TGLs = 1-6+6.1

Note: THE SUBCUTANEOUS SARCOMA MAY REPRESENT A MYXOSARCOMA

Stomach
Testes

Forestomach
Interstit Cell
Seminif Tub
Interstit Cell

Hyperplasia
Adenoma
Atrophy
Hyperplasia

Basal Cell, Minimal

Moderate
Minimal

Note: ADENOMA TGLs = 2,3-5

Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 157

TRT#: 3

SEX: Male

DAY ON TEST: 724

DOSE: 1.0% MM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum

Intestine Small - Jejunum

Nose

Pancreas

Parathyroid Gland

Stomach - Forestomach

Stomach - Glandular

Tongue

Urinary Bladder

OBSERVATIONS

Intestine Small

Epithelium, Ileum

Pigmentation

Mild

Kidney

Nephropathy

Mild

Liver

Basophilic Focus

Minimal

Bile Duct

Hyperplasia

Minimal

Leukemia Mononuclear

Pituitary Gland

Pars Distalis

Hyperplasia

Minimal

Spleen

Fibrosis

Moderate

Leukemia Mononuclear

Note: FIBROSIS TGLs = 3-5

Note: LEUKEMIA MONUC TGLs = 3-5

Testes

Interstit Cell

Adenoma

Marked

Seminif Tub

Atrophy

Interstit Cell

Hyperplasia

Mild

Note: ADENOMA TGLs = 1,2-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 158

TRT#: 3

DOSE: 1.0% MM

SEX: Male

DISP: Moribund

DAY ON TEST: 674

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Nose

Parathyroid Gland

Stomach - Glandular

Tongue

Urinary Bladder

OBSERVATIONS

Epididymis

Mesothelioma Malignant

Note: MESOTHELIO MAL TGLs = 6,7-10

Kidney

Nephropathy

Mild

Liver

Bile Duct

Hyperplasia

Mild

Leukemia Mononuclear

Thrombosis

[Leukemia Mononuclear TGLS = 14-1]

Lung

Infiltration Cellular

Histiocyte, Minimal

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 4-5+6

Lymph Node

Pancreatic

Infiltration Cellular

Histiocyte, Minimal

Pancreatic

Pancreatic

Leukemia Mononuclear

Pigmentation

Mild

Note: LEUKEMIA MONUC TGLs = 11-3

Mesentery

Mesothelioma Malignant

Pigmentation

Mild

Note: PIGMENT TGLs = 10-3+9

[Pigmentation TGLS = 9-9]

Pancreas

Leukemia Mononuclear

Pituitary Gland

Pars Distalis

Hyperplasia

Minimal

Pars Distalis

Leukemia Mononuclear

Skin

Fibrosis

Mild

Note: FIBROSIS TGLs = 2-9

Spleen

Depletion Lymphoid

Moderate

Hemangioma

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 12-7

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 158

TRT#: 3

SEX: Male

DAY ON TEST: 674

DOSE: 1.0% MM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HEMANGIOMA TGLs = 13-7

Stomach

Forestomach, Muscularis

Pigmentation

Minimal

Testes

Interstit Cell

Adenoma

Mesothelioma Malignant

Note: MESOTHELIO MAL TGLs = 1-8

Note: ADENOMA TGLs = 8-8

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 159

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 1.0% MM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Nose

Parathyroid Gland

Stomach - Forestomach

Stomach - Glandular

Tongue

Urinary Bladder

OBSERVATIONS

Kidney

Leukemia Mononuclear

Nephropathy

Moderate

Liver

Bile Duct

Hyperplasia

Moderate

Leukemia Mononuclear

Necrosis

Coagulative, Minimal

Neoplastic Nodule

[Hyperplasia TGLS = 4-1]

Pancreas

Atrophy

Minimal

Inflammation

Chronic, Minimal

Leukemia Mononuclear

Pituitary Gland

Pars Distalis

Leukemia Mononuclear

Seminal Vesicle

Atrophy

Minimal

Note: ATROPHY

TGLs = 1-5

Spleen

Depletion Lymphoid

Mild

Fibrosis

Moderate

Leukemia Mononuclear

Note: FIBROSIS

TGLs = 3-6

Testes

Interstit Cell

Adenoma

Marked

Seminif Tub

Atrophy

Interstit Cell

Hyperplasia

Minimal

Note: ADENOMA

TGLs = 2-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 160

TRT#: 3

SEX: Male

DAY ON TEST: 724

DOSE: 1.0% MM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum

Intestine Small - Jejunum

Nose

Pancreas

Parathyroid Gland

Spleen

Stomach - Forestomach

Stomach - Glandular

Tongue

Urinary Bladder

OBSERVATIONS

Intestine Small

Epithelium, Ileum

Pigmentation

Minimal

Kidney

Nephropathy

Mild

Note: NEPHROPATHY TGLs = 4-2

Liver

Bile Duct

Hyperplasia

Minimal

Inflammation

Chronic, Minimal

Pituitary Gland

Pars Distalis

Adenoma

Pars Intermed

Cyst

Minimal

Seminal Vesicle

Atrophy

Mild

Note: ATROPHY TGLs = 2-5

Testes

Interstit Cell

Adenoma

Seminif Tub

Atrophy

Marked

Note: ADENOMA TGLs = 1-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 162

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 1.0% MM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Intestine Small - Duodenum	Intestine Small - Jejunum	Stomach - Forestomach
Stomach - Glandular	Tongue	Urinary Bladder	

OBSERVATIONS

Intestine Small	Epithelium, Ileum	Pigmentation	Minimal
Kidney	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 5-2+2.1		
Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Necrosis	Coagulative, Minimal
Lymph Node	Mediastinal	Ectasia	Mild
Note: ECTASIA	TGLs = 2-5		
Nose	Glands	Inflammation	Acute, Minimal
Pancreas		Hyperplasia	Minimal
Parathyroid Gland		Hyperplasia	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Preputial Gland		Abscess	Moderate
		Inflammation	Chronic, Mild
Note: ABSCESS	TGLs = 1-8		
Spleen		Fibrosis	Mild
Note: FIBROSIS	TGLs = 3-5		
Testes	Interstitial Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Interstitial Cell	Hyperplasia	Minimal
Note: ADENOMA	TGLs = 7-6		
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 164

TRT#: 3

SEX: Male

DAY ON TEST: 674

DOSE: 1.0% MM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Stomach - Glandular

Intestine Small - Jejunum
Tongue

Parathyroid Gland
Urinary Bladder

Stomach - Forestomach

OBSERVATIONS

Intestine Small
Kidney

Epithelium, Ileum

Pigmentation
Leukemia Mononuclear
Nephropathy
Basophilic Focus
Degeneration
Eosinophilic Focus
Hyperplasia
Leukemia Mononuclear

Minimal

Mild

Minimal

Cystic, Minimal

Moderate

Mild

Bile Duct

Note: ANGIECTASIS TGLs = 9-1
[Leukemia Mononuclear TGLs = 10-1]

Lung

Note: LEUKEMIA MONUC TGLs = 4,5-7+8

Lymph Node

Mesenteric
Mesenteric
Mesenteric
Pancreatic

Leukemia Mononuclear

Ectasia
Infiltration Cellular
Leukemia Mononuclear
Leukemia Mononuclear

Mild

Histiocyte, Minimal

Note: LEUKEMIA MONUC TGLs = 8-8

Note: LEUKEMIA MONUC TGLs = 7-3

Note: ECTASIA TGLs = 8-8

Nose

Pancreas

Leukemia Mononuclear
Atrophy
Inflammation
Leukemia Mononuclear
Necrosis

Mild

Chronic, Moderate

Coagulative, Moderate

Note: NECROSIS TGLs = 11-3

Pituitary Gland

Pars Intermed
Pars Distalis

Cyst
Hyperplasia

Minimal

Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 164

TRT#: 3

SEX: Male

DAY ON TEST: 674

DOSE: 1.0% MM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Seminal Vesicle Note: ATROPHY TGLs = 3-6	Pars Distalis	Leukemia Mononuclear Atrophy	Moderate
Spleen Note: LEUKEMIA MONUC TGLs = 6-5		Leukemia Mononuclear	
Testes Note: ADENOMA TGLs = 2-6	Interstit Cell Seminif Tub Interstit Cell	Adenoma Atrophy Hyperplasia	Marked Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 165

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 1.0% MM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Tongue

Intestine Small - Ileum
Urinary Bladder

Intestine Small - Jejunum

Stomach - Glandular

OBSERVATIONS

Heart

Cardiomyopathy
Metaplasia

Moderate
Osseous, Minimal

Note: CARDIOMYOPATHY TGLs = 5-7

Kidney

Transit Epithe

Hyperplasia
Nephropathy

Mild
Marked

Note: NEPHROPATHY TGLs = 6-2+2.1

Liver

Bile Duct

Basophilic Focus
Hyperplasia
Leukemia Mononuclear
Leukemia Mononuclear

Minimal
Minimal

Lymph Node

Mediastinal

Note: LEUKEMIA MONUC TGLs = 4-5

Pancreas

Atrophy
Hyperplasia
Inflammation
Leukemia Mononuclear
Hyperplasia
Hyperplasia
Leukemia Mononuclear
Squamous Cell Papilloma

Minimal
Mild
Chronic, Mild

Parathyroid Gland

Pituitary Gland

Pars Distalis
Pars Distalis

Hyperplasia
Hyperplasia
Leukemia Mononuclear
Squamous Cell Papilloma

Moderate
Moderate

Skin

Note: PAPILOMA SQUA TGLs = 1-5

Stomach

Forestomach
Forestomach
Forestomach

Acanthosis
Hyperkeratosis
Hyperplasia

Mild
Mild
Basal Cell, Mild

Note: ACANTHOSIS TGLs = 7-4

Note: HYPERKERATOSIS TGLs = 7-4

Testes

Interstit Cell
Seminif Tub

Adenoma
Atrophy

Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 165

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 1.0% MM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Interstit Cell

Hyperplasia

Minimal

Note: ATROPHY TGLs = 3-6
Note: ADENOMA TGLs = 2,3-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 168

TRT#: 3

DOSE: 1.0% MM

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 729

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Stomach - Glandular

Intestine Small - Ileum
Tongue

Nose
Urinary Bladder

Stomach - Forestomach

MISSING

Intestine Small - Jejunum

Parathyroid Gland

OBSERVATIONS

Adrenal Gland

Cortex
Medulla

Angiectasis
Pheochromocytoma Benign

Mild

Note: PHEOCHROM BGN TGLs = 13-9

Heart

Note: SCHWANNOMA MAL TGLs = 5,6-7

Schwannoma Malignant

Kidney

Renal Tubule
Transit Epithe

Hyperplasia
Hyperplasia
Nephropathy

Minimal
Minimal
Marked

[Nephropathy TGLS = 14-2]

Liver

Hemangiosarcoma
Inflammation
Necrosis

Chronic, Minimal
Coagulative, Mild

Note: HEMANGIOSARC TGLs = 15,16-1

Lung

Infiltration Cellular
Schwannoma Malignant
Hemorrhage

Histiocyte, Minimal
Metastatic (Heart)
Mild

Lymph Node

Mediastinum
Renal

Note: HEMORRHAGE TGLs = 12-9

Note: HEMORRHAGE TGLs = 17-9

Note: HEMORRHAGE TGLs = 11

Note: HEMORRHAGE TGLs = 4-6

Pancreas

Inflammation

Chronic, Mild

Pituitary Gland

Pars Distalis
Pars Distalis

Adenoma
Hyperplasia

Mild

Note: ADENOMA TGLs = 18-3

Skin

Acanthosis

Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 168

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 1.0% MM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HYPERKERATOSIS TGLs = 1-10

Hyperkeratosis

Marked

Note: ACANTHOSIS TGLs = 1-10

Spleen

Hemangiosarcoma

Note: HEMANGIOSARC TGLs = 10-4

Testes

Interstit Cell

Adenoma

Seminif Tub

Atrophy

Moderate

Interstit Cell

Hyperplasia

Mild

Note: ATROPHY TGLs = 9-8

Note: ADENOMA TGLs = 8-8

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 169

TRT#: 3

SEX: Male

DAY ON TEST: 724

DOSE: 1.0% MM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Tongue

Parathyroid Gland
Urinary Bladder

Stomach - Forestomach

Stomach - Glandular

OBSERVATIONS

Adrenal Gland

Cortex
Medulla
Medulla

Leukemia Mononuclear
Leukemia Mononuclear
Pheochromocytoma Benign

Note: PHEOCHROM BGN TGLs = 6-5

Intestine Small

Epithelium, Ileum
Epithelium, Jejunum

Pigmentation
Pigmentation

Mild

Minimal

Kidney

Transit Epithe

Hyperplasia

Mild

Liver

Bile Duct

Nephropathy
Basophilic Focus
Hyperplasia
Leukemia Mononuclear

Moderate

Minimal

Minimal

[Leukemia Mononuclear TGLS = 5-1]

Nose

Lumen

Inflammation
Metaplasia

Acute, Minimal

Squamous, Minimal

Pancreas

Adenoma
Atrophy
Inflammation
Leukemia Mononuclear

Minimal

Chronic, Minimal

Pituitary Gland

Pars Intermed

Cyst

Minimal

Preputial Gland

Adenoma

Note: ADENOMA TGLs = 2-7

Skin

Squamous Cell Papilloma

Note: PAPILLOMA SQUA TGLs = 1-6

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 4-4

Testes

Interstit Cell
Seminif Tub

Adenoma
Atrophy

Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 169	TRT#: 3 DOSE: 1.0% MM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 724 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: ADENOMA Thyroid Gland	TGLs = 3-5 Interstit Cell C Cell	Hyperplasia Hyperplasia	Minimal Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 170

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 1.0% MM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum

Nose

Parathyroid Gland

Urinary Bladder

MISSING

Tongue

INSUFFICIENT TISSUE

Eye

OBSERVATIONS

Adrenal Gland

Cortex

Leukemia Mononuclear

Medulla

Leukemia Mononuclear

Medulla

Pheochromocytoma Benign

Multiple

Note: PHEOCHROM BGN TGLs = 11-8

Heart

Cardiomyopathy

Moderate

Thrombosis

Marked

Note: THROMBUS TGLs = 3-5

Intestine Large

Cecum

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 13-4

Intestine Small

Ileum

Leukemia Mononuclear

Jejunum

Leukemia Mononuclear

Kidney

Transit Epithe

Hyperplasia

Minimal

Leukemia Mononuclear

Nephropathy

Marked

Note: LEUKEMIA MONUC TGLs = 15-2

Note: NEPHROPATHY TGLs = 15-2

Liver

Basophilic Focus

Mild

Degeneration

Cystic, Minimal

Bile Duct

Hyperplasia

Mild

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 16-1

Lung

Infiltration Cellular

Histiocyte, Minimal

Leukemia Mononuclear

Artery

Mineralization

Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 170

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 1.0% MM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC Lymph Node	TGLs = 6-6+7	Mandibular Mesenteric Pancreatic	Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear	
Note: LEUKEMIA MONUC Note: LEUKEMIA MONUC Note: LEUKEMIA MONUC Mesentery	TGLs = 12-8 TGLs = 9-3 TGLs = 1-7		Leukemia Mononuclear	
Note: LEUKEMIA MONUC Pancreas	TGLs = 14-9		Atrophy Inflammation Leukemia Mononuclear	Mild Chronic, Minimal
Pituitary Gland		Pars Distalis Pars Distalis	Hyperplasia Leukemia Mononuclear	Mild
Spleen			Depletion Lymphoid Leukemia Mononuclear	Moderate
[Leukemia Mononuclear TGLS = 10-10]				
Stomach		Forestomach Glandular	Hyperplasia Leukemia Mononuclear	Basal Cell, Mild
Testes		Interstit Cell Seminif Tub Interstit Cell	Adenoma Atrophy Hyperplasia	Moderate Minimal
Note: ADENOMA Note: ATROPHY Thymus	TGLs = 7,8-9 TGLs = 8-9			
Note: LEUKEMIA MONUC	TGLs = 4,5-5		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 171

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 1.0% MM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Stomach - Forestomach

Intestine Small - Ileum
Stomach - Glandular

Intestine Small - Jejunum
Tongue

Parathyroid Gland
Urinary Bladder

OBSERVATIONS

Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Marked
Liver		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Mixed Cell Focus	Minimal
Mesentery		Fibrosis	Mild
		Mineralization	Minimal
		Necrosis	Coagulative, Moderate
Note: MINERALIZATION TGLs = 1-4			
Note: FIBROSIS TGLs = 1-4			
Note: NECROSIS TGLs = 1-4			
Nose	Lumen	Inflammation	Acute, Mild
Note: FUNGAL HYPHAE SURROUNDED BY NEUTROPHILS WERE NOTED IN			
Note: ASPERGILLUS SPECIES.			
Note: THE LUMEN OF THE NOSE. THESE WERE PRESUMABLY			
Pancreas		Atrophy	Minimal
		Inflammation	Chronic, Minimal
		Pigmentation	Minimal
Pituitary Gland	Pars Intermed	Cyst	Minimal
	Pars Distalis	Hyperplasia	Mild
Note: [HYPERPLASIA] TGLs = 4-3			
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLS = 2,3-5]			
[Atrophy TGLS = 2-5]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:15
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 171

TRT#: 3
DOSE: 1.0% MM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 727
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:15
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 173	TRT#: 3 DOSE: 1.0% MM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 724 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Spleen
Stomach - Forestomach	Stomach - Glandular	Tongue	Urinary Bladder

OBSERVATIONS

Kidney Note: NEPHROPATHY TGLs = 4-2		Nephropathy	Mild
Liver	Bile Duct	Hyperplasia Inflammation	Minimal Chronic, Minimal
Seminal Vesicle Note: ATROPHY TGLs = 2-5		Atrophy	Mild
Testes Note: ADENOMA TGLs = 1-5	Interstit Cell Seminif Tub Interstit Cell	Adenoma Atrophy Hyperplasia	Marked Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 175

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 1.0% MM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Parathyroid Gland

Intestine Small - Duodenum
Stomach - Glandular

Intestine Small - Ileum
Tongue

Nose
Urinary Bladder

MISSING

Intestine Small - Jejunum

INSUFFICIENT TISSUE

Eye

OBSERVATIONS

Adrenal Gland
Note: PHEOCHROM BGN TGLs = 6-5

Medulla

Pheochromocytoma Benign

Kidney

Renal Tubule
Transit Epithe

Hyperplasia
Hyperplasia
Nephropathy

Cystic, Minimal
Mild
Marked

Liver

Bile Duct

Degeneration
Hyperplasia
Inflammation
Necrosis

Cystic, Minimal
Minimal
Chronic, Minimal
Coagulative, Mild

[Necrosis TGLS = 7-1]

Pancreas
Note: INFLAMMATION TGLs = 5-3

Artery

Inflammation

Necrotizing, Chronic Active, Marked

Pituitary Gland
Spleen

Pars Distalis

Hyperplasia
Depletion Lymphoid
Fibrosis

Mild
Mild
Marked

Note: FIBROSIS TGLs = 4-5

Stomach
Testes

Forestomach
Interstit Cell
Seminif Tub
Interstit Cell

Hyperplasia
Adenoma
Atrophy
Hyperplasia

Basal Cell, Minimal

Marked
Minimal

Note: ADENOMA TGLs = 2,3-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 176

TRT#: 3

SEX: Male

DAY ON TEST: 704

DOSE: 1.0% MM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Stomach - Glandular

Intestine Small - Jejunum
Tongue

Pancreas
Urinary Bladder

Parathyroid Gland

OBSERVATIONS

Intestine Small
Kidney
Liver

Epithelium, Ileum

Bile Duct

Pigmentation
Nephropathy
Basophilic Focus
Hyperplasia
Leukemia Mononuclear
Mineralization
Inflammation
Metaplasia

Minimal
Moderate
Minimal
Minimal

Minimal
Acute, Mild
Squamous, Mild

Note: FUNGAL HYPHAE PRESUMABLY ASPERGILLUS SPECIES WERE
Note: SURROUNDED BY NEUTROPHILS IN THE LUMEN OF THE NOSE.

Pituitary Gland
Preputial Gland

Pars Intermed

Cyst
Abscess

Moderate
Marked

Note: ABSCESS TGLs = 1-8

Spleen

Fibrosis
Leukemia Mononuclear

Minimal

Note: LEUKEMIA MONUC TGLs = 4-7

Stomach
Testes

Forestomach
Interstit Cell
Seminif Tub

Mineralization
Adenoma
Atrophy

Mild

Marked

[Adenoma TGLS = 3-7]

Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 177

TRT#: 3

DOSE: 1.0% MM

SEX: Male

DISP: Moribund

DAY ON TEST: 690

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Ear	Intestine Small - Duodenum	Intestine Small - Jejunum	Parathyroid Gland
Stomach - Forestomach	Thyroid Gland	Tongue	

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Cortex	Necrosis	Coagulative, Minimal
	Cortex	Vacuolization Cytoplasmic	Mild
Note: LEUKEMIA MONUC TGLs = 7-7			
Intestine Small	Ileum	Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
		Necrosis	Coagulative, Mild
Nose		Leukemia Mononuclear	
Pancreas		Leukemia Mononuclear	
Pituitary Gland	Pars Intermed	Cyst	Minimal
	Pars Distalis	Leukemia Mononuclear	
	Pars Nervosa	Leukemia Mononuclear	
Spleen		Depletion Lymphoid	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6]			
Stomach	Glandular	Leukemia Mononuclear	
Note: 1991 CONVERSION DISCREPANCY. ORIGINAL DIAGNOSIS SITE NOT SPECIFIED.			
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal
Note: ADENOMA TGLs = 3-7			
Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 178

TRT#: 3

DOSE: 1.0% MM

SEX: Male

DISP: Moribund

DAY ON TEST: 643

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	Pancreas	Parathyroid Gland	Salivary Glands
Seminal Vesicle	Spleen	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Tongue	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
	Medulla	Pheochromocytoma Benign	
	Cortex	Vacuolization Cytoplasmic	Minimal
Note: PHEOCHROM BGN TGLs = 14-8			
Heart		Cardiomyopathy	Mild
		Thrombosis	Marked
Note: THROMBUS TGLs = 6-2			
Kidney	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 15-4			
Liver		Angiectasis	Mild
	Bile Duct	Hyperplasia	Minimal
Note: ANGIECTASIS TGLs = 16-3			
Lung		Infiltration Cellular	Histiocyte, Mild
		Metaplasia	Osseous, Minimal
	Artery	Mineralization	Minimal
Note: TERMS.			
Note: DIAGNOSED AS OSSEOUS METAPLASIA FOR LACK OF BETTER			
Note: THE SMALL BONE FRAGMENTS WITH MINERALIZATION WERE			
Lymph Node	Mediastinal	Ectasia	Mild
	Lumbar	Hemorrhage	Minimal
	Mandibular	Hemorrhage	Mild
	Mediastinal	Hemorrhage	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 178

TRT#: 3

DOSE: 1.0% MM

SEX: Male

DISP: Moribund

DAY ON TEST: 643

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Mesenteric		Hemorrhage	Mild
Renal		Hemorrhage	Mild
Lumbar		Hyperplasia	Plasma Cell, Marked
Mesenteric		Infiltration Cellular	Histiocyte, Minimal
Pancreatic		Infiltration Cellular	Histiocyte, Mild
Mesenteric		Pigmentation	Minimal
Pancreatic		Pigmentation	Minimal
Note: HEMORRHAGE	TGLs = 7-2.1		
Note: HEMORRHAGE	TGLs = 11-8		
Note: HYPERPLASIA	TGLs = 19-13		
Note: HEMORRHAGE	TGLs = 19-13		
Note: HEMORRHAGE	TGLs = 18-10		
Note: INFILTRAT CELL	TGLs = 12-9		
Note: HEMORRHAGE	TGLs = 4-9		
Mammary Gland		Hyperplasia	Mild
		Pigmentation	Minimal
Pituitary Gland		Adenoma	
Note: ADENOMA	TGLs = 20-8		
Preputial Gland		Inflammation	Chronic, Mild
Prostate		Inflammation	Chronic Active, Marked
Note: INFLAMMATION	TGLs = 10-6		
Skin		Inflammation	Chronic Active, Moderate
Note: INFLAMMATION	TGLs = 3-13		
Testes		Hyperplasia	Mild
Thymus		Depletion Lymphoid	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 179

TRT#: 3

DOSE: 1.0% MM

SEX: Male

DISP: Moribund

DAY ON TEST: 704

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum

Stomach - Forestomach

Stomach - Glandular

Tongue

MISSING

Intestine Small - Jejunum

Parathyroid Gland

OBSERVATIONS

Intestine Small

Epithelium, Ileum

Pigmentation

Mild

Kidney

Transit Epithe

Hyperplasia

Minimal

Nephropathy

Moderate

[Nephropathy TGLS = 8-2]

Liver

Cholangiocarcinoma

Degeneration

Cystic, Minimal

Hemorrhage

Moderate

Bile Duct

Hyperplasia

Minimal

Inflammation

Chronic, Minimal

Note: ATION WERE NOTED IN THE PRIMARY TUMOR.

Note: EXTENSIVE AREAS OF FIBROSIS, NECROSIS, AND MINERALIZ-

[Cholangiocarcinoma TGLS = 5-1]

Lung

Cholangiocarcinoma

Metastatic (Liver)

Alveolar Epith

Hyperplasia

Minimal

Infiltration Cellular

Histiocyte, Minimal

Note: CHOLANGIOCARC TGLs = 3,4-5+6+7

Lymph Node

Mesenteric

Hemorrhage

Minimal

Pancreatic

Hemorrhage

Mild

Mesenteric

Infiltration Cellular

Histiocyte, Minimal

Pancreatic

Pigmentation

Minimal

Artery, Pancreatic

Thrombosis

Mild

Note: HEMORRHAGE TGLs = 7-3

Note: HEMORRHAGE TGLs = 9-6

Nose

Glands

Inflammation

Acute, Minimal

Pancreas

Atrophy

Mild

Hyperplasia

Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:15
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 179	TRT#: 3 DOSE: 1.0% MM	SEX: Male DISP: Moribund	DAY ON TEST: 704 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Pituitary Gland	Pars Distalis	Inflammation	Chronic, Minimal
Skin		Adenoma	
Note: KERATOACANTHOMA TGLs = 1-9		Keratoacanthoma	
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
Urinary Bladder	Subserosa	Mineralization	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 180

TRT#: 3

SEX: Male

DAY ON TEST: 608

DOSE: 1.0% MM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Lymph Node - Mandibular
Skin
Tongue

Adrenal Gland - Medulla
Epididymis
Parathyroid Gland
Stomach - Forestomach
Trachea

Bone
Esophagus
Salivary Glands
Stomach - Glandular
Urinary Bladder

Bone Marrow
Islets, Pancreatic
Seminal Vesicle
Thyroid Gland

AUTO PRECLUDES DIAG.

Intestine Large - Cecum
Intestine Small - Ileum

Intestine Large - Colon
Intestine Small - Jejunum

Intestine Large - Rectum

Intestine Small - Duodenum

OBSERVATIONS

Heart
Kidney
Liver

Lung

[Congestion TGLS = 2-1+2]
Lymph Node

Mammary Gland
Nose

Pancreas

Pituitary Gland
Preputial Gland
Prostate
Spleen
Testes

Bile Duct

Mesenteric
Mesenteric

Mucosa
Lumen

Pars Distalis

Interstit Cell
Seminif Tub
Interstit Cell

Cardiomyopathy
Nephropathy
Hyperplasia
Inflammation
Congestion
Infiltration Cellular

Infiltration Cellular
Pigmentation
Hyperplasia
Congestion
Inflammation
Atrophy
Inflammation
Autolysis
Inflammation
Inflammation
Depletion Lymphoid
Adenoma
Atrophy
Hyperplasia

Moderate
Mild
Minimal
Chronic, Minimal
Marked
Histiocyte, Minimal

Histiocyte, Minimal
Minimal
Mild
Marked
Acute, Marked
Minimal
Chronic, Minimal
Moderate
Chronic, Mild
Chronic Active, Minimal
Mild

Mild
Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 180

TRT#: 3

DOSE: 1.0% MM

SEX: Male

DISP: Dead

DAY ON TEST: 608

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Thymus

Congestion

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 181

TRT#: 3

SEX: Male

DAY ON TEST: 703

DOSE: 1.0% MM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Stomach - Forestomach

Intestine Small - Ileum
Stomach - Glandular

Intestine Small - Jejunum
Tongue

Parathyroid Gland
Urinary Bladder

OBSERVATIONS

Kidney

Leukemia Mononuclear
Nephropathy

Moderate

Note: NEPHROPATHY TGLs = 9-2

Liver

Fatty Change
Hyperplasia
Leukemia Mononuclear

Moderate

Moderate

Bile Duct

[Leukemia Mononuclear TGLS = 8-1]

Lung

Hemorrhage
Hyperplasia
Infiltration Cellular
Leukemia Mononuclear
Mineralization

Minimal

Minimal

Histiocyte, Minimal

Minimal

Bronchiole, Epithelium

Artery

Note: HEMORRHAGE TGLs = 3-6

Note: LEUKEMIA MONUC TGLs = 4-5+6

Nose

Leukemia Mononuclear

Pancreas

Atrophy
Inflammation

Minimal

Chronic, Minimal

Pituitary Gland

Pars Distalis
Pars Intermed
Pars Intermed
Pars Distalis

Angiectasis
Crystals
Cyst
Hyperplasia

Moderate

Marked

Moderate

Moderate

Note: SPACE IN THE PARS INTERMEDIA.

Note: LARGE EOSINOPHILIC CRYSTALS WERE NOTED IN THE CYSTIC

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 7-8

Testes

Interstit Cell
Seminif Tub

Adenoma
Atrophy

Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:15
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 181

TRT#: 3
DOSE: 1.0% MM

SEX: Male
DISP: Moribund

DAY ON TEST: 703
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA	TGLs = 5,6-7	Interstit Cell	Hyperplasia	Minimal
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PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:15
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 182

TRT#: 3
DOSE: 1.0% MM

SEX: Male
DISP: Moribund

DAY ON TEST: 673
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Ear	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Nose	Parathyroid Gland	Peripheral Nerve	Spinal Cord
Spleen	Stomach - Forestomach	Stomach - Glandular	Tongue
Urinary Bladder			

OBSERVATIONS

Kidney		Nephropathy	Moderate
Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
Pancreas		Adenoma	
		Atrophy	Mild
		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 183

TRT#: 3

DOSE: 1.0% MM

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 729

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Nose

Urinary Bladder

Intestine Small - Duodenum

Parathyroid Gland

Intestine Small - Ileum

Spleen

Intestine Small - Jejunum

Tongue

OBSERVATIONS

Adrenal Gland

Note: PHEOCHROM BGN TGLs = 4-4

Heart

Note: THROMBUS TGLs = 3-5

Note: CARDIOMYOPATHY TGLs = 3-5

Kidney

Note: NEPHROPATHY TGLs = 5-2

Liver

Medulla

Bile Duct

Pancreas

Pituitary Gland

Stomach

Testes

Note: ADENOMA TGLs = 1-6

Pheochromocytoma Benign

Cardiomyopathy

Thrombosis

Nephropathy

Basophilic Focus

Hemorrhage

Hyperplasia

Inflammation

Necrosis

Inflammation

Adenoma

Angiectasis

Hyperplasia

Pigmentation

Adenoma

Atrophy

Hyperplasia

Moderate

Marked

Marked

Minimal

Moderate

Minimal

Chronic, Minimal

Coagulative, Moderate

Chronic, Minimal

Moderate

Basal Cell, Minimal

Minimal

Marked

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 184

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 1.0% MM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Tongue

Parathyroid Gland
Urinary Bladder

Stomach - Forestomach

Stomach - Glandular

MISSING

Intestine Small - Jejunum

OBSERVATIONS

Intestine Small

Epithelium, Ileum

Pigmentation

Minimal

Kidney

Nephropathy

Moderate

Note: NEPHROPATHY TGLs = 4-2

Liver

Bile Duct

Hyperplasia

Mild

Leukemia Mononuclear

Lymph Node

Mandibular

Ectasia

Marked

Mandibular

Hemorrhage

Mild

Note: ECTASIA TGLs = 1-4

Nose

Lumen

Inflammation

Acute, Minimal

Pancreas

Inflammation

Chronic, Minimal

Pituitary Gland

Pars Distalis

Adenoma

Multiple

Pars Intermed

Angiectasis

Moderate

Note: ADENOMA TGLs = 5-3

Spleen

Fibrosis

Moderate

Leukemia Mononuclear

Note: FIBROSIS TGLs = 3-5

Testes

Interstit Cell

Adenoma

Seminif Tub

Atrophy

Marked

Interstit Cell

Hyperplasia

Minimal

[Adenoma TGLS = 2-5]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 185

TRT#: 3

SEX: Male

DAY ON TEST: 574

DOSE: 1.0% MM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	Parathyroid Gland	Seminal Vesicle
Skin	Spleen	Thyroid Gland	Tongue
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Mild
	Medulla	Hyperplasia	Minimal
	Medulla	Pheochromocytoma Benign	
	Cortex	Vacuolization Cytoplasmic	Moderate
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Moderate
Liver		Fatty Change	Moderate
Lung		Hemorrhage	Mild
		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Lymph Node	Mediastinal	Hemorrhage	Moderate
	Mesenteric	Hemorrhage	Mild
	Pancreatic	Hemorrhage	Mild
	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mesenteric	Pigmentation	Minimal
Note: HEMORRHAGE	TGLs = 5-2		
Note: HEMORRHAGE	TGLs = 8-8		
[Hemorrhage TGLS = 9-9]			
Mammary Gland		Hyperplasia	Minimal
Pancreas		Atrophy	Minimal
		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Congestion	Mild
Note: CONGESTION	TGLs = 10-8		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 185

TRT#: 3

SEX: Male

DAY ON TEST: 574

DOSE: 1.0% MM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Preputial Gland		Inflammation	Chronic, Mild
Prostate		Inflammation	Chronic Active, Mild
Salivary Glands	Parotid GI	Vacuolization Cytoplasmic	Moderate
Stomach	Glandular	Hemorrhage	Minimal
	Forestomach	Hyperplasia	Basal Cell, Minimal
	Glandular	Necrosis	Coagulative, Minimal
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Minimal
Note: ADENOMA	TGLs = 7-6		
Thymus		Depletion Lymphoid	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 186

TRT#: 3

DOSE: 1.0% MM

SEX: Male

DISP: Moribund

DAY ON TEST: 699

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Nose

Parathyroid Gland

Stomach - Forestomach

Stomach - Glandular

Tongue

OBSERVATIONS

Islets, Pancreatic

Carcinoma

Note: CARCINOMA TGLs = 5-3

Kidney

Nephropathy

Moderate

Note: NEPHROPATHY TGLs = 7-2

Liver

Basophilic Focus

Minimal

Degeneration

Cystic, Minimal

Eosinophilic Focus

Minimal

Bile Duct

Hyperplasia

Minimal

Inflammation

Chronic, Minimal

Lung

Infiltration Cellular

Histiocyte, Minimal

Mammary Gland

Fibroadenoma

Note: FIBROADENOMA TGLs = 1-8

Pancreas

Atrophy

Minimal

Inflammation

Chronic, Minimal

Pituitary Gland

Pars Distalis

Cyst

Mild

Pars Intermed

Cyst

Moderate

Pars Nervosa

Hyperplasia

Mild

Seminal Vesicle

Atrophy

Moderate

Note: ATROPHY TGLs = 3-7

Spleen

Pigmentation

Moderate

Note: IN MACROPHAGES IN THE RED PULP.

Note: PIGMENT TGLs = 4-6

Note: INCREASED AMOUNTS OF OLIVE-GREEN PIGMENT WERE OBSERVED

Testes

Interstit Cell

Adenoma

Seminif Tub

Atrophy

Marked

Note: ADENOMA TGLs = 2-7

Urinary Bladder

Inflammation

Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 186

TRT#: 3

SEX: Male

DAY ON TEST: 699

DOSE: 1.0% MM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 187

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 1.0% MM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Stomach - Forestomach

Intestine Small - Ileum
Stomach - Glandular

Intestine Small - Jejunum
Tongue

Parathyroid Gland
Urinary Bladder

OBSERVATIONS

Kidney
Liver

Nephropathy
Degeneration
Eosinophilic Focus
Hyperplasia
Leukemia Mononuclear
Mixed Cell Focus
Neoplastic Nodule

Mild
Cystic, Minimal
Minimal
Mild
Moderate
Multiple

Bile Duct

Note: NEOPLASTIC NOD TGLs = 8-1
[Leukemia Mononuclear TGLS = 7-1]

Lung
Mammary Gland
[Fibroadenoma TGLS = 1-8]

Leukemia Mononuclear
Fibroadenoma

Nose
Pancreas

Leukemia Mononuclear
Atrophy
Inflammation

Minimal
Chronic, Minimal

Pituitary Gland
Spleen

Pars Distalis

Leukemia Mononuclear
Fibrosis
Leukemia Mononuclear

Mild

Note: FIBROSIS TGLs = 5-7
Note: LEUKEMIA MONUC TGLs = 4-7

Testes

Interstit Cell
Seminif Tub
Interstit Cell

Adenoma
Atrophy
Hyperplasia

Marked
Minimal

Note: ADENOMA TGLs = 2,3-6
Note: ATROPHY TGLs = 3-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 188

TRT#: 3

SEX: Male

DAY ON TEST: 624

DOSE: 1.0% MM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	Pancreas
Salivary Glands	Seminal Vesicle	Skin	Stomach - Forestomach
Stomach - Glandular	Tongue	Trachea	Urinary Bladder

INSUFFICIENT TISSUE

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Cortex	Vacuolization Cytoplasmic	Mild
Brain		Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
Note: NEPHROPATHY	TGLs = 8-4		
Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 9-3		
Lung		Hemorrhage	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	Artery	Mineralization	Minimal
[Hemorrhage TGLS = 2-1]			
[Leukemia Mononuclear TGLS = 2-1+2]			
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Mild
	Mandibular	Leukemia Mononuclear	
	Mesenteric	Pigmentation	Mild
Mammary Gland		Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 188

TRT#: 3

SEX: Male

DAY ON TEST: 624

DOSE: 1.0% MM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Nose		Leukemia Mononuclear	
Pituitary Gland	Pars Intermed	Cyst	Minimal
	Pars Distalis	Leukemia Mononuclear	
Preputial Gland		Inflammation	Chronic, Mild
Prostate		Inflammation	Chronic Active, Minimal
Spleen		Depletion Lymphoid	Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-3		
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Minimal
		Leukemia Mononuclear	
Note: ADENOMA	TGLs = 3,4-6		
Thymus		Depletion Lymphoid	Moderate
Thyroid Gland	C Cell	Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 190

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 1.0% MM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Lymph Node

Nose

Parathyroid Gland

Stomach - Forestomach

Stomach - Glandular

Tongue

Urinary Bladder

OBSERVATIONS

Kidney

Nephropathy

Moderate

Liver

Basophilic Focus

Minimal

Degeneration

Minimal

Eosinophilic Focus

Minimal

Bile Duct

Hyperplasia

Minimal

Inflammation

Chronic, Minimal

Lung

Hemorrhage

Minimal

Infiltration Cellular

Histiocyte, Minimal

Note: HEMORRHAGE TGLs = 4-5

Mammary Gland

Fibroadenoma

Note: FIBROADENOMA TGLs = 1-7

Pancreas

Atrophy

Minimal

Inflammation

Chronic, Minimal

Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Hyperplasia

Minimal

Testes

Interstitial Cell

Adenoma

Seminif Tub

Atrophy

Marked

[Adenoma TGLS = 2-6]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 191

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 1.0% MM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Nose

Parathyroid Gland

Pituitary Gland

Stomach - Forestomach

Stomach - Glandular

Tongue

Urinary Bladder

MISSING

Bone

OBSERVATIONS

Adrenal Gland

Medulla

Pheochromocytoma Malignant

Note: PHEOCHROM MAL TGLs = 3-6

Kidney

Nephropathy

Moderate

Liver

Basophilic Focus

Minimal

Bile Duct

Hyperplasia

Minimal

Inflammation

Chronic, Minimal

Leukemia Mononuclear

Mixed Cell Focus

Minimal

Lung

Infiltration Cellular

Histiocyte, Minimal

Inflammation

Chronic Active, Minimal

Artery

Mineralization

Minimal

Pancreas

Atrophy

Minimal

Inflammation

Chronic, Minimal

Testes

Interstit Cell

Adenoma

Seminif Tub

Atrophy

Marked

Interstit Cell

Hyperplasia

Minimal

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 193

TRT#: 3

SEX: Male

DAY ON TEST: 427

DOSE: 1.0% MM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Coagulating Gland
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Stomach - Glandular
Urinary Bladder

Bone
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Salivary Glands
Thyroid Gland

Bone Marrow
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Seminal Vesicle
Tongue

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Stomach - Forestomach
Trachea

MISSING

Skin

INSUFFICIENT TISSUE

Parathyroid Gland

OBSERVATIONS

Adrenal Gland Note: HEMORRHAGE TGLs = 16-4.1 Note: MASSIVE HEMMORHAGE BOTH WITHIN AND WITHOUT LEFT Note: ADRENAL.	Cortex	Hemorrhage	Marked
Heart Note: CARDIOMYOPATHY TGLs = 8-2		Cardiomyopathy	Mild
Kidney Note: HEMORRHAGE TGLs = 13-4.1 Note: PIGMENT IS GOLD-YELLOW IN COLOR.	Epithelium, Prox Con Tub	Hemorrhage Nephropathy Pigmentation	Marked Minimal Minimal
Liver	Bile Duct	Hyperplasia Inflammation	Minimal Chronic, Minimal
Lung	Artery	Alveolar/Bronchiolar Adenoma Alveolar/Bronchiolar Carcinoma Edema Infiltration Cellular Mineralization	Multiple Mild Histiocyte, Marked Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 193

TRT#: 3

SEX: Male

DAY ON TEST: 427

DOSE: 1.0% MM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ALV BRON CARC TGLs = 7-1

[Alveolar/Bronchiolar Adenoma TGLS = 6,7-1+2]

[Infiltration Cellular TGLS = 6,7-1]

Lymph Node	Mediastinal	Hemorrhage	Mild
Mammary Gland		Hyperplasia	Minimal
Pancreas		Atrophy	Minimal
Pituitary Gland	Pars Distalis	Autolysis	Mild
Preputial Gland		Inflammation	Chronic, Minimal
Prostate		Inflammation	Chronic Active, Minimal
Spleen		Depletion Lymphoid	Mild
Note: DEPLET LYMPH TGLs = 11-3			
Testes	Interstit Cell	Hyperplasia	Minimal
Thymus		Depletion Lymphoid	Marked
		Hemorrhage	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: ORGANS REVEALED MODERATE TO MARKED AUTOLYSIS.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 194

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 1.0% MM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla

Eye

Intestine Small - Duodenum

Nose

Parathyroid Gland

Stomach - Forestomach

Stomach - Glandular

Tongue

Urinary Bladder

MISSING

Intestine Small - Jejunum

OBSERVATIONS

Adrenal Gland

Cortex

Hyperplasia

Minimal

Heart

Cardiomyopathy

Mild

Metaplasia

Osseous, Mild

Note: APPEAR TO BE ENLARGED AT NECROPSY.

Note: LARGE POSTMORTEM BLOOD CLOTS IN THE ATRIA MADE THEM

Intestine Small

Epithelium, Ileum

Pigmentation

Mild

Kidney

Nephropathy

Moderate

Liver

Basophilic Focus

Minimal

Hepatocellular Adenoma

Multiple

Hyperplasia

Mild

Leukemia Mononuclear

Mixed Cell Focus

Multiple, Moderate

Necrosis

Coagulative, Minimal

Note: [HEPATOCLR ADEN] TGLs = 15,16,17-1+1.1+1.2

Note: EXTENSIVE AREAS OF ANGIECTASIS WERE NOTED WITHIN SOME

Note: OF THE NEOPLASTIC NODULES.

Lung

Leukemia Mononuclear

Artery

Mineralization

Minimal

Lymph Node

Mediastinal

Ectasia

Mild

Renal

Ectasia

Mild

Mediastinal

Leukemia Mononuclear

Pancreatic

Leukemia Mononuclear

Renal

Leukemia Mononuclear

Renal

Pigmentation

Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 194

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 1.0% MM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 13-3

Note: ECTASIA TGLs = 18-5

Note: ECTASIA TGLs = 7-5

Note: PIGMENT TGLs = 18-5

Note: LEUKEMIA MONUC TGLs = 18-5

Note: LEUKEMIA MONUC TGLs = 7-5

Mammary Gland

Fibroadenoma

Note: FIBROADENOMA TGLs = 3-11

Pancreas

Leukemia Mononuclear

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA TGLs = 19,20-3

Preputial Gland

Adenoma

Note: ADENOMA TGLs = 4,5-12

Seminal Vesicle

Atrophy

Moderate

Note: ATROPHY TGLs = 11-9

Skin

Basosquamous Tumor Benign

Note: BASOSQU TM BGN TGLs = 2-10

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 12-8

Testes

Interstit Cell

Adenoma

Seminif Tub

Atrophy

Marked

Interstit Cell

Hyperplasia

Minimal

Note: ADENOMA TGLs = 9-9

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 195

TRT#: 3

SEX: Male

DAY ON TEST: 684

DOSE: 1.0% MM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Eye	Intestine Large - Cecum	Intestine Small - Duodenum	Intestine Small - Ileum
Nose	Pancreas	Parathyroid Gland	Seminal Vesicle
Stomach - Forestomach	Stomach - Glandular	Tongue	

MISSING

Intestine Small - Jejunum

OBSERVATIONS

Kidney	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 11,12-2+2.1		
Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
Lung		Carcinoma	Metastatic (Thyroid Gland)
	Artery	Mineralization	Minimal
Lymph Node		Carcinoma	Metastatic (Thyroid Gland)
	Renal	Hemorrhage	Mild
	Renal	Hyperplasia	Lymphoid, Moderate
Note: CARCINOMA	TGLs = 13-5		
Note: HEMORRHAGE	TGLs = 14-5		
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 15-3		
Preputial Gland		Inflammation	Chronic, Minimal
Note: INFLAMMATION	TGLs = 3-8		
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLS = 6-7]			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Carcinoma	
Note: CARCINOMA	TGLs = 4-3.1		
Urinary Bladder	Artery	Mineralization	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 195

TRT#: 3

SEX: Male

DAY ON TEST: 684

DOSE: 1.0% MM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 196

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 1.0% MM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Parathyroid Gland

Pituitary Gland

Stomach - Forestomach

Tongue

Urinary Bladder

OBSERVATIONS

Kidney

Nephropathy

Moderate

Liver

Clear Cell Focus

Minimal

Degeneration

Cystic, Minimal

Eosinophilic Focus

Minimal

Bile Duct

Hyperplasia

Mild

Inflammation

Chronic, Minimal

Neoplastic Nodule

Nose

Lumen

Inflammation

Acute, Mild

Pancreas

Atrophy

Mild

Inflammation

Chronic, Minimal

Stomach

Epithelium, Glandular

Pigmentation

Minimal

Testes

Interstitial Cell

Adenoma

Marked

Seminif Tub

Atrophy

Minimal

Interstitial Cell

Hyperplasia

[Adenoma TGLS = 1-5]

Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 197

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 1.0% MM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Nose

Parathyroid Gland

Stomach - Forestomach

Stomach - Glandular

Tongue

Urinary Bladder

OBSERVATIONS

Kidney

Transit Epithe

Hyperplasia

Mild

Nephropathy

Moderate

Liver

Bile Duct

Hyperplasia

Minimal

Inflammation

Chronic, Minimal

Lymphoma Malignant Histiocytic

Note: LYMPH MAL HIST TGLs = 4-1

Pancreas

Inflammation

Chronic, Minimal

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA TGLs = 5-3

Skin

Subcut Tiss

Myxoma

Note: THE CENTRAL 90% PORTION OF THIS TUMOR WAS NECROTIC.

Note: MYXOMA TGLs = 1-6

Testes

Interstit Cell

Adenoma

Moderate

Seminif Tub

Atrophy

Interstit Cell

Hyperplasia

Minimal

[Adenoma TGLS = 2-5]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 198

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 1.0% MM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Tongue

Intestine Small - Jejunum
Urinary Bladder

Stomach - Forestomach

Stomach - Glandular

MISSING

Bone

OBSERVATIONS

Intestine Small
Note: HYPERPLASIA TGLs = 4-4

Ileum, Peyers Patch

Hyperplasia

Mild

Kidney

Transit Epithe

Hydronephrosis

Mild

Hyperplasia

Minimal

Nephropathy

Marked

Note: NEPHROPATHY TGLs = 5-2
Liver

Cytoplasmic Alteration

Mild

Nose

Bile Duct

Hyperplasia

Minimal

Pancreas

Lumen

Inflammation

Acute, Moderate

Parathyroid Gland

Inflammation

Chronic, Minimal

Pituitary Gland

Pars Distalis

Hyperplasia

Mild

Seminal Vesicle

Hyperplasia

Minimal

Atrophy

Moderate

Note: ATROPHY TGLs = 3-5

Testes

Interstit Cell

Adenoma

Seminif Tub

Atrophy

Marked

Interstit Cell

Hyperplasia

Minimal

[Adenoma TGLS = 1,2-5]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 199

TRT#: 3

SEX: Male

DAY ON TEST: 420

DOSE: 1.0% MM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	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	Nose	Salivary Glands
Skin	Thymus	Thyroid Gland	Tongue
Trachea			

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Epididymis		Mesothelioma Malignant	
Note: MESOTHELIO MAL TGLs = 6-6			
Heart		Cardiomyopathy	Mild
Note: CARDIOMYOPATHY TGLs = 2-2			
Kidney		Nephropathy	Mild
Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
	Centrilobular	Necrosis	Coagulative, Mild
Note: NECROSIS TGLs = 12-3			
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mesenteric	Hemorrhage	Mild
	Mesenteric	Infiltration Cellular	Histiocyte, Mild
	Mediastinal	Pigmentation	Minimal
	Mesenteric	Pigmentation	Minimal
Note: PIGMENT TGLs = 1-2			
Mesentery		Mesothelioma Malignant	
Note: MESOTHELIO MAL TGLs = 9-6+7+8			
Pancreas		Atrophy	Mild
	Serosa	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
Pituitary Gland	Rathkes Cleft	Cyst	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 199

TRT#: 3

SEX: Male

DAY ON TEST: 420

DOSE: 1.0% MM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Pars Intermed

Ectopic Tissue

Mild

Pars Nervosa

Ectopic Tissue

Mild

Note: ECT TISSUE TGLs = 17-8

Preputial Gland

Inflammation

Chronic, Minimal

Prostate

Inflammation

Chronic Active, Mild

Seminal Vesicle

Mesothelioma Malignant

Spleen

Hematopoietic Cell Proliferation

Moderate

Testes

Interstit Cell

Adenoma

Seminif Tub

Atrophy

Marked

Interstit Cell

Hyperplasia

Minimal

Mesothelioma Malignant

Note: ATROPHY TGLs = 7-6

Urinary Bladder

Transit Epithe

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 200

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 1.0% MM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Heart	Intestine Small - Duodenum	Intestine Small - Jejunum	Parathyroid Gland
Seminal Vesicle	Spleen	Stomach - Glandular	Tongue
Urinary Bladder			

OBSERVATIONS

Intestine Small	Epithelium, Ileum	Pigmentation	Minimal
Kidney	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 3,4-2			
Liver		Basophilic Focus	Minimal
		Degeneration	Cystic, Minimal
		Inflammation	Chronic, Mild
Nose	Glands	Inflammation	Acute, Minimal
Pancreas		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 7-3			
Skin		Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 1-6]			
Stomach	Forestomach	Mineralization	Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 201

TRT#: 3

SEX: Male

DAY ON TEST: 643

DOSE: 1.0% MM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	Nose
Parathyroid Gland	Preputial Gland	Salivary Glands	Seminal Vesicle
Skin	Stomach - Forestomach	Stomach - Glandular	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Note: PHEOCHROM BGN	TGLs = 10-8		
Brain		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-2		
Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
Liver		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-3		
Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	Artery	Mineralization	Minimal
[Leukemia Mononuclear TGLS = 2-1+2]			
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Renal	Infiltration Cellular	Histiocyte, Minimal
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 201

TRT#: 3

SEX: Male

DAY ON TEST: 643

DOSE: 1.0% MM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Mesenteric		Pigmentation	Minimal
Renal		Pigmentation	Minimal
Note: LEUKEMIA MONUC	TGLs = 12-10		
Note: LEUKEMIA MONUC	TGLs = 5-2		
Mammary Gland		Hyperplasia	Mild
Pancreas		Inflammation	Chronic, Minimal
Pituitary Gland		Cyst	Mild
	Pars Distalis	Cyst	Minimal
	Pars Intermed	Cyst	Minimal
	Pars Distalis	Hyperplasia	Mild
	Pars Distalis, Pars Intermed, Pars Nervosa	Leukemia Mononuclear	
Note: CYST	TGLs = 13-8		
Prostate		Inflammation	Chronic Active, Moderate
Spleen		Depletion Lymphoid	Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-3		
Testes		Adenoma	
	Interstit Cell	Atrophy	Moderate
	Seminif Tub	Hyperplasia	Minimal
	Interstit Cell		
Note: ADENOMA	TGLs = 8-6		
Thymus		Leukemia Mononuclear	
Thyroid Gland	Follicle	Pigmentation	Minimal
Tongue		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 202

TRT#: 3

DOSE: 1.0% MM

SEX: Male

DISP: Moribund

DAY ON TEST: 695

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Bone

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Nose

Parathyroid Gland

Spinal Cord

Stomach - Forestomach

Stomach - Glandular

Tongue

Urinary Bladder

INSUFFICIENT TISSUE

Eye

OBSERVATIONS

Adrenal Gland

Medulla

Pheochromocytoma Benign

Note: PHEOCHROM BGN TGLs = 4-6

Kidney

Nephropathy

Moderate

Note: NEPHROPATHY TGLs = 5-2

Liver

Hemorrhage

Mild

Bile Duct

Hyperplasia

Minimal

Note: HEMORRHAGE TGLs = 6-1

Inflammation

Chronic, Minimal

Lung

Artery

Mineralization

Minimal

Pancreas

Atrophy

Mild

Inflammation

Chronic, Minimal

Pituitary Gland

Pars Distalis

Adenoma

Pars Intermed

Cyst

Mild

Pars Distalis

Pigmentation

Minimal

Note: ADENOMA TGLs = 8-3

Testes

Interstit Cell

Adenoma

Seminif Tub

Atrophy

Marked

Interstit Cell

Hyperplasia

Minimal

[Adenoma TGLS = 3-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 204

TRT#: 3

SEX: Male

DAY ON TEST: 617

DOSE: 1.0% MM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	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	Skin
Stomach - Forestomach	Stomach - Glandular	Trachea	Urinary Bladder

MISSING

Tongue

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Minimal
Bone Marrow		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
		Thrombosis	Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
	Epithelium, Prox Con Tub	Pigmentation	Mild
Note: PIGMENT TGLs = 10-4			
Note: LEUKEMIA MONUC TGLs = 9-4			
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 11-3			
Lung		Edema	Mild
		Hemorrhage	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	Artery	Mineralization	Minimal
Note: LEUKEMIA MONUC TGLs = 7-1+2			
Note: EDEMA TGLs = 8-1+2			
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 204

TRT#: 3

DOSE: 1.0% MM

SEX: Male

DISP: Moribund

DAY ON TEST: 617

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Mesenteric	Pigmentation	Minimal
Note: LEUKEMIA MONUC	TGLs = 2,3-9		
Note: LEUKEMIA MONUC	TGLs = 6-2		
Mammary Gland		Hyperplasia	Mild
Pancreas		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Intermed	Cyst	Mild
	Pars Distalis	Leukemia Mononuclear	
Preputial Gland		Inflammation	Chronic, Mild
Prostate		Inflammation	Chronic Active, Moderate
Spleen		Depletion Lymphoid	Marked
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-3		
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Mild
	Interstit Cell	Hyperplasia	Minimal
Note: ADENOMA	TGLs = 4-6		
Thymus		Leukemia Mononuclear	
Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 205

TRT#: 3

SEX: Male

DAY ON TEST: 724

DOSE: 1.0% MM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Stomach - Forestomach

Intestine Small - Jejunum
Urinary Bladder

Nose

Parathyroid Gland

MISSING

Tongue

OBSERVATIONS

Intestine Small
Kidney

Epithelium, Ileum

Pigmentation
Nephropathy

Mild
Moderate

Note: NEPHROPATHY TGLs = 5,6,7-2

Liver

Bile Duct

Basophilic Focus
Hyperplasia
Inflammation

Minimal
Minimal
Chronic, Minimal

Lung

Artery

Mineralization

Minimal

Lymph Node

Mandibular

Ectasia

Marked

Note: ECTASIA TGLs = 2-6

Pancreas

Atrophy
Inflammation

Minimal
Chronic, Minimal

Pituitary Gland

Pars Distalis
Pars Intermed
Pars Distalis
Pars Intermed

Adenoma
Angiectasis
Hyperplasia
Hyperplasia

Mild
Mild
Minimal

Note: ADENOMA TGLs = 9-3

Preputial Gland

Adenoma

Note: ADENOMA TGLs = 1-7

Stomach

Epithelium, Glandular

Pigmentation

Minimal

Testes

Interstit Cell
Seminif Tub
Interstit Cell

Adenoma
Atrophy
Hyperplasia

Marked
Minimal

[Adenoma TGLS = 4-8]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 206

TRT#: 3

SEX: Male

DAY ON TEST: 673

DOSE: 1.0% MM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Coagulating Gland	Intestine Small - Jejunum	Pancreas
Tongue			

MISSING

Intestine Small - Duodenum	Urinary Bladder
----------------------------	-----------------

INSUFFICIENT TISSUE

Eye

OBSERVATIONS

Intestine Small Note: PIGMENT TGLs = 6-4	Epithelium, Ileum	Pigmentation	Mild
Kidney	Renal Tubule	Cyst	Minimal
	Transit Epithe	Hyperplasia	Minimal
		Hyperplasia	Mild
		Leukemia Mononuclear	
		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 8-2+2.1			
Liver	Bile Duct	Basophilic Focus	Minimal
		Hyperplasia	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-1]			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-8			
Mammary Gland		Fibroadenoma	
		Leukemia Mononuclear	
Note: FIBROADENOMA TGLs = 3-11			
Nose	Lumen	Inflammation	Acute, Minimal
Note: BONE MARROW IN CRANIUM SHOWS MARKED MYELOFIBROSIS.			
Parathyroid Gland		Hyperplasia	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Intermed	Cyst	Minimal
	Pars Distalis	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 206

TRT#: 3

SEX: Male

DAY ON TEST: 673

DOSE: 1.0% MM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA	TGLs = 11-3			
Spleen			Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-9			
Stomach		Forestomach	Acanthosis	Moderate
		Forestomach	Hyperkeratosis	Moderate
		Forestomach	Hyperplasia	Basal Cell, Mild
		Glandular	Leukemia Mononuclear	
		Glandular, Mucosa	Mineralization	Mild
		Forestomach	Ulcer	Marked
Note: ULCER	TGLs = 13-4			
Testes		Interstit Cell	Adenoma	
		Seminif Tub	Atrophy	Marked
		Interstit Cell	Hyperplasia	Minimal
Note: ADENOMA	TGLs = 5-10			
Thyroid Gland		C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 207

TRT#: 3

SEX: Male

DAY ON TEST: 549

DOSE: 1.0% MM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Eye	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Pancreas
Parathyroid Gland	Salivary Glands	Seminal Vesicle	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Tongue	Trachea
Urinary Bladder			

MISSING

Intestine Large - Rectum	Mammary Gland	Skin
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OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Mild
Heart		Cardiomyopathy	Moderate
Kidney		Nephropathy	Mild
	Epithelium, Prox Con Tub	Pigmentation	Mild
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Pituitary Gland	Pars Distalis, Pars Nervosa	Leukemia Mononuclear	
Preputial Gland		Inflammation	Chronic, Mild
Prostate		Inflammation	Chronic Active, Minimal
Spleen		Depletion Lymphoid	Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-3		
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Minimal
	Interstit Cell	Hyperplasia	Minimal
Note: ADENOMA	TGLs = 5-6		
Thymus		Depletion Lymphoid	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 207

TRT#: 3

SEX: Male

DAY ON TEST: 549

DOSE: 1.0% MM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 209

TRT#: 3

SEX: Male

DAY ON TEST: 592

DOSE: 1.0% MM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Epididymis	Esophagus
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Nose	Parathyroid Gland	Seminal Vesicle
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Tongue
Trachea	Urinary Bladder		

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Cortex	Lymphoma Malignant Mixed	
	Medulla	Lymphoma Malignant Mixed	
	Cortex	Vacuolization Cytoplasmic	Mild
Note: LYMPH MAL MIXD			TGLs = 12-8
Brain	Chor Plexus	Lymphoma Malignant Mixed	
Heart		Cardiomyopathy	Mild
		Lymphoma Malignant Mixed	
Intestine Large	Cecum	Lymphoma Malignant Mixed	
Intestine Small	Duodenum	Lymphoma Malignant Mixed	
	Ileum	Lymphoma Malignant Mixed	
Kidney		Lymphoma Malignant Mixed	
		Nephropathy	Moderate
Liver		Basophilic Focus	Minimal
		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
		Lymphoma Malignant Mixed	
Lung		Lymphoma Malignant Mixed	
	Artery	Mineralization	Minimal
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mediastinal	Lymphoma Malignant Mixed	
	Mesenteric	Lymphoma Malignant Mixed	
	Mesenteric	Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 209

TRT#: 3

DOSE: 1.0% MM

SEX: Male

DISP: Moribund

DAY ON TEST: 592

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LYMPH MAL MIXD	TGLs = 7-3			
Mesentery			Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD	TGLs = 13,14-9			
Pancreas			Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD	TGLs = 9,10-7+8			
Pituitary Gland		Pars Distalis	Adenoma	
		Pars Distalis	Hyperplasia	Mild
Preputial Gland			Inflammation	Chronic, Mild
Prostate			Lymphoma Malignant Mixed	
Salivary Glands		Sublingual GI	Lymphoma Malignant Mixed	
Skin		Subcut Tissue	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD	TGLs = 1,3-10+13+13.1			
Spleen			Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD	TGLs = 8-3			
Testes		Interstitial Cell	Adenoma	
		Seminiferous Tub	Atrophy	Moderate
			Mesothelioma Benign	
Note: ADENOMA	TGLs = 4-6			
Thymus			Lymphoma Malignant Mixed	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 211

TRT#: 4

SEX: Male

DAY ON TEST: 690

DOSE: 4.0% HM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Epididymis	Esophagus	Nose
Prostate	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Tongue	Trachea	Urinary Bladder	

MISSING

Lymph Node - Mandibular

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum		

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Minimal
	Medulla	Angiectasis	Minimal
	Medulla	Hyperplasia	Mild
	Cortex	Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Moderate
Kidney	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 9-4		
Note: PCT REVEALS MARKED POSTMORTEM CHANGE.			
Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
	Centrilobular	Necrosis	Coagulative, Moderate
Note: NECROSIS	TGLs = 10-3		
Lung		Infiltration Cellular	Histiocyte, Mild
	Artery	Mineralization	Minimal
Lymph Node	Pancreatic	Hemorrhage	Minimal
Note: HEMORRHAGE	TGLs = 8-8		
Pancreas		Atrophy	Minimal
		Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 211

TRT#: 4

DOSE: 4.0% HM

SEX: Male

DISP: Dead

DAY ON TEST: 690

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Parathyroid Gland

Pituitary Gland

Preputial Gland

Seminal Vesicle

Skin

Note: THE BAGGED TISSUES WERE SEARCHED FOR THE SCROTAL NODULE

Note: HOWEVER IT WAS NOT FOUND. INSTEAD THE PREPUTIAL GLAND

Note: WAS SUBMITTED FOR HISTOLOGIC EVALUATION.

Spleen

Note: DEPLET LYMPH TGLs = 7-3

Testes

Interstit Cell

Seminif Tub

Interstit Cell

Note: ADENOMA TGLs = 5,6-6

Note: ATROPHY TGLs = 5-6

Hyperplasia

Adenoma

Inflammation

Atrophy

Depletion Lymphoid

Adenoma

Atrophy

Hyperplasia

Mild

Chronic, Moderate

Marked

Mild

Marked

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 213

TRT#: 4

SEX: Male

DAY ON TEST: 315

DOSE: 4.0% HM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Bone

Bone Marrow

Brain

Intestine Large - Colon

Liver

Lymph Node - Mandibular

Nose

Salivary Glands

Seminal Vesicle

Skin

Testes

Trachea

MISSING

Esophagus

Intestine Large - Cecum

Islets, Pancreatic

Lymph Node - Mesenteric

Mammary Gland

Pancreas

Parathyroid Gland

Thymus

Tongue

AUTO PRECLUDES DIAG.

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Pituitary Gland

OBSERVATIONS

Heart

Cardiomyopathy

Mild

Inflammation

Chronic, Minimal

Kidney

Interstit Tiss

Inflammation

Acute, Moderate

Lung

Edema

Mild

Infiltration Cellular

Histiocyte, Minimal

Mineralization

Minimal

Artery

Note: EDEMA

TGLs = 1-1+2

Lymph Node

Mediastinal

Depletion Lymphoid

Moderate

Preputial Gland

Inflammation

Chronic, Mild

Prostate

Inflammation

Chronic Active, Marked

Spleen

Depletion Lymphoid

Moderate

Stomach

Glandular, Mucosa

Mineralization

Minimal

Urinary Bladder

Mucosa, Muscularis, Wall

Inflammation

Necrotizing, Acute, Diffuse, Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 214

TRT#: 4

SEX: Male

DAY ON TEST: 700

DOSE: 4.0% HM

DISP: Moribund

HISTO:

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	Lymph Node - Mandibular	Nose	Spleen
Stomach - Forestomach	Tongue	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Cortex	Vacuolization Cytoplasmic	Mild
Note: VACUOLIZ CYTO TGLs = 5-7			
Heart		Cardiomyopathy	Mild
Intestine Small	Epithelium, Jejunum	Pigmentation	Mild
Kidney		Cyst	Mild
	Renal Tubule	Hyperplasia	Moderate
	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 6-4+4.1			
Note: CYST TGLs = 7-4+4.1			
Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Inflammation	Chronic, Minimal
		Mixed Cell Focus	Marked
Note: [MIXED CL FOCUS] TGLs = 11-3			
Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Lymph Node	Mesenteric	Ectasia	Marked
	Mesenteric	Hemorrhage	Mild
	Renal	Hemorrhage	Marked
	Mesenteric	Infiltration Cellular	Histiocyte, Mild
Note: HEMORRHAGE TGLs = 8-3			
Note: ECTASIA TGLs = 4-9			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 214

TRT#: 4

SEX: Male

DAY ON TEST: 700

DOSE: 4.0% HM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Pancreas		Atrophy	Minimal
		Inflammation	Chronic, Minimal
Parathyroid Gland		Hyperplasia	Marked
Note: HYPERPLASIA	TGLs = 12-7		
Pituitary Gland	Pars Distalis	Adenoma	
Prostate		Inflammation	Chronic Active, Moderate
Seminal Vesicle		Atrophy	Moderate
Stomach	Glandular, Mucosa	Mineralization	Mild
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal
Note: ADENOMA	TGLs = 2,3-6		
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 215

TRT#: 4

SEX: Male

DAY ON TEST: 727

DOSE: 4.0% HM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Cecum
Parathyroid Gland
Trachea

Brain
Intestine Large - Colon
Spleen
Urinary Bladder

Epididymis
Intestine Small - Duodenum
Stomach - Forestomach

Esophagus
Islets, Pancreatic
Thyroid Gland

MISSING

Tongue

OBSERVATIONS

Adrenal Gland
Heart
Intestine Large
Intestine Small

Kidney
Liver

Cortex

Rectum
Epithelium, Ileum
Epithelium, Jejunum

Vacuolization Cytoplasmic
Cardiomyopathy
Parasite Metazoan
Pigmentation
Pigmentation
Nephropathy
Basophilic Focus
Clear Cell Focus
Cyst
Eosinophilic Focus
Hyperplasia
Inflammation

Minimal
Mild
Minimal
Moderate
Mild
Marked
Minimal
Minimal
Mild
Mild
Minimal
Chronic, Minimal

Note: CYST TGLs = 3-3

Lung
Lymph Node
Nose
Pancreas
Pituitary Gland

Mandibular
Glands

Pars Distalis

Infiltration Cellular
Ectasia
Inflammation
Cyst
Hyperplasia

Histiocyte, Minimal
Mild
Acute, Minimal
Minimal
Minimal

Note: ADENOMA TGLs = 2-7

Prostate
Seminal Vesicle
Stomach
Testes

Epithelium, Glandular
Interstit Cell

Inflammation
Atrophy
Pigmentation
Adenoma

Chronic Active, Mild
Moderate
Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 215

TRT#: 4

SEX: Male

DAY ON TEST: 727

DOSE: 4.0% HM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Seminif Tub

Atrophy

Marked

Interstit Cell

Hyperplasia

Minimal

Note: ADENOMA TGLs = 1-6

Note: ADENOMA TGLs = 1-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 216

TRT#: 4

SEX: Male

DAY ON TEST: 729

DOSE: 4.0% HM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Jejunum	Nose	Skin	Spleen
Tongue	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
	Cortex	Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Mild
Intestine Small	Epithelium, Ileum	Pigmentation	Minimal
Kidney		Cyst	Mild
	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Marked
Note: CYST TGLs = 5-4			
Note: NEPHROPATHY TGLs = 4,6-4			
Liver		Basophilic Focus	Minimal
		Leukemia Mononuclear	
		Necrosis	Coagulative, Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Lymph Node	Mandibular	Ectasia	Mild
	Mesenteric	Ectasia	Marked
	Renal	Hemorrhage	Moderate
	Renal	Infiltration Cellular	Histiocyte, Mild
	Renal	Pigmentation	Mild
Note: HEMORRHAGE TGLs = 3-7			
Note: ECTASIA TGLs = 2-9			
Pancreas		Atrophy	Minimal
		Inflammation	Chronic, Minimal
Parathyroid Gland		Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 216

TRT#: 4

SEX: Male

DAY ON TEST: 729

DOSE: 4.0% HM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Pituitary Gland	Pars Distalis	Cyst	Minimal
Prostate		Inflammation	Chronic Active, Mild
Seminal Vesicle		Atrophy	Moderate
Stomach	Forestomach	Acanthosis	Minimal
	Forestomach	Hyperkeratosis	Minimal
	Forestomach	Hyperplasia	Basal Cell, Minimal
	Epithelium, Glandular	Pigmentation	Minimal
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal
Note: ADENOMA	TGLs = 1-6		
Thyroid Gland	Follicular Cel	Cyst	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 219

TRT#: 4

SEX: Male

DAY ON TEST: 727

DOSE: 4.0% HM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Lymph Node - Mandibular
Parathyroid Gland	Prostate	Skin	Stomach - Forestomach
Tongue	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Minimal
	Cortex	Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Mild
	Intestine Small	Epithelium, Ileum	Pigmentation
		Epithelium, Jejunum	Pigmentation
Kidney	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Marked
Liver	Bile Duct	Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Hyperplasia	Minimal
Lung	Artery	Leukemia Mononuclear	
		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Histiocyte, Minimal
		Mineralization	Minimal
Nose	Glands	Inflammation	Acute, Minimal
Pancreas		Atrophy	Minimal
Pituitary Gland	Pars Distalis	Inflammation	Chronic, Minimal
		Cyst	Minimal
		Cyst	Minimal
Seminal Vesicle	Pars Intermed	Atrophy	Moderate
Spleen		Leukemia Mononuclear	
Stomach	Epithelium, Glandular	Pigmentation	Mild

Note: NEPHROPATHY TGLs = 4,5-4

[Alveolar/Bronchiolar Adenoma TGLS = 3-1]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 219

TRT#: 4

SEX: Male

DAY ON TEST: 727

DOSE: 4.0% HM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Testes	Interstitial Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
Note: ADENOMA TGLs = 2-6			
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 220

TRT#: 4

SEX: Male

DAY ON TEST: 673

DOSE: 4.0% HM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Islets, Pancreatic
Lymph Node - Mandibular	Nose	Pancreas	Spleen
Trachea	Urinary Bladder		

MISSING

Prostate

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Minimal
	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
	Cortex	Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Mild
		Mineralization	Mild
	Note: MINERALIZATION TGLs = 6-2		
Intestine Large	Colon, Epithelium	Pigmentation	Mild
	Note: PIGMENTATION OF A SEGMENT OF THE LARGE BOWEL IS THE EXCEPTION RATHER THAN THE RULE.		
Intestine Small	Epithelium, Jejunum	Pigmentation	Minimal
Kidney		Cyst	Minimal
	Renal Tubule	Hyperplasia	Minimal
	Transit Epithe	Hyperplasia	Mild
	Prox Con Tub	Mineralization	Mild
		Nephropathy	Marked
Liver	Note: NEPHROPATHY TGLs = 8,9-4		
		Basophilic Focus	Minimal
Lung		Inflammation	Chronic, Minimal
	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 220

TRT#: 4

SEX: Male

DAY ON TEST: 673

DOSE: 4.0% HM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Lymph Node	Renal	Hemorrhage	Moderate
	Renal	Infiltration Cellular	Histiocyte, Mild
	Renal	Pigmentation	Mild
Note: HEMORRHAGE TGLs = 10-7			
Parathyroid Gland		Hyperplasia	Marked
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland		Inflammation	Chronic, Minimal
Seminal Vesicle		Atrophy	Moderate
Skin	Subcut Tiss	Abscess	Marked
	Subcut Tiss	Fibroma	
Note: FIBROMA TGLs = 2-10			
Note: ABSCESS TGLs = 3-9			
Stomach	Glandular, Mucosa	Mineralization	Moderate
Note: MINERALIZATION TGLs = 7-7			
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal
Note: ATROPHY TGLs = 4-6			
Note: ADENOMA TGLs = 5-6			
Thyroid Gland	Follicular Cel	Cyst	Minimal
	Follicle	Pigmentation	Minimal
Note: A FEW PIGMENT LADEN MACROPHAGES WERE PRESENT IN SEVERAL FOLLICLES.			
Tongue	Artery, Endothelium	Hyperplasia	Minimal
	Artery	Mineralization	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 221

TRT#: 4

SEX: Male

DAY ON TEST: 729

DOSE: 4.0% HM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Intestine Large - Cecum
Islets, Pancreatic
Stomach - Forestomach
Urinary Bladder

Brain
Intestine Large - Colon
Lymph Node - Mandibular
Thyroid Gland

Epididymis
Intestine Large - Rectum
Parathyroid Gland
Tongue

Esophagus
Intestine Small - Duodenum
Spleen
Trachea

OBSERVATIONS

Adrenal Gland

Heart
Intestine Small

Kidney

Note: NEPHROPATHY TGLs = 4-4

Medulla
Medulla

Epithelium, Ileum
Epithelium, Jejunum
Transit Epithe

Hyperplasia
Pheochromocytoma Benign
Cardiomyopathy
Pigmentation
Pigmentation
Hyperplasia
Nephropathy

Mild

Minimal
Mild
Mild
Mild
Moderate

Liver

Lung

Mammary Gland
Note: FIBROADENOMA TGLs = 2-10
Nose
Note: PAPILLOMA SQUA TGLs = 1-11
Pancreas

Artery

Basophilic Focus
Clear Cell Focus
Infiltration Cellular
Mineralization
Fibroadenoma

Squamous Cell Papilloma

Minimal
Minimal
Histiocyte, Minimal
Minimal

Pituitary Gland
Prostate
Seminal Vesicle
Stomach
Testes

Pars Distalis

Epithelium, Glandular
Interstit Cell
Seminif Tub

Atrophy
Inflammation
Hyperplasia
Inflammation
Atrophy
Pigmentation
Adenoma
Atrophy

Minimal
Chronic, Minimal
Mild
Chronic Active, Moderate
Mild
Mild
Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:15
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 221

TRT#: 4
DOSE: 4.0% HM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 3-6

Interstit Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 222

TRT#: 4

SEX: Male

DAY ON TEST: 727

DOSE: 4.0% HM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Brain

Epididymis

Esophagus

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Islets, Pancreatic

Nose

Prostate

Spleen

Tongue

Trachea

Urinary Bladder

INSUFFICIENT TISSUE

Parathyroid Gland

OBSERVATIONS

Heart

Cardiomyopathy

Moderate

Intestine Small

Epithelium, Ileum

Pigmentation

Mild

Epithelium, Jejunum

Pigmentation

Mild

Kidney

Nephropathy

Moderate

Liver

Angiectasis

Minimal

Basophilic Focus

Minimal

Eosinophilic Focus

Minimal

Hepatocellular Carcinoma

Bile Duct

Hyperplasia

Minimal

Inflammation

Chronic, Minimal

Note: HEPATOCLR CARC TGLs = 2-3

Lung

Infiltration Cellular

Histiocyte, Minimal

Artery

Mineralization

Minimal

Lymph Node

Mandibular

Hemorrhage

Mild

Pancreas

Atrophy

Mild

Inflammation

Chronic, Mild

Pituitary Gland

Pars Distalis

Adenoma

Note: NUMEROUS HEMOSIDERIN LADED MACROPHAGES WERE NOTED.

Seminal Vesicle

Atrophy

Moderate

Stomach

Epithelium, Glandular

Pigmentation

Minimal

Note: PIGMENT TGLs = 3-7

Testes

Interstit Cell

Adenoma

Seminif Tub

Atrophy

Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 222	TRT#: 4 DOSE: 4.0% HM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 727 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: ADENOMA Thyroid Gland	TGLs = 1-6 Interstit Cell C Cell	Hyperplasia Hyperplasia	Minimal Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 223

TRT#: 4

SEX: Male

DAY ON TEST: 686

DOSE: 4.0% HM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Islets, Pancreatic	Nose	Spleen	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Tongue	Trachea

MISSING

Intestine Large - Cecum	Prostate	Seminal Vesicle
-------------------------	----------	-----------------

AUTO PRECLUDES DIAG.

Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Pancreas	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Congestion	Moderate
	Medulla	Congestion	Moderate
	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Moderate
	Cortex	Vacuolization Cytoplasmic	Mild
Note: CONGESTION TGLs = 13-7			
Heart		Cardiomyopathy	Moderate
Note: CARDIOMYOPATHY TGLs = 6-2			
Kidney		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 14-4			
Liver		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
	Centrilobular	Necrosis	Coagulative, Moderate
Note: NECROSIS TGLs = 16-3			
Lung		Infiltration Cellular	Histiocyte, Mild
		Metaplasia	Osseous, Minimal
	Artery	Mineralization	Minimal
Lymph Node	Mandibular	Hemorrhage	Mild
	Mesenteric	Hemorrhage	Mild
	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mesenteric	Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 223

TRT#: 4

SEX: Male

DAY ON TEST: 686

DOSE: 4.0% HM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HEMORRHAGE TGLs = 3-8

Note: HEMORRHAGE TGLs = 15-10

Parathyroid Gland

Pituitary Gland

Pars Distalis

Hyperplasia

Autolysis

Cyst

Inflammation

Moderate

Mild

Mild

Chronic, Marked

Preputial Gland

Note: INFLAMMATION TGLs = 4-10

Testes

Interstit Cell

Seminif Tub

Interstit Cell

Adenoma

Atrophy

Hyperplasia

Marked

Minimal

Note: ATROPHY TGLs = 10-6

Note: ADENOMA TGLs = 9,10-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 225

TRT#: 4

SEX: Male

DAY ON TEST: 727

DOSE: 4.0% HM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Cecum
Intestine Small - Ileum
Parathyroid Gland
Stomach - Glandular

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Prostate
Trachea

Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Spleen
Urinary Bladder

Esophagus
Intestine Small - Duodenum
Nose
Stomach - Forestomach

MISSING

Tongue

OBSERVATIONS

Adrenal Gland
Heart
Kidney

Cortex
Transit Epithe

Angiectasis
Cardiomyopathy
Hyperplasia
Nephropathy

Mild
Mild
Mild
Moderate

[Nephropathy TGLS = 4,5-4]

Liver

Bile Duct

Basophilic Focus
Hyperplasia
Inflammation
Infiltration Cellular

Minimal
Minimal
Chronic, Minimal
Histiocyte, Minimal

Lung

Artery

Mineralization

Minimal

Lymph Node
Pancreas

Mandibular

Hyperplasia
Cytoplasmic Alteration
Inflammation

Plasma Cell, Moderate
Minimal
Chronic, Minimal

Pituitary Gland
Seminal Vesicle
Testes

Pars Distalis
Interstit Cell
Seminif Tub
Interstit Cell

Hyperplasia
Atrophy
Adenoma
Atrophy
Hyperplasia

Mild
Moderate
Marked
Minimal

Note: ADENOMA TGLs = 2,3-6

Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 226

TRT#: 4

DOSE: 4.0% HM

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 729

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Nose
Tongue

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Parathyroid Gland
Trachea

Bone
Intestine Large - Cecum
Intestine Small - Jejunum
Prostate

Brain
Intestine Large - Colon
Islets, Pancreatic
Stomach - Forestomach

OBSERVATIONS

Heart

Note: THROMBUS TGLs = 3-2

Cardiomyopathy
Thrombosis

Mild
Marked

Intestine Small
Kidney

Epithelium, Ileum
Renal Tubule

Pigmentation
Adenoma
Congestion
Cyst
Hyperplasia
Nephropathy

Mild
Minimal
Mild
Mild
Marked

Note: CONGESTION TGLs = 7-4
Note: NEPHROPATHY TGLs = 6-4

Liver

Bile Duct

Hyperplasia
Leukemia Mononuclear
Leukemia Mononuclear
Mineralization

Minimal

Lung

Note: LEUKEMIA MONUC TGLs = 2-1+2

Artery

Ectasia

Marked

Lymph Node
Note: ECTASIA TGLs = 1-8

Mandibular

Pancreas

Atrophy
Leukemia Mononuclear

Mild

Pituitary Gland
Seminal Vesicle

Pars Distalis

Hyperplasia
Atrophy
Leukemia Mononuclear

Minimal
Moderate

Spleen
Stomach

Epithelium, Glandular

Pigmentation

Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 226

TRT#: 4

SEX: Male

DAY ON TEST: 729

DOSE: 4.0% HM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: PIGMENT	TGLs = 10-7			
Testes		Interstit Cell	Adenoma	
		Seminif Tub	Atrophy	Marked
		Interstit Cell	Hyperplasia	Minimal
Note: ADENOMA	TGLs = 4,5-6			
Thyroid Gland		C Cell	Hyperplasia	Minimal
		Follicle	Pigmentation	Minimal
Note: WITHIN TWO FOLLICLES.				
Note: SOME PIGMENT LADEN MACROPHAGES (GOLD-YELLOW) WERE NOTED				
Urinary Bladder		Serosa	Mineralization	Minimal
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 228

TRT#: 4

SEX: Male

DAY ON TEST: 728

DOSE: 4.0% HM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Islets, Pancreatic
Lymph Node - Mandibular	Nose	Pancreas	Parathyroid Gland
Prostate	Salivary Glands	Stomach - Forestomach	Thyroid Gland
Tongue	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
	Cortex	Vacuolization Cytoplasmic	Minimal
Heart	Artery	Cardiomyopathy	Mild
		Mineralization	Minimal
Intestine Small	Epithelium, Ileum	Pigmentation	Mild
	Epithelium, Jejunum	Pigmentation	Mild
Kidney		Cyst	Mild
		Nephropathy	Moderate
Liver		Basophilic Focus	Minimal
		Fatty Change	Minimal
		Hemorrhage	Mild
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
		Necrosis	Coagulative, Mild
Note: NECROSIS TGLs = 3-3			
Lung	Artery	Mineralization	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Seminal Vesicle		Atrophy	Moderate
Skin		Acanthosis	Moderate
		Hyperkeratosis	Marked
		Hyperplasia	Basal Cell, Mild

Note: HYPERPLASIA TGLs = 1-10

Note: HYPERKERATOSIS TGLs = 1-10

Note: ACANTHOSIS TGLs = 1-10

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 228

TRT#: 4

SEX: Male

DAY ON TEST: 728

DOSE: 4.0% HM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen			Leukemia Mononuclear	
Stomach		Epithelium, Glandular	Pigmentation	Mild
Note: PIGMENT	TGLs = 4-7			
Testes		Interstit Cell	Adenoma	
		Seminif Tub	Atrophy	Marked
Note: ADENOMA	TGLs = 2-6			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 229

TRT#: 4

SEX: Male

DAY ON TEST: 728

DOSE: 4.0% HM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Epididymis	Esophagus	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Lymph Node - Mandibular	Parathyroid Gland
Pituitary Gland	Prostate	Stomach - Forestomach	Thyroid Gland
Tongue	Trachea	Urinary Bladder	

MISSING

Islets, Pancreatic

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
Intestine Large	Cecum	Parasite Metazoan	Minimal
Intestine Small	Epithelium, Ileum	Pigmentation	Mild
	Epithelium, Jejunum	Pigmentation	Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
Liver		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5,6-3			
Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	Artery	Mineralization	Minimal
Lymph Node	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-9			
Nose	Lumen	Inflammation	Acute, Minimal
		Metaplasia	Squamous, Mild
Pancreas		Leukemia Mononuclear	
Seminal Vesicle		Atrophy	Moderate
Spleen		Depletion Lymphoid	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:15
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 229

TRT#: 4
DOSE: 4.0% HM

SEX: Male
DISP: Dead

DAY ON TEST: 728
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC	TGLs = 4-3		Leukemia Mononuclear	
Stomach		Epithelium, Glandular	Pigmentation	Mild
Note: PIGMENT	TGLs = 8-7			
Testes		Interstit Cell	Adenoma	
		Seminif Tub	Atrophy	Marked
		Interstit Cell	Hyperplasia	Minimal
Note: ATROPHY	TGLs = 2-6			
Note: ADENOMA	TGLs = 1-6			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 230

TRT#: 4

SEX: Male

DAY ON TEST: 728

DOSE: 4.0% HM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Pancreas	Parathyroid Gland
Spleen	Stomach - Forestomach	Tongue	Trachea
Urinary Bladder			

MISSING

Salivary Glands

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Pheochromocytoma Benign	Multiple
	Cortex	Vacuolization Cytoplasmic	Minimal
Brain		Hemorrhage	Minimal
Heart		Cardiomyopathy	Moderate
Intestine Small	Epithelium, Ileum	Pigmentation	Minimal
Kidney		Congestion	Minimal
		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 10-4		
Note: CONGESTION	TGLs = 9-4		
Liver		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Lymph Node	Mandibular	Ectasia	Mild
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 3-10		
Mesentery		Inflammation	Chronic, Moderate
		Necrosis	Coagulative, Moderate
Note: NECROSIS	TGLs = 6-11		
Note: INFLAMMATION	TGLs = 6-11		
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 230	TRT#: 4 DOSE: 4.0% HM	SEX: Male DISP: Moribund	DAY ON TEST: 728 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: ADENOMA Prostate Seminal Vesicle Note: ATROPHY Stomach Note: PIGMENT Testes Note: ATROPHY Note: ADENOMA Thyroid Gland	TGLs = 12-7 TGLs = 7-6 TGLs = 13-7 TGLs = 4-6 TGLs = 5-6	Pars Intermed Epithelium, Glandular Interstit Cell Seminif Tub Interstit Cell C Cell	Cyst Inflammation Atrophy Pigmentation Adenoma Atrophy Hyperplasia Hyperplasia Minimal Chronic Active, Moderate Moderate Mild Moderate Minimal Minimal
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 232

TRT#: 4

SEX: Male

DAY ON TEST: 704

DOSE: 4.0% HM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Esophagus	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Nose	Salivary Glands	Stomach - Forestomach	Tongue
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Mild
	Cortex	Vacuolization Cytoplasmic	Mild
Epididymis		Mesothelioma Malignant	
Eye	Retina	Degeneration	Marked
		Synechia	Marked
Note: SYNECHIA	TGLs = 1-10		
Heart		Cardiomyopathy	Mild
Intestine Large	Cecum	Parasite Metazoan	Minimal
	Rectum	Parasite Metazoan	Minimal
Intestine Small	Epithelium, Ileum	Pigmentation	Mild
Kidney	Renal Tubule	Hyperplasia	Minimal
	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 9-4		
Liver		Basophilic Focus	Minimal
		Degeneration	Cystic, Mild
		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 10-3		
Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
		Metaplasia	Osseous, Minimal
	Artery	Mineralization	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 232

TRT#: 4

SEX: Male

DAY ON TEST: 704

DOSE: 4.0% HM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Metaplasia TGLS = 3-1+2]

Lymph Node	Mesenteric Mediastinal	Ectasia Leukemia Mononuclear	Marked
Note: LEUKEMIA MONUC	TGLs = 2-12		
Note: ECTASIA	TGLs = 7-3		
Pancreas		Atrophy Leukemia Mononuclear	Moderate
Note: ATROPHY	TGLs = 6-8		
Note: LEUKEMIA MONUC	TGLs = 6-8		
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Prostate		Inflammation	Chronic Active, Minimal
Seminal Vesicle		Atrophy	Moderate
Spleen		Depletion Lymphoid Leukemia Mononuclear	Minimal
Note: LEUKEMIA MONUC	TGLs = 8-3		
Stomach	Epithelium, Glandular	Pigmentation	Mild
Testes	Interstit Cell Seminif Tub Interstit Cell	Adenoma Atrophy Hyperplasia Mesothelioma Malignant	Marked Minimal
Note: ADENOMA	TGLs = 4,5-6		
Thyroid Gland	C Cell Follicle	Hyperplasia Pigmentation	Minimal Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 234

TRT#: 4

SEX: Male

DAY ON TEST: 626

DOSE: 4.0% HM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Nose	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Tongue	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
	Cortex	Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Minimal
Intestine Small	Epithelium, Ileum	Pigmentation	Minimal
Note: THAN THE EPITHELIUM OF THE ILEUM.			
Note: MORE YELLOW-GREEN-TAN PIGMENT WAS OBSERVED IN THE LUMEN			
Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Lymph Node	Mesenteric	Ectasia	Marked
	Mesenteric	Infiltration Cellular	Histiocyte, Mild
	Mesenteric	Pigmentation	Minimal
Note: ECTASIA TGLs = 7-8			
Mammary Gland		Hyperplasia	Mild
		Pigmentation	Minimal
Note: GOLD-YELLOW PIGMENT NOTED WITHIN ACINAR EPITHELIUM.			
Pancreas		Cytoplasmic Alteration	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Preputial Gland		Carcinoma	
		Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 234

TRT#: 4

SEX: Male

DAY ON TEST: 626

DOSE: 4.0% HM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CARCINOMA	TGLs = 2-10		
Prostate		Inflammation	Chronic Active, Mild
Seminal Vesicle		Atrophy	Mild
Spleen		Hematopoietic Cell Proliferation	Mild
Note: HEMA CELL PROL	TGLs = 5-3		
Testes		Adenoma	
		Seminif Tub	Marked
		Interstit Cell	Minimal
Note: ADENOMA	TGLs = 3-6		
Thyroid Gland		Follicular Cel	
Note: ADENOMA	TGLs = 4-8		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 235

TRT#: 4

SEX: Male

DAY ON TEST: 326

DOSE: 4.0% HM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Lymph Node - Mesenteric	Nose	Prostate
Salivary Glands	Seminal Vesicle	Skin	Stomach - Forestomach
Stomach - Glandular	Testes	Thyroid Gland	Trachea

MISSING

Mammary Gland	Parathyroid Gland	Thymus	Tongue
Urinary Bladder			

AUTO PRECLUDES DIAG.

Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Pancreas
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OBSERVATIONS

Adrenal Gland	Cortex	Congestion	Mild
	Medulla	Congestion	Mild
	Cortex	Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Minimal
Note: [NEPHROPATHY] TGLs = 2-4			
Liver		Inflammation	Chronic, Minimal
Lung		Congestion	Marked
		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
[Congestion TGLS = 1-1+2]			
Lymph Node	Mandibular	Congestion	Mild
	Mandibular	Depletion Lymphoid	Mild
	Mandibular	Hemorrhage	Minimal
Pituitary Gland		Autolysis	Mild
Preputial Gland		Inflammation	Chronic, Minimal
Spleen		Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 235

TRT#: 4

DOSE: 4.0% HM

SEX: Male

DISP: Dead

DAY ON TEST: 326

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CONSIDERABLE AUTOLYSIS; C.O.D. NOT APPARENT.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 236

TRT#: 4

SEX: Male

DAY ON TEST: 728

DOSE: 4.0% HM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Intestine Large - Cecum
Nose
Tongue

Brain
Intestine Small - Duodenum
Parathyroid Gland
Trachea

Epididymis
Intestine Small - Ileum
Stomach - Forestomach
Urinary Bladder

Esophagus
Intestine Small - Jejunum
Thyroid Gland

OBSERVATIONS

Adrenal Gland
Heart
Intestine Large

Islets, Pancreatic
Kidney

Medulla

Colon
Rectum

Transit Epithe

Hyperplasia
Cardiomyopathy
Parasite Metazoan
Parasite Metazoan
Adenoma
Hyperplasia
Nephropathy

Mild
Mild
Minimal
Minimal

Minimal
Moderate

Note: NEPHROPATHY TGLs = 6-4

Liver

Bile Duct

Hyperplasia
Leukemia Mononuclear

Minimal

Note: LEUKEMIA MONUC TGLs = 7-3

Lung

Artery

Infiltration Cellular
Leukemia Mononuclear
Mineralization

Histiocyte, Minimal

[Leukemia Mononuclear TGLS = 4,5-1+2]

Lymph Node
Pancreas

Mandibular

Ectasia
Atrophy
Leukemia Mononuclear

Mild
Mild

Pituitary Gland

Pars Distalis
Pars Intermed

Adenoma
Cyst

Minimal

Note: ADENOMA TGLs = 8-7

Prostate
Seminal Vesicle
Spleen

Inflammation
Atrophy
Depletion Lymphoid
Leukemia Mononuclear

Chronic Active, Moderate
Moderate
Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:15
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 236

TRT#: 4
DOSE: 4.0% HM

SEX: Male
DISP: Dead

DAY ON TEST: 728
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 3-3

Stomach	Epithelium, Glandular	Pigmentation	Mild
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Minimal

Note: ADENOMA TGLs = 1-6

Note: ATROPHY TGLs = 2-6

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 237

TRT#: 4

SEX: Male

DAY ON TEST: 729

DOSE: 4.0% HM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Islets, Pancreatic
Nose	Parathyroid Gland	Prostate	Spleen
Stomach - Forestomach	Thyroid Gland	Tongue	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Moderate
Note: CARDIOMYOPATHY TGLs = 4-2			
Intestine Small	Epithelium, Ileum	Pigmentation	Minimal
	Epithelium, Jejunum	Pigmentation	Mild
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Minimal
		Hemorrhage	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Lymph Node	Mandibular	Ectasia	Mild
	Mandibular	Hemorrhage	Moderate
Note: HEMORRHAGE TGLs = 1-8			
Pancreas		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Seminal Vesicle		Atrophy	Moderate
Stomach	Epithelium, Glandular	Pigmentation	Mild
Testes	Interstitial Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Interstitial Cell	Hyperplasia	Minimal
Note: ADENOMA TGLs = 2,3-6			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 238

TRT#: 4

SEX: Male

DAY ON TEST: 724

DOSE: 4.0% HM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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	Spleen	Stomach - Forestomach	Thyroid Gland
Tongue	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Mild
Kidney	Renal Tubule	Adenocarcinoma	
		Nephropathy	Moderate
Note: FOCI OF NECROSIS AND MINERALIZATION WERE NOTED IN THE			
Note: ADENOCARC TGLs = 6-4			
Note: ADENOCARCINOMA.			
Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Lymph Node	Mandibular	Hemorrhage	Moderate
Note: HEMORRHAGE TGLs = 2-8			
Pancreas		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Cyst	Minimal
Preputial Gland		Carcinoma	
Note: EXTENSIVE HEMORRHAGE AND NECROSIS WERE NOTED IN THE			
Note: CARCINOMA TGLs = 4-10			
Note: PREPUTIAL GLAND TUMOR.			
Prostate	Epithelium	Hyperplasia	Minimal
Seminal Vesicle		Atrophy	Moderate
Skin	Subcut Tiss	Fibroma	
Note: FIBROMA TGLs = 3-11			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 238

TRT#: 4

SEX: Male

DAY ON TEST: 724

DOSE: 4.0% HM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Epithelium, Glandular	Pigmentation	Minimal
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal

Note: ADENOMA TGLs = 5-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 239

TRT#: 4

SEX: Male

DAY ON TEST: 697

DOSE: 4.0% HM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Epididymis	Esophagus	Islets, Pancreatic	Lymph Node - Mandibular
Parathyroid Gland	Seminal Vesicle	Thyroid Gland	Tongue
Trachea	Urinary Bladder		

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Stomach - Forestomach	Stomach - Glandular

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Brain		Hemorrhage	Minimal
		Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
Liver		Leukemia Mononuclear	
		Necrosis	Coagulative, Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	Artery	Mineralization	Minimal
Nose	Glands	Inflammation	Acute, Mild
Pancreas		Leukemia Mononuclear	
Pituitary Gland		Autolysis	Mild
		Hemorrhage	Moderate
Note: HEMORRHAGE	TGLs = 3-7		
Prostate		Inflammation	Chronic Active, Mild
Spleen		Depletion Lymphoid	Marked
		Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 239

TRT#: 4

SEX: Male

DAY ON TEST: 697

DOSE: 4.0% HM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ATROPHY TGLs = 1-6

Note: ADENOMA TGLs = 2-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 240

TRT#: 4

SEX: Male

DAY ON TEST: 676

DOSE: 4.0% HM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Brain

Epididymis

Esophagus

Eye

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Islets, Pancreatic

Pancreas

Spleen

Trachea

Urinary Bladder

MISSING

Pituitary Gland

OBSERVATIONS

Adrenal Gland

Medulla

Pheochromocytoma Benign

Note: PHEOCHROM BGN TGLs = 10-7

Blood Vessel

Aorta

Mineralization

Marked

Note: MINERALIZATION TGLs = 5-11

Heart

Artery

Cardiomyopathy

Mild

Note: CARDIOMYOPATHY TGLs = 6-2

Mineralization

Marked

Intestine Small

Epithelium, Ileum

Pigmentation

Mild

Epithelium, Jejunum

Pigmentation

Minimal

Kidney

Renal Tubule

Adenoma

Transit Epithe

Hyperplasia

Mild

Prox Con Tub

Mineralization

Moderate

Note: MINERALIZATION TGLs = 11,12-4

Note: NEPHROPATHY TGLs = 11,12-4

Nephropathy

Marked

Liver

Hepatodiaphragmatic Nodule

Bile Duct

Hyperplasia

Minimal

Note: DEVELOP MALFOR TGLs = 13-3.1

Inflammation

Chronic, Minimal

Lung

Infiltration Cellular

Histiocyte, Minimal

Artery

Mineralization

Minimal

Lymph Node

Mandibular

Infiltration Cellular

Histiocyte, Minimal

Mesenteric

Infiltration Cellular

Histiocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 240

TRT#: 4

SEX: Male

DAY ON TEST: 676

DOSE: 4.0% HM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

	Mesenteric	Pigmentation	Minimal
Note: INFILTRAT CELL TGLs = 9-3.1			
Nose	Lumen	Inflammation	Acute, Mild
Note: SURROUNDED BY NEUTROPHILS. THESE WERE PRESUMABLY			
Note: FUNGAL HYPHAE WERE NOTED IN THE LUMEN OF THE NOSE			
Note: ASPERGILLUS SPECIES.			
Parathyroid Gland		Hyperplasia	Moderate
Prostate		Inflammation	Chronic Active, Moderate
Seminal Vesicle		Atrophy	Moderate
Stomach	Forestomach	Mineralization	Mild
	Glandular, Mucosa	Mineralization	Marked
	Epithelium, Glandular	Pigmentation	Mild
Note: MINERALIZATION TGLs = 8-7			
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal
Note: ADENOMA TGLs = 7-6			
Thyroid Gland	C Cell	Adenoma	
Tongue	Artery	Mineralization	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 241

TRT#: 4

SEX: Male

DAY ON TEST: 667

DOSE: 4.0% HM

DISP: Moribund

HISTO:

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	Lymph Node - Mandibular
Nose	Pituitary Gland	Spleen	Trachea
Urinary Bladder			

MISSING

Adrenal Gland - Cortex	Adrenal Gland - Medulla
------------------------	-------------------------

OBSERVATIONS

Bone			
Note: CRANIUM.			
Note: FOCI OF FIBROSIS WERE NOTED IN MARROW SPACES IN THE			
Bone Marrow		Fibrosis	Mild
Heart		Cardiomyopathy	Moderate
	Artery	Mineralization	Mild
		Mineralization	Mild
Kidney	Transit Epithe	Hyperplasia	Mild
	Prox Con Tub	Mineralization	Mild
		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 11,12-4			
Note: MINERALIZATION TGLs = 11-4			
Liver		Angiectasis	Minimal
		Basophilic Focus	Minimal
		Hemorrhage	Minimal
	Bile Duct	Hyperplasia	Minimal
		Thrombosis	Marked
Note: THROMBUS TGLs = 14-3.1			
Lung		Infiltration Cellular	Histiocyte, Minimal
		Squamous Cell Carcinoma	
[Infiltration Cellular TGLS = 3,4-1.1+1.2]			
Lymph Node	Mediastinal	Hemorrhage	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 241

TRT#: 4

SEX: Male

DAY ON TEST: 667

DOSE: 4.0% HM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

	Mesenteric	Hemorrhage	Mild
	Pancreatic	Hemorrhage	Mild
Note: HEMORRHAGE	TGLs = 2-2		
Note: HEMORRHAGE	TGLs = 10-8		
Mesentery		Mineralization	Mild
Nose			
Note: BONE MARROW IN CRANIUM SHOWS MARKED MYELOFIBROSIS.			
Pancreas		Inflammation	Chronic, Minimal
	Artery	Mineralization	Moderate
Parathyroid Gland		Hyperplasia	Moderate
Prostate		Inflammation	Chronic Active, Mild
Seminal Vesicle		Atrophy	Moderate
Stomach	Forestomach	Edema	Marked
	Glandular	Edema	Moderate
	Forestomach	Mineralization	Moderate
	Glandular, Mucosa	Mineralization	Marked
Note: EDEMA	TGLs = 15-7		
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal
Note: ATROPHY	TGLs = 5-6		
Note: ADENOMA	TGLs = 5,6-6		
Thymus		Depletion Lymphoid	Moderate
Thyroid Gland	C Cell	Hyperplasia	Minimal
Tongue	Artery	Mineralization	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 244

TRT#: 4

DOSE: 4.0% HM

SEX: Male

DISP: Moribund

DAY ON TEST: 617

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Ear	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Islets, Pancreatic
Lymph Node - Mandibular	Nose	Pancreas	Pituitary Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Tongue	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Cortex	Vacuolization Cytoplasmic	Minimal
Eye		Atrophy	Marked
	Cornea	Fibrosis	Moderate
	Postr Chamber	Inflammation	Chronic, Marked
Note: ATROPHY TGLs = 1-10			
Harderian Gland		Inflammation	Chronic, Minimal
Heart		Cardiomyopathy	Moderate
Intestine Small	Epithelium, Ileum	Pigmentation	Minimal
	Epithelium, Jejunum	Pigmentation	Mild
Kidney	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 7-4			
Liver		Inflammation	Chronic, Minimal
Lung	Bronchiole, Epithelium	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
[Infiltration Cellular TGLS = 2-2]			
Lymph Node	Mesenteric	Ectasia	Marked
	Mesenteric	Infiltration Cellular	Histiocyte, Mild
	Mesenteric	Pigmentation	Minimal
Note: ECTASIA TGLs = 6-8			
Mammary Gland		Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 244

TRT#: 4

SEX: Male

DAY ON TEST: 617

DOSE: 4.0% HM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Parathyroid Gland			Hyperplasia	Moderate
Preputial Gland			Inflammation	Chronic, Mild
Prostate			Inflammation	Chronic Active, Minimal
Seminal Vesicle			Atrophy	Moderate
Note: ATROPHY	TGLs = 5-6			
Stomach		Epithelium, Glandular	Pigmentation	Minimal
Testes		Interstit Cell	Adenoma	
		Seminif Tub	Atrophy	Moderate
		Interstit Cell	Hyperplasia	Minimal
Note: ADENOMA	TGLs = 4-6			
Note: ATROPHY	TGLs = 3-6			
Thymus			Depletion Lymphoid	Moderate
Thyroid Gland		C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 246

TRT#: 4

DOSE: 4.0% HM

SEX: Male

DISP: Moribund

DAY ON TEST: 581

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	Prostate	Salivary Glands
Seminal Vesicle	Skin	Spleen	Thyroid Gland
Tongue	Trachea		

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
	Cortex	Vacuolization Cytoplasmic	Moderate
Heart		Cardiomyopathy	Mild
Kidney	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 7-4+4.1		
Liver		Inflammation	Chronic, Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Lymph Node	Renal	Ectasia	Marked
	Mesenteric	Infiltration Cellular	Histiocyte, Mild
	Mesenteric	Pigmentation	Minimal
Note: ECTASIA	TGLs = 8-4		
Mammary Gland		Hyperplasia	Mild
Pancreas		Inflammation	Chronic, Minimal
Parathyroid Gland		Hyperplasia	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Intermed	Cyst	Minimal
Note: ADENOMA	TGLs = 10-8		
Preputial Gland		Inflammation	Chronic, Mild
Stomach	Forestomach	Acanthosis	Mild
	Forestomach	Hyperkeratosis	Mild
	Forestomach	Hyperplasia	Pseudoepithel, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:15
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 246

TRT#: 4
DOSE: 4.0% HM

SEX: Male
DISP: Moribund

DAY ON TEST: 581
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Forestomach
Forestomach
Glandular
Seminif Tub
Interstit Cell

Hyperplasia
Inflammation
Inflammation
Atrophy
Hyperplasia

Basal Cell, Mild
Chronic Active, Mild
Chronic Active, Mild
Minimal
Minimal

Testes

Note: ATROPHY TGLs = 4-6

Thymus

Depletion Lymphoid

Moderate

Urinary Bladder

Calculus Micro Observation Only

Note: CALCUS MIC OBS TGLs = 11-9

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 249

TRT#: 4

SEX: Male

DAY ON TEST: 694

DOSE: 4.0% HM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Jejunum	Lymph Node - Mandibular	Nose	Pituitary Gland
Prostate	Stomach - Forestomach	Tongue	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Mild
Note: HYPERPLASIA	TGLs = 7-7		
Heart		Cardiomyopathy	Minimal
Intestine Small	Epithelium, Ileum	Pigmentation	Mild
Islets, Pancreatic		Adenoma	
Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 8,9-4		
Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mesenteric	Pigmentation	Minimal
Pancreas		Atrophy	Minimal
		Inflammation	Chronic, Minimal
Parathyroid Gland		Hyperplasia	Moderate
Seminal Vesicle		Atrophy	Moderate
Spleen		Leukemia Mononuclear	
Stomach	Epithelium, Glandular	Pigmentation	Mild
Note: PIGMENT	TGLs = 13-7		
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:15
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 249	TRT#: 4 DOSE: 4.0% HM	SEX: Male DISP: Moribund	DAY ON TEST: 694 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: ADENOMA Thyroid Gland	TGLs = 3,4-6 C Cell	Interstit Cell Hyperplasia	Minimal
		Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 252

TRT#: 4

SEX: Male

DAY ON TEST: 693

DOSE: 4.0% HM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Cecum
Pituitary Gland
Tongue

Brain
Intestine Large - Colon
Seminal Vesicle
Trachea

Epididymis
Intestine Small - Ileum
Stomach - Forestomach
Urinary Bladder

Esophagus
Islets, Pancreatic
Thyroid Gland

OBSERVATIONS

Adrenal Gland

Cortex
Cortex

Angiectasis
Hyperplasia

Minimal
Minimal

Heart

Cardiomyopathy

Mild

Intestine Large

Rectum

Parasite Metazoan

Minimal

Intestine Small

Duodenum, Epithelium
Epithelium, Jejunum

Pigmentation
Pigmentation

Minimal
Mild

Kidney

Transit Epithe

Hyperplasia
Nephropathy

Mild
Marked

Note: NEPHROPATHY TGLs = 8-4

Liver

Bile Duct

Eosinophilic Focus
Hyperplasia
Inflammation
Leukemia Mononuclear

Minimal
Minimal
Chronic, Minimal

Lung

Alveolar Epith
Artery

Hyperplasia
Mineralization

Minimal
Minimal

Lymph Node

Mandibular
Mediastinal
Mediastinal

Hemorrhage
Hemorrhage
Pigmentation

Minimal
Minimal
Minimal

Note: PIGMENT TGLs = 6-1

Note: HEMORRHAGE TGLs = 6-1

Nose

Glands

Inflammation

Acute, Minimal

Pancreas

Atrophy

Minimal

Inflammation

Chronic, Minimal

Parathyroid Gland

Hyperplasia

Mild

Preputial Gland

Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 252

TRT#: 4

SEX: Male

DAY ON TEST: 693

DOSE: 4.0% HM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CARCINOMA TGLs = 1,2-10

Prostate

Spleen

Inflammation

Hematopoietic Cell Proliferation

Leukemia Mononuclear

Chronic Active, Minimal

Mild

Note: HEMA CELL PROL TGLs = 7-3

Stomach

Testes

Epithelium, Glandular

Interstit Cell

Seminif Tub

Interstit Cell

Pigmentation

Adenoma

Atrophy

Hyperplasia

Mild

Marked

Minimal

Note: ATROPHY TGLs = 5-6

Note: ADENOMA TGLs = 4,5-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 254

TRT#: 4

SEX: Male

DAY ON TEST: 727

DOSE: 4.0% HM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Parathyroid Gland	Prostate
Spleen	Stomach - Forestomach	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Tongue

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Mild
Heart		Cardiomyopathy	Mild
Intestine Small	Ileum	Adenoma	
	Epithelium, Ileum	Pigmentation	Mild
Note: ADENOMA	TGLs = 6-9		
Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 5-4		
Liver		Inflammation	Chronic, Minimal
Lung	Artery	Mineralization	Minimal
Lymph Node	Mandibular	Hemorrhage	Marked
Note: HEMORRHAGE	TGLs = 1-8		
Pancreas		Atrophy	Minimal
		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Intermed	Cyst	Minimal
Seminal Vesicle		Atrophy	Moderate
Stomach	Epithelium, Glandular	Pigmentation	Mild
Note: PIGMENT	TGLs = 7-7.1		
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 254

TRT#: 4

SEX: Male

DAY ON TEST: 727

DOSE: 4.0% HM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 3-6

Note: ATROPHY TGLs = 4-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 255

TRT#: 4

SEX: Male

DAY ON TEST: 723

DOSE: 4.0% HM

DISP: Moribund

HISTO:

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	Nose
Parathyroid Gland	Seminal Vesicle	Spleen	Stomach - Forestomach
Thyroid Gland	Tongue	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Mild
Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Necrosis	Coagulative, Minimal
Note: FATTY CHANGE TGLs = 9-3.1			
Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Lymph Node	Mesenteric	Ectasia	Marked
Note: ECTASIA TGLs = 8-10			
Mammary Gland		Galactocele	Mild
		Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 2-12			
Note: HYPERPLASIA TGLs = 3-13			
Note: GALACTOCELE TGLs = 3-13			
Mesentery		Inflammation	Granulomatous, Chronic, Marked
Note: INFLAMMATION TGLs = 4,7-14			
Pancreas		Atrophy	Minimal
		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 10-7			
Prostate		Inflammation	Chronic Active, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:15
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 255

TRT#: 4
DOSE: 4.0% HM

SEX: Male
DISP: Moribund

DAY ON TEST: 723
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Skin	Subcut Tiss	Inflammation	Granulomatous, Moderate
	Subcut Tiss	Necrosis	Coagulative, Marked
Note: INFLAMMATION	TGLs = 1-11		
Note: NECROSIS	TGLs = 1-11		
Stomach	Epithelium, Glandular	Pigmentation	Mild
Note: PIGMENT	TGLs = 11-7		
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Minimal
		Necrosis	Coagulative, Marked
Note: NECROSIS	TGLs = 6-6		
Note: ADENOMA	TGLs = 5,6-6		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 256

TRT#: 4

SEX: Male

DAY ON TEST: 555

DOSE: 4.0% HM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Islets, Pancreatic	Liver
Nose	Pituitary Gland	Salivary Glands	Spleen
Stomach - Forestomach	Tongue	Trachea	Urinary Bladder

MISSING

Lymph Node - Mandibular	Parathyroid Gland
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OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Intestine Small	Duodenum, Epithelium	Pigmentation	Minimal
	Epithelium, Ileum	Pigmentation	Mild
	Epithelium, Jejunum	Pigmentation	Mild
Kidney		Nephropathy	Mild
		Infiltration Cellular	Histiocyte, Minimal
Lung	Artery	Mineralization	Minimal
		Ectasia	Mild
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Mild
	Mesenteric	Pigmentation	Minimal
	Mesenteric	Hyperplasia	Mild
Mammary Gland		Atrophy	Minimal
Pancreas		Inflammation	Chronic, Minimal
		Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic, Mild
		Inflammation	Chronic Active, Minimal
Prostate		Atrophy	Moderate
Seminal Vesicle			
Note: ATROPHY	TGLs = 3-6		
Skin	Subcut Tiss	Sarcoma	
	Note: SARCOMA		
	TGLs = 1-13		
Stomach	Epithelium, Glandular	Pigmentation	Mild
Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:15
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 256

TRT#: 4
DOSE: 4.0% HM

SEX: Male
DISP: Moribund

DAY ON TEST: 555
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Seminif Tub
Interstit Cell

Atrophy
Hyperplasia

Moderate
Minimal

Note: ATROPHY TGLs = 2-6

Thymus

Depletion Lymphoid

Moderate

Thyroid Gland

Follicle

Pigmentation

Minimal

Note: SOME GOLD-YELLOW PIGMENT WAS NOTED WITHIN MACROPHAGES IN

Note: THE COLLOID OF ONE FOLLICLE. A SIMILAR CHANGE WAS NOTED

Note: IN A CONTROL ANIMAL.

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 257

TRT#: 4

SEX: Male

DAY ON TEST: 674

DOSE: 4.0% HM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Brain

Epididymis

Esophagus

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Nose

Pituitary Gland

Prostate

Spleen

Stomach - Forestomach

Thyroid Gland

Trachea

Urinary Bladder

OBSERVATIONS

Heart

Cardiomyopathy

Mild

Kidney

Nephropathy

Moderate

Liver

Bile Duct

Hyperplasia

Minimal

Inflammation

Chronic, Mild

Necrosis

Coagulative, Mild

Lung

Artery

Mineralization

Minimal

Lymph Node

Mandibular

Ectasia

Mild

Pancreas

Inflammation

Chronic, Minimal

Parathyroid Gland

Hyperplasia

Mild

Seminal Vesicle

Atrophy

Moderate

Skin

Acanthosis

Mild

Hyperkeratosis

Marked

Note: ACANTHOSIS TGLs = 2-10

Note: HYPERKERATOSIS TGLs = 2-10

Stomach

Epithelium, Glandular

Pigmentation

Moderate

Testes

Interstit Cell

Adenoma

Seminif Tub

Atrophy

Marked

Interstit Cell

Hyperplasia

Minimal

Note: ADENOMA TGLs = 3,4-6

Tongue

Inflammation

Necrotizing, Acute, Mild

Squamous Cell Papilloma

Note: PAPILOMA SQUA TGLs = 6-11

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 260

TRT#: 4

SEX: Male

DAY ON TEST: 676

DOSE: 4.0% HM

DISP: Moribund

HISTO:

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	Nose
Seminal Vesicle	Spleen	Stomach - Glandular	Tongue
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Vacuolization Cytoplasmic	Minimal
Heart		Edema	Mild
Kidney	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 8,9-4			
Liver		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Lymph Node	Mesenteric	Ectasia	Marked
	Mandibular	Hemorrhage	Minimal
	Renal	Hyperplasia	Plasma Cell, Mild
	Renal	Pigmentation	Minimal
Note: ECTASIA TGLs = 7-9			
Note: HYPERPLASIA TGLs = 10-3			
Pancreas		Inflammation	Chronic, Minimal
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 12-7			
Prostate	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic Active, Marked
Skin		Squamous Cell Papilloma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:15
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 260	TRT#: 4 DOSE: 4.0% HM	SEX: Male DISP: Moribund	DAY ON TEST: 676 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: PAPILLOMA SQUA TGLs = 2-11 Stomach	Forestomach Forestomach Forestomach	Acanthosis Hyperkeratosis Inflammation	Mild Mild Chronic Active, Mild
Note: INFLAMMATION TGLs = 13-7 Note: ACANTHOSIS TGLs = 13-7 Note: HYPERKERATOSIS TGLs = 13-7 Testes	Interstit Cell	Hyperplasia	Minimal
Thyroid Gland Note: ADENOCARC TGLs = 3-7	Follicular Cel	Adenocarcinoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 261

TRT#: 4

SEX: Male

DAY ON TEST: 728

DOSE: 4.0% HM

DISP: Terminal Sacrifice

HISTO:

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	Islets, Pancreatic	Spleen	Stomach - Forestomach
Tongue	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
	Cortex	Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Mild
Intestine Small	Epithelium, Jejunum	Pigmentation	Minimal
Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 3-4		
Liver		Basophilic Focus	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Lymph Node	Mandibular	Infiltration Cellular	Histiocyte, Minimal
	Mandibular	Pigmentation	Minimal
Nose	Glands	Inflammation	Acute, Minimal
Pancreas		Inflammation	Chronic, Minimal
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Mild
Prostate		Inflammation	Chronic Active, Mild
Seminal Vesicle		Atrophy	Moderate
Stomach	Epithelium, Glandular	Pigmentation	Mild
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal
Note: ADENOMA	TGLs = 2-6		
Thyroid Gland	Follicular Cel	Cyst	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 261

TRT#: 4

SEX: Male

DAY ON TEST: 728

DOSE: 4.0% HM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 262

TRT#: 4

SEX: Male

DAY ON TEST: 422

DOSE: 4.0% HM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	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	Liver	Lymph Node - Mesenteric	Nose
Salivary Glands	Seminal Vesicle	Skin	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Tongue	Trachea
Urinary Bladder			

MISSING

Lymph Node - Mandibular	Thymus
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INSUFFICIENT TISSUE

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Moderate
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Mild
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Hemorrhage	Minimal
[Hemorrhage TGLS = 1-2]			
Mammary Gland		Hyperplasia	Minimal
Mesentery		Sarcoma	Poorly Diffr
Note: SARCOMA TGLs = 3-13			
Pancreas		Atrophy	Minimal
		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland		Inflammation	Chronic, Minimal
Prostate		Inflammation	Chronic Active, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
Testes	Interstit Cell	Hyperplasia	Minimal
Urethra		Calculus Micro Observation Only	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 262

TRT#: 4

SEX: Male

DAY ON TEST: 422

DOSE: 4.0% HM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 263

TRT#: 4

SEX: Male

DAY ON TEST: 662

DOSE: 4.0% HM

DISP: Moribund

HISTO:

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	Islets, Pancreatic	Lymph Node - Mandibular	Nose
Prostate	Stomach - Forestomach	Tongue	Trachea
Urinary Bladder			

MISSING

Intestine Small - Jejunum

INSUFFICIENT TISSUE

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
	Medulla	Pheochromocytoma Malignant	
	Cortex	Vacuolization Cytoplasmic	Minimal
Note: PHEOCHROM MAL TGLs = 8-7.1			
Heart		Cardiomyopathy	Mild
Kidney		Cyst	Minimal
	Transit Epithe	Hyperplasia	Mild
	Prox Con Tub	Mineralization	Mild
		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 10-4			
Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
		Necrosis	Coagulative, Minimal
Note: THIS APPEARS TO BE AN EARLY LEUKEMIA WITH NEOPLASTIC			
Note: CELLS LIMITED TO LIVER SINUSOIDS AND BLOOD VESSELS.			
Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
		Pheochromocytoma Malignant	Metastatic (Adrenal Gland)
Lymph Node	Renal	Hemorrhage	Mild
	Renal	Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 263

TRT#: 4

SEX: Male

DAY ON TEST: 662

DOSE: 4.0% HM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HEMORRHAGE	TGLs = 9-4			
Pancreas			Atrophy	Minimal
			Inflammation	Chronic, Minimal
Pituitary Gland		Pars Intermed	Cyst	Minimal
		Pars Nervosa	Cyst	Moderate
		Pars Distalis	Hyperplasia	Mild
Note: CYST	TGLs = 13-7			
Seminal Vesicle			Atrophy	Moderate
Note: ATROPHY	TGLs = 5-6			
Spleen			Depletion Lymphoid	Mild
			Fibrosis	Marked
Note: FIBROSIS	TGLs = 11-3			
Stomach		Glandular, Mucosa	Mineralization	Marked
Testes		Interstit Cell	Adenoma	
		Seminif Tub	Atrophy	Moderate
		Interstit Cell	Hyperplasia	Minimal
Note: ADENOMA	TGLs = 3,4-6			
Thyroid Gland		Follicular Cel	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 264

TRT#: 4

SEX: Male

DAY ON TEST: 574

DOSE: 4.0% HM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Islets, Pancreatic	Liver
Lymph Node - Mandibular	Nose	Parathyroid Gland	Salivary Glands
Seminal Vesicle	Spleen	Stomach - Forestomach	Thyroid Gland
Tongue	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Mild
Intestine Small	Epithelium, Ileum	Pigmentation	Mild
	Epithelium, Jejunum	Pigmentation	Minimal
Kidney		Nephropathy	Mild
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mesenteric	Ectasia	Marked
	Mediastinal	Hemorrhage	Minimal
	Mesenteric	Infiltration Cellular	Histiocyte, Mild
	Mesenteric	Pigmentation	Minimal
[Hemorrhage TGLS = 3-8]			
Pancreas		Atrophy	Mild
		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Prostate		Inflammation	Chronic Active, Mild
Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-13]			
Stomach	Epithelium, Glandular	Pigmentation	Mild
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Minimal
Note: ADENOMA TGLs = 2-6			
Thymus		Depletion Lymphoid	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 264

TRT#: 4

SEX: Male

DAY ON TEST: 574

DOSE: 4.0% HM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 265

TRT#: 4

SEX: Male

DAY ON TEST: 724

DOSE: 4.0% HM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Parathyroid Gland	Spleen
Stomach - Forestomach	Tongue	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
	Cortex	Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Moderate
Intestine Small	Epithelium, Ileum	Pigmentation	Mild
Kidney	Prox Con Tub	Necrosis	Moderate
		Nephropathy	Moderate
Note: FRESH KILL THIS WOULD APPEAR TO BE A REAL LESION.			
Note: EXTENSIVE NECROSIS OF PCT WAS NOTED. IN LIGHT OF THE			
Liver		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Mesentery		Inflammation	Granulomatous, Chronic, Marked
Note: INFLAMMATION TGLs = 1-10			
Pancreas		Atrophy	Minimal
		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Prostate		Inflammation	Chronic Active, Moderate
Seminal Vesicle		Atrophy	Mild
Stomach	Epithelium, Glandular	Pigmentation	Mild
Testes	Interstitial Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Interstitial Cell	Hyperplasia	Minimal
Note: ADENOMA TGLs = 2-6			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 265

TRT#: 4

SEX: Male

DAY ON TEST: 724

DOSE: 4.0% HM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 266

TRT#: 4

SEX: Male

DAY ON TEST: 698

DOSE: 4.0% HM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Stomach - Forestomach
Tongue	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland

INSUFFICIENT TISSUE

Stomach - Glandular

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
	Cortex	Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Minimal
Intestine Small	Epithelium, Ileum	Pigmentation	Minimal
	Epithelium, Jejunum	Pigmentation	Minimal
Islets, Pancreatic		Hyperplasia	Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
Note: [NEPHROPATHY] TGLs = 9-4			
Liver		Fatty Change	Mild
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 10-3			
Lung		Hemorrhage	Minimal
	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	Artery	Mineralization	Minimal
Note: WERE OBSERVED IN ADDITION TO ERYTHROPHAGOCYTOSIS.			
Note: IN THE FOCAL AREAS OF HEMORRHAGE RED HEMOGLOBIN CRYSTALS			
[Hemorrhage TGLs = 3-1+2]			
Lymph Node	Mandibular	Ectasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 266

TRT#: 4

SEX: Male

DAY ON TEST: 698

DOSE: 4.0% HM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Mesenteric
Pancreatic

Ectasia
Leukemia Mononuclear

Moderate

Note: ECTASIA TGLs = 8-3
Note: LEUKEMIA MONUC TGLs = 7-8

Nose Lumen

Inflammation

Acute, Mild

Note: FUNGAL HYPHAE SURROUNDED BY NEUTROPHILS WERE NOTED IN
Note: THE LUMEN OF THE NOSE. THESE WERE PRESUMABLY
Note: ASPERGILLUS SPECIES.

Pancreas
Pituitary Gland Pars Intermed
Pars Distalis

Inflammation
Cyst
Hyperplasia

Chronic, Minimal
Minimal
Minimal

Prostate
Seminal Vesicle
Spleen

Inflammation
Atrophy
Depletion Lymphoid
Leukemia Mononuclear

Chronic Active, Minimal
Moderate
Marked

Note: LEUKEMIA MONUC TGLs = 6-3

Stomach
Note: AVAILABLE FOR EVALUATION.
Note: OBSERVED. A LIMITED PORTION OF THE GLANDULAR MUCOSA WAS
Note: THE STOMACH WAS RECURT BUT NO EVIDENCE OF PIGMENT WAS

Testes Interstit Cell
Seminif Tub
Interstit Cell

Adenoma
Atrophy
Hyperplasia

Marked
Minimal

Note: ADENOMA TGLs = 4-6

Thyroid Gland C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 267

TRT#: 4

SEX: Male

DAY ON TEST: 724

DOSE: 4.0% HM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Cecum
Intestine Small - Jejunum
Spleen
Trachea

Brain
Intestine Large - Colon
Islets, Pancreatic
Stomach - Forestomach
Urinary Bladder

Epididymis
Intestine Large - Rectum
Nose
Thyroid Gland

Esophagus
Intestine Small - Duodenum
Parathyroid Gland
Tongue

OBSERVATIONS

Adrenal Gland
Heart
Intestine Small
Kidney
Liver

Cortex
Epithelium, Ileum

Hyperplasia
Cardiomyopathy
Pigmentation
Nephropathy
Clear Cell Focus

Minimal
Minimal
Mild
Mild
Minimal

Bile Duct

Hyperplasia
Inflammation
Mixed Cell Focus
Infiltration Cellular

Minimal
Chronic, Minimal
Moderate
Histiocyte, Minimal

Lung

Artery

Mineralization

Minimal

Lymph Node

Mandibular

Hemorrhage

Moderate

Pancreas

Atrophy

Mild

Pituitary Gland

Pars Distalis

Inflammation

Chronic, Minimal

Prostate

Hyperplasia

Mild

Seminal Vesicle

Inflammation

Chronic Active, Mild

Stomach

Atrophy

Moderate

Testes

Epithelium, Glandular

Pigmentation

Mild

Interstitial Cell

Adenoma

Seminif Tub

Atrophy

Marked

Interstitial Cell

Hyperplasia

Minimal

Note: ADENOMA TGLs = 1-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 268

TRT#: 4

SEX: Male

DAY ON TEST: 713

DOSE: 4.0% HM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Nose
Trachea

Bone
Intestine Large - Cecum
Parathyroid Gland
Urinary Bladder

Brain
Intestine Large - Colon
Spleen

Epididymis
Intestine Large - Rectum
Tongue

OBSERVATIONS

Adrenal Gland
Heart
Intestine Small

Medulla
Duodenum, Epithelium
Epithelium, Ileum
Epithelium, Jejunum

Pheochromocytoma Benign
Cardiomyopathy
Pigmentation
Pigmentation
Pigmentation
Adenoma

Multiple
Mild
Minimal
Mild
Mild

Islets, Pancreatic

Note: ADENOMA TGLs = 4-8

Kidney
Liver

Nephropathy
Cyst Multilocular
Hyperplasia
Inflammation

Mild
Minimal
Minimal
Chronic, Minimal

Note: CYST MULTILOC TGLs = 6-3

Lung

Artery
Mandibular
Mandibular

Infiltration Cellular
Mineralization
Infiltration Cellular
Pigmentation

Histiocyte, Minimal
Minimal
Histiocyte, Minimal
Minimal

Pancreas

Atrophy
Ectopic Liver
Inflammation

Minimal

Pituitary Gland

Pars Distalis

Hyperplasia
Inflammation
Atrophy

Chronic, Minimal
Minimal
Chronic Active, Minimal
Mild

Prostate

Seminal Vesicle

Stomach

Forestomach
Forestomach
Forestomach

Acanthosis
Hyperkeratosis
Inflammation

Mild
Mild
Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 268	TRT#: 4 DOSE: 4.0% HM	SEX: Male DISP: Moribund	DAY ON TEST: 713 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS			
Note: PIGMENT TGLs = 7-7 Note: INFLAMMATION TGLs = 8-7 Note: HYPERKERATOSIS TGLs = 8-7 Note: ACANTHOSIS TGLs = 8-7	Epithelium, Glandular	Pigmentation	Mild
Testes	Interstit Cell Seminif Tub Interstit Cell	Adenoma Atrophy Hyperplasia	Marked Minimal
Note: ADENOMA TGLs = 3-6	Thyroid Gland	C Cell	Hyperplasia Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 269

TRT#: 4

SEX: Male

DAY ON TEST: 723

DOSE: 4.0% HM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Epididymis	Esophagus	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Nose	Parathyroid Gland	Spleen
Stomach - Forestomach	Tongue	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Malignant	
	Cortex	Vacuolization Cytoplasmic	Minimal
Note: PHEOCHROM MAL TGLs = 3-7			
Heart		Cardiomyopathy	Minimal
Intestine Large	Cecum	Parasite Metazoan	Minimal
	Colon	Parasite Metazoan	Minimal
Kidney	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 4-4			
Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
Pancreas		Atrophy	Mild
		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Prostate		Inflammation	Chronic Active, Marked
Seminal Vesicle		Atrophy	Mild
Stomach	Epithelium, Glandular	Pigmentation	Mild
Note: PIGMENT TGLs = 5-7			
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal
Note: ADENOMA TGLs = 2-6			
Thyroid Gland	Follicle	Pigmentation	Minimal
Note: LADEN MACROPHAGES.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 269

TRT#: 4

SEX: Male

DAY ON TEST: 723

DOSE: 4.0% HM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: WITHIN A SINGLE FOLLICLE WAS A SMALL CLUSTER OF PIGMENT

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 270

TRT#: 4

SEX: Male

DAY ON TEST: 715

DOSE: 4.0% HM

DISP: Moribund

HISTO:

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	Lymph Node - Mandibular
Nose	Prostate	Spleen	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Tongue	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
	Cortex	Vacuolization Cytoplasmic	Mild
Heart		Cardiomyopathy	Minimal
Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 7,8-4		
Liver		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Pancreas		Hyperplasia	Mild
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	Multiple
	Pars Distalis	Hyperplasia	Minimal
Seminal Vesicle		Atrophy	Moderate
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked

Note: ADENOMA TGLs = 3-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 271

TRT#: 4

SEX: Male

DAY ON TEST: 724

DOSE: 4.0% HM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Parathyroid Gland
Seminal Vesicle	Spleen	Stomach - Forestomach	Thyroid Gland
Tongue	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Minimal
	Cortex	Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Moderate
Intestine Small	Epithelium, Ileum	Pigmentation	Mild
Kidney	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Marked
Liver	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Lymph Node	Mandibular	Hemorrhage	Minimal
Pancreas		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Prostate		Inflammation	Chronic Active, Minimal
Stomach	Epithelium, Glandular	Pigmentation	Mild
Note: PIGMENT	TGLs = 4-7		
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal
Note: ADENOMA	TGLs = 2-6		
Note: ATROPHY	TGLs = 3-6		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 272

TRT#: 4

SEX: Male

DAY ON TEST: 729

DOSE: 4.0% HM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Parathyroid Gland	Spleen
Stomach - Forestomach	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Tongue

OBSERVATIONS

Adrenal Gland	Cortex	Necrosis	Coagulative, Marked
	Medulla	Necrosis	Coagulative, Marked
Note: NECROSIS	TGLs = 7-7		
Heart		Cardiomyopathy	Moderate
		Metaplasia	Osseous, Mild
Intestine Small	Epithelium, Ileum	Pigmentation	Mild
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Minimal
Lung		Infiltration Cellular	Histiocyte, Mild
Lymph Node	Mandibular	Hemorrhage	Moderate
	Mediastinal	Hemorrhage	Marked
Note: HEMORRHAGE	TGLs = 2-8		
Note: HEMORRHAGE	TGLs = 5-1		
Pancreas		Atrophy	Mild
		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Minimal
Preputial Gland		Inflammation	Chronic, Marked
Note: INFLAMMATION	TGLs = 1-10		
Prostate		Inflammation	Chronic, Minimal
Seminal Vesicle		Atrophy	Moderate
Stomach	Epithelium, Glandular	Pigmentation	Minimal
Note: PIGMENT	TGLs = 9-7		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 272

TRT#: 4

SEX: Male

DAY ON TEST: 729

DOSE: 4.0% HM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Testes

Interstit Cell

Adenoma

Seminif Tub

Atrophy

Marked

Interstit Cell

Hyperplasia

Minimal

Note: ADENOMA TGLs = 6-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 273

TRT#: 4

SEX: Male

DAY ON TEST: 728

DOSE: 4.0% HM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Epididymis	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Jejunum	Lymph Node - Mandibular	Nose
Parathyroid Gland	Spleen	Stomach - Forestomach	Tongue
Trachea	Urinary Bladder		

INSUFFICIENT TISSUE

Esophagus

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Minimal
	Medulla	Pheochromocytoma Benign	
	Cortex	Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Minimal
Intestine Large	Colon	Parasite Metazoan	Minimal
Intestine Small	Epithelium, Ileum	Pigmentation	Minimal
Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
Liver		Inflammation	Chronic, Minimal
Lung	Artery	Mineralization	Minimal
Lymph Node	Mediastinal	Hemorrhage	Minimal
Pancreas		Atrophy	Mild
		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Cyst	Mild
Preputial Gland		Inflammation	Chronic, Moderate
Note: INFLAMMATION	TGLs = 2-10		
Prostate		Inflammation	Chronic Active, Minimal
Seminal Vesicle		Atrophy	Moderate
Stomach	Epithelium, Glandular	Pigmentation	Minimal
Note: PIGMENT	TGLs = 5-7		
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 273

TRT#: 4

SEX: Male

DAY ON TEST: 728

DOSE: 4.0% HM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 3-6

Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 274

TRT#: 4

SEX: Male

DAY ON TEST: 729

DOSE: 4.0% HM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Jejunum	Nose	Parathyroid Gland
Stomach - Forestomach	Tongue	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Minimal
Heart		Cardiomyopathy	Minimal
Intestine Small	Epithelium, Ileum	Pigmentation	Mild
Kidney	Prox Con Tub	Adenoma	
	Renal Tubule	Hyperplasia	Marked
		Nephropathy	Moderate
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
	Artery	Mineralization	Minimal
Lymph Node	Mandibular	Ectasia	Mild
	Mandibular	Hemorrhage	Mild
Pancreas		Cytoplasmic Alteration	Minimal
		Inflammation	Chronic, Minimal
		Cyst	Moderate
Pituitary Gland	Pars Distalis	Inflammation	Chronic Active, Minimal
Prostate		Atrophy	Moderate
Seminal Vesicle		Acanthosis	Mild
Skin		Hyperkeratosis	Marked

Note: ACANTHOSIS TGLs = 1-11

Note: A RECUT WAS MADE ON THE SKIN LESION; HOWEVER THE ORIGINAL

Note: DIAGNOSES WERE NOT CHANGED.

Note: HYPERKERATOSIS TGLs = 1-11

Spleen		Leukemia Mononuclear	
Stomach	Epithelium, Glandular	Pigmentation	Mild

Note: PIGMENT TGLs = 5-7

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:15
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 274	TRT#: 4 DOSE: 4.0% HM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Testes	Interstit Cell Seminif Tub Interstit Cell	Adenoma Atrophy Hyperplasia	Marked Minimal
Note: ADENOMA TGLs = 2-6			
Thyroid Gland	Follicle	Pigmentation	Minimal
Note: WITHIN A FOLLICLE. Note: A SMALL CLUSTER OF PIGMENT LADEN MACROPHAGES WERE NOTED			

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 275

TRT#: 4

SEX: Male

DAY ON TEST: 728

DOSE: 4.0% HM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Cecum
Intestine Small - Ileum
Spleen
Urinary Bladder

Brain
Intestine Large - Colon
Islets, Pancreatic
Stomach - Forestomach

Epididymis
Intestine Large - Rectum
Nose
Tongue

Esophagus
Intestine Small - Duodenum
Parathyroid Gland
Trachea

OBSERVATIONS

Adrenal Gland

Cortex
Cortex

Angiectasis
Hyperplasia
Cardiomyopathy

Minimal
Minimal
Mild

Heart

Intestine Small

Epithelium, Jejunum

Pigmentation

Minimal

Kidney

Liver

Nephropathy
Basophilic Focus
Hyperplasia
Inflammation
Necrosis

Mild
Minimal
Minimal
Chronic, Minimal
Coagulative, Minimal

Note: NECROSIS TGLs = 7-3

Lung

Infiltration Cellular

Histiocyte, Minimal

Artery

Lymph Node

Mandibular

Mineralization

Minimal

Mesenteric

Ectasia

Minimal

Renal

Ectasia

Mild

Renal

Hemorrhage

Minimal

Pigmentation

Mild

Note: HEMORRHAGE TGLs = 8-3

Note: ECTASIA TGLs = 9-11

Mammary Gland

Fibroadenoma

Note: FIBROADENOMA TGLs = 2-10

Pancreas

Inflammation

Chronic, Minimal

Pituitary Gland

Pars Distalis

Hyperplasia

Mild

Prostate

Fibrosis

Minimal

Inflammation

Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:15
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 275	TRT#: 4 DOSE: 4.0% HM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 728 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Seminal Vesicle Note: ATROPHY TGLs = 6-7		Atrophy	Mild
Skin Note: INFLAMMATION TGLs = 3-10		Inflammation	Necrotizing, Acute, Marked
Stomach Note: PIGMENT TGLs = 10-7	Epithelium, Glandular	Pigmentation	Mild
Testes Note: ADENOMA TGLs = 5-6	Interstit Cell Seminif Tub Interstit Cell	Adenoma Atrophy Hyperplasia	Marked Minimal
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 276

TRT#: 4

SEX: Male

DAY ON TEST: 728

DOSE: 4.0% HM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Nose	Parathyroid Gland	Pituitary Gland	Prostate
Spleen	Stomach - Forestomach	Thyroid Gland	Tongue
Trachea	Urinary Bladder		

OBSERVATIONS

Heart		Cardiomyopathy	Marked
Intestine Small	Epithelium, Ileum	Pigmentation	Mild
Kidney	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 6,7-4		
Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Pancreas		Atrophy	Moderate
		Inflammation	Chronic, Mild
Preputial Gland		Adenoma	
		Inflammation	Chronic, Moderate
Note: ADENOMA	TGLs = 3-10		
Note: INFLAMMATION	TGLs = 3-10		
Seminal Vesicle		Atrophy	Moderate
Stomach	Epithelium, Glandular	Pigmentation	Minimal
Note: PIGMENT	TGLs = 8-7.1		
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal
Note: ADENOMA	TGLs = 5-6		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 279

TRT#: 4

SEX: Male

DAY ON TEST: 692

DOSE: 4.0% HM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Islets, Pancreatic	Lymph Node - Mandibular
Nose	Spinal Cord	Spleen	Thyroid Gland
Trachea	Urinary Bladder		

INSUFFICIENT TISSUE

Esophagus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Pheochromocytoma Benign	
Blood Vessel	Aorta	Mineralization	Marked
Note: WITH CHRONIC NEPHROPATHY AND UREMIA.			
Note: MINERALIZATION TGLs = 4-10			
Note: STOMACH IS A MANIFESTATION OF HYPERCALCEMIA ASSOCIATED			
Note: MINERALIZATION IN THE AORTA AND MUCOSA OF THE GLANDULAR			
Heart		Cardiomyopathy	Minimal
Intestine Large	Cecum	Parasite Metazoan	
Intestine Small	Epithelium, Ileum	Pigmentation	Mild
	Epithelium, Jejunum	Pigmentation	Mild
Kidney		Cyst	Minimal
	Transit Epithe	Hyperplasia	Mild
	Prox Con Tub	Mineralization	Mild
		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 5-4			
Liver		Basophilic Focus	Minimal
		Inflammation	Chronic, Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Lymph Node	Mesenteric	Ectasia	Marked
Note: ECTASIA TGLs = 6-12			
Pancreas		Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 279

TRT#: 4

SEX: Male

DAY ON TEST: 692

DOSE: 4.0% HM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Parathyroid Gland		Hyperplasia	Marked
Note: HYPERPLASIA	TGLs = 8-7		
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Prostate		Inflammation	Chronic Active, Marked
Seminal Vesicle		Atrophy	Moderate
Stomach	Forestomach	Acanthosis	Minimal
	Forestomach	Fibrosis	Minimal
	Forestomach	Hyperkeratosis	Minimal
	Glandular, Mucosa	Mineralization	Mild
	Epithelium, Glandular	Pigmentation	Minimal
Note: PIGMENT	TGLs = 9-7		
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal
Note: ADENOMA	TGLs = 2,3-6		
Tongue	Artery	Mineralization	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 2	TRT#: 5 DOSE: CONTROL UF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 724 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Ovary	Parathyroid Gland	Spleen	Stomach - Forestomach
Thymus	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Minimal
	Medulla	Angiectasis	Minimal
Eye	Cortex	Vacuolization Cytoplasmic	Minimal
	Retina	Cataract	Moderate
	Sclera	Degeneration	Marked
		Mineralization	Mild
Note: CATARACT	TGLs = 1-10		
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Minimal
Liver		Basophilic Focus	Mild
		Inflammation	Chronic, Minimal
		Necrosis	Coagulative, Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Lymph Node	Mandibular	Ectasia	Mild
	Mandibular	Hemorrhage	Marked
Pancreas		Atrophy	Minimal
		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	Mild
Note: ADENOMA	TGLs = 3-8		
Stomach	Glandular, Muscularis	Developmental Malformation	Mild
Note: DEVELOP MALFOR	TGLs = 4-7		
Note: IN A FOCAL AREA OF THE GLANDULAR STOMACH THERE APPEARED			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 2	TRT#: 5	SEX: Female	DAY ON TEST: 724
	DOSE: CONTROL UF	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: TO BE AN APLASIA OF THE MUSCULARIS WHICH COULD HAVE

Note: APPEARED AS A DIVERTICULUM AT GROSS NECROPSY.

Thyroid Gland	C Cell	Hyperplasia	Minimal
Tongue		Inflammation	Chronic, Minimal
Uterus		Hydrometra	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 3

TRT#: 5

SEX: Female

DAY ON TEST: 731

DOSE: CONTROL UF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Brain	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Parathyroid Gland	Spleen
Stomach - Forestomach	Stomach - Glandular	Tongue	Trachea
Urinary Bladder			

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney	Renal Tubule	Hyperplasia	Minimal
	Transit Epithe	Hyperplasia	Mild
Liver		Nephropathy	Moderate
		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Mild
Mammary Gland		Fibroadenoma	Multiple
Note: FIBROADENOMA TGLs = 1,2-10+11			
Ovary		Cyst	Marked
Note: CYST TGLs = 3-6			
Pancreas		Atrophy	Minimal
		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Minimal
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal
Uterus	Endometrium	Hyperplasia	Mild
		Polyp Stromal	
Note: [POLYP STROMAL] TGLs = 4-6			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 4

TRT#: 5

SEX: Female

DAY ON TEST: 718

DOSE: CONTROL UF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	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
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Mild
	Cortex	Hyperplasia	Minimal
	Cortex	Vacuolization Cytoplasmic	Minimal
Note: ANGIECTASIS	TGLs = 5-7		
Brain		Hydrocephalus	Mild
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Minimal
		Fatty Change	Mild
Lung	Artery	Mineralization	Minimal
Lymph Node	Mandibular	Hemorrhage	Mild
Note: HEMORRHAGE	TGLs = 3-8		
Mammary Gland		Fibroadenoma	Multiple
Note: FIBROADENOMA	TGLs = 1,2-10+11		
Pancreas		Atrophy	Minimal
		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 6-7		
Skin	Subcut Tiss	Fibroma	
Note: FIBROMA	TGLs = 1-10		
Note: MARGIN OF THE MASS THERE WAS A CONTIGUOUS FIBROADENOMA.			
Note: EXTENSIVE NECROSIS WAS PRESENT IN THE FIBROMA. AT ONE			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 6	TRT#: 5 DOSE: CONTROL UF	SEX: Female DISP: Moribund	DAY ON TEST: 613 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	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
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Thymus	Tongue	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Minimal
	Cortex	Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Minimal
Liver		Basophilic Focus	Minimal
		Developmental Malformation	Mild
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Granulomatous, Chronic, Minimal
Note: DEVELOP MALFOR	TGLs = 3-3		
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mandibular	Ectasia	Minimal
	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mesenteric	Pigmentation	Minimal
Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
Note: FIBROADENOMA	TGLs = 1-13+13.1		
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Minimal
Stomach	Glandular, Mucosa	Dilatation	Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 7	TRT#: 5 DOSE: CONTROL UF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 732 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Esophagus	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Ovary	Parathyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Minimal
	Medulla	Angiectasis	Minimal
	Cortex	Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Mild
Intestine Large	Cecum	Parasite Metazoan	Minimal
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Mild
	Bile Duct	Hyperplasia	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Lymph Node	Mandibular	Hemorrhage	Moderate
Mammary Gland		Fibroadenoma	Multiple
Note: FIBROADENOMA	TGLs = 1,2-10+11		
Pancreas		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 3-5+7		
Spleen		Pigmentation	Mild
Note: WHAT APPEARS TO BE HEMOSIDERIN PIGMENT IS INCREASED IN			
Note: QUANTITY.			
Stomach	Forestomach	Hyperplasia	Basal Cell, Minimal
	Glandular	Inflammation	Chronic Active, Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:15

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 9

TRT#: 5

SEX: Female

DAY ON TEST: 672

DOSE: CONTROL UF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Ovary	Parathyroid Gland	Stomach - Forestomach
Stomach - Glandular	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Cortex	Necrosis	Coagulative, Moderate
	Medulla	Necrosis	Coagulative, Moderate
	Medulla	Pheochromocytoma Benign	
Note: PHEOCHROM BGN TGLs = 7-7			
Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
Kidney		Nephropathy	Mild
Liver		Fatty Change	Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 8-3			
Note: FATTY CHANGE TGLs = 8-3			
Lung		Alveolar/Bronchiolar Adenoma	
		Leukemia Mononuclear	
[Alveolar/Bronchiolar Adenoma TGLS = 3-1]			
[Leukemia Mononuclear TGLS = 4-1+2]			
Lymph Node	Pancreatic	Hemorrhage	Moderate
	Mandibular	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-8			
Note: HEMORRHAGE TGLs = 5-8			
Mammary Gland		Adenocarcinoma	
Note: ADENOCARC TGLs = 2-10			
Pancreas		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 9	TRT#: 5 DOSE: CONTROL UF	SEX: Female DISP: Moribund	DAY ON TEST: 672 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Minimal
	Pars Distalis	Leukemia Mononuclear	
Note: ADENOMA TGLs = 9-7			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-3			
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH	-		
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 10

TRT#: 5

SEX: Female

DAY ON TEST: 725

DOSE: CONTROL UF

DISP: Terminal Sacrifice

HISTO:

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
Ovary	Parathyroid Gland	Spleen	Stomach - Forestomach
Stomach - Glandular	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Mild
	Medulla	Angiectasis	Mild
Clitoral Gland		Cyst	Moderate
		Hyperplasia	Mild
Note: HYPERPLASIA	TGLs = 1-10		
Note: CYST	TGLs = 1-10		
Heart		Cardiomyopathy	Mild
Intestine Large	Colon	Parasite Metazoan	Minimal
Kidney		Nephropathy	Minimal
Liver		Basophilic Focus	Mild
		Inflammation	Granulomatous, Chronic, Minimal
Lung		Inflammation	Chronic, Minimal
Lymph Node	Mandibular	Hemorrhage	Minimal
Pancreas		Atrophy	Minimal
		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Hemorrhage	Mild
	Pars Distalis	Hyperplasia	Mild
Note: HEMORRHAGE	TGLs = 2-7		
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 11

TRT#: 5

SEX: Female

DAY ON TEST: 724

DOSE: CONTROL UF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Colon
Intestine Small - Jejunum
Stomach - Forestomach
Uterus

Brain
Intestine Large - Rectum
Islets, Pancreatic
Stomach - Glandular

Esophagus
Intestine Small - Duodenum
Parathyroid Gland
Trachea

Intestine Large - Cecum
Intestine Small - Ileum
Spleen
Urinary Bladder

OBSERVATIONS

Adrenal Gland
Eye

Note: CATARACT TGLs = 3-6
Heart
Kidney
Liver
Lung

[Infiltration Cellular TGLS = 1-2]
Lymph Node
Mammary Gland
Note: HYPERPLASIA TGLs = 5-8
Ovary
Pancreas
Pituitary Gland

Note: ADENOMA TGLs = 4-7
Thyroid Gland

Cortex

Retina

Mandibular

Pars Distalis
Pars Distalis
Pars Distalis

C Cell

Angiectasis
Cataract
Degeneration

Cardiomyopathy
Nephropathy
Basophilic Focus
Alveolar/Bronchiolar Adenoma
Infiltration Cellular

Hemorrhage
Hyperplasia

Cyst
Atrophy
Adenoma
Cyst
Hyperplasia

Hyperplasia

Minimal
Marked
Moderate

Minimal
Moderate
Minimal
Histiocyte, Minimal

Moderate
Mild

Moderate
Minimal
Mild
Minimal
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 12

TRT#: 5

SEX: Female

DAY ON TEST: 641

DOSE: CONTROL UF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Ovary
Spinal Cord
Uterus

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Stomach - Forestomach

Bone
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Parathyroid Gland
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Nose
Salivary Glands
Urinary Bladder

OBSERVATIONS

Clitoral Gland
Kidney
Liver

Inflammation
Nephropathy
Basophilic Focus
Fatty Change
Inflammation
Alveolar/Bronchiolar Adenoma
Carcinosarcoma
Crystals
Hemorrhage
Infiltration Cellular

Chronic, Minimal
Minimal
Minimal
Moderate
Granulomatous, Chronic, Mild
Metastatic (Skin)
Moderate
Mild
Histiocyte, Moderate

Note: LUNG.

Note: NUMEROUS HEMOGLOBIN-LIKE CRYSTALS WERE NOTED IN THE

[Alveolar/Bronchiolar Adenoma TGLS = 2-1+2]

[Hemorrhage TGLS = 3-1+2]

[Infiltration Cellular TGLS = 2-1+2]

Lymph Node

Mesenteric
Mesenteric

Infiltration Cellular
Pigmentation
Hyperplasia
Adenoma
Angiectasis

Histiocyte, Minimal
Minimal
Mild
Mild

Mammary Gland

Pituitary Gland

Pars Distalis
Pars Intermed

Note: ANGIECTASIS TGLs = 4-8

Note: ADENOMA TGLs = 4-8

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 12

TRT#: 5

SEX: Female

DAY ON TEST: 641

DOSE: CONTROL UF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Skin	Subcut Tiss	Carcinosarcoma	Poorly Diffr
Note: EXTENSIVE AREAS OF NECROSIS AND SMALLER AREAS OF			
Note: IT IS UNCLEAR IF THIS MASS IS A CARCINOMA OR A SARCOMA.			
Note: MINERALIZATION WERE NOTED IN THE MASS.			
[Carcinosarcoma TGLS = 1-13]			
Spleen		Depletion Lymphoid	Mild
Stomach	Glandular	Ulcer	Marked
Note: ULCER TGLs = 5-7			
Thymus		Depletion Lymphoid	Moderate
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 13

TRT#: 5

SEX: Female

DAY ON TEST: 731

DOSE: CONTROL UF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Parathyroid Gland	Stomach - Forestomach	Stomach - Glandular	Tongue
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Clitoral Gland		Adenoma	
		Inflammation	Chronic Active, Marked
Note: INFLAMMATION	TGLs = 1-6		
Note: ADENOMA	TGLs = 1-6		
Heart		Leukemia Mononuclear	
Islets, Pancreatic		Adenoma	
Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
Liver		Fatty Change	Marked
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Pigmentation	Minimal
Note: FATTY CHANGE	TGLs = 5-3		
Note: LEUKEMIA MONUC	TGLs = 5-3		
Lung		Leukemia Mononuclear	
	Artery	Mineralization	Minimal
Lymph Node	Mandibular	Hyperplasia	Plasma Cell, Mild
Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
Note: FIBROADENOMA	TGLs = 2-10		
Ovary	Periovarn Tiss	Cyst	Mild
Pancreas		Atrophy	Minimal
Pituitary Gland	Pars Distalis	Cyst	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:16
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 13	TRT#: 5 DOSE: CONTROL UF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 731 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Depletion Lymphoid Leukemia Mononuclear	Moderate
Note: LEUKEMIA MONUC TGLs = 3-3			
Thyroid Gland	C Cell	Hyperplasia	Minimal
Uterus	Endometrium	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 14

TRT#: 5

SEX: Female

DAY ON TEST: 729

DOSE: CONTROL UF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla

Brain

Esophagus

Intestine Large - Cecum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Ovary

Pancreas

Parathyroid Gland

Spleen

Stomach - Forestomach

Stomach - Glandular

Thyroid Gland

Tongue

Trachea

Urinary Bladder

Uterus

MISSING

Intestine Large - Rectum

OBSERVATIONS

Adrenal Gland

Cortex

Angiectasis

Minimal

Cortex

Hyperplasia

Minimal

Clitoral Gland

Adenoma

Note: ADENOMA TGLs = 1-9

Heart

Cardiomyopathy

Mild

Note: SMALL NUMBERS OF NECROTIC MYOCYTES WERE NOTTED IN

Note: SCATTERED AREAS.

Intestine Large

Colon

Parasite Metazoan

Minimal

Kidney

Nephropathy

Mild

Liver

Basophilic Focus

Mild

Bile Duct

Hyperplasia

Minimal

Lung

Artery

Mineralization

Minimal

Lymph Node

Mandibular

Hemorrhage

Moderate

Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Angiectasis

Mild

Note: ANGIECTASIS TGLs = 2-7

Note: ADENOMA TGLs = 2-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 15

TRT#: 5

SEX: Female

DAY ON TEST: 731

DOSE: CONTROL UF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Rectum
Islets, Pancreatic
Stomach - Glandular

Brain
Intestine Small - Duodenum
Pancreas
Tongue

Esophagus
Intestine Small - Ileum
Spleen
Trachea

Intestine Large - Cecum
Intestine Small - Jejunum
Stomach - Forestomach
Urinary Bladder

OBSERVATIONS

Adrenal Gland

Heart
Intestine Large
Kidney
Liver
Lung

Cortex
Cortex

Colon

Angiectasis
Vacuolization Cytoplasmic
Cardiomyopathy
Parasite Metazoan
Nephropathy
Basophilic Focus
Alveolar/Bronchiolar Adenoma
Infiltration Cellular

Minimal
Mild
Minimal
Mild
Minimal
Histiocyte, Minimal

[Alveolar/Bronchiolar Adenoma TGLS = 1-1]

Lymph Node
Ovary
Parathyroid Gland
Pituitary Gland
Note: ADENOMA TGLs = 4-7
Thyroid Gland
Uterus

Mandibular
Periovarn Tiss

Pars Distalis
C Cell

Ectasia
Cyst
Adenoma
Adenoma

Hyperplasia
Polyp Stromal

Mild
Mild

Minimal

Note: POLYP STROMAL TGLs = 2,3-6.1

Note: ONE PORTION OF THE POLYP SHOWED EXTENSIVE NECROSIS.

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 16

TRT#: 5

SEX: Female

DAY ON TEST: 606

DOSE: CONTROL UF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	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	Ovary	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Tongue	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Mild
	Cortex	Hyperplasia	Minimal
Clitoral Gland		Inflammation	Chronic, Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Minimal
Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Mild
Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mesenteric	Pigmentation	Minimal
Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
Note: FIBROADENOMA TGLs = 1-13+13.1			
Pancreas		Atrophy	Minimal
		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Minimal
Thymus		Depletion Lymphoid	Mild
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 17

TRT#: 5

SEX: Female

DAY ON TEST: 723

DOSE: CONTROL UF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Colon
Intestine Small - Jejunum
Pancreas
Stomach - Glandular
Uterus

Brain
Intestine Large - Rectum
Islets, Pancreatic
Skin
Tongue

Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Spleen
Trachea

Intestine Large - Cecum
Intestine Small - Ileum
Ovary
Stomach - Forestomach
Urinary Bladder

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland
Heart
Kidney
Liver
Lung
Lymph Node
 Note: HEMORRHAGE TGLs = 2-2
Mammary Gland
 Note: FIBROADENOMA TGLs = 1-10
Pituitary Gland
 Note: ADENOMA TGLs = 4,5-7
Thyroid Gland

Cortex

Mediastinal

Pars Distalis
Pars Distalis

C Cell

Hyperplasia
Cardiomyopathy
Nephropathy
Basophilic Focus
Infiltration Cellular
Hemorrhage

Fibroadenoma

Adenoma
Angiectasis

Hyperplasia

Mild
Mild
Moderate
Minimal
Histiocyte, Minimal
Minimal

Mild

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 20

TRT#: 5

SEX: Female

DAY ON TEST: 687

DOSE: CONTROL UF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Lung	Lymph Node - Mandibular	Ovary	Pancreas
Parathyroid Gland	Spleen	Stomach - Forestomach	Stomach - Glandular
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Minimal
	Cortex	Vacuolization Cytoplasmic	Minimal
Brain		Hydrocephalus	Mild
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Adenoma	
Note: ADENOMA	TGLs = 4-8		
Kidney		Nephropathy	Mild
Note: NEPHROPATHY	TGLs = 5-4		
Liver		Basophilic Focus	Minimal
		Inflammation	Granulomatous, Chronic, Minimal
		Mixed Cell Focus	Moderate
Note: [MIXED CL FOCUS]	TGLs = 6-3		
Lymph Node	Renal	Hemorrhage	Minimal
	Renal	Infiltration Cellular	Mild
	Renal	Pigmentation	Mild
Note: PIGMENT	TGLs = 7-4		
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-10+10.1		
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 9,10-7.1		
Thyroid Gland	Follicle	Cyst	Minimal
	C Cell	Hyperplasia	Minimal
Tongue		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 21	TRT#: 5 DOSE: CONTROL UF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	Ovary
Spleen	Stomach - Forestomach	Stomach - Glandular	Trachea
Urinary Bladder	Uterus		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Minimal
	Medulla	Hyperplasia	Minimal
	Cortex	Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Minimal
		Developmental Malformation	Mild
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
Note: DEVELOP MALFOR TGLs = 7-3			
Lymph Node	Mediastinal	Hemorrhage	Minimal
	Mediastinal	Pigmentation	Minimal
[Hemorrhage TGLS = 3-2]			
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA TGLs = 1-10+10.1			
Note: THIS TUMOR IS PREDOMINANTLY COMPOSED OF CONNECTIVE TISSUE.			
Pancreas		Atrophy	Minimal
		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
Note: ADENOMA TGLs = 6-7			
Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 21

TRT#: 5

SEX: Female

DAY ON TEST: 729

DOSE: CONTROL UF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 22

TRT#: 5

SEX: Female

DAY ON TEST: 686

DOSE: CONTROL UF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Colon
Intestine Small - Jejunum
Stomach - Forestomach
Uterus

Brain
Intestine Large - Rectum
Islets, Pancreatic
Stomach - Glandular

Esophagus
Intestine Small - Duodenum
Ovary
Trachea

Intestine Large - Cecum
Intestine Small - Ileum
Parathyroid Gland
Urinary Bladder

AUTO PRECLUDES DIAG.

Kidney

OBSERVATIONS

Adrenal Gland
Heart
Kidney

Cortex

Vacuolization Cytoplasmic
Cardiomyopathy

Minimal
Mild

Note: ALTHOUGH THIS WAS SUPPOSED TO BE A FRESH NECROPSY, THE
Note: CHANGES IN THE PCT SUGGEST MARKED POSTMORTEM
Note: DECOMPOSITION.

Liver

Bile Duct

Basophilic Focus
Hyperplasia
Leukemia Mononuclear

Minimal
Minimal

Note: LEUKEMIA MONUC TGLs = 4-3

Lung

Hemorrhage
Leukemia Mononuclear

Minimal

Note: LEUKEMIA MONUC TGLs = 3-2
[Hemorrhage TGLS = 3-2]

Lymph Node

Mandibular

Leukemia Mononuclear
Fibroadenoma

Multiple

Note: FIBROADENOMA TGLs = 1,2-10+11+11.1

Pancreas

Atrophy

Minimal

Pituitary Gland

Pars Distalis

Adenoma

Spleen

Leukemia Mononuclear

Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 22

TRT#: 5

SEX: Female

DAY ON TEST: 686

DOSE: CONTROL UF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 24

TRT#: 5

SEX: Female

DAY ON TEST: 632

DOSE: CONTROL UF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Eye	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Ovary	Pancreas	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Lymph Node - Mandibular	Parathyroid Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Minimal
	Medulla	Angiectasis	Minimal
Clitoral Gland		Inflammation	Chronic, Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Minimal
		Fatty Change	Mild
		Leukemia Mononuclear	
Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Mild
	Mesenteric	Pigmentation	Minimal
Mammary Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 3-7		
Spleen		Leukemia Mononuclear	
Uterus		Hydrometra	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 25

TRT#: 5

SEX: Female

DAY ON TEST: 732

DOSE: CONTROL UF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Colon
Islets, Pancreatic
Spleen
Trachea

Brain
Intestine Small - Duodenum
Lung
Stomach - Forestomach
Urinary Bladder

Esophagus
Intestine Small - Ileum
Ovary
Stomach - Glandular

Intestine Large - Cecum
Intestine Small - Jejunum
Pancreas
Tongue

MISSING

Intestine Large - Rectum

Parathyroid Gland

OBSERVATIONS

Adrenal Gland

Cortex
Cortex

Hyperplasia
Vacuolization Cytoplasmic

Minimal
Minimal

Heart

Cardiomyopathy

Minimal

Kidney

Nephropathy

Moderate

Liver

Basophilic Focus

Minimal

Lymph Node

Bile Duct
Mandibular
Mandibular

Hyperplasia
Ectasia
Hemorrhage

Minimal
Mild
Minimal

Mammary Gland

Fibroadenoma

Multiple

Note: FIBROADENOMA TGLs = 1,2-10+11+11.1

Pituitary Gland

Pars Distalis
Pars Distalis
Pars Distalis

Adenoma
Cyst
Hyperplasia

Mild
Minimal

Note: ADENOMA TGLs = 5-7

Thyroid Gland

C Cell

Hyperplasia

Mild

Uterus

Hydrometra

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 28

TRT#: 5

SEX: Female

DAY ON TEST: 728

DOSE: CONTROL UF

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Rectum
Islets, Pancreatic
Thyroid Gland

Brain
Intestine Small - Duodenum
Pancreas
Tongue

Esophagus
Intestine Small - Ileum
Stomach - Forestomach
Trachea

Intestine Large - Cecum
Intestine Small - Jejunum
Stomach - Glandular
Uterus

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland
Clitoral Gland

Cortex

Vacuolization Cytoplasmic
Adenoma
Inflammation

Minimal
Chronic Active, Moderate

Note: ADENOMA TGLs = 2-11
Note: INFLAMMATION TGLs = 2-11

Heart

Cardiomyopathy
Leukemia Mononuclear
Parasite Metazoan
Leukemia Mononuclear
Nephropathy

Mild
Mild
Mild

Intestine Large
Kidney

Colon

Note: THE KIDNEY HAS UNDERGONE MODERATE AUTOLYSIS.

Liver

Bile Duct

Hyperplasia
Leukemia Mononuclear

Moderate

Note: LEUKEMIA MONUC TGLs = 8-3

Lung

Lymph Node

Mandibular
Pancreatic
Renal

Leukemia Mononuclear
Ectasia
Leukemia Mononuclear
Leukemia Mononuclear

Mild

Note: LEUKEMIA MONUC TGLs = 6-10

Mammary Gland

Note: FIBROADENOMA TGLs = 1-12

Ovary

Pituitary Gland

Periovarn Tiss
Pars Distalis

Cyst
Adenoma

Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 28

TRT#: 5

SEX: Female

DAY ON TEST: 728

DOSE: CONTROL UF

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Pars Distalis

Cyst

Moderate

Note: CYST TGLs = 10-7

Note: ADENOMA TGLs = 10-7

Spleen

Note: LEUKEMIA MONUC TGLs = 4-3

Leukemia Mononuclear

Urinary Bladder

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 29

TRT#: 5

SEX: Female

DAY ON TEST: 732

DOSE: CONTROL UF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Colon
Intestine Small - Jejunum
Spleen

Brain
Intestine Large - Rectum
Islets, Pancreatic
Trachea

Esophagus
Intestine Small - Duodenum
Ovary
Urinary Bladder

Intestine Large - Cecum
Intestine Small - Ileum
Pancreas

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland

Cortex

Hyperplasia

Minimal

Cortex

Vacuolization Cytoplasmic

Minimal

Heart

Cardiomyopathy

Mild

Kidney

Nephropathy

Moderate

Liver

Basophilic Focus

Mild

Bile Duct

Hyperplasia

Minimal

Lung

Alveolar/Bronchiolar Adenoma

Artery

Mineralization

Minimal

Lymph Node

Mandibular

Hemorrhage

Mild

Mammary Gland

Fibroadenoma

Note: FIBROADENOMA TGLs = 1-10

Pituitary Gland

Pars Distalis

Angiectasis

Mild

Pars Distalis

Cyst

Mild

Note: ANGIECTASIS TGLs = 3-7

Stomach

Glandular, Mucosa

Dilatation

Mild

Forestomach

Hyperplasia

Basal Cell, Minimal

C Cell

Carcinoma

Thyroid Gland

Note: CARCINOMA TGLs = 2-7.1

Tongue

Inflammation

Chronic, Minimal

Uterus

Hydrometra

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 31

TRT#: 5

SEX: Female

DAY ON TEST: 731

DOSE: CONTROL UF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Rectum
Ovary
Tongue

Brain
Intestine Small - Duodenum
Pancreas
Trachea

Esophagus
Intestine Small - Ileum
Parathyroid Gland
Uterus

Intestine Large - Colon
Intestine Small - Jejunum
Spleen

OBSERVATIONS

Adrenal Gland

Cortex
Cortex

Angiectasis
Vacuolization Cytoplasmic

Minimal
Mild

Heart

Cardiomyopathy

Mild

Intestine Large

Cecum

Parasite Metazoan

Minimal

Islets, Pancreatic

Ectopic Tissue

Note: LANGERHANS.

Note: ISLANDS OF HEPATOCYTES WERE NOTED SURROUNDING AN ISLET OF

Kidney

Nephropathy

Mild

Liver

Basophilic Focus
Developmental Malformation

Mild

Bile Duct

Hyperplasia
Mixed Cell Focus

Minimal
Minimal

Note: DEVELOP MALFOR TGLs = 2-3

Lung

Artery

Mineralization

Minimal

Lymph Node

Mandibular

Hemorrhage

Moderate

Mammary Gland

Fibroadenoma

Note: FIBROADENOMA TGLs = 1-10

Pituitary Gland

Pars Distalis

Angiectasis

Moderate

Pars Distalis

Cyst

Minimal

Pars Distalis

Hyperplasia

Mild

Note: ANGIECTASIS TGLs = 3,4-7

Stomach

Glandular, Muscularis

Mineralization

Mild

Thyroid Gland

C Cell

Hyperplasia

Marked

Urinary Bladder

Papilloma

Note: THIS IS AN UNUSUAL LESION TO SEE IN A CONTROL ANIMAL.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 31

TRT#: 5

SEX: Female

DAY ON TEST: 731

DOSE: CONTROL UF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 32

TRT#: 5

SEX: Female

DAY ON TEST: 732

DOSE: CONTROL UF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Rectum
Islets, Pancreatic
Stomach - Forestomach
Uterus

Brain
Intestine Small - Duodenum
Ovary
Stomach - Glandular

Esophagus
Intestine Small - Ileum
Parathyroid Gland
Trachea

Intestine Large - Cecum
Intestine Small - Jejunum
Spleen
Urinary Bladder

MISSING

Lymph Node - Mandibular

OBSERVATIONS

Adrenal Gland

Heart
Intestine Large
Kidney
Liver

Cortex
Cortex

Colon

Bile Duct
Artery

Pars Distalis
Pars Distalis
Pars Distalis

Angiectasis
Hyperplasia
Cardiomyopathy
Parasite Metazoan
Nephropathy
Basophilic Focus
Hyperplasia
Mineralization
Atrophy
Inflammation
Adenoma
Angiectasis
Cyst

Mild
Minimal
Mild
Minimal
Mild
Mild
Minimal
Minimal
Minimal
Chronic, Minimal
Mild
Mild

Note: ANGIECTASIS TGLs = 3-7
Note: ADENOMA TGLs = 4-7
Note: CYST TGLs = 4-7

Skin
Note: FIBROMA TGLs = 1-10
Thyroid Gland

Subcut Tiss

C Cell
C Cell

Fibroma

Adenoma
Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 35

TRT#: 5

SEX: Female

DAY ON TEST: 672

DOSE: CONTROL UF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Intestine Large - Cecum
Intestine Small - Ileum
Pancreas
Urinary Bladder

Adrenal Gland - Medulla
Intestine Large - Colon
Intestine Small - Jejunum
Parathyroid Gland

Brain
Intestine Large - Rectum
Islets, Pancreatic
Spleen

Esophagus
Intestine Small - Duodenum
Ovary
Trachea

OBSERVATIONS

Heart
Kidney

Liver

Note: FATTY CHANGE TGLs = 6-3

Collect Tub

Cardiomyopathy
Mineralization
Nephropathy
Basophilic Focus
Fatty Change

Moderate
Minimal
Moderate
Minimal
Marked

Lung
Lymph Node
Note: HEMORRHAGE TGLs = 2-8
Mammary Gland
Note: FIBROADENOMA TGLs = 3-10
Pituitary Gland
Note: ADENOMA TGLs = 7-7

Artery
Mandibular

Mineralization
Hemorrhage

Fibroadenoma

Minimal
Minimal

Stomach

Note: INFLAMMATION TGLs = 8-7

Forestomach
Forestomach
Forestomach
Forestomach
Forestomach
Glandular

Acanthosis
Erosion
Hyperkeratosis
Hyperplasia
Inflammation
Inflammation

Minimal
Minimal
Minimal
Basal Cell, Minimal
Chronic Active, Mild
Chronic Active, Minimal

Thyroid Gland
Uterus

C Cell

Hyperplasia
Hydrometra

Minimal
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 36

TRT#: 5

SEX: Female

DAY ON TEST: 422

DOSE: CONTROL UF

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Islets, Pancreatic
Nose	Parathyroid Gland	Skin	Thyroid Gland
Trachea			

MISSING

Intestine Small - Ileum	Lymph Node - Mandibular	Salivary Glands	Tongue
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OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Moderate
	Glandular	Leukemia Mononuclear	
	Cortex	Vacuolization Cytoplasmic	Moderate
Note: 1991 CONVERSION DISCREPANCY. ORIGINAL DIAGNOSIS SITE NOT SPECIFIED.			
Brain		Leukemia Mononuclear	
Clitoral Gland		Inflammation	Chronic, Minimal
Intestine Small	Duodenum	Leukemia Mononuclear	
	Jejunum	Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
Liver		Fatty Change	Moderate
		Leukemia Mononuclear	
Lung	Mediastinum	Leukemia Mononuclear	
	Parenchyma	Leukemia Mononuclear	
		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-9		
Note: LEUKEMIA MONUC	TGLs = 3-9		
Note: LEUKEMIA MONUC	TGLs = 5-2		
Mammary Gland		Hyperplasia	Mild
Mesentery		Leukemia Mononuclear	
		Necrosis	Coagulative, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 36

TRT#: 5

SEX: Female

DAY ON TEST: 422

DOSE: CONTROL UF

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 7-7+13

Note: NECROSIS TGLs = 7-13

Ovary		Leukemia Mononuclear	
Pancreas		Atrophy	Minimal
		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
	Pars Distalis	Leukemia Mononuclear	
	Pars Intermed	Leukemia Mononuclear	
	Pars Nervosa	Leukemia Mononuclear	
	Pars Distalis	Pigmentation	Minimal
Spleen		Depletion Lymphoid	Marked
		Hemangioma	
		Leukemia Mononuclear	

Note: LEUKEMIA MONUC TGLs = 6-3

Stomach	Forestomach	Leukemia Mononuclear	
	Glandular	Leukemia Mononuclear	
Thymus		Leukemia Mononuclear	
Urinary Bladder		Leukemia Mononuclear	
Uterus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 37

TRT#: 5

SEX: Female

DAY ON TEST: 724

DOSE: CONTROL UF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Intestine Large - Cecum
Intestine Small - Ileum
Spleen
Trachea

Adrenal Gland - Medulla
Intestine Large - Colon
Intestine Small - Jejunum
Stomach - Forestomach
Urinary Bladder

Brain
Intestine Large - Rectum
Islets, Pancreatic
Stomach - Glandular

Esophagus
Intestine Small - Duodenum
Ovary
Thyroid Gland

MISSING

Clitoral Gland

Parathyroid Gland

OBSERVATIONS

Heart
Kidney
Liver

Cardiomyopathy
Nephropathy
Basophilic Focus
Inflammation
Necrosis
Hyperplasia
Mineralization
Hemorrhage
Fibroadenoma

Mild
Moderate
Mild
Granulomatous, Chronic, Minimal
Coagulative, Minimal
Minimal
Minimal
Moderate

Lung

Alveolar Epith
Artery

Atrophy
Inflammation
Angiectasis

Minimal
Minimal
Moderate
Minimal
Chronic, Minimal
Mild

Lymph Node
Mammary Gland

Mandibular

Fibroadenoma
Atrophy
Inflammation
Angiectasis
Hyperplasia
Polyp Stromal

Minimal
Chronic, Minimal
Mild
Minimal

Note: FIBROADENOMA TGLs = 1-10+11

Pancreas

Pituitary Gland

Pars Distalis

Note: ANGIECTASIS TGLs = 5-7

Uterus

Endometrium

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 39

TRT#: 5

SEX: Female

DAY ON TEST: 625

DOSE: CONTROL UF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	Nose	Ovary	Pancreas
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Urinary Bladder	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex Medulla	Angiectasis Pheochromocytoma Benign	Mild
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Minimal
Liver		Basophilic Focus Clear Cell Focus Fatty Change	Minimal Mild Minimal
Note: CLEAR CL FOCUS TGLs = 5-3			
Lymph Node	Mediastinal Mesenteric Mediastinal Mesenteric	Hemorrhage Infiltration Cellular Pigmentation Pigmentation	Minimal Histiocyte, Minimal Minimal Minimal
Note: HEMORRHAGE TGLs = 3-2			
Mammary Gland		Fibroadenoma Hyperplasia	Mild
Note: FIBROADENOMA TGLs = 1-13			
Pituitary Gland	Pars Distalis Pars Distalis	Cyst Hyperplasia	Minimal Mild
Note: ADENOMA TGLs = 4-8			
Thymus		Depletion Lymphoid	Mild
Uterus		Polyp Stromal	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 39

TRT#: 5

SEX: Female

DAY ON TEST: 625

DOSE: CONTROL UF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 41

TRT#: 5

SEX: Female

DAY ON TEST: 731

DOSE: CONTROL UF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Ovary	Pancreas	Stomach - Forestomach
Stomach - Glandular	Tongue	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Moderate
	Medulla	Hyperplasia	Minimal
	Cortex	Thrombosis	Moderate
	Cortex	Vacuolization Cytoplasmic	Mild
Note: ANGIECTASIS	TGLs = 4-7		
Note: THROMBUS	TGLs = 4-7		
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Mild
Liver		Clear Cell Focus	Moderate
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Note: CLEAR CL FOCUS	TGLs = 3-3		
Lung		Leukemia Mononuclear	
	Artery	Mineralization	Minimal
Lymph Node	Mandibular	Hemorrhage	Minimal
	Mandibular	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Mesentery		Inflammation	Granulomatous, Chronic, Moderate
		Necrosis	Coagulative, Minimal
Note: INFLAMMATION	TGLs = 7-10		
Parathyroid Gland		Cyst	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Minimal
	Pars Distalis, Pars Intermed, Pars Nervosa	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 41

TRT#: 5

SEX: Female

DAY ON TEST: 731

DOSE: CONTROL UF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CYST TGLs = 6-7

Note: ADENOMA TGLs = 5-7

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 2-3

Thyroid Gland

C Cell

Hyperplasia

Minimal

Uterus

Endometrium

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 42

TRT#: 5

SEX: Female

DAY ON TEST: 729

DOSE: CONTROL UF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Colon
Islets, Pancreatic
Stomach - Forestomach
Urinary Bladder

Brain
Intestine Small - Duodenum
Ovary
Stomach - Glandular
Uterus

Esophagus
Intestine Small - Ileum
Parathyroid Gland
Tongue

Intestine Large - Cecum
Intestine Small - Jejunum
Spleen
Trachea

OBSERVATIONS

Adrenal Gland
Heart
Intestine Large
Kidney
Liver
Lung
Lymph Node
Mammary Gland
 [Fibroadenoma TGLS = 1-10]
Pancreas

Pituitary Gland

 Note: ADENOMA TGLs = 3-7
Thyroid Gland

Cortex

Rectum

Artery
Mandibular

Pars Distalis
Pars Intermed
Pars Distalis

Hyperplasia
Cardiomyopathy
Parasite Metazoan
Nephropathy
Basophilic Focus
Mineralization
Ectasia
Fibroadenoma

Atrophy
Inflammation
Adenoma
Angiectasis
Cyst

Cyst
Hyperplasia

Minimal
Mild
Minimal
Moderate
Minimal
Minimal
Mild

Moderate
Chronic, Minimal

Moderate
Minimal

Minimal
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 43

TRT#: 5

SEX: Female

DAY ON TEST: 724

DOSE: CONTROL UF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Brain	Esophagus	Intestine Large - Cecum
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Ovary	Pancreas
Parathyroid Gland	Spleen	Stomach - Forestomach	Stomach - Glandular
Tongue	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Minimal
	Cortex	Hyperplasia	Minimal
	Cortex	Vacuolization Cytoplasmic	Minimal
Clitoral Gland		Adenoma	
		Inflammation	Chronic Active, Moderate
Note: ADENOMA	TGLs = 1-10		
Note: INFLAMMATION	TGLs = 1-10		
Heart		Cardiomyopathy	Mild
Intestine Large	Colon	Parasite Metazoan	Minimal
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Minimal
		Inflammation	Granulomatous, Chronic, Minimal
Lymph Node	Mandibular	Hemorrhage	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Minimal
Note: ADENOMA	TGLs = 3-7		
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 44

TRT#: 5

SEX: Female

DAY ON TEST: 660

DOSE: CONTROL UF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Colon
Intestine Small - Jejunum
Spleen

Brain
Intestine Large - Rectum
Islets, Pancreatic
Stomach - Forestomach

Esophagus
Intestine Small - Duodenum
Ovary
Trachea

Intestine Large - Cecum
Intestine Small - Ileum
Parathyroid Gland
Urinary Bladder

OBSERVATIONS

Adrenal Gland
Heart
Kidney
Liver

Cortex

Angiectasis
Cardiomyopathy
Nephropathy
Basophilic Focus
Fatty Change

Mild
Mild
Minimal
Mild
Minimal

Lung
Lymph Node

Artery
Mandibular
Mediastinal

Mineralization
Ectasia
Hemorrhage

Minimal
Minimal
Minimal

Note: HEMORRHAGE TGLs = 4-1

Mammary Gland

Note: FIBROADENOMA TGLs = 1-10

Pancreas

Fibroadenoma

Atrophy
Inflammation

Mild
Chronic, Minimal

Pituitary Gland

Pars Distalis
Pars Distalis

Adenoma
Hyperplasia

Mild

Stomach

Glandular, Mucosa

Dilatation

Minimal

Thyroid Gland

C Cell

Hyperplasia

Minimal

Uterus

Hydrometra

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 46

TRT#: 5

SEX: Female

DAY ON TEST: 725

DOSE: CONTROL UF

DISP: Terminal Sacrifice

HISTO:

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
Ovary	Parathyroid Gland	Spleen	Stomach - Forestomach
Tongue	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
	Medulla	Pheochromocytoma Malignant	
	Cortex	Vacuolization Cytoplasmic	Minimal
Note: PHEOCHROM MAL TGLs = 1-7			
Heart		Cardiomyopathy	Minimal
Intestine Large	Colon	Parasite Metazoan	Minimal
Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 2-4			
Liver		Basophilic Focus	Minimal
Lung	Artery	Mineralization	Minimal
Lymph Node	Mandibular	Hemorrhage	Minimal
Pancreas		Atrophy	Mild
		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Cyst	Mild
Stomach	Glandular, Mucosa	Dilatation	Minimal
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 47

TRT#: 5

SEX: Female

DAY ON TEST: 729

DOSE: CONTROL UF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Colon
Intestine Small - Jejunum
Pancreas
Stomach - Glandular
Uterus

Brain
Intestine Large - Rectum
Islets, Pancreatic
Parathyroid Gland
Tongue

Esophagus
Intestine Small - Duodenum
Lung
Spleen
Trachea

Intestine Large - Cecum
Intestine Small - Ileum
Ovary
Stomach - Forestomach
Urinary Bladder

OBSERVATIONS

Adrenal Gland

Cortex
Cortex

Angiectasis
Vacuolization Cytoplasmic
Cardiomyopathy
Nephropathy
Basophilic Focus
Clear Cell Focus

Minimal
Minimal
Mild
Mild
Minimal
Moderate

Note: [CLEAR CL FOCUS] TGLs = 2-3

Lymph Node

Mandibular

Hemorrhage
Fibroadenoma

Minimal

Mammary Gland

Note: FIBROADENOMA TGLs = 1-10

Pituitary Gland

Pars Distalis
Pars Distalis
C Cell

Adenoma
Cyst
Hyperplasia

Mild
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 49

TRT#: 5

SEX: Female

DAY ON TEST: 732

DOSE: CONTROL UF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Brain	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Ovary	Pancreas
Parathyroid Gland	Spleen	Stomach - Forestomach	Stomach - Glandular
Tongue	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Cortex	Vacuolization Cytoplasmic	Mild
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Mild
Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Lymph Node	Mandibular	Hemorrhage	Minimal
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-10		
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
Note: ADENOMA	TGLs = 3-7		
Note: CYST	TGLs = 3-7		
Thyroid Gland	C Cell	Hyperplasia	Minimal
Uterus		Hydrometra	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 50

TRT#: 5

SEX: Female

DAY ON TEST: 724

DOSE: CONTROL UF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Brain	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Ovary
Pancreas	Spleen	Stomach - Forestomach	Stomach - Glandular
Trachea	Urinary Bladder		

INSUFFICIENT TISSUE

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Cortex	Vacuolization Cytoplasmic	Minimal
Eye		Cataract	Marked
	Retina	Degeneration	Marked
		Synechia	Marked
Note: CATARACT	TGLs = 1-10		
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Granulomatous, Chronic, Minimal
Lymph Node	Mandibular	Hemorrhage	Moderate
Note: HEMORRHAGE	TGLs = 2-8		
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Mild
Note: ADENOMA	TGLs = 6-7		
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal
Note: ADENOMA	TGLs = 3-7		
Uterus		Leiomyoma	
Note: LEIOMYOMA	TGLs = 4-6		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 50

TRT#: 5

SEX: Female

DAY ON TEST: 724

DOSE: CONTROL UF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 51

TRT#: 5

SEX: Female

DAY ON TEST: 718

DOSE: CONTROL UF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	Ovary
Spleen	Tongue	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Medulla	Angiectasis	Minimal
	Cortex	Vacuolization Cytoplasmic	Minimal
Eye		Cataract	Moderate
	Retina	Degeneration	Marked
Note: CATARACT	TGLs = 1-10		
Heart		Cardiomyopathy	Minimal
Kidney	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Marked
Liver		Clear Cell Focus	Minimal
Pancreas		Atrophy	Minimal
		Inflammation	Chronic, Minimal
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Stomach	Forestomach	Acanthosis	Mild
	Glandular, Mucosa	Dilatation	Minimal
	Forestomach	Edema	Mild
	Forestomach	Hyperkeratosis	Mild
	Forestomach	Inflammation	Chronic Active, Mild
Note: INFLAMMATION	TGLs = 3-7		
Note: EDEMA	TGLs = 3-7		
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 53

TRT#: 5

SEX: Female

DAY ON TEST: 723

DOSE: CONTROL UF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Brain	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Ovary	Pancreas
Parathyroid Gland	Spleen	Stomach - Forestomach	Stomach - Glandular
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Minimal
	Cortex	Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Minimal
Note: EOSIN FOCUS	TGLs = 5-3		
Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Lymph Node	Mandibular	Hemorrhage	Mild
	Renal	Hemorrhage	Mild
	Renal	Infiltration Cellular	Histiocyte, Moderate
Note: HEMORRHAGE	TGLs = 2,3-4		
Note: INFILTRAT CELL	TGLs = 2,3-4		
Mammary Gland		Hyperplasia	Cystic, Marked
		Hyperplasia	Marked
Note: HYPERPLASIA	TGLs = 1-10		
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Hyperplasia	Mild
Note: ADENOMA	TGLs = 4-7		
Thyroid Gland	C Cell	Hyperplasia	Minimal
Tongue		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 55

TRT#: 5

SEX: Female

DAY ON TEST: 687

DOSE: CONTROL UF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Parathyroid Gland	Stomach - Forestomach	Stomach - Glandular
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Congestion	Marked
	Medulla	Leukemia Mononuclear	
	Cortex	Vacuolization Cytoplasmic	Moderate
Note: CONGESTION	TGLs = 13-7		
Clitoral Gland		Cyst	Mild
		Inflammation	Chronic, Minimal
Note: CYST	TGLs = 3-10		
Heart		Cardiomyopathy	Minimal
Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
Liver		Fatty Change	Mild
		Leukemia Mononuclear	
		Necrosis	Coagulative, Minimal
[Fatty Change TGLS = 15-3]			
[Leukemia Mononuclear TGLS = 15-3]			
Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-1+2]			
Lymph Node	Mandibular	Hemorrhage	Minimal
	Mediastinal	Hemorrhage	Minimal
	Mesenteric	Hemorrhage	Marked
	Mesenteric	Infiltration Cellular	Histiocyte, Mild
	Mandibular	Leukemia Mononuclear	
	Mesenteric	Pigmentation	Minimal
Note: HEMORRHAGE	TGLs = 4-8		
Note: HEMORRHAGE	TGLs = 11-10		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:16
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 55	TRT#: 5	SEX: Female	DAY ON TEST: 687
	DOSE: CONTROL UF	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Hemorrhage TGLS = 5-2]

Ovary		Granulosa Cell Tumor Benign	
Note: GRANLSA TM BGN	TGLs = 8-6		
Pancreas		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Hyperplasia	Minimal
	Pars Distalis	Leukemia Mononuclear	
Note: ANGIECTASIS	TGLs = 16,17-7		
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 9,10-3.1		
Thyroid Gland	C Cell	Hyperplasia	Minimal
Uterus		Hydrometra	Minimal
	Endometrium	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 56

TRT#: 5

SEX: Female

DAY ON TEST: 660

DOSE: CONTROL UF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Colon
Intestine Small - Jejunum
Stomach - Forestomach
Uterus

Brain
Intestine Large - Rectum
Pancreas
Stomach - Glandular

Esophagus
Intestine Small - Duodenum
Parathyroid Gland
Trachea

Intestine Large - Cecum
Intestine Small - Ileum
Spleen
Urinary Bladder

OBSERVATIONS

Adrenal Gland

Cortex
Cortex

Angiectasis
Vacuolization Cytoplasmic
Cardiomyopathy
Nephropathy
Basophilic Focus

Mild
Minimal
Mild
Minimal
Minimal
Granulomatous, Chronic, Minimal

Heart
Kidney
Liver

Lung
Lymph Node

Artery
Mandibular
Mediastinal
Mandibular

Inflammation
Mineralization
Ectasia
Hemorrhage
Pigmentation

[Hemorrhage TGLS = 4-1]

Mammary Gland

Note: FIBROADENOMA TGLs = 2-11

Fibroadenoma

Ovary

Note: CYST TGLs = 6-6

Cyst

Pituitary Gland

Pars Distalis
Pars Distalis
Pars Intermed
Pars Distalis
Pars Distalis

Adenoma
Angiectasis
Angiectasis
Cyst
Hyperplasia

Mild
Multiple
Mild
Minimal
Mild
Mild

Note: ADENOMA TGLs = 8-7

Thyroid Gland

C Cell
C Cell

Carcinoma
Hyperplasia
Ultimobranchial Cyst

Minimal
Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 56

TRT#: 5

SEX: Female

DAY ON TEST: 660

DOSE: CONTROL UF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CARCINOMA TGLs = 3-7

Zymbal's Gland

Squamous Cell Carcinoma

Note: SQUAM CEL CARC TGLs = 1-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 57

TRT#: 5

SEX: Female

DAY ON TEST: 731

DOSE: CONTROL UF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Colon
Intestine Small - Jejunum
Pancreas
Stomach - Glandular

Brain
Intestine Large - Rectum
Islets, Pancreatic
Parathyroid Gland
Trachea

Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Spleen
Urinary Bladder

Intestine Large - Cecum
Intestine Small - Ileum
Ovary
Stomach - Forestomach
Uterus

OBSERVATIONS

Adrenal Gland

Cortex
Cortex
Cortex

Angiectasis
Hyperplasia
Vacuolization Cytoplasmic
Cardiomyopathy
Inflammation
Hyperplasia
Nephropathy

Minimal
Minimal
Mild
Mild
Necrotizing, Chronic Active, Marked
Mild
Marked

Heart

Coron Artery
Transit Epithe

Kidney

Basophilic Focus
Hyperplasia
Infiltration Cellular
Fibroadenoma

Mild
Minimal
Histiocyte, Minimal

Note: NEPHROPATHY TGLs = 2-4

Liver

Bile Duct

Lung

Mammary Gland

Note: FIBROADENOMA TGLs = 1-10

Pituitary Gland

Pars Distalis
Pars Distalis

Cyst
Hyperplasia

Mild
Mild

Note: CYST TGLs = 3-7

Thyroid Gland

C Cell

Hyperplasia
Inflammation

Mild
Chronic, Minimal

Tongue

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 58

TRT#: 5

SEX: Female

DAY ON TEST: 700

DOSE: CONTROL UF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Colon
Intestine Small - Jejunum
Trachea

Brain
Intestine Large - Rectum
Lymph Node - Mandibular
Urinary Bladder

Esophagus
Intestine Small - Duodenum
Parathyroid Gland
Uterus

Intestine Large - Cecum
Intestine Small - Ileum
Spleen

OBSERVATIONS

Adrenal Gland
Clitoral Gland

Cortex

Vacuolization Cytoplasmic
Abscess
Cyst
Hyperplasia

Mild
Mild
Marked
Moderate

Note: HYPERPLASIA TGLs = 1-10
Note: ABSCESS TGLs = 1-10
Note: CYST TGLs = 1-10

Heart
Kidney

Transit Epithe

Cardiomyopathy
Hyperplasia
Nephropathy

Mild
Minimal
Marked

Note: NEPHROPATHY TGLs = 5-4

Liver

Note: FATTY CHANGE TGLs = 6-3

Fatty Change

Moderate

Lung

Mammary Gland

Artery

Mineralization
Fibroadenoma
Hyperplasia
Cyst

Minimal
Moderate
Mild

Ovary

Note: CYST TGLs = 3-6

Periovarn Tiss

Atrophy

Minimal

Pancreas

Pituitary Gland

Stomach

Pars Distalis
Forestomach
Forestomach
Forestomach
Forestomach
Glandular

Adenoma
Acanthosis
Hyperkeratosis
Hyperplasia
Inflammation
Inflammation

Mild
Mild
Basal Cell, Mild
Chronic Active, Mild
Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 58

TRT#: 5

SEX: Female

DAY ON TEST: 700

DOSE: CONTROL UF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Forestomach

Ulcer

Moderate

Note: ULCER TGLs = 7-7

Note: ACANTHOSIS TGLs = 7-7

Note: HYPERPLASIA TGLs = 7-7

Note: HYPERKERATOSIS TGLs = 7-7

[Hyperkeratosis TGLs = 7-7]

Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 61

TRT#: 5

SEX: Female

DAY ON TEST: 619

DOSE: CONTROL UF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	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	Nose	Ovary
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Mild
Liver		Eosinophilic Focus	Mild
		Inflammation	Granulomatous, Chronic, Minimal
		Mixed Cell Focus	Moderate
Lymph Node	Mandibular	Ectasia	Minimal
	Mediastinal	Hemorrhage	Mild
	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mesenteric	Pigmentation	Minimal
Note: HEMORRHAGE	TGLs = 3-2		
Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Moderate
Note: FIBROADENOMA	TGLs = 1,2-13+14		
Pancreas		Atrophy	Minimal
		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Adenoma	Multiple
Note: ADENOMA	TGLs = 6-8		
Spleen		Depletion Lymphoid	Mild
Thymus		Depletion Lymphoid	Mild
Thyroid Gland	C Cell	Hyperplasia	Mild
Uterus		Polyp Stromal	
Note: POLYP STROMAL	TGLs = 5-6		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 61

TRT#: 5

SEX: Female

DAY ON TEST: 619

DOSE: CONTROL UF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 62

TRT#: 5

SEX: Female

DAY ON TEST: 700

DOSE: CONTROL UF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Ovary
Parathyroid Gland	Spleen	Stomach - Forestomach	Stomach - Glandular
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Mild
	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Minimal
Clitoral Gland		Carcinoma	
Note: CARCINOMA	TGLs = 1-10		
Heart		Cardiomyopathy	Mild
Intestine Large	Rectum	Parasite Metazoan	Minimal
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Minimal
Lung	Artery	Mineralization	Minimal
Lymph Node	Mandibular	Ectasia	Minimal
	Mandibular	Hemorrhage	Minimal
Note: HEMORRHAGE	TGLs = 2-8		
Pancreas		Atrophy	Minimal
		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Adenoma	Multiple
Note: ADENOMA	TGLs = 5-7		
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 63

TRT#: 5

SEX: Female

DAY ON TEST: 718

DOSE: CONTROL UF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Rectum
Islets, Pancreatic
Thyroid Gland

Brain
Intestine Small - Duodenum
Pancreas
Tongue

Esophagus
Intestine Small - Ileum
Parathyroid Gland
Trachea

Intestine Large - Cecum
Intestine Small - Jejunum
Stomach - Forestomach
Urinary Bladder

OBSERVATIONS

Adrenal Gland
Heart
Intestine Large
Kidney

Cortex
Colon
Transit Epithe

Vacuolization Cytoplasmic
Cardiomyopathy
Parasite Metazoan
Hyperplasia
Leukemia Mononuclear
Nephropathy

Mild
Minimal
Minimal
Mild
Minimal

Note: LEUKEMIA MONUC TGLs = 7-4

Liver

Fatty Change
Leukemia Mononuclear

Moderate

Note: LEUKEMIA MONUC TGLs = 9-3

Note: FATTY CHANGE TGLs = 8-3

Lung

Hemorrhage
Leukemia Mononuclear
Mineralization
Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear

Minimal
Minimal
Minimal

Lymph Node

Artery
Mandibular
Mediastinal
Pancreatic

Note: LEUKEMIA MONUC TGLs = 6-1

Mammary Gland

Note: FIBROADENOMA TGLs = 1,2,3-10+11+12

Ovary

Pituitary Gland

Pars Distalis
Pars Intermed
Pars Distalis

Fibroadenoma
Leukemia Mononuclear
Adenoma
Angiectasis
Leukemia Mononuclear

Multiple
Mild

Note: ADENOMA TGLs = 10-7

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 63

TRT#: 5

SEX: Female

DAY ON TEST: 718

DOSE: CONTROL UF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Leukemia Mononuclear Thrombosis	Moderate
Note: THROMBUS	TGLs = 5-3		
Note: LEUKEMIA MONUC	TGLs = 4-3		
Stomach	Glandular, Mucosa	Dilatation	Minimal
Uterus	Endometrium	Hydrometra Hyperplasia	Mild Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 64

TRT#: 5

SEX: Female

DAY ON TEST: 724

DOSE: CONTROL UF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Intestine Large - Cecum
Intestine Small - Ileum
Spleen
Trachea

Adrenal Gland - Medulla
Intestine Large - Colon
Intestine Small - Jejunum
Stomach - Forestomach
Urinary Bladder

Brain
Intestine Large - Rectum
Ovary
Stomach - Glandular
Uterus

Esophagus
Intestine Small - Duodenum
Parathyroid Gland
Tongue

OBSERVATIONS

Heart
Kidney
Liver
Lung

Lymph Node

Pancreas

Pituitary Gland

Thyroid Gland

Artery
Mandibular
Mandibular

Pars Distalis
Pars Distalis
Pars Distalis
C Cell

Cardiomyopathy
Nephropathy
Basophilic Focus
Infiltration Cellular
Mineralization
Ectasia
Hemorrhage
Atrophy
Inflammation
Adenoma
Angiectasis
Cyst
Adenoma

Minimal
Mild
Minimal
Histiocyte, Minimal
Minimal
Minimal
Minimal
Chronic, Minimal

Mild
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 65

TRT#: 5

SEX: Female

DAY ON TEST: 597

DOSE: CONTROL UF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	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
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Tongue	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Minimal
Clitoral Gland		Inflammation	Chronic, Minimal
Heart		Cardiomyopathy	Minimal
Intestine Large	Rectum	Parasite Metazoan	Minimal
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Minimal
		Fatty Change	Minimal
		Inflammation	Granulomatous, Chronic, Minimal
		Mixed Cell Focus	Marked
Lung		Metaplasia	Osseous, Minimal
	Artery	Mineralization	Minimal
Lymph Node	Mediastinal	Hemorrhage	Minimal
	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mesenteric	Pigmentation	Minimal
Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
Note: THERE WAS EXTENSIVE NECROSIS IN THE MAMMARY GLAND MASS.			
Note: FIBROADENOMA TGLs = 1-13			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Minimal
Note: ADENOMA TGLs = 4-8			
Thymus		Depletion Lymphoid	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 65

TRT#: 5

SEX: Female

DAY ON TEST: 597

DOSE: CONTROL UF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland

C Cell

Hyperplasia

Minimal

Uterus

Polyp Stromal

Note: POLYP STROMAL TGLs = 2-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 66

TRT#: 5

SEX: Female

DAY ON TEST: 731

DOSE: CONTROL UF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Colon
Intestine Small - Jejunum
Parathyroid Gland
Tongue

Brain
Intestine Large - Rectum
Islets, Pancreatic
Spleen
Trachea

Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Stomach - Forestomach

Intestine Large - Cecum
Intestine Small - Ileum
Ovary
Stomach - Glandular

OBSERVATIONS

Adrenal Gland

Cortex
Cortex
Cortex

Angiectasis
Hyperplasia
Vacuolization Cytoplasmic
Cardiomyopathy
Nephropathy
Basophilic Focus

Minimal
Mild
Mild
Mild
Mild
Minimal

Heart
Kidney
Liver

Bile Duct

Hyperplasia
Inflammation

Minimal
Granulomatous, Chronic, Minimal

Lung
Pancreas
Pituitary Gland

Alveolar Epith
Pars Distalis
Pars Intermed

Hyperplasia
Atrophy
Adenoma
Angiectasis

Minimal
Minimal
Multiple
Mild

Thyroid Gland
Urinary Bladder
Uterus

C Cell
Subserosa
Lumen

Hyperplasia
Mineralization
Exudate
Hydrometra

Mild
Minimal
Marked
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 68

TRT#: 5

SEX: Female

DAY ON TEST: 723

DOSE: CONTROL UF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Colon
Intestine Small - Jejunum
Parathyroid Gland
Urinary Bladder

Brain
Intestine Large - Rectum
Islets, Pancreatic
Stomach - Forestomach
Uterus

Esophagus
Intestine Small - Duodenum
Ovary
Stomach - Glandular

Intestine Large - Cecum
Intestine Small - Ileum
Pancreas
Trachea

MISSING

Lymph Node - Mandibular

OBSERVATIONS

Adrenal Gland
Heart
Kidney
Liver

Cortex

Angiectasis
Cardiomyopathy
Nephropathy
Basophilic Focus

Minimal
Minimal
Moderate
Mild

Lung
Mammary Gland

Bile Duct

Hyperplasia
Hemorrhage
Hyperplasia

Minimal
Minimal
Moderate

Note: HYPERPLASIA TGLs = 1-10

Pituitary Gland

Pars Distalis
Pars Nervosa

Adenoma
Angiectasis

Multiple
Moderate

Note: ADENOMA TGLs = 2-7

Spleen
Thyroid Gland
Tongue

C Cell

Depletion Lymphoid
Hyperplasia
Inflammation

Mild
Minimal
Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 69

TRT#: 5

SEX: Female

DAY ON TEST: 723

DOSE: CONTROL UF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Brain	Esophagus	Intestine Large - Cecum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Ovary	Pancreas
Stomach - Forestomach	Stomach - Glandular	Tongue	Trachea
Urinary Bladder			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Minimal
	Cortex	Hyperplasia	Minimal
Heart		Cardiomyopathy	Mild
Intestine Large	Colon	Parasite Metazoan	
	Rectum	Parasite Metazoan	Mild
Kidney	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Minimal
Liver		Basophilic Focus	Minimal
		Fatty Change	Minimal
		Inflammation	Granulomatous, Chronic, Minimal
		Fibroadenoma	Multiple
Mammary Gland			
Note: FIBROADENOMA TGLs = 1,2-10+11			
Ovary			
Note: TISSUE, PRESUMABLY FROM THE STROMAL POLYP.			
Pituitary Gland	Pars Distalis	Angiectasis	Marked
	Pars Distalis	Cyst	Mild
Spleen	Capsule	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 5-3			
Thyroid Gland	C Cell	Hyperplasia	Minimal
Uterus	Lumen	Exudate	Marked
		Polyp Stromal	
Note: POLYP STROMAL TGLs = 4-6			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 69

TRT#: 5

SEX: Female

DAY ON TEST: 723

DOSE: CONTROL UF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 70

TRT#: 5

SEX: Female

DAY ON TEST: 729

DOSE: CONTROL UF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Colon
Islets, Pancreatic
Stomach - Forestomach

Brain
Intestine Small - Duodenum
Pancreas
Stomach - Glandular

Esophagus
Intestine Small - Ileum
Parathyroid Gland
Trachea

Intestine Large - Cecum
Intestine Small - Jejunum
Spleen
Urinary Bladder

OBSERVATIONS

Adrenal Gland

Ear
Note: FIBROSARC TGLs = 8-12

Cortex
Cortex

Angiectasis
Vacuolization Cytoplasmic
Fibrosarcoma

Minimal
Minimal

Eye

Note: CATARACT TGLs = 1-10

Retina

Cataract
Degeneration

Moderate
Moderate

Heart
Intestine Large
Kidney

Rectum
Transit Epithe

Cardiomyopathy
Parasite Metazoan
Hyperplasia
Nephropathy
Angiectasis
Basophilic Focus
Inflammation
Necrosis

Mild
Minimal
Mild
Minimal
Mild
Minimal
Chronic Active, Minimal
Coagulative, Minimal

Note: ANGIECTASIS TGLs = 10-3
Lung
Lymph Node

Artery
Mandibular
Deep Cervical

Mineralization
Hemorrhage
Hyperplasia

Minimal
Marked
Plasma Cell, Moderate

Note: HYPERPLASIA TGLs = 3-10
Mammary Gland
Note: FIBROADENOMA TGLs = 2-11

Fibroadenoma

Ovary
Note: CYST TGLs = 4-6
Pituitary Gland

Periovarn Tiss

Pars Distalis

Cyst

Angiectasis

Mild

Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 70

TRT#: 5

SEX: Female

DAY ON TEST: 729

DOSE: CONTROL UF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Mild
Thyroid Gland	C Cell	Hyperplasia	Minimal
Tongue		Inflammation	Chronic, Minimal
Uterus		Hydrometra	Mild
Note: [HYDROMETRA] TGLs = 5-6			
Zymbal's Gland		Adenoma	
Note: ADENOMA TGLs = 9-12			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 71

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 0.1% LF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Parathyroid Gland

Stomach - Forestomach

Tongue

Urinary Bladder

OBSERVATIONS

Islets, Pancreatic

Adenoma

Kidney

Nephropathy

Moderate

Liver

Angiectasis

Mild

Basophilic Focus

Mild

Inflammation

Granulomatous, Chronic, Minimal

Pancreas

Inflammation

Chronic, Minimal

Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 1-4]

Stomach

Artery, Glandular

Mineralization

Minimal

Thyroid Gland

C Cell

Hyperplasia

Minimal

Uterus

Hydrometra

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 72

TRT#: 6

SEX: Female

DAY ON TEST: 668

DOSE: 0.1% LF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland	Blood	Bone	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Parathyroid Gland	Spleen
Stomach - Forestomach	Stomach - Glandular	Tongue	Urinary Bladder
Uterus			

OBSERVATIONS

Kidney		Nephropathy	Mild
Note: NEPHROPATHY	TGLs = 3-2		
Liver		Basophilic Focus	Mild
Mammary Gland		Fibroadenoma	
		Galactocele	Marked
		Hyperplasia	Mild
[Fibroadenoma TGLS = 1-6]			
[Hyperplasia TGLS = 1-6]			
Pancreas		Atrophy	Minimal
		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 4-4		
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 73

TRT#: 6

SEX: Female

DAY ON TEST: 680

DOSE: 0.1% LF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Pancreas

Stomach - Forestomach

Stomach - Glandular

Tongue

Urinary Bladder

Uterus

MISSING

Mesentery

Parathyroid Gland

OBSERVATIONS

Kidney

Nephropathy

Minimal

Liver

Basophilic Focus

Mild

Cytoplasmic Alteration

Mild

Inflammation

Granulomatous, Chronic, Minimal

Hemorrhage

Minimal

Lung

Note: HEMORRHAGE TGLs = 5-6

Lymph Node

Mediastinal

Hemorrhage

Moderate

Mediastinal

Pigmentation

Mild

Note: HEMORRHAGE TGLs = 3-7

Mammary Gland

Fibroadenoma

Note: FIBROADENOMA TGLs = 1-9

Pituitary Gland

Pars Distalis

Adenoma

Pars Intermed

Angiectasis

Marked

Pars Distalis

Hyperplasia

Minimal

[Adenoma TGLS = 11-4]

[Angiectasis TGLS = 11-4]

Spleen

Fibrosis

Moderate

Inflammation

Granulomatous, Chronic, Marked

Note: PAS, AND ACID FAST DID NOT AID IN UNDERSTANDING THE ETIOL-

Note: OGY OF THE GRANULOMATOUS INFLAMMATION IN THE SPLEEN.

Note: POSITIVE CONTROLS WERE AVAILABLE FOR COMPARISON.

Note: THE SPECIAL STAINS USED INCLUDING B&B BACTERIAL STAIN,

Note: INFLAMMATION TGLs = 7,8-8

Thyroid Gland

C Cell

Hyperplasia

Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 73

TRT#: 6

SEX: Female

DAY ON TEST: 680

DOSE: 0.1% LF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Follicular Cel

Hyperplasia

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 74

TRT#: 6

SEX: Female

DAY ON TEST: 725

DOSE: 0.1% LF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Pancreas

Parathyroid Gland

Stomach - Forestomach

Stomach - Glandular

Tongue

Urinary Bladder

OBSERVATIONS

Eye

Retina

Cataract

Marked

Degeneration

Moderate

Synechia

Marked

Note: CATARACT TGLs = 1-6

Kidney

Nephropathy

Mild

Liver

Basophilic Focus

Mild

Pituitary Gland

Pars Distalis

Adenoma

Pars Nervosa

Angiectasis

Mild

Pars Distalis

Cyst

Moderate

Note: CYST TGLs = 3-4

Note: ADENOMA TGLs = 3-4

Thyroid Gland

C Cell

Adenoma

C Cell

Hyperplasia

Mild

Uterus

Polyp Stromal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 75

TRT#: 6

SEX: Female

DAY ON TEST: 613

DOSE: 0.1% LF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	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	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Trachea	Urinary Bladder	Uterus	

MISSING

Thymus

INSUFFICIENT TISSUE

Eye

OBSERVATIONS

Adrenal Gland Note: ANGIOECTASIS TGLs = 3-8	Cortex	Angiectasis	Mild
Clitoral Gland		Inflammation	Chronic, Minimal
Harderian Gland		Inflammation	Chronic, Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Mild
Liver		Angiectasis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Granulomatous, Chronic, Mild
		Mixed Cell Focus	Moderate
Note: FATTY CHANGE TGLs = 4,5-3			
Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Mild
	Mesenteric	Pigmentation	Minimal
Mammary Gland		Hyperplasia	Mild
Pituitary Gland Note: ADENOMA TGLs = 6-8	Pars Distalis	Adenoma	
Spleen		Depletion Lymphoid	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 75

TRT#: 6

SEX: Female

DAY ON TEST: 613

DOSE: 0.1% LF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 76

TRT#: 6

SEX: Female

DAY ON TEST: 603

DOSE: 0.1% LF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	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	Nose	Ovary	Parathyroid Gland
Salivary Glands	Skin	Stomach - Glandular	Tongue
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Mild
Clitoral Gland		Inflammation	Chronic, Mild
Heart		Cardiomyopathy	Minimal
Intestine Large	Cecum, Lymphoid Tiss	Hypoplasia	Moderate
Note: ALONG THE MESENTERIC SIDE OF THE CECUM A SEGMENT (ABOUT			
Note: AGENESIS WAS NOT AVAILABLE SO HYPOPLASIA WAS USED.			
Note: 45%) OF THE MUSCULARIS EXTERNA WAS MISSING. THE TERM			
Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Mild
Liver		Fatty Change	Moderate
		Inflammation	Granulomatous, Chronic, Mild
Note: FATTY CHANGE TGLs = 2-3			
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Mild
	Mesenteric	Pigmentation	Minimal
Mammary Gland		Hyperplasia	Mild
Pancreas		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 3-8			
Spleen		Depletion Lymphoid	Mild
		Hematopoietic Cell Proliferation	Moderate
Stomach	Forestomach	Acanthosis	Mild
	Forestomach	Hyperkeratosis	Mild
	Forestomach	Inflammation	Chronic Active, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:16
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 76	TRT#: 6 DOSE: 0.1% LF	SEX: Female DISP: Moribund	DAY ON TEST: 603 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: INFLAMMATION TGLs = 1-7 Thymus Thyroid Gland	Forestomach C Cell	Necrosis Depletion Lymphoid Hyperplasia	Coagulative, Mild Moderate Minimal
--	---------------------------	---	--

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 77

TRT#: 6

SEX: Female

DAY ON TEST: 603

DOSE: 0.1% LF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	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	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Tongue	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Minimal
Clitoral Gland		Inflammation	Chronic, Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Moderate
Liver		Fatty Change	Mild
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
Note: FATTY CHANGE TGLs = 2-3			
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mesenteric	Pigmentation	Minimal
Mammary Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 3-8			
Skin		Inflammation	Chronic, Moderate
Spleen		Depletion Lymphoid	Minimal
Thymus		Depletion Lymphoid	Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 79

TRT#: 6

SEX: Female

DAY ON TEST: 704

DOSE: 0.1% LF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Stomach - Forestomach

Intestine Small - Ileum
Stomach - Glandular

Intestine Small - Jejunum
Urinary Bladder

Parathyroid Gland
Uterus

MISSING

Tongue

INSUFFICIENT TISSUE

Eye

OBSERVATIONS

Eye

Note: BULBI MAY BE APPROPRIATE; HOWEVER, THIS DIAGNOSIS IS NOT

Note: AVAILABLE IN THE VOCABULARY.

Note: THE LEFT EYE IS SO BLITZED THAT THE DIAGNOSIS PHTHISIS

Kidney

Nephropathy

Minimal

Liver

Basophilic Focus

Mild

Leukemia Mononuclear

Lung

Artery

Mineralization

Minimal

Lymph Node

Mandibular

Ectasia

Minimal

Mandibular

Hemorrhage

Moderate

Note: HEMORRHAGE TGLs = 2-7

Pancreas

Atrophy

Minimal

Inflammation

Chronic, Minimal

Pigmentation

Minimal

Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Angiectasis

Moderate

Pars Intermed

Angiectasis

Moderate

Note: ADENOMA TGLs = 7-4

Note: ANGIECTASIS TGLs = 7-4

Skin

Subcut Tiss

Fibroma

Note: FIBROMA TGLs = 1-8

Spleen

Depletion Lymphoid

Minimal

Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 79

TRT#: 6

SEX: Female

DAY ON TEST: 704

DOSE: 0.1% LF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 5-1

Thyroid Gland

C Cell

Hyperplasia

Mild

Zymbal's Gland

Squamous Cell Carcinoma

Note: THE SQUAM CEL CARC SHOWS EVIDENCE OF INVASION BENEATH THE

Note: THE CALVARIUM AND AROUND CRANIAL NERVES WHICH MAY

Note: SQUAM CEL CARC TGLs = 6-9+9.1

Note: EXPLAIN THE HEAD TILT.

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 80

TRT#: 6

SEX: Female

DAY ON TEST: 597

DOSE: 0.1% LF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	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	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Minimal
Clitoral Gland		Inflammation	Chronic, Mild
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Mild
	Mesenteric	Pigmentation	Minimal
Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
Note: FIBROADENOMA TGLs = 1-13			
Pituitary Gland	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Mild
Note: ADENOMA TGLs = 4-8			
Thymus		Depletion Lymphoid	Mild
Thyroid Gland	C Cell	Hyperplasia	Minimal
Tongue		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 81

TRT#: 6

SEX: Female

DAY ON TEST: 612

DOSE: 0.1% LF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Cecum
Intestine Small - Ileum
Ovary
Skin

Bone
Intestine Large - Colon
Intestine Small - Jejunum
Pancreas
Spleen

Bone Marrow
Intestine Large - Rectum
Islets, Pancreatic
Parathyroid Gland
Trachea

Esophagus
Intestine Small - Duodenum
Nose
Salivary Glands
Uterus

MISSING

Thymus

OBSERVATIONS

Adrenal Gland
Brain
Clitoral Gland
Heart
Kidney
Liver

Cortex
Medulla

Vacuolization Cytoplasmic
Carcinoma
Inflammation
Cardiomyopathy
Nephropathy
Fatty Change
Inflammation

Minimal
Metastatic (Pituitary Gland)
Chronic, Mild
Mild
Minimal
Moderate
Granulomatous, Chronic, Mild

Note: FATTY CHANGE TGLs = 8-3

Lung
Lymph Node

Mandibular
Mandibular
Mesenteric
Mesenteric

Infiltration Cellular
Ectasia
Hemorrhage
Infiltration Cellular
Pigmentation

Histiocyte, Minimal
Moderate
Mild
Histiocyte, Minimal
Minimal

Note: HEMORRHAGE TGLs = 3-9

Mammary Gland

Fibroadenoma
Hyperplasia

Moderate

Note: FIBROADENOMA TGLs = 4-13

Pituitary Gland

Pars Distalis

Carcinoma

Note: CARCINOMA TGLs = 9-8

Stomach

Forestomach
Glandular
Forestomach

Edema
Edema
Inflammation

Marked
Marked
Chronic Active, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 81	TRT#: 6 DOSE: 0.1% LF	SEX: Female DISP: Moribund	DAY ON TEST: 612 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
	Glandular Forestomach	Inflammation Ulcer	Chronic Active, Moderate Marked
Note: ULCER TGLs = 7-7 Thyroid Gland Urinary Bladder	C Cell	Hyperplasia Inflammation	Mild Chronic, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 82

TRT#: 6

SEX: Female

DAY ON TEST: 626

DOSE: 0.1% LF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	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	Nose	Ovary
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Uterus			

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Mild
	Bile Duct	Hyperplasia	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mesenteric	Pigmentation	Minimal
Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
Note: FIBROADENOMA	TGLs = 1,2-10+13		
Pancreas		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 4-8		
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 83

TRT#: 6

SEX: Female

DAY ON TEST: 680

DOSE: 0.1% LF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Stomach - Glandular

Intestine Small - Ileum
Tongue

Intestine Small - Jejunum
Uterus

Skin

MISSING

Parathyroid Gland

OBSERVATIONS

Brain
Kidney
Liver
Bile Duct

Leukemia Mononuclear
Nephropathy
Fatty Change
Hyperplasia
Leukemia Mononuclear

Minimal
Marked
Mild

[Fatty Change TGLS = 7-1]
[Leukemia Mononuclear TGLS = 7-1]

Lymph Node
Mesenteric
Renal
Mesenteric
Renal
Mesenteric
Renal

Infiltration Cellular
Infiltration Cellular
Leukemia Mononuclear
Leukemia Mononuclear
Pigmentation
Pigmentation

Histiocyte, Mild
Histiocyte, Mild
Mild
Minimal

Note: LEUKEMIA MONUC TGLs = 6-5
Note: PIGMENT TGLs = 5-4
Note: LEUKEMIA MONUC TGLs = 5-4

Pancreas

Atrophy
Leukemia Mononuclear

Mild

Pituitary Gland
Pars Distalis
Pars Distalis
Pars Distalis

Angiectasis
Cyst
Hyperplasia

Marked
Marked
Minimal

Note: CYST TGLs = 9-5
Note: ANGIECTASIS TGLs = 10-5

Spleen
[Leukemia Mononuclear TGLS = 4-6]

Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:16
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 83	TRT#: 6 DOSE: 0.1% LF	SEX: Female DISP: Moribund	DAY ON TEST: 680 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Forestomach	Acanthosis	Minimal
	Forestomach	Hyperplasia	Basal Cell, Mild
	Forestomach	Inflammation	Chronic Active, Mild
Thymus		Depletion Lymphoid	Moderate
Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 84

TRT#: 6

SEX: Female

DAY ON TEST: 515

DOSE: 0.1% LF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	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
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Tongue	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Mild
Clitoral Gland		Inflammation	Chronic, Minimal
Heart		Leukemia Mononuclear	
Kidney	Prox Con Tub	Nephropathy	Minimal
Note: PIGMENT TGLs = 7-4		Pigmentation	Marked
Liver	Bile Duct	Fatty Change	Moderate
		Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 8-3			
Lung		Hemorrhage	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-1+2]			
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Mesenteric	Pigmentation	Minimal
Mammary Gland		Hyperplasia	Marked
Pituitary Gland	Pars Distalis	Cyst	Mild
Spleen		Depletion Lymphoid	Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-3			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:16
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 84	TRT#: 6 DOSE: 0.1% LF	SEX: Female DISP: Moribund	DAY ON TEST: 515 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Thymus		Depletion Lymphoid	Mild
		Hemorrhage	Mild
Thyroid Gland	C Cell	Hyperplasia	Minimal
Uterus		Hydrometra	Mild
		Polyp Stromal	

Note: POLYP STROMAL TGLs = 5-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 85

TRT#: 6

SEX: Female

DAY ON TEST: 723

DOSE: 0.1% LF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Pancreas

Parathyroid Gland

Stomach - Forestomach

Stomach - Glandular

Tongue

Urinary Bladder

OBSERVATIONS

Kidney

Transit Epithe

Hyperplasia

Minimal

Nephropathy

Mild

Liver

Basophilic Focus

Mild

Clear Cell Focus

Minimal

Inflammation

Granulomatous, Chronic, Minimal

Mesentery

Fibrosis

Moderate

Inflammation

Chronic, Moderate

Necrosis

Coagulative, Moderate

Note: NECROSIS TGLs = 2-6

Note: INFLAMMATION TGLs = 2-6

Pituitary Gland

Pars Distalis

Hyperplasia

Minimal

Thyroid Gland

C Cell

Hyperplasia

Minimal

Uterus

Hydrometra

Moderate

Inflammation

Chronic, Minimal

Note: HYDROMETRA TGLs = 1-3

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 87

TRT#: 6

SEX: Female

DAY ON TEST: 725

DOSE: 0.1% LF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Pancreas

Parathyroid Gland

Urinary Bladder

INSUFFICIENT TISSUE

Eye

OBSERVATIONS

Kidney

Nephropathy

Mild

Liver

Basophilic Focus

Mild

Necrosis

Coagulative, Moderate

Note: NECROSIS TGLs = 3-1

Pituitary Gland

Pars Distalis

Angiectasis

Mild

Pars Distalis

Hyperplasia

Mild

Subcut Tiss

Fibroma

Skin

Note: FIBROMA TGLs = 2-7+7.1

Stomach

Artery, Forestomach, Muscularis

Mineralization

Minimal

Artery, Glandular

Mineralization

Minimal

C Cell

Hyperplasia

Minimal

Thyroid Gland

Tongue

Hemorrhage

Minimal

Uterus

Hydrometra

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 90

TRT#: 6

SEX: Female

DAY ON TEST: 728

DOSE: 0.1% LF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Stomach - Glandular

Intestine Small - Ileum
Tongue

Spleen
Urinary Bladder

Stomach - Forestomach
Uterus

MISSING

Parathyroid Gland

OBSERVATIONS

Intestine Small
Kidney
Liver

Jejunum

Autolysis
Nephropathy
Basophilic Focus
Fatty Change
Inflammation
Fibroadenoma

Mild
Moderate
Minimal
Minimal
Granulomatous, Chronic, Minimal
Multiple

Mammary Gland
[Fibroadenoma TGLS = 1,2-6+7]

Pancreas
Pituitary Gland

Pars Distalis
Pars Distalis

Atrophy
Adenoma
Cyst

Minimal
Minimal

Note: ADENOMA TGLs = 4-4
Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 91

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 0.1% LF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Stomach - Forestomach

Intestine Small - Ileum
Stomach - Glandular

Intestine Small - Jejunum
Tongue

Parathyroid Gland
Urinary Bladder

OBSERVATIONS

Clitoral Gland
Note: ABSCESS TGLs = 2-6

Abscess
Marked

Eye
Retina
Cornea

Degeneration
Fibrosis
Synechia
Marked

Harderian Gland
Kidney
Note: NEPHROPATHY TGLs = 5-2

Prox Con Tub

Inflammation
Acute, Mild
Inflammation
Acute, Minimal
Nephropathy
Moderate

Liver

Basophilic Focus
Mild
Clear Cell Focus
Minimal
Inflammation
Granulomatous, Chronic, Minimal
Mixed Cell Focus
Mild

Mammary Gland
Note: FIBROADENOMA TGLs = 3,4-7+8

Fibroadenoma
Multiple
Hyperplasia
Moderate

Pancreas
Pituitary Gland
Note: ADENOMA TGLs = 6-4

Pars Distalis

Inflammation
Chronic, Minimal
Adenoma

Thyroid Gland
C Cell

Hyperplasia
Minimal
Inflammation
Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 93

TRT#: 6

SEX: Female

DAY ON TEST: 645

DOSE: 0.1% LF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Pancreas

Parathyroid Gland

Stomach - Glandular

Tongue

Urinary Bladder

OBSERVATIONS

Kidney

Transit Epithe

Hyperplasia

Moderate

Prox Con Tub

Inflammation

Acute, Minimal

Nephropathy

Marked

[Nephropathy TGLS = 2-2]

Liver

Fatty Change

Moderate

[Fatty Change TGLS = 3-1]

Pituitary Gland

Pars Distalis

Adenoma

Pars Intermed

Angiectasis

Minimal

Note: ADENOMA TGLs = 4-4

Stomach

Forestomach

Acanthosis

Mild

Forestomach

Hyperkeratosis

Mild

Forestomach

Hyperplasia

Basal Cell, Mild

Forestomach

Inflammation

Acute, Marked

Thyroid Gland

C Cell

Hyperplasia

Minimal

Uterus

Polyp Stromal

Multiple

Note: POLYP STROMAL TGLs = 1,5-3

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 94

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 0.1% LF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Stomach - Glandular

Intestine Small - Ileum
Tongue

Intestine Small - Jejunum

Stomach - Forestomach

MISSING

Parathyroid Gland

OBSERVATIONS

Kidney
Liver

Nephropathy
Basophilic Focus
Hyperplasia
Leukemia Mononuclear
Mixed Cell Focus

Mild
Mild
Minimal
Mild

[Leukemia Mononuclear TGLS = 4-1]

Mammary Gland

Fibroadenoma

Multiple

[Fibroadenoma TGLS = 1,2-6+7+7.1]

Pancreas

Atrophy
Inflammation

Minimal
Chronic, Minimal

Pituitary Gland

Pars Distalis
Pars Distalis
Pars Distalis
Pars Distalis

Adenoma
Angiectasis
Cyst
Hyperplasia

Mild
Minimal
Mild

Note: ANGIECTASIS TGLs = 5-4

Note: ADENOMA TGLs = 5-4

Thyroid Gland

C Cell
C Cell

Carcinoma
Hyperplasia
Inflammation
Hydrometra
Hyperplasia
Polyp Stromal

Minimal
Chronic, Minimal
Mild
Mild

Note: POLYP STROMAL TGLs = 3-3

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:16
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 95	TRT#: 6 DOSE: 0.1% LF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 723 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Lung
Parathyroid Gland	Spleen	Stomach - Forestomach	Stomach - Glandular
Tongue	Urinary Bladder		

OBSERVATIONS

Kidney		Nephropathy	Minimal
Liver		Basophilic Focus	Mild
		Inflammation	Granulomatous, Chronic, Minimal
		Pigmentation	Minimal
Pancreas		Atrophy	Minimal
		Cytoplasmic Alteration	Minimal
		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal
Uterus	Endometrium	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 97

TRT#: 6

SEX: Female

DAY ON TEST: 725

DOSE: 0.1% LF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Stomach - Glandular

Intestine Small - Ileum
Tongue

Intestine Small - Jejunum
Uterus

Stomach - Forestomach

MISSING

Parathyroid Gland

OBSERVATIONS

Eye	Retina	Degeneration	Mild
	Cornea	Fibrosis	Mild
Harderian Gland		Hemorrhage	Minimal
		Inflammation	Chronic, Mild
Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
Lymph Node	Mandibular	Ectasia	Mild
	Mandibular	Hemorrhage	Marked
Note: HEMORRHAGE	TGLs = 3-2		
Note: ECTASIA	TGLs = 3-2		
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-7]			
Mesentery		Fibrosis	Moderate
		Inflammation	Chronic, Moderate
		Necrosis	Coagulative, Moderate
Note: NECROSIS	TGLs = 4-6		
Note: FIBROSIS	TGLs = 4-6		
Note: INFLAMMATION	TGLs = 4-6		
Pancreas		Atrophy	Minimal
Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Intermed	Cyst	Mild
	Pars Distalis	Hyperplasia	Moderate
Note: CYST	TGLs = 5-4		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 97

TRT#: 6

SEX: Female

DAY ON TEST: 725

DOSE: 0.1% LF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HYPERPLASIA TGLs = 5-4

Urinary Bladder

Inflammation

Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 99

TRT#: 6

SEX: Female

DAY ON TEST: 723

DOSE: 0.1% LF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Pancreas

Parathyroid Gland

Stomach - Forestomach

Stomach - Glandular

Urinary Bladder

Uterus

OBSERVATIONS

Kidney

Inflammation

Chronic, Mild

Nephropathy

Marked

Note: NEPHROPATHY TGLs = 3-2

Liver

Basophilic Focus

Moderate

Cytoplasmic Alteration

Minimal

Mammary Gland

Fibroadenoma

Hyperplasia

Moderate

[Fibroadenoma TGLS = 1-6]

[Hyperplasia TGLS = 2-5]

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA TGLs = 4-4

Thyroid Gland

C Cell

Hyperplasia

Minimal

Tongue

Inflammation

Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 100

TRT#: 6

SEX: Female

DAY ON TEST: 497

DOSE: 0.1% LF

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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
Nose	Ovary	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Tongue	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Malignant	
	Cortex	Vacuolization Cytoplasmic	Minimal
Note: PHEOCHROM MAL	TGLs = 4-8.1		
Clitoral Gland		Inflammation	Acute, Mild
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
Lung	Artery	Mineralization	Minimal
		Pheochromocytoma Malignant	Metastatic (Uncertain Primary Site)
Lymph Node	Mediastinal	Hemorrhage	Marked
	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mesenteric	Pigmentation	Minimal
Note: HEMORRHAGE	TGLs = 2-2		
Mammary Gland		Hyperplasia	Mild
Pancreas		Cytoplasmic Alteration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 101

TRT#: 6

SEX: Female

DAY ON TEST: 683

DOSE: 0.1% LF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Eye	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Stomach - Forestomach	Stomach - Glandular	Urinary Bladder	Uterus

MISSING

Parathyroid Gland	Tongue
-------------------	--------

OBSERVATIONS

Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Mild
	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	Minimal
Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mandibular	Ectasia	Moderate
[Ectasia TGLS = 5-1]			
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA TGLs = 1-8			
Ovary	Periovarn Tiss	Cyst	Moderate
Note: CYST TGLs = 4-3			
Pancreas		Atrophy	Minimal
		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
Thyroid Gland	C Cell	Hyperplasia	Minimal
Zymbal's Gland		Squamous Cell Carcinoma	
Note: SQUAM CEL CARC TGLs = 2-9			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 103

TRT#: 6

SEX: Female

DAY ON TEST: 723

DOSE: 0.1% LF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Heart	Intestine Small - Duodenum	Intestine Small - Jejunum	Pancreas
Parathyroid Gland	Stomach - Forestomach	Stomach - Glandular	Tongue
Urinary Bladder			

OBSERVATIONS

Intestine Small	Ileum, Serosa	Fibrosis	Mild
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Mild
		Hepatodiaphragmatic Nodule	
Note: ANOM HEPAT LOB TGLs = 10-1			
Lymph Node	Renal	Ectasia	Moderate
	Renal	Pigmentation	Mild
Note: PIGMENT TGLs = 8,9-2			
Note: ECTASIA TGLs = 8,9-2			
Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Marked
Note: FIBROADENOMA TGLs = 3,4,5-7+8			
[Hyperplasia TGLS = 2-7+8]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Minimal
	Pars Distalis	Pigmentation	Minimal
Note: ADENOMA TGLs = 11-4			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Moderate
[Adenoma TGLS = 6-4]			
Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 104

TRT#: 6

SEX: Female

DAY ON TEST: 723

DOSE: 0.1% LF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Pancreas

Parathyroid Gland

Stomach - Forestomach

Stomach - Glandular

Tongue

Urinary Bladder

OBSERVATIONS

Clitoral Gland

Adenoma

Inflammation

Chronic, Minimal

Note: ADENOMA TGLs = 1-5

Kidney

Nephropathy

Mild

Liver

Angiectasis

Minimal

Basophilic Focus

Mild

Inflammation

Granulomatous, Chronic, Mild

Fibroadenoma

Mammary Gland

Note: FIBROADENOMA TGLs = 3,4-7

Pituitary Gland

Pars Distalis

Angiectasis

Mild

Pars Distalis

Cyst

Mild

Pars Distalis

Hyperplasia

Mild

Pars Distalis

Pigmentation

Mild

Note: ANGIECTASIS TGLs = 9-4

Spleen

Inflammation

Granulomatous, Chronic, Moderate

Note: BACTERIAL STAIN, PAS, AND ACID FAST DID NOT AID IN UNDER-

Note: THE SPECIAL STAINS USED ON THE SPLEEN INCLUDING B&B

Note: STANDING THE ETIOLOGY FOR THE GRANULOMATOUS INFLAMMATION.

Note: POSITIVE CONTROL STAINS WERE AVAILABLE FOR COMPARISON.

Note: INFLAMMATION TGLs = 6,7-4+6

Thyroid Gland

C Cell

Hyperplasia

Minimal

Uterus

Endometrium

Hyperplasia

Minimal

Polyp Stromal

Note: POLYP STROMAL TGLs = 5-3

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 105

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 0.1% LF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Parathyroid Gland

Stomach - Forestomach

Stomach - Glandular

Tongue

Urinary Bladder

OBSERVATIONS

Eye

Retina

Degeneration

Marked

Kidney

Artery

Fibrosis

Mild

Transit Epithe

Hyperplasia

Mild

Nephropathy

Marked

Note: NEPHROPATHY TGLs = 2-2

Liver

Basophilic Focus

Minimal

Bile Duct

Hyperplasia

Minimal

Pancreas

Atrophy

Minimal

Artery, Perivascular

Inflammation

Necrotizing, Chronic, Mild

Inflammation

Chronic, Minimal

Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Hyperplasia

Mild

Note: ADENOMA TGLs = 3-4

Thyroid Gland

C Cell

Carcinoma

Note: [CARCINOMA] TGLs = 5-4

Uterus

Hydrometra

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 106

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 0.1% LF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Stomach - Forestomach

Stomach - Glandular

MISSING

Parathyroid Gland

OBSERVATIONS

Kidney

Nephropathy

Mild

Liver

Basophilic Focus

Minimal

Inflammation

Granulomatous, Chronic, Minimal

Inflammation

Chronic Active, Minimal

Necrosis

Coagulative, Minimal

Mammary Gland

Fibroadenoma

Hyperplasia

Moderate

[Fibroadenoma TGLS = 1-6]

Pancreas

Atrophy

Minimal

Inflammation

Chronic, Minimal

Pituitary Gland

Pars Distalis

Angiectasis

Moderate

Pars Distalis

Cyst

Moderate

Pars Distalis

Hyperplasia

Mild

Note: ANGIECTASIS TGLs = 2-4

Note: CYST TGLs = 2-4

Thyroid Gland

C Cell

Hyperplasia

Minimal

Tongue

Inflammation

Chronic, Minimal

Urinary Bladder

Inflammation

Chronic, Minimal

Uterus

Endometrium

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 107

TRT#: 6

SEX: Female

DAY ON TEST: 724

DOSE: 0.1% LF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Parathyroid Gland

Spleen

Stomach - Forestomach

Stomach - Glandular

Tongue

Urinary Bladder

Uterus

OBSERVATIONS

Clitoral Gland

Carcinoma

Note: CARCINOMA TGLs = 1-6

Kidney

Renal Tubule

Hyperplasia

Minimal

Transit Epithe

Hyperplasia

Minimal

Prox Con Tub

Inflammation

Acute, Minimal

Nephropathy

Mild

Liver

Basophilic Focus

Mild

Inflammation

Granulomatous, Chronic, Mild

Pancreas

Atrophy

Minimal

Inflammation

Chronic, Minimal

Pituitary Gland

Pars Intermed

Angiectasis

Minimal

Pars Distalis

Hyperplasia

Mild

Note: ANGIECTASIS TGLs = 4-4

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 109

TRT#: 6

SEX: Female

DAY ON TEST: 687

DOSE: 0.1% LF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Lung

Parathyroid Gland

Stomach - Forestomach

Stomach - Glandular

Urinary Bladder

Uterus

MISSING

Tongue

OBSERVATIONS

Kidney

Nephropathy

Mild

Liver

Basophilic Focus

Mild

Leukemia Mononuclear

Lymph Node

Mandibular

Ectasia

Mild

Mandibular

Hemorrhage

Mild

Note: HEMORRHAGE TGLs = 2-7

Mammary Gland

Fibroadenoma

[Fibroadenoma TGLS = 1-8+8.1]

Pancreas

Atrophy

Moderate

Inflammation

Chronic, Minimal

Pituitary Gland

Pars Distalis

Adenoma

Multiple

Pars Distalis

Angiectasis

Minimal

Pars Intermed

Angiectasis

Minimal

Note: ADENOMA TGLs = 5-4

Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 110

TRT#: 6

SEX: Female

DAY ON TEST: 543

DOSE: 0.1% LF

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Islets, Pancreatic
Lung	Nose	Ovary	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Intestine Small - Jejunum	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Moderate
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Mild
Liver		Fatty Change	Mild
Lymph Node	Mediastinal	Hemorrhage	Marked
	Mesenteric	Infiltration Cellular	Histiocyte, Mild
	Mandibular	Pigmentation	Minimal
	Mesenteric	Pigmentation	Minimal
Note: HEMORRHAGE	TGLs = 1-2		
Mammary Gland		Hyperplasia	Mild
Pancreas		Atrophy	Minimal
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Minimal
Spleen		Hematopoietic Cell Proliferation	Mild
Thymus		Depletion Lymphoid	Mild
Tongue		Inflammation	Chronic, Minimal
	Arteriole	Necrosis	Fibrinoid, Minimal
Uterus		Sarcoma Stromal	
Note: SARC STROMAL	TGLs = 3-13.1+13.2+13.3		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 111

TRT#: 6

DOSE: 0.1% LF

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 723

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Stomach - Forestomach

Intestine Small - Ileum
Stomach - Glandular

Intestine Small - Jejunum
Tongue

Parathyroid Gland
Urinary Bladder

OBSERVATIONS

Kidney
Liver

Nephropathy
Angiectasis
Basophilic Focus
Leukemia Mononuclear

Moderate
Mild
Minimal

[Leukemia Mononuclear TGLS = 7-1]

Lymph Node

Renal
Renal
Renal
Renal

Ectasia
Infiltration Cellular
Leukemia Mononuclear
Pigmentation

Mild
Histiocyte, Moderate
Moderate

Note: LEUKEMIA MONUC TGLs = 6-2

Note: ECTASIA TGLs = 6-2

Mammary Gland

Fibroadenoma
Hyperplasia

Multiple
Marked

Note: FIBROADENOMA TGLs = 1,2,3-7

Mesentery

Fibrosis
Inflammation

Mild
Granulomatous, Chronic, Mild

Note: INFLAMMATION TGLs = 8-6

Note: FIBROSIS TGLs = 8-6

Ovary

Periovarn Tiss

Cyst

Marked

Note: CYST TGLs = 4-3

Pancreas

Inflammation

Chronic, Minimal

Pituitary Gland

Pars Distalis
Pars Distalis

Cyst
Leukemia Mononuclear

Mild

Note: CYST TGLs = 9,10-4

Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 5-1]

Thyroid Gland

C Cell

Hyperplasia

Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 111

TRT#: 6

SEX: Female

DAY ON TEST: 723

DOSE: 0.1% LF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Uterus

Endometrium

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 112

TRT#: 6

SEX: Female

DAY ON TEST: 724

DOSE: 0.1% LF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Pancreas

Parathyroid Gland

Stomach - Forestomach

Stomach - Glandular

Tongue

Urinary Bladder

Uterus

OBSERVATIONS

Islets, Pancreatic

Hyperplasia

Mild

Kidney

Nephropathy

Moderate

Liver

Basophilic Focus

Mild

Cytoplasmic Alteration

Minimal

Bile Duct

Hyperplasia

Minimal

Inflammation

Granulomatous, Chronic, Minimal

Mesentery

Fibrosis

Moderate

Inflammation

Chronic, Moderate

Mineralization

Minimal

[Fibrosis TGLS = 2-5]

Ovary

Periovarn Tiss

Cyst

Moderate

[Cyst TGLS = 1-3]

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA TGLs = 3-4

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 113

TRT#: 6

SEX: Female

DAY ON TEST: 723

DOSE: 0.1% LF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Parathyroid Gland

Stomach - Forestomach

Stomach - Glandular

Urinary Bladder

Uterus

OBSERVATIONS

Kidney

Prox Con Tub

Inflammation

Acute, Minimal

Nephropathy

Mild

Liver

Basophilic Focus

Minimal

Serosa

Fibrosis

Minimal

Serosa

Hemorrhage

Minimal

Inflammation

Granulomatous, Chronic, Minimal

Fibroadenoma

Mammary Gland

[Fibroadenoma TGLS = 1-6]

Pancreas

Atrophy

Mild

Inflammation

Chronic, Minimal

Pituitary Gland

Pars Distalis

Adenoma

Pars Intermed

Angiectasis

Marked

Pars Distalis

Hyperplasia

Mild

Note: ADENOMA TGLs = 2-4

Skin

Subcut Tiss

Fibroma

Note: FIBROMA TGLs = 1-6

Tongue

Inflammation

Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 115

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 0.1% LF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Ear	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Parathyroid Gland	Stomach - Forestomach	Stomach - Glandular	Tongue
Urinary Bladder	Uterus		

OBSERVATIONS

Brain	Meninges	Hemorrhage Leukemia Mononuclear	Mild
Note: PROVIDE AN EXPLANATION FOR THE HEAD TILT.			
Note: HEMORRHAGE TGLs = 8-9			
Note: LEUKEMIA MONUC TGLs = 8-9			
Note: THE HEMORRHAGES OBSERVED IN THE MENINGES MAY BE REAL AND			
Eye	Retina	Cataract Degeneration	Marked Moderate
Note: CATARACT TGLs = 2-7			
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
		Neoplastic Nodule	
[Leukemia Mononuclear TGLS = 6-1]			
Lymph Node	Lumbar Pancreatic	Leukemia Mononuclear Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-2			
Note: LEUKEMIA MONUC TGLs = 4-4			
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA TGLs = 1-7			
Pancreas		Atrophy Inflammation	Minimal Chronic, Minimal
Pituitary Gland	Pars Distalis Pars Distalis	Adenoma Angiectasis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 115

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 0.1% LF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Pars Distalis

Cyst

Moderate

Pars Distalis

Hyperplasia

Minimal

Note: ADENOMA TGLs = 7-4

Note: CYST TGLs = 7-4

Note: ANGIECTASIS TGLs = 7-4

Spinal Cord

Hemorrhage

Mild

Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 3-6]

Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 117

TRT#: 6

SEX: Female

DAY ON TEST: 721

DOSE: 0.1% LF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Ovary

Parathyroid Gland

Stomach - Forestomach

Stomach - Glandular

Tongue

Urinary Bladder

INSUFFICIENT TISSUE

Eye

OBSERVATIONS

Clitoral Gland

Adenoma

Note: ADENOMA TGLs = 2-6

Kidney

Nephropathy

Mild

Liver

Basophilic Focus

Mild

Hepatodiaphragmatic Nodule

Inflammation

Granulomatous, Chronic, Minimal

[Hepatodiaphragmatic Nodule TGLS = 5-1]

Mammary Gland

Fibroadenoma

Note: [FIBROADENOMA] TGLs = 3-7

Pancreas

Inflammation

Chronic, Minimal

Pituitary Gland

Pars Distalis

Cyst

Mild

Pars Distalis

Hyperplasia

Moderate

Note: HYPERPLASIA TGLs = 6-4

Uterus

Polyp Stromal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 118

TRT#: 6

DOSE: 0.1% LF

SEX: Female

DISP: Moribund

DAY ON TEST: 548

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Ovary
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Tongue	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Mild
Clitoral Gland		Inflammation	Chronic, Minimal
Heart		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
Note: ALV BRON CARC TGLs = 5-2			
Intestine Large	Colon	Parasite Metazoan	Minimal
Kidney	Prox Con Tub	Congestion	Moderate
		Degeneration	Hyaline, Marked
		Nephropathy	Mild
Note: DEGEN TGLs = 8-4 [Degeneration TGLS = 9-4]			
Liver		Fatty Change	Mild
		Hemorrhage	Moderate
Note: FATTY CHANGE TGLs = 10-3 [Fatty Change TGLS = 10-3]			
Lung	Pleura	Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
		Alveolar/Bronchiolar Carcinoma	
Note: ALV BRON CARC TGLs = 7-13 [Alveolar/Bronchiolar Carcinoma TGLS = 4-1+2+2.1]			
Lymph Node	Mandibular	Hemorrhage	Minimal
	Mesenteric	Infiltration Cellular	Histiocyte, Mild
	Mesenteric	Pigmentation	Mild
Note: HEMORRHAGE TGLs = 2-9			
Mammary Gland		Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 118

TRT#: 6

SEX: Female

DAY ON TEST: 548

DOSE: 0.1% LF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Nose		Congestion	Marked
Note: CONGESTION	TGLs = 12		
Pancreas		Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Marked
	Pars Distalis	Cyst	Mild
Note: ANGIECTASIS	TGLs = 11-8		
Note: ADENOMA	TGLs = 11-8		
Thymus		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
Note: ALV BRON CARC	TGLs = 6-8.1		
Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 121

TRT#: 6

SEX: Female

DAY ON TEST: 596

DOSE: 0.1% LF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Esophagus
Eye	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Ovary	Parathyroid Gland
Salivary Glands	Skin	Tongue	Trachea
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Atrophy	Mild
	Cortex	Pigmentation	Mild
Note: PIGMENT	TGLs = 5-8		
Brain		Hydrocephalus	Mild
Clitoral Gland		Abscess	Moderate
Note: ABSCESS	TGLs = 3-10		
Harderian Gland		Inflammation	Chronic, Minimal
Kidney	Transit Epithe	Hyperplasia	Mild
		Leukemia Mononuclear	
		Nephropathy	Mild
Liver		Fatty Change	Moderate
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Mesenteric	Pigmentation	Minimal
Mammary Gland		Hyperplasia	Mild
Pancreas		Atrophy	Minimal
		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 6-8		
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 121

TRT#: 6

SEX: Female

DAY ON TEST: 596

DOSE: 0.1% LF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Forestomach	Leukemia Mononuclear	
	Glandular	Leukemia Mononuclear	
Thymus		Depletion Lymphoid	Mild
Thyroid Gland	C Cell	Hyperplasia	Mild
Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 125

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 0.1% LF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Stomach - Forestomach

Intestine Small - Ileum
Stomach - Glandular

Intestine Small - Jejunum
Tongue

Parathyroid Gland
Urinary Bladder

INSUFFICIENT TISSUE

Eye

OBSERVATIONS

Kidney
Liver
Mammary Gland
[Fibroadenoma TGLS = 2,3-6+7]
Mesentery

Nephropathy
Basophilic Focus
Fibroadenoma
Fibrosis
Inflammation
Necrosis

Mild
Minimal
Multiple
Moderate
Chronic Active, Moderate
Coagulative, Mild

Note: NECROSIS TGLs = 4-8
[Fibrosis TGLS = 4-8]
[Inflammation TGLS = 4-8]

Pancreas

Atrophy
Inflammation

Minimal
Chronic, Minimal

Pituitary Gland

Pars Distalis
Pars Distalis
Pars Distalis

Adenoma
Cyst
Hyperplasia

Minimal
Mild

[Adenoma TGLS = 5-4]

Thyroid Gland

C Cell

Hyperplasia

Minimal

Uterus

Hydrometra

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 126

TRT#: 6

DOSE: 0.1% LF

SEX: Female

DISP: Moribund

DAY ON TEST: 696

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Stomach - Forestomach

Intestine Small - Ileum
Stomach - Glandular

Intestine Small - Jejunum
Urinary Bladder

Parathyroid Gland

MISSING

Tongue

INSUFFICIENT TISSUE

Eye

OBSERVATIONS

Adrenal Gland

Cortex
Medulla
Cortex

Leukemia Mononuclear
Leukemia Mononuclear
Vacuolization Cytoplasmic

Mild

Note: LEUKEMIA MONUC TGLs = 7-8

Kidney

Leukemia Mononuclear
Nephropathy

Mild

Liver

Fatty Change
Leukemia Mononuclear
Necrosis

Moderate

Note: LEUKEMIA MONUC TGLs = 8-1

[Fatty Change TGLS = 8-1]

Lung

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 5-6+7

Lymph Node

Mandibular
Mediastinal

Leukemia Mononuclear
Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 4-7

Pancreas

Atrophy
Leukemia Mononuclear

Mild

Pituitary Gland

Pars Distalis
Pars Distalis
Pars Distalis
Pars Distalis

Adenoma
Cyst
Hyperplasia
Leukemia Mononuclear
Leukemia Mononuclear

Minimal
Moderate

Spleen

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 126

TRT#: 6

SEX: Female

DAY ON TEST: 696

DOSE: 0.1% LF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 6-9]

Thyroid Gland

C Cell

Hyperplasia

Minimal

Uterus

Endometrium

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 127

TRT#: 6

SEX: Female

DAY ON TEST: 725

DOSE: 0.1% LF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Ovary

Parathyroid Gland

Stomach - Forestomach

Stomach - Glandular

Tongue

Urinary Bladder

OBSERVATIONS

Clitoral Gland

Adenoma

Inflammation

Chronic, Minimal

Note: ADENOMA TGLs = 1-8

Kidney

Nephropathy

Mild

Liver

Basophilic Focus

Mild

Mammary Gland

Fibroadenoma

[Fibroadenoma TGLS = 2,3-6+7]

Pancreas

Atrophy

Minimal

Inflammation

Chronic, Minimal

Pituitary Gland

Pars Distalis

Cyst

Moderate

Pars Distalis

Hyperplasia

Moderate

Thyroid Gland

C Cell

Hyperplasia

Minimal

Uterus

Hydrometra

Mild

Pigmentation

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 129

TRT#: 6

DOSE: 0.1% LF

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Ear	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Spinal Cord	Stomach - Forestomach	Stomach - Glandular	Tongue
Urinary Bladder	Uterus		

MISSING

Parathyroid Gland

OBSERVATIONS

Brain	Meninges	Hemorrhage	Mild
Note: ACENT MENINGES.			
Note: ON THE BASE OF THE BRAIN PLUS THE HEMORRHAGES IN THE ADJ-			
Note: VERY LARGE PITUITARY ADENOMA WHICH CAUSED AN EXCAVATION			
Note: THE HEAD TILT IN THIS ANIMAL CAN BE EXPLAINED BY THE			
Note: HEMORRHAGE TGLs = 5-8			
Clitoral Gland		Cyst	Mild
Note: CYST TGLs = 2-6			
Eye	Retina	Degeneration	Mild
		Synechia	Mild
Note: SYNECHIA TGLs = 1-6			
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Minimal
		Cytoplasmic Alteration	Minimal
		Inflammation	Granulomatous, Chronic, Minimal
		Mixed Cell Focus	Mild
Lymph Node	Mandibular	Hemorrhage	Minimal
	Mandibular	Infiltration Cellular	Histiocyte, Mild
Note: INFILTRAT CELL TGLs = 4-2			
Note: HEMORRHAGE TGLs = 4-2			
Pancreas		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Pigmentation	Minimal
Note: ADENOMA TGLs = 3-4			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 129

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 0.1% LF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 5-4

Note: SEE NOTE UNDER BRAIN.

Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 130

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 0.1% LF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Lung

Parathyroid Gland

Stomach - Forestomach

Tongue

Urinary Bladder

Uterus

OBSERVATIONS

Clitoral Gland

Cyst

Moderate

Inflammation

Chronic Active, Mild

Note: CYST TGLs = 1-8

Note: INFLAMMATION TGLs = 1-8

Islets, Pancreatic

Adenoma

Kidney

Nephropathy

Moderate

Liver

Basophilic Focus

Minimal

Lymph Node

Renal

Hemorrhage

Minimal

Mesenteric

Infiltration Cellular

Histiocyte, Minimal

Renal

Infiltration Cellular

Histiocyte, Mild

Mesenteric

Pigmentation

Minimal

Renal

Pigmentation

Mild

Note: HEMORRHAGE TGLs = 5-2

Note: PIGMENT TGLs = 3-8

Mesentery

Fibrosis

Mild

Inflammation

Chronic Active, Moderate

Note: INFLAMMATION TGLs = 4-7

Note: FIBROSIS TGLs = 4-7

Pancreas

Inflammation

Chronic, Minimal

Pituitary Gland

Pars Distalis

Adenoma

Multiple

Pars Intermed

Cyst

Minimal

Note: ADENOMA TGLs = 6-4

Stomach

Artery, Glandular

Mineralization

Mild

Glandular, Muscularis

Mineralization

Mild

Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 131

TRT#: 6

SEX: Female

DAY ON TEST: 504

DOSE: 0.1% LF

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Clitoral Gland	Esophagus
Salivary Glands	Skin	Stomach - Forestomach	Thyroid Gland
Tongue	Trachea	Urinary Bladder	Uterus

MISSING

Parathyroid Gland	Pituitary Gland	Thymus
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AUTO PRECLUDES DIAG.

Bone Marrow	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Kidney	Pancreas	Stomach - Glandular	

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
Liver		Degeneration	Marked
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-3		
Note: DEGEN	TGLs = 4-3		
Lung		Hemorrhage	Minimal
		Leukemia Mononuclear	
Lymph Node	Mandibular	Infiltration Cellular	Histiocyte, Minimal
	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mandibular	Leukemia Mononuclear	
	Mandibular	Pigmentation	Minimal
	Mesenteric	Pigmentation	Minimal
Note: LEUKEMIA MONUC	TGLs = 1-9		
Mammary Gland		Hyperplasia	Mild
Nose	Lumen	Inflammation	Acute, Mild
Ovary		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 131

TRT#: 6

SEX: Female

DAY ON TEST: 504

DOSE: 0.1% LF

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Thrombosis

Marked

Note: LEUKEMIA MONUC TGLs = 2-3

Note: THROMBUS TGLs = 3-3

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 133

TRT#: 6

SEX: Female

DAY ON TEST: 725

DOSE: 0.1% LF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Stomach - Forestomach

Intestine Small - Ileum
Stomach - Glandular

Intestine Small - Jejunum
Tongue

Parathyroid Gland
Urinary Bladder

OBSERVATIONS

Clitoral Gland

Hyperplasia
Inflammation

Moderate
Chronic, Minimal

Note: HYPERPLASIA TGLs = 1,4-6

Kidney

Nephropathy

Mild

Liver

Basophilic Focus

Mild

Note: BASOPH FOCUS TGLs = 6-1

Mammary Gland

Fibroadenoma
Hyperplasia

Multiple
Marked

[Fibroadenoma TGLS = 2,3-7+8]

Pancreas

Inflammation

Chronic, Minimal

Pituitary Gland

Pars Distalis

Hyperplasia

Minimal

Thyroid Gland

C Cell

Hyperplasia

Minimal

Uterus

Cervix

Cyst

Mild

Cervix

Inflammation

Chronic, Minimal

Polyp Stromal

Note: CYST TGLs = 5-3

Note: THE CYST WAS LINED BY A STRATIFIED SQUAMOUS EPITHELIUM.

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 134

TRT#: 6

SEX: Female

DAY ON TEST: 676

DOSE: 0.1% LF

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Parathyroid Gland
Urinary Bladder

Stomach - Forestomach

Stomach - Glandular

Tongue

MISSING

Ovary

AUTO PRECLUDES DIAG.

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

OBSERVATIONS

Kidney
Liver

Autolysis
Basophilic Focus
Mixed Cell Focus
Sarcoma

Moderate
Mild
Minimal
Metastatic (Lung)

Lung
Note: SARCOMA TGLs = 7,8,9,10-6+7+8

Lymph Node
Note: CONGESTION TGLs = 3-2 Mandibular

Congestion

Minimal

Mammary Gland
Note: FIBROADENOMA TGLs = 1,2-9+10

Fibroadenoma

Multiple

Ovary
Note: A SEARCH OF THE BAGGED TISSUES WAS MADE FOR THE OVARIAN
Note: MASS DESCRIBED AS BEING ATTACHED TO THE UTERINE HORN.
Note: NO OVARIAN MASS WAS FOUND.

Pancreas
Pituitary Gland
Note: CYST TGLs = 11-4 Pars Distalis

Atrophy
Cyst

Minimal
Marked

Uterus
Note: SARC STROMAL TGLs = 5-3.1+3.2

Sarcoma Stromal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 135

TRT#: 6

SEX: Female

DAY ON TEST: 725

DOSE: 0.1% LF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Parathyroid Gland

Stomach - Forestomach

Stomach - Glandular

Tongue

Urinary Bladder

OBSERVATIONS

Clitoral Gland

Adenoma

Inflammation

Chronic Active, Mild

[Adenoma TGLS = 3-6]

Islets, Pancreatic

Adenoma

Note: ADENOMA TGLs = 5-4

Kidney

Nephropathy

Minimal

Liver

Basophilic Focus

Minimal

Mammary Gland

Fibroadenoma

Multiple

Note: THE TUMOR IN THE RIGHT THORACIC AREA WAS MUCH MORE

Note: FIBROUS THAN THE ONE ON THE LEFT.

[Fibroadenoma TGLS = 1,2-6+7+8]

Pancreas

Duct

Dilatation

Minimal

Pituitary Gland

Pars Distalis

Adenoma

Multiple

Note: ADENOMA TGLs = 8-4

Thyroid Gland

C Cell

Hyperplasia

Mild

Uterus

Polyp Stromal

[Polyp Stromal TGLS = 4-3]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 136

TRT#: 6

DOSE: 0.1% LF

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 725

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Ileum
Stomach - Forestomach

Intestine Small - Jejunum
Stomach - Glandular

Pancreas
Urinary Bladder

Parathyroid Gland

OBSERVATIONS

Intestine Small
Note: LEIOMYOMA TGLs = 3-5

Duodenum

Leiomyoma

Kidney
Liver

Nephropathy
Basophilic Focus
Fatty Change

Mild
Mild
Minimal

Bile Duct

Hepatodiaphragmatic Nodule
Hyperplasia
Inflammation
Necrosis

Minimal
Granulomatous, Chronic, Minimal
Coagulative, Minimal

Note: ANOM HEPAT LOB TGLs = 4-1

Mammary Gland
Note: FIBROADENOMA TGLs = 1,2-6+7

Fibroadenoma

Multiple

Pituitary Gland
Note: ADENOMA TGLs = 5-4

Pars Distalis

Adenoma

Thyroid Gland
Tongue
Uterus

C Cell

Hyperplasia
Inflammation
Hydrometra

Minimal
Chronic, Minimal
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 138

TRT#: 6

SEX: Female

DAY ON TEST: 725

DOSE: 0.1% LF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Pancreas

Parathyroid Gland

Urinary Bladder

Uterus

OBSERVATIONS

Kidney

Nephropathy

Moderate

Liver

Basophilic Focus

Mild

Hematopoietic Cell Proliferation

Minimal

Mixed Cell Focus

Moderate

Necrosis

Coagulative, Minimal

Mammary Gland

Fibroadenoma

Hyperplasia

Moderate

[Fibroadenoma TGLS = 3,4-6+7]

Pituitary Gland

Pars Distalis

Adenoma

Multiple

Note: ADENOMA

TGLs = 5-4

Stomach

Forestomach, Muscularis

Mineralization

Minimal

Glandular, Muscularis

Mineralization

Minimal

Thyroid Gland

C Cell

Hyperplasia

Minimal

Tongue

Hemorrhage

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 140

TRT#: 6

SEX: Female

DAY ON TEST: 723

DOSE: 0.1% LF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Stomach - Forestomach

Intestine Small - Ileum
Stomach - Glandular

Intestine Small - Jejunum
Urinary Bladder

Pancreas

MISSING

Parathyroid Gland

OBSERVATIONS

Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Marked
Liver		Angiectasis	Mild
		Basophilic Focus	Mild
	Bile Duct	Hyperplasia	Minimal
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1,2-6+7]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
[Adenoma TGLS = 3-4]			
[Cyst TGLS = 3-4]			
Thyroid Gland	C Cell	Carcinoma	
Tongue		Inflammation	Chronic, Minimal
	Arteriole	Necrosis	Fibrinoid, Minimal
Uterus	Endometrium	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 141

TRT#: 7

SEX: Female

DAY ON TEST: 718

DOSE: 1.0% MF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Intestine Small - Duodenum

Intestine Small - Ileum

Tongue

MISSING

Ovary

Parathyroid Gland

OBSERVATIONS

Adrenal Gland

Medulla

Angiectasis

Marked

Medulla

Hyperplasia

Mild

Medulla

Leukemia Mononuclear

Note: ANGIECTASIS TGLs = 5-5

Intestine Small

Epithelium, Jejunum

Pigmentation

Minimal

Kidney

Transit Epithe

Hyperplasia

Mild

Leukemia Mononuclear

Nephropathy

Mild

Liver

Angiectasis

Mild

Fatty Change

Minimal

Bile Duct

Hyperplasia

Mild

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 6-1]

Lymph Node

Mesenteric

Ectasia

Mild

Mesenteric

Leukemia Mononuclear

[Ectasia TGLS = 3-6]

[Leukemia Mononuclear TGLS = 3-6]

Pancreas

Atrophy

Minimal

Leukemia Mononuclear

Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Angiectasis

Mild

Pars Intermed

Angiectasis

Mild

Pars Distalis

Leukemia Mononuclear

Note: ADENOMA TGLs = 7-4

Note: ANGIECTASIS TGLs = 7-4

Spleen

Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 141

TRT#: 7

SEX: Female

DAY ON TEST: 718

DOSE: 1.0% MF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 4-6]

Stomach	Forestomach	Acanthosis	Minimal
	Glandular, Mucosa	Dilatation	Minimal
	Forestomach	Hyperplasia	Basal Cell, Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal
Urinary Bladder		Leukemia Mononuclear	
Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Mild

Note: HYDROMETRA TGLs = 2-3

Note: HYPERPLASIA TGLs = 2-3

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 142

TRT#: 7

SEX: Female

DAY ON TEST: 724

DOSE: 1.0% MF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Parathyroid Gland

Stomach - Forestomach

Stomach - Glandular

Tongue

Urinary Bladder

OBSERVATIONS

Clitoral Gland

Inflammation

Acute, Moderate

Note: INFLAMMATION TGLs = 1-6

Kidney

Nephropathy

Mild

Liver

Basophilic Focus

Minimal

Ovary

Periovarn Tiss

Cyst

Moderate

Note: CYST TGLs = 2-6

Pancreas

Cytoplasmic Alteration

Minimal

Pituitary Gland

Pars Distalis

Angiectasis

Mild

Pars Distalis

Hyperplasia

Mild

Pars Distalis

Infiltration Cellular

Histiocyte, Minimal

Pars Distalis

Pigmentation

Minimal

Note: NOTED IN THE PARS DISTALIS.

Note: A SMALL AGGREGATE OF PIGMENT LADEN MACROPHAGES WERE

[Pigmentation TGLs = 3-6]

Thyroid Gland

C Cell

Hyperplasia

Minimal

Uterus

Endometrium

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 144

TRT#: 7

SEX: Female

DAY ON TEST: 731

DOSE: 1.0% MF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Stomach - Forestomach

Intestine Small - Ileum
Tongue

Intestine Small - Jejunum
Urinary Bladder

Parathyroid Gland

MISSING

Ovary

OBSERVATIONS

Harderian Gland

Inflammation

Chronic, Mild

Note: INFLAMMATION TGLs = 4-6

Kidney

Nephropathy

Mild

Note: NEPHROPATHY TGLs = 3-2

Liver

Basophilic Focus

Minimal

Mammary Gland

Galactocele

Mild

Hyperplasia

Moderate

Note: HYPERPLASIA TGLs = 1-6

Note: GALACTOCELE TGLs = 1-6

Pancreas

Cytoplasmic Alteration

Minimal

Pituitary Gland

Pars Distalis

Adenoma

Multiple

Pars Distalis

Cyst

Mild

Pars Nervosa

Cyst

Minimal

Note: ADENOMA TGLs = 5-4

Stomach

Artery, Glandular

Mineralization

Mild

Glandular, Muscularis

Mineralization

Mild

Thyroid Gland

C Cell

Carcinoma

Uterus

Polyp Stromal

Note: POLYP STROMAL TGLs = 2-3

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 145

TRT#: 7

DOSE: 1.0% MF

SEX: Female

DISP: Moribund

DAY ON TEST: 707

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Urinary Bladder

Uterus

MISSING

Tongue

OBSERVATIONS

Clitoral Gland

Adenoma

Note: ADENOMA TGLs = 4-7

Kidney

Renal Tubule

Hyperplasia

Minimal

Renal Tubule

Hyperplasia

Cystic, Moderate

Nephropathy

Marked

Note: [NEPHROPATHY] TGLs = 9,8-2+2.1

Liver

Basophilic Focus

Mild

Fatty Change

Minimal

Leukemia Mononuclear

[Basophilic Focus TGLs = 10-1]

Lung

Foreign Body

Minimal

Inflammation

Chronic Active, Mild

Note: WITHIN THE AREA OF INFLAMMATION WAS A POLARIZABLE

Note: FOREIGN BODY (POSSIBLY PLANT MATERIAL).

Mammary Gland

Fibroadenoma

Note: FIBROADENOMA TGLs = 3-7

Ovary

Periovarn Tiss

Cyst

Marked

Note: CYST TGLs = 7-6

Pancreas

Inflammation

Chronic, Minimal

Parathyroid Gland

Hyperplasia

Mild

Pituitary Gland

Pars Distalis

Angiectasis

Mild

Pars Intermed

Angiectasis

Minimal

Pars Distalis

Hyperplasia

Mild

Note: ANGIECTASIS TGLs = 11-4

Note: ANGIECTASIS TGLs = 11-4

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:16
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 145

TRT#: 7
DOSE: 1.0% MF

SEX: Female
DISP: Moribund

DAY ON TEST: 707
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Forestomach	Acanthosis	Mild
	Glandular, Mucosa	Dilatation	Mild
	Forestomach	Hyperkeratosis	Moderate
	Forestomach	Inflammation	Necrotizing, Chronic Active, Marked
Thyroid Gland	C Cell	Carcinoma	
	C Cell	Hyperplasia	Minimal

Note: CARCINOMA TGLs = 5-4

PRIMARY CAUSE OF DEATH

-

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 147

TRT#: 7

SEX: Female

DAY ON TEST: 725

DOSE: 1.0% MF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Stomach - Glandular

Pancreas
Urinary Bladder

Parathyroid Gland

Stomach - Forestomach

MISSING

Intestine Small - Jejunum

Ovary

OBSERVATIONS

Intestine Small
Kidney
Liver

Epithelium, Ileum

Pigmentation
Nephropathy
Basophilic Focus
Inflammation
Fibroadenoma

Mild
Minimal
Mild
Granulomatous, Chronic, Minimal

Mammary Gland

Note: FIBROADENOMA TGLs = 1-6

Pituitary Gland

Note: ADENOMA TGLs = 2-4

Pars Distalis

Adenoma

Thyroid Gland

C Cell

Hyperplasia
Inflammation

Minimal
Chronic, Minimal

Tongue

Uterus

Endometrium

Hyperplasia
Polyp Stromal

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:16
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 149	TRT#: 7 DOSE: 1.0% MF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 724 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Pancreas
Parathyroid Gland	Stomach - Forestomach	Stomach - Glandular	Urinary Bladder

MISSING

Ovary

OBSERVATIONS

Kidney	Renal Tubule	Hyperplasia Nephropathy	Mild Mild
Liver		Basophilic Focus	Mild
Pituitary Gland	Bile Duct	Hyperplasia	Minimal
	Pars Distalis	Cyst	Mild
	Pars Intermed	Cyst	Minimal
Thyroid Gland	Pars Distalis	Hyperplasia	Mild
	C Cell	Hyperplasia	Minimal
Tongue		Inflammation	Chronic, Minimal
Uterus		Cyst	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 150

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 1.0% MF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum

Intestine Small - Jejunum

Stomach - Forestomach

Urinary Bladder

MISSING

Ovary

Parathyroid Gland

OBSERVATIONS

Intestine Small

Epithelium, Ileum

Pigmentation

Minimal

Kidney

Transit Epithe

Hyperplasia

Mild

Nephropathy

Moderate

Liver

Basophilic Focus

Minimal

Fatty Change

Minimal

Lymph Node

Mesenteric

Hemorrhage

Mild

Mesenteric

Infiltration Cellular

Histiocyte, Minimal

Mesenteric

Pigmentation

Minimal

Note: PIGMENT TGLs = 5-6

Note: HEMORRHAGE TGLs = 5-6

Mammary Gland

Adenocarcinoma

Hyperplasia

Moderate

Note: ADENOCARC TGLs = 1-6

Pancreas

Atrophy

Minimal

Inflammation

Chronic, Minimal

Pituitary Gland

Pars Distalis

Adenoma

Multiple

Note: ADENOMA TGLs = 7-4

Stomach

Epithelium, Glandular

Pigmentation

Minimal

Thyroid Gland

C Cell

Adenoma

C Cell

Hyperplasia

Minimal

Note: ADENOMA TGLs = 2,3-4

Tongue

Inflammation

Chronic, Minimal

Uterus

Polyp Stromal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 152

TRT#: 7

SEX: Female

DAY ON TEST: 666

DOSE: 1.0% MF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Pancreas	Parathyroid Gland	Spleen	Tongue
Urinary Bladder	Vagina		

MISSING

Ovary

OBSERVATIONS

Islets, Pancreatic		Adenoma	
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Mild
	Bile Duct	Hyperplasia	Minimal
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 3,5,6-7		
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 9-4		
Skin		Inflammation	Necrotizing, Acute, Moderate
Note: INFLAMMATION	TGLs = 2-6		
Stomach	Forestomach, Muscularis	Mineralization	Minimal
	Glandular, Muscularis	Mineralization	Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal
Uterus		Polyp Stromal	
Note: POLYP STROMAL	TGLs = 7-3		
Vagina			
Note: WITHIN THE LUMEN OF THE VAGINA WAS AN ENDOMETRIAL			
Note: STROMAL POLY WHICH SHOWED EXTENSIVE NECROSIS AND			
Note: HEMORRHAGE.			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 153

TRT#: 7

SEX: Female

DAY ON TEST: 723

DOSE: 1.0% MF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Stomach - Forestomach

Intestine Small - Jejunum
Stomach - Glandular

Pancreas
Urinary Bladder

Parathyroid Gland

MISSING

Ovary

OBSERVATIONS

Eye

Retina

Cataract
Degeneration
Synechia

Marked
Marked
Marked

Note: CATARACT TGLs = 2-6

Note: SYNECHIA TGLs = 3-6

Intestine Small
Kidney
Liver

Epithelium, Ileum

Pigmentation
Nephropathy
Basophilic Focus
Inflammation

Minimal
Mild
Mild
Granulomatous, Chronic, Mild

Pituitary Gland

Pars Distalis
Pars Distalis
Pars Intermed

Adenoma
Cyst
Cyst

Mild

Thyroid Gland

C Cell

Hyperplasia
Inflammation

Minimal
Chronic, Minimal

Tongue

Uterus

Polyp Stromal

Note: POLYP STROMAL TGLs = 1-3

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 156

TRT#: 7

SEX: Female

DAY ON TEST: 724

DOSE: 1.0% MF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Tongue

Intestine Small - Jejunum
Urinary Bladder

Pancreas

Parathyroid Gland

MISSING

Ovary

OBSERVATIONS

Intestine Small
Kidney

Epithelium, Ileum
Renal Tubule

Pigmentation
Hyperplasia
Nephropathy

Mild
Mild
Mild

Liver

Hepatodiaphragmatic Nodule
Inflammation

Minimal
Granulomatous, Chronic, Minimal

Note: SOME INFLAMMED AREAS OF THE LIVER.

Note: A LIGHT YELLOW PIGMENT WAS NOTED WITHIN MACROPHAGES IN

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA TGLs = 1-4

Stomach

Glandular, Mucosa
Forestomach, Muscularis
Epithelium, Glandular

Dilatation
Mineralization
Pigmentation

Mild
Minimal
Minimal

Thyroid Gland

C Cell

Hyperplasia

Minimal

Uterus

Polyp Stromal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 157

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 1.0% MF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Urinary Bladder

Intestine Small - Ileum

Intestine Small - Jejunum

Tongue

MISSING

Ovary

Parathyroid Gland

OBSERVATIONS

Adrenal Gland

Cortex

Leukemia Mononuclear

Medulla

Leukemia Mononuclear

Medulla

Pheochromocytoma Benign

Note: LEUKEMIA MONUC TGLs = 3-2

Kidney

Leukemia Mononuclear

Nephropathy

Moderate

Liver

Fatty Change

Mild

Lymph Node

Mesenteric

Infiltration Cellular

Histiocyte, Minimal

Mandibular

Leukemia Mononuclear

Mesenteric

Leukemia Mononuclear

Pancreatic

Leukemia Mononuclear

Mandibular

Necrosis

Coagulative, Minimal

Note: LEUKEMIA MONUC TGLs = 2-4

[Leukemia Mononuclear TGLs = 5-6]

[Necrosis TGLs = 7-6]

Pancreas

Atrophy

Minimal

Parathyroid Gland

Note: 0

Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Leukemia Mononuclear

Note: ADENOMA TGLs = 4-4

Note: LEUKEMIA MONUC TGLs = 4-4

Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLs = 1-6]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:16
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 157

TRT#: 7
DOSE: 1.0% MF

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Forestomach	Acanthosis	Minimal
	Glandular, Mucosa	Dilatation	Minimal
	Forestomach	Hyperplasia	Basal Cell, Minimal
Thyroid Gland	C Cell	Hyperplasia	Mild
Uterus	Endometrium	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 158

TRT#: 7

SEX: Female

DAY ON TEST: 709

DOSE: 1.0% MF

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla

Urinary Bladder

MISSING

Intestine Small - Ileum

Ovary

Parathyroid Gland

Tongue

OBSERVATIONS

Adrenal Gland

Cortex

Congestion

Mild

Note: CONGESTION TGLs = 5-2

Intestine Small

Duodenum

Autolysis

Minimal

Jejunum

Autolysis

Marked

Kidney

Autolysis

Mild

Nephropathy

Moderate

Note: NEPHROPATHY TGLs = 6-2

Liver

Basophilic Focus

Minimal

Bile Duct

Hyperplasia

Minimal

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 7-1

Lung

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 2,3-6

Pancreas

Leukemia Mononuclear

Pituitary Gland

Pars Distalis

Cyst

Mild

Pars Distalis

Hyperplasia

Mild

Spleen

Depletion Lymphoid

Moderate

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 4-5]

Stomach

Forestomach

Hyperplasia

Basal Cell, Minimal

Glandular, Muscularis

Mineralization

Minimal

Thyroid Gland

C Cell

Adenoma

C Cell

Hyperplasia

Moderate

Uterus

Cyst

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 159

TRT#: 7

SEX: Female

DAY ON TEST: 724

DOSE: 1.0% MF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Pancreas

Parathyroid Gland

Spleen

Stomach - Forestomach

Tongue

Urinary Bladder

Uterus

OBSERVATIONS

Clitoral Gland

Inflammation

Chronic Active, Marked

Note: INFLAMMATION TGLs = 1-6

Kidney

Nephropathy

Mild

Liver

Inflammation

Granulomatous, Chronic, Minimal

Mixed Cell Focus

Minimal

Lymph Node

Mandibular

Hemorrhage

Mild

Mediastinal

Hemorrhage

Moderate

Note: HEMORRHAGE TGLs = 3-4

Note: HEMORRHAGE TGLs = 2-5

Mesentery

Fibrosis

Marked

Note: MINERALIZATION TGLs = 10-2

Note: FIBROSIS TGLs = 10-2

Mineralization

Mild

Ovary

Periovarn Tiss

Cyst

Marked

Note: CYST TGLs = 4-7

Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Angiectasis

Moderate

Pars Distalis

Hyperplasia

Mild

Note: ADENOMA TGLs = 11-4

Note: ANGIECTASIS TGLs = 11-4

Stomach

Glandular, Mucosa

Dilatation

Mild

Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 160

TRT#: 7

SEX: Female

DAY ON TEST: 660

DOSE: 1.0% MF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Parathyroid Gland

Stomach - Forestomach

Stomach - Glandular

Tongue

Urinary Bladder

Uterus

MISSING

Ovary

OBSERVATIONS

Kidney

Nephropathy

Mild

Note: NEPHROPATHY TGLs = 5-2

Liver

Basophilic Focus

Minimal

Leukemia Mononuclear

Lung

Infiltration Cellular

Histiocyte, Minimal

Note: INFILTRAT CELL TGLs = 4-6

Mammary Gland

Adenocarcinoma

Fibroadenoma

Note: FIBROADENOMA TGLs = 2-8

Note: ADENOCARC TGLs = 1-7

Pancreas

Atrophy

Minimal

Leukemia Mononuclear

Pituitary Gland

Pars Distalis

Adenoma

Multiple

Note: ADENOMA TGLs = 6-4

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 3-5

Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 161

TRT#: 7

SEX: Female

DAY ON TEST: 521

DOSE: 1.0% MF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Lung
Pituitary Gland
Stomach - Glandular
Urinary Bladder

Bone
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Salivary Glands
Thymus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Jejunum
Ovary
Spleen
Thyroid Gland

Brain
Intestine Large - Colon
Islets, Pancreatic
Parathyroid Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Adrenal Gland

Clitoral Gland
Intestine Small
Kidney
Liver

Cortex
Cortex

Epithelium, Ileum

Angiectasis
Hyperplasia
Inflammation
Pigmentation
Nephropathy
Basophilic Focus
Hemorrhage
Inflammation
Inflammation
Necrosis

Minimal
Minimal
Chronic, Minimal
Minimal
Minimal
Mild
Mild
Acute, Minimal
Chronic Active, Minimal
Coagulative, Minimal

Note: NECROSIS TGLs = 2-3
[Basophilic Focus TGLS = 2-3]

Lymph Node

Mammary Gland
Nose
Pancreas
Skin

Mesenteric
Mesenteric

Glands

Subcut Tiss

Infiltration Cellular
Pigmentation
Hyperplasia
Inflammation
Inflammation
Fibroma

Histiocyte, Mild
Minimal
Minimal
Acute, Minimal
Chronic, Minimal

[Fibroma TGLS = 1-13]
Uterus

Hydrometra
Polyp Stromal

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 162

TRT#: 7

SEX: Female

DAY ON TEST: 724

DOSE: 1.0% MF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Tongue

Intestine Small - Jejunum
Urinary Bladder

Parathyroid Gland

Stomach - Forestomach

OBSERVATIONS

Intestine Small
Kidney
Note: NEPHROPATHY TGLs = 5-2
Liver

Epithelium, Ileum

Pigmentation
Nephropathy

Mild
Mild

Lymph Node
Note: HEMORRHAGE TGLs = 8-5

Mandibular
Mandibular

Basophilic Focus
Inflammation
Hemorrhage
Infiltration Cellular

Mild
Granulomatous, Chronic, Minimal
Moderate
Histiocyte, Mild

Mammary Gland
[Fibroadenoma TGLS = 1-7]

Fibroadenoma

Ovary
[Cyst TGLS = 2-6]

Periovarn Tiss

Cyst

Marked

Pancreas
Pituitary Gland

Pars Distalis
Pars Distalis
Pars Distalis

Atrophy
Adenoma
Cyst
Hyperplasia

Mild
Multiple
Mild
Minimal

Note: ADENOMA TGLs = 7-4
Spleen

Hyperplasia
Inflammation

Lymphoid, Moderate
Granulomatous, Chronic, Moderate

Note: HYPERPLASIA TGLs = 4-6
[Hyperplasia TGLS = 4-6]

Stomach
Thyroid Gland
Uterus
Note: POLYP STROMAL TGLs = 3-3

Epithelium, Glandular
C Cell

Pigmentation
Hyperplasia
Polyp Stromal

Minimal
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 163

TRT#: 7

SEX: Female

DAY ON TEST: 724

DOSE: 1.0% MF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Stomach - Forestomach

Intestine Small - Jejunum
Stomach - Glandular

Pancreas
Urinary Bladder

Parathyroid Gland
Uterus

MISSING

Ovary

OBSERVATIONS

Intestine Small
Kidney
Liver
Lung

Epithelium, Ileum

Alveolar Epith

Pigmentation
Nephropathy
Basophilic Focus
Hyperplasia
Infiltration Cellular

Minimal
Mild
Minimal
Mild
Histiocyte, Mild

Note: INFILTRAT CELL TGLs = 1,2,3-6
Note: HYPERPLASIA TGLs = 1,2,3-6

Lymph Node

Renal
Pancreatic
Renal
Pancreatic
Renal

Hemorrhage
Infiltration Cellular
Infiltration Cellular
Pigmentation
Pigmentation

Minimal
Histiocyte, Mild
Histiocyte, Mild
Mild
Mild

Note: PIGMENT TGLs = 4-4
Note: HEMORRHAGE TGLs = 5-2
Note: PIGMENT TGLs = 5-2

Pituitary Gland

Pars Distalis
Pars Intermed

Adenoma
Cyst

Multiple
Minimal

Note: ADENOMA TGLs = 6-4

Thyroid Gland
Tongue

C Cell

Hyperplasia
Hemorrhage

Minimal
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:16
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 164	TRT#: 7 DOSE: 1.0% MF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 723 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Pancreas
Parathyroid Gland	Stomach - Forestomach	Stomach - Glandular	Urinary Bladder

MISSING

Ovary

OBSERVATIONS

Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Mild
Lung	Artery	Mineralization	Minimal
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-5		
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
Note: ADENOMA	TGLs = 2-4		
Thyroid Gland	C Cell	Hyperplasia	Mild
Tongue		Inflammation	Chronic, Minimal
	Arteriole	Necrosis	Fibrinoid, Marked
Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:16
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 166	TRT#: 7 DOSE: 1.0% MF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 724 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum	Parathyroid Gland	Spleen	Stomach - Forestomach
Stomach - Glandular	Tongue	Urinary Bladder	Uterus

MISSING

Ovary

OBSERVATIONS

Intestine Small	Epithelium, Ileum	Pigmentation	Minimal
	Epithelium, Jejunum	Pigmentation	Minimal
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
Pancreas		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 167

TRT#: 7

SEX: Female

DAY ON TEST: 724

DOSE: 1.0% MF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Stomach - Forestomach

Intestine Small - Ileum
Tongue

Intestine Small - Jejunum
Urinary Bladder

Parathyroid Gland
Uterus

MISSING

Ovary

OBSERVATIONS

Kidney
Liver

Nephropathy
Basophilic Focus
Fatty Change

Mild
Mild
Minimal

Mammary Gland

Adenocarcinoma
Fibroadenoma
Hyperplasia

Moderate

Note: ADENOCARC TGLs = 2-7

Note: FIBROADENOMA TGLs = 1-6

Pancreas

Atrophy
Inflammation

Minimal
Chronic, Minimal

Pituitary Gland

Pars Distalis
Pars Distalis

Adenoma
Angiectasis

Multiple
Moderate

Note: ADENOMA TGLs = 4-4

Stomach

Thyroid Gland

Epithelium, Glandular
C Cell

Pigmentation
Hyperplasia

Mild
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 168

TRT#: 7

SEX: Female

DAY ON TEST: 731

DOSE: 1.0% MF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Lung

Parathyroid Gland

Urinary Bladder

OBSERVATIONS

Adrenal Gland

Cortex

Hyperplasia

Minimal

Medulla

Pheochromocytoma Benign

Note: PHEOCHROM BGN TGLs = 7,8-1

Clitoral Gland

Adenoma

Inflammation

Chronic Active, Moderate

Note: ADENOMA TGLs = 1-6

Kidney

Renal Tubule

Adenoma

Nephropathy

Moderate

Note: ADENOMA TGLs = 5-2

Liver

Basophilic Focus

Inflammation

Necrosis

Fibroadenoma

Hyperplasia

Mild

Granulomatous, Chronic, Minimal

Coagulative, Minimal

Mammary Gland

Note: FIBROADENOMA TGLs = 2-6

Ovary

Periovarn Tiss

Cyst

Marked

Note: CYST TGLs = 3-5

Pancreas

Cytoplasmic Alteration

Minimal

Pituitary Gland

Pars Distalis

Adenoma

Multiple

Note: ADENOMA TGLs = 6-4

Spleen

Hyperplasia

Inflammation

Lymphoid, Moderate

Granulomatous, Chronic, Moderate

Note: INFLAMMATION TGLs = 4-7

Note: HYPERPLASIA TGLs = 4-7

Stomach

Forestomach, Submucosa

Mineralization

Minimal

Glandular, Muscularis

Mineralization

Moderate

Tongue

Inflammation

Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 168

TRT#: 7

SEX: Female

DAY ON TEST: 731

DOSE: 1.0% MF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Uterus	Endometrium	Hyperplasia	Minimal
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PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 170

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 1.0% MF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Tongue

Intestine Small - Jejunum
Urinary Bladder

Parathyroid Gland
Uterus

Stomach - Forestomach

MISSING

Ovary

OBSERVATIONS

Intestine Small
Kidney
Liver

Epithelium, Ileum

Pigmentation
Nephropathy
Basophilic Focus

Minimal
Minimal
Minimal

Inflammation
Pigmentation

Granulomatous, Chronic, Minimal

Minimal

Lung

[Alveolar/Bronchiolar Adenoma TGLS = 2-7]

Alveolar/Bronchiolar Adenoma

Pancreas

Atrophy
Cytoplasmic Alteration
Inflammation

Mild
Mild

Chronic, Minimal

Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 4-4]

Spleen

Hyperplasia
Inflammation

Lymphoid, Marked

Granulomatous, Chronic, Moderate

[Hyperplasia TGLS = 3-6]

[Inflammation TGLS = 3-6]

Stomach

Epithelium, Glandular

Pigmentation

Minimal

Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 171

TRT#: 7

SEX: Female

DAY ON TEST: 724

DOSE: 1.0% MF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Stomach - Forestomach

Intestine Small - Ileum
Stomach - Glandular

Intestine Small - Jejunum
Urinary Bladder

Parathyroid Gland

MISSING

Ovary

OBSERVATIONS

Kidney	Papilla	Necrosis	Coagulative, Mild
		Nephropathy	Mild
Liver		Basophilic Focus	Minimal
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Minimal
Pancreas		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
	Pars Distalis	Pigmentation	Moderate
Note: ADENOMA	TGLs = 2-5		
Note: PIGMENT	TGLs = 2-5		
Thyroid Gland	C Cell	Hyperplasia	Minimal
Tongue		Inflammation	Chronic, Minimal
Uterus		Cyst	Mild
		Sarcoma Stromal	
Note: SARC STROMAL	TGLs = 1-3+4		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 172

TRT#: 7

DOSE: 1.0% MF

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 724

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Pancreas

Tongue

Intestine Small - Duodenum

Parathyroid Gland

Urinary Bladder

Intestine Small - Ileum

Stomach - Forestomach

Uterus

Intestine Small - Jejunum

Stomach - Glandular

MISSING

Ovary

OBSERVATIONS

Adrenal Gland

Note: PHEOCHROM BGN TGLs = 3-2

Medulla

Pheochromocytoma Benign

Clitoral Gland

Note: CYST TGLs = 1-6

Cyst

Moderate

Inflammation

Chronic, Minimal

Kidney

Liver

Nephropathy

Basophilic Focus

Clear Cell Focus

Inflammation

Mixed Cell Focus

Hyperplasia

Moderate

Minimal

Minimal

Granulomatous, Chronic, Minimal

Mild

Moderate

Mammary Gland

Note: HYPERPLASIA TGLs = 2-6

Pituitary Gland

Pars Distalis

Pars Distalis

Pars Distalis

Adenoma

Cyst

Hyperplasia

Marked

Mild

Note: CYST TGLs = 5-4

Note: ADENOMA TGLs = 5-4

Thyroid Gland

C Cell

C Cell

Adenoma

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:16
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 174	TRT#: 7 DOSE: 1.0% MF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL			
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Stomach - Forestomach
Stomach - Glandular	Tongue	Urinary Bladder	Uterus
MISSING			
Ovary	Parathyroid Gland		
OBSERVATIONS			
Kidney	Transit Epithe	Hyperplasia Nephropathy	Mild Mild
Liver		Basophilic Focus Hepatodiaphragmatic Nodule	Minimal
[Hepatodiaphragmatic Nodule TGLS = 1-1]			
Pancreas		Atrophy	Minimal
Pituitary Gland	Pars Distalis Pars Distalis	Adenoma Cyst	Mild
Note: ADENOMA TGLs = 2-4			
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 175

TRT#: 7

SEX: Female

DAY ON TEST: 731

DOSE: 1.0% MF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Urinary Bladder

Intestine Small - Jejunum
Uterus

Stomach - Forestomach

Stomach - Glandular

MISSING

Ovary

Parathyroid Gland

OBSERVATIONS

Eye

Retina

Cataract
Degeneration
Synechia

Moderate
Marked
Moderate

Note: CATARACT TGLs = 1-6

Note: SYNECHIA TGLs = 5-6

Intestine Small

Epithelium, Ileum

Pigmentation

Minimal

Kidney

Nephropathy

Mild

Note: NEPHROPATHY TGLs = 2-2

Liver

Basophilic Focus

Minimal

Pancreas

Atrophy

Minimal

Inflammation

Chronic, Minimal

Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Angiectasis

Moderate

Pars Intermed

Angiectasis

Moderate

[Adenoma TGLS = 4-4]

[Angiectasis TGLS = 3-4]

Tongue

Inflammation

Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 176

TRT#: 7

SEX: Female

DAY ON TEST: 724

DOSE: 1.0% MF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Large - Cecum

Intestine Small - Duodenum

Intestine Small - Jejunum

Stomach - Forestomach

Stomach - Glandular

Tongue

Urinary Bladder

Uterus

MISSING

Parathyroid Gland

OBSERVATIONS

Intestine Small

Epithelium, Ileum

Pigmentation

Minimal

Kidney

Transit Epithe

Hyperplasia

Mild

Liver

Nephropathy

Mild

Basophilic Focus

Minimal

Ovary

Bile Duct

Hyperplasia

Minimal

Periovarn Tiss

Cyst

Moderate

[Cyst TGLS = 1-6]

Pancreas

Inflammation

Chronic, Minimal

Pituitary Gland

Pars Distalis

Angiectasis

Minimal

Pars Intermed

Cyst

Mild

Pars Distalis

Hyperplasia

Moderate

Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 177

TRT#: 7

DOSE: 1.0% MF

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 725

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Stomach - Forestomach

Intestine Small - Ileum
Stomach - Glandular

Intestine Small - Jejunum
Tongue

Parathyroid Gland
Urinary Bladder

MISSING

Ovary

OBSERVATIONS

Clitoral Gland
Note: ADENOMA TGLs = 1-5

Adenoma

Kidney
Note: STAND SINCE THIS IS SUPPOSEDLY A FRESH NECROPSY.

Nephropathy

Minimal

Note: NEPHROPATHY TGLs = 6-2
Note: MANY PCT APPEAR TO BE AUTOLYZED. THIS IS HARD TO UNDER-

Liver

Basophilic Focus
Cyst Multilocular
Degeneration

Mild
Moderate
Mild

Bile Duct

Hyperplasia
Leukemia Mononuclear
Mixed Cell Focus

Minimal
Marked

Lymph Node

Mesenteric
Mesenteric
Mesenteric

Infiltration Cellular
Leukemia Mononuclear
Pigmentation

Histiocyte, Mild
Minimal

Note: PIGMENT TGLs = 5-2
Note: LEUKEMIA MONUC TGLs = 5-2

Pancreas

Atrophy
Inflammation

Minimal
Chronic, Minimal

Pituitary Gland

Pars Distalis
Pars Distalis

Cyst

Minimal

Uterus

Hyperplasia
Adenocarcinoma
Polyp Stromal

Mild

Note: ADENOCARC TGLs = 2,3,4-3+3.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:16
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 177

TRT#: 7
DOSE: 1.0% MF

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 725
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:16
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 179	TRT#: 7 DOSE: 1.0% MF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 724 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Parathyroid Gland
Stomach - Forestomach	Stomach - Glandular	Tongue	Urinary Bladder

MISSING

Ovary

OBSERVATIONS

Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Minimal
		Inflammation	Granulomatous, Chronic, Minimal
Lung	Artery	Mineralization	Minimal
Pancreas		Atrophy	Minimal
		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Moderate
Thyroid Gland	C Cell	Hyperplasia	Minimal
Uterus		Inflammation	Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 181

TRT#: 7

SEX: Female

DAY ON TEST: 731

DOSE: 1.0% MF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Stomach - Forestomach

Intestine Small - Ileum
Stomach - Glandular

Intestine Small - Jejunum
Tongue

Parathyroid Gland
Urinary Bladder

MISSING

Ovary

OBSERVATIONS

Eye	Retina	Degeneration	Mild
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Mild
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
Note: FIBROADENOMA TGLs = 2-6			
Note: HYPERPLASIA TGLs = 4-6			
Pancreas		Atrophy	Minimal
		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Mild
Thyroid Gland	C Cell	Hyperplasia	Minimal
Uterus	Endometrium	Hyperplasia	Mild
		Polyp Stromal	
Note: POLYP STROMAL TGLs = 3-3.1			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 182

TRT#: 7

SEX: Female

DAY ON TEST: 725

DOSE: 1.0% MF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Stomach - Glandular

Intestine Small - Jejunum
Urinary Bladder

Parathyroid Gland

Stomach - Forestomach

MISSING

Adrenal Gland

Ovary

Tongue

OBSERVATIONS

Intestine Small
Kidney
Liver
Pancreas
Pituitary Gland

Epithelium, Ileum

Pars Distalis
Pars Intermed
Pars Distalis

Pigmentation
Nephropathy
Basophilic Focus
Inflammation
Cyst
Cyst
Hyperplasia
Hyperplasia
Polyp Stromal

Minimal
Mild
Mild
Chronic, Minimal
Mild
Minimal
Minimal
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 183

TRT#: 7

SEX: Female

DAY ON TEST: 603

DOSE: 1.0% MF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Nose	Ovary	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Tongue	Trachea	Urinary Bladder	

OBSERVATIONS

Brain		Hydrocephalus	Minimal
Clitoral Gland		Inflammation	Chronic, Mild
Heart		Cardiomyopathy	Minimal
Intestine Small	Epithelium, Ileum	Pigmentation	Minimal
Kidney		Nephropathy	Mild
Liver		Fatty Change	Mild
		Leukemia Mononuclear	
Note: FATTY CHANGE	TGLs = 3-3		
Note: LEUKEMIA MONUC	TGLs = 3-3		
Lung	Artery	Mineralization	Minimal
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mesenteric	Pigmentation	Minimal
Mammary Gland		Hyperplasia	Mild
Pancreas		Atrophy	Mild
		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Intermed	Angiectasis	Minimal
Note: ADENOMA	TGLs = 4-8		
Spleen		Depletion Lymphoid	Mild
		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Minimal
Uterus		Hydrometra	Moderate
Note: HYDROMETRA	TGLs = 2-6		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:16
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 183

TRT#: 7

SEX: Female

DAY ON TEST: 603

DOSE: 1.0% MF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 185

TRT#: 7

SEX: Female

DAY ON TEST: 724

DOSE: 1.0% MF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Stomach - Glandular

Intestine Small - Jejunum
Urinary Bladder

Spleen
Uterus

Stomach - Forestomach

MISSING

Ovary

Parathyroid Gland

OBSERVATIONS

Intestine Small
Kidney
Liver

Epithelium, Ileum

Pigmentation
Nephropathy
Basophilic Focus
Hepatodiaphragmatic Nodule
Hyperplasia

Mild
Mild
Minimal

Bile Duct

Minimal

[Basophilic Focus TGLS = 3,4-1]

Lung

Alveolar Epith

Hyperplasia
Infiltration Cellular

Mild
Histiocyte, Minimal

Pancreas

Atrophy
Inflammation

Minimal
Chronic, Minimal

Pituitary Gland

Pars Distalis

Hyperplasia

Mild

Thyroid Gland

C Cell

Hyperplasia

Minimal

Tongue

Inflammation

Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 186

TRT#: 7

SEX: Female

DAY ON TEST: 605

DOSE: 1.0% MF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Tongue
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Clitoral Gland		Inflammation	Chronic Active, Moderate
Note: INFLAMMATION	TGLs = 2-10		
Heart		Cardiomyopathy	Minimal
Intestine Large	Colon	Parasite Metazoan	Minimal
Intestine Small	Epithelium, Ileum	Pigmentation	Minimal
Kidney		Nephropathy	Minimal
Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Necrosis	Coagulative, Minimal
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Mild
	Mesenteric	Pigmentation	Minimal
Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
Note: FIBROADENOMA	TGLs = 1-13		
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 4-8		
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 187

TRT#: 7

DOSE: 1.0% MF

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 729

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Stomach - Forestomach

Intestine Small - Jejunum
Tongue

Lung
Urinary Bladder

Parathyroid Gland

MISSING

Ovary

OBSERVATIONS

Clitoral Gland
Note: CARCINOMA TGLs = 2-6

Carcinoma

Intestine Small
Kidney
Liver
Epithelium, Ileum

Pigmentation
Nephropathy
Basophilic Focus
Mild
Mild

Bile Duct

Hepatodiaphragmatic Nodule
Hyperplasia
Mixed Cell Focus
Minimal
Mild

[Basophilic Focus TGLS = 4-1]

Mammary Gland
Note: FIBROADENOMA TGLs = 1-7

Fibroadenoma

Pancreas
Atrophy
Inflammation
Minimal
Chronic, Minimal

Pituitary Gland
Pars Distalis
Pars Distalis
Pars Distalis
Pars Intermed

Adenoma
Angiectasis
Cyst
Cyst
Mild
Mild
Mild

Note: CYST TGLs = 10-4
Note: ADENOMA TGLs = 8,9-4

Stomach
Thyroid Gland
Uterus
Glandular, Muscularis
C Cell

Mineralization
Hyperplasia
Polyp Stromal
Mild
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 188

TRT#: 7

SEX: Female

DAY ON TEST: 723

DOSE: 1.0% MF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Ear	Intestine Small - Duodenum	Parathyroid Gland	Stomach - Forestomach
Urinary Bladder	Uterus		

OBSERVATIONS

Eye		Cataract	Marked
	Retina	Degeneration	Marked
		Synechia	Marked
Note: CATARACT	TGLs = 2-6		
Intestine Small	Epithelium, Ileum	Pigmentation	Mild
	Epithelium, Jejunum	Pigmentation	Minimal
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
		Fatty Change	Minimal
		Inflammation	Granulomatous, Chronic, Minimal
Ovary	Periovarn Tiss	Cyst	Mild
Note: CYST	TGLs = 3-5		
Pancreas		Atrophy	Minimal
		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Mild
Stomach	Epithelium, Glandular	Pigmentation	Mild
Thyroid Gland	C Cell	Hyperplasia	Mild
Tongue		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:16
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 189	TRT#: 7 DOSE: 1.0% MF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 725 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Parathyroid Gland
Stomach - Forestomach	Tongue	Urinary Bladder	

MISSING

Ovary

OBSERVATIONS

Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Minimal
Mammary Gland		Fibroadenoma	Multiple
Note: FIBROADENOMA	TGLs = 1,2-6		
Pancreas		Atrophy	Mild
		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Adenoma	Multiple
	Pars Intermed	Cyst	Minimal
Note: ADENOMA	TGLs = 4-4		
Stomach	Epithelium, Glandular	Pigmentation	Mild
Thyroid Gland	C Cell	Hyperplasia	Minimal
Uterus	Endometrium	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:16
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 191	TRT#: 7 DOSE: 1.0% MF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum	Intestine Small - Jejunum	Pancreas	Parathyroid Gland
Stomach - Forestomach	Stomach - Glandular	Tongue	Urinary Bladder

MISSING

Ovary

OBSERVATIONS

Intestine Small	Epithelium, Ileum	Pigmentation	Mild
Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 2-2			
Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
		Leukemia Mononuclear	
[Basophilic Focus TGLS = 3-1]			
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA TGLs = 1-6			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Marked
Note: ADENOMA TGLs = 4-4			
Thyroid Gland	C Cell	Hyperplasia	Minimal
Uterus	Endometrium	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 193

TRT#: 7

SEX: Female

DAY ON TEST: 723

DOSE: 1.0% MF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Stomach - Forestomach

Intestine Small - Ileum
Tongue

Intestine Small - Jejunum
Urinary Bladder

Spleen

MISSING

Ovary
Parathyroid Gland

OBSERVATIONS

Kidney		Inflammation Nephropathy	Chronic, Mild Moderate
	Artery	Thrombosis	Mild
Liver		Basophilic Focus Inflammation	Minimal Chronic, Minimal
		Necrosis	Coagulative, Minimal
Pancreas		Atrophy	Mild
	Artery	Hyperplasia Inflammation	Moderate Chronic, Minimal

Note: THROMBUS.

Note: COMPLETELY OCCLUDED. THIS COULD REPRESENT AN ORGANIZED

Note: WALLS WHICH ARE HYPERPLASTIC. ONE VESSEL APPEARS TO BE

Note: SEVERAL LARGE ARTERIES IN THE PANCREAS HAVE MUSCULAR

Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Minimal

Note: ADENOMA TGLs = 2-4

Spleen

Note: THE DEPRESSION NOTED IN THE SPLEEN WAS AT THE HILUM AND

Note: APPEARS TO BE NORMAL.

Stomach	Glandular, Muscularis	Mineralization	Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal
Uterus		Hydrometra	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 194

TRT#: 7

SEX: Female

DAY ON TEST: 725

DOSE: 1.0% MF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Eye	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Stomach - Forestomach	Stomach - Glandular	Urinary Bladder	

MISSING

Ovary	Parathyroid Gland		
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OBSERVATIONS

Harderian Gland		Hemorrhage	Minimal
Note: HEMORRHAGE	TGLs = 1-5		
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Minimal
		Hepatodiaphragmatic Nodule	
Note: ANOM HEPAT LOB	TGLs = 7-1		
Lung	Artery	Mineralization	Minimal
Lymph Node	Pancreatic	Ectasia	Moderate
	Mediastinal	Hemorrhage	Minimal
	Mesenteric	Hemorrhage	Minimal
	Renal	Hemorrhage	Mild
	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Pancreatic	Infiltration Cellular	Histiocyte, Mild
	Renal	Infiltration Cellular	Histiocyte, Mild
	Mediastinal	Pigmentation	Mild
	Mesenteric	Pigmentation	Minimal
	Pancreatic	Pigmentation	Minimal
	Renal	Pigmentation	Mild
Note: PIGMENT	TGLs = 6-3		
Note: HEMORRHAGE	TGLs = 6-3		
Note: PIGMENT	TGLs = 5-4		
Note: HEMORRHAGE	TGLs = 8-2		
Note: HEMORRHAGE	TGLs = 2-1		
Mesentery		Inflammation	Granulomatous, Chronic, Marked
		Pigmentation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 194

TRT#: 7

SEX: Female

DAY ON TEST: 725

DOSE: 1.0% MF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: INFLAMMATION TGLs = 4-3

Note: PIGMENT TGLs = 4-3

Pancreas		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Thyroid Gland	C Cell	Adenoma	
Tongue		Inflammation	Chronic, Minimal
Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 196

TRT#: 7

SEX: Female

DAY ON TEST: 723

DOSE: 1.0% MF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Stomach - Glandular

Intestine Small - Jejunum
Urinary Bladder

Pancreas
Uterus

Parathyroid Gland

MISSING

Tongue

OBSERVATIONS

Intestine Small
Kidney
Liver

Epithelium, Ileum

Pigmentation
Nephropathy
Basophilic Focus
Fatty Change

Minimal
Minimal
Minimal
Minimal
Minimal

Bile Duct

Hyperplasia
Leukemia Mononuclear
Fibroadenoma
Hyperplasia

Mild

Mammary Gland

Note: FIBROADENOMA TGLs = 1-6

Ovary

Note: CONGESTION TGLs = 3-3

Congestion

Mild

Pituitary Gland

Pars Distalis
Pars Distalis

Adenoma
Cyst

Moderate

Note: ADENOMA TGLs = 2-4

Stomach

Artery, Forestomach
Forestomach, Muscularis

Mineralization
Mineralization

Minimal
Minimal

Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 197

TRT#: 7

SEX: Female

DAY ON TEST: 548

DOSE: 1.0% MF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	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	Nose	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Tongue	Trachea	Urinary Bladder
Uterus			

MISSING

Lymph Node - Mandibular

INSUFFICIENT TISSUE

Eye

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Minimal
	Cortex	Leukemia Mononuclear	
	Cortex	Vacuolization Cytoplasmic	Moderate
Note: LEUKEMIA MONUC TGLs = 5-8			
Note: ANGIECTASIS TGLs = 5-8			
Clitoral Gland		Sarcoma	
Note: SARCOMA TGLs = 1-10			
Kidney		Nephropathy	Mild
Liver		Fatty Change	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-3			
Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2,3-1+2]			
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mesenteric	Pigmentation	Minimal
Mammary Gland		Hyperplasia	Mild
Ovary	Periovarn Tiss	Cyst	Moderate
Pancreas		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 197

TRT#: 7

SEX: Female

DAY ON TEST: 548

DOSE: 1.0% MF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Pituitary Gland

Pars Distalis

Inflammation

Chronic, Minimal

Cyst

Minimal

Pars Distalis

Hyperplasia

Minimal

Note: CYST TGLs = 7-8

Spleen

Depletion Lymphoid

Mild

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 4-3]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 199

TRT#: 7

SEX: Female

DAY ON TEST: 337

DOSE: 1.0% MF

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	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	Pituitary Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Tongue	Trachea	Urinary Bladder	

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Clitoral Gland		Inflammation	Chronic, Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Minimal
Liver		Basophilic Focus	Minimal
		Inflammation	Chronic Active, Minimal
Lung		Hemorrhage	Mild
Ovary	Periovarn Tiss	Cyst	Mild
Note: CYST	TGLs = 1-6		
Thymus		Hemorrhage	Minimal
Uterus		Hydrometra	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 200

TRT#: 7

SEX: Female

DAY ON TEST: 697

DOSE: 1.0% MF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Stomach - Forestomach

Intestine Small - Ileum
Stomach - Glandular

Intestine Small - Jejunum
Urinary Bladder

Pancreas
Uterus

MISSING

Mesentery

Ovary

Parathyroid Gland

Tongue

OBSERVATIONS

Adrenal Gland

Cortex
Cortex

Adenoma
Vacuolization Cytoplasmic
Carcinoma

Minimal

Clitoral Gland

Note: CARCINOMA TGLs = 1-8

Kidney

Prox Con Tub

Nephropathy
Pigmentation

Mild
Mild

Liver

Bile Duct

Fatty Change
Hyperplasia
Leukemia Mononuclear
Necrosis

Mild
Minimal

[Leukemia Mononuclear TGLS = 7-1]

Lung

Hemorrhage
Leukemia Mononuclear

Mild

Note: HEMORRHAGE TGLs = 5-6

Lymph Node

Mediastinal

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 4-5

Pituitary Gland

Pars Distalis
Pars Distalis
Pars Distalis
Pars Intermed

Adenoma
Angiectasis
Pigmentation
Pigmentation

Multiple
Minimal
Minimal
Minimal

Note: ANGIECTASIS TGLs = 9-4

Note: ADENOMA TGLs = 9-4

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 6-7

Thyroid Gland

C Cell

Hyperplasia

Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 200

TRT#: 7

SEX: Female

DAY ON TEST: 697

DOSE: 1.0% MF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 201

TRT#: 7

SEX: Female

DAY ON TEST: 548

DOSE: 1.0% MF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Clitoral Gland	Esophagus	Eye
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Ovary	Parathyroid Gland	Skin	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Tongue	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Cortex	Vacuolization Cytoplasmic	Marked
Bone Marrow		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Kidney		Nephropathy	Minimal
Liver		Fatty Change	Marked
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Note: FATTY CHANGE	TGLs = 8-3		
Note: LEUKEMIA MONUC	TGLs = 8-3		
Lung		Leukemia Mononuclear	
	Artery	Mineralization	Minimal
[Leukemia Mononuclear TGLS = 4-1+2]			
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Mesenteric	Pigmentation	Minimal
Mammary Gland		Hyperplasia	Moderate
Pancreas		Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 201

TRT#: 7

SEX: Female

DAY ON TEST: 548

DOSE: 1.0% MF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 9-8

Salivary Glands

Spleen

Submandibul GI

Leukemia Mononuclear

Depletion Lymphoid

Leukemia Mononuclear

Mild

Note: LEUKEMIA MONUC TGLs = 5-3

Thymus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 202

TRT#: 7

SEX: Female

DAY ON TEST: 697

DOSE: 1.0% MF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Lung

Pancreas

Parathyroid Gland

Stomach - Forestomach

Stomach - Glandular

Urinary Bladder

Uterus

MISSING

Ovary

Tongue

OBSERVATIONS

Kidney

Nephropathy

Mild

Liver

Basophilic Focus

Minimal

Fatty Change

Mild

Inflammation

Chronic, Mild

Fibroadenoma

Mammary Gland

Note: FIBROADENOMA TGLs = 1-6

Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Angiectasis

Mild

[Adenoma TGLS = 3-4]

[Angiectasis TGLS = 3-4]

Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 203

TRT#: 7

SEX: Female

DAY ON TEST: 725

DOSE: 1.0% MF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum
Stomach - Glandular

Intestine Small - Ileum
Urinary Bladder

Intestine Small - Jejunum
Uterus

Stomach - Forestomach

MISSING

Ovary

Parathyroid Gland

OBSERVATIONS

Kidney

Transit Epithe

Hyperplasia
Nephropathy

Mild
Moderate

Note: NEPHROPATHY TGLs = 2-2

Liver

Basophilic Focus

Minimal

Bile Duct
Mandibular

Hyperplasia
Hemorrhage

Minimal
Marked

Lymph Node
Note: HEMORRHAGE TGLs = 1-5

Pancreas

Atrophy
Inflammation

Minimal
Chronic, Minimal

Pituitary Gland

Pars Distalis
Pars Distalis
Pars Distalis

Adenoma
Angiectasis
Cyst

Marked
Mild

Note: ANGIECTASIS TGLs = 3-4
Note: ADENOMA TGLs = 3-4

Thyroid Gland
Tongue

C Cell

Hyperplasia
Inflammation

Minimal
Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:16
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 204	TRT#: 7 DOSE: 1.0% MF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 723 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Pancreas
Parathyroid Gland	Stomach - Forestomach	Stomach - Glandular	Tongue
Urinary Bladder			

MISSING

Ovary

OBSERVATIONS

Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
[Adenoma TGLS = 2-4]			
Thyroid Gland	C Cell	Hyperplasia	Minimal
Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 1,3-3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 208

TRT#: 7

SEX: Female

DAY ON TEST: 441

DOSE: 1.0% MF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lymph Node - Mandibular	Nose	Ovary	Pancreas
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Tongue	Trachea	Urinary Bladder	Uterus

MISSING

Clitoral Gland	Parathyroid Gland
----------------	-------------------

OBSERVATIONS

Adrenal Gland Note: FIBROSARC TGLs = 7-8	Cortex	Fibrosarcoma	Metastatic (Skin)
Heart [Fibrosarcoma TGLS = 9-2]		Fibrosarcoma	Metastatic (Skin)
Intestine Large	Colon	Parasite Metazoan	Minimal
Kidney		Nephropathy	Minimal
Lung		Leukocytosis	Moderate
	Artery	Mineralization	Minimal
Lymph Node	Mesenteric	Angiectasis	Marked
	Lumbar	Fibrosarcoma	Metastatic (Skin)
	Mediastinal	Hemorrhage	Mild
	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mesenteric	Thrombosis	Moderate
Note: HEMORRHAGE TGLs = 4-2			
Note: FIBROSARC TGLs = 5-10			
Mammary Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Multiple
Note: ADENOMA TGLs = 8-8			
Skin	Subcut Tiss	Fibrosarcoma	
Note: OSSEOUS METAPLASIA AND MINERALIZATION.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 208

TRT#: 7

SEX: Female

DAY ON TEST: 441

DOSE: 1.0% MF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: MODERATE AREAS OF THE FIBROSARCOMA REVEALED

Note: FIBROSARC TGLs = 1-13

Spleen

Hematopoietic Cell Proliferation

Mild

Note: HEMA CELL PROL TGLs = 6-3

Thymus

Depletion Lymphoid

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:16

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 210

TRT#: 7

SEX: Female

DAY ON TEST: 685

DOSE: 1.0% MF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Pancreas

Parathyroid Gland

Stomach - Forestomach

Tongue

Urinary Bladder

MISSING

Ovary

OBSERVATIONS

Kidney

Nephropathy

Mild

Liver

Basophilic Focus

Minimal

Bile Duct

Hyperplasia

Minimal

Mammary Gland

Fibroadenoma

Multiple

Note: [FIBROADENOMA] TGLs = 3-6,2-7

Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Cyst

Mild

Note: ADENOMA TGLs = 4-4

Stomach

Epithelium, Glandular

Pigmentation

Minimal

Thyroid Gland

C Cell

Hyperplasia

Minimal

Uterus

Polyp Stromal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 212

TRT#: 8

SEX: Female

DAY ON TEST: 724

DOSE: 4.0% HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Brain	Esophagus	Intestine Large
Intestine Small - Duodenum	Islets, Pancreatic	Lung	Ovary
Parathyroid Gland	Spleen	Stomach - Forestomach	Thyroid Gland
Tongue	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Cortex	Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Marked
Intestine Small	Epithelium, Ileum	Pigmentation	Mild
	Epithelium, Jejunum	Pigmentation	Mild
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Minimal
		Developmental Malformation	
Note: DEVELOP MALFOR TGLs = 2-3			
Lymph Node	Mandibular	Hemorrhage	Mild
Pancreas		Atrophy	Mild
		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Minimal
Note: ADENOMA TGLs = 3-7			
Stomach	Epithelium, Glandular	Pigmentation	Mild
Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 213

TRT#: 8

SEX: Female

DAY ON TEST: 492

DOSE: 4.0% HF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Kidney	Lymph Node - Mandibular	Nose
Ovary	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Esophagus

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
		Necrosis	Coagulative, Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
Mammary Gland		Hyperplasia	Minimal
Pancreas		Atrophy	Minimal
		Inflammation	Chronic, Minimal
Pituitary Gland		Angiectasis	Minimal
	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Minimal
Thymus		Depletion Lymphoid	Moderate
Tongue		Squamous Cell Carcinoma	
Note: SQUAM CEL CARC TGLs = 3,4,5-13			
Uterus		Hydrometra	Minimal
	Endometrium	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 214

TRT#: 8

SEX: Female

DAY ON TEST: 716

DOSE: 4.0% HF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Colon
Intestine Small - Jejunum
Pancreas
Tongue

Brain
Intestine Large - Rectum
Islets, Pancreatic
Parathyroid Gland
Trachea

Esophagus
Intestine Small - Duodenum
Lung
Spleen
Urinary Bladder

Intestine Large - Cecum
Intestine Small - Ileum
Ovary
Stomach - Forestomach
Uterus

OBSERVATIONS

Adrenal Gland

Cortex
Cortex

Angiectasis
Vacuolization Cytoplasmic
Cardiomyopathy
Nephropathy
Basophilic Focus
Inflammation
Necrosis
Ectasia
Cyst

Minimal
Minimal
Minimal
Mild
Minimal
Chronic Active, Minimal
Coagulative, Minimal
Minimal
Marked

Lymph Node
Pituitary Gland

Mandibular
Pars Distalis

Note: CYST TGLs = 3-7

Stomach
Thyroid Gland

Epithelium, Glandular
C Cell

Pigmentation
Hyperplasia

Minimal
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 215

TRT#: 8

SEX: Female

DAY ON TEST: 688

DOSE: 4.0% HF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Brain	Esophagus	Eye
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Islets, Pancreatic	Lymph Node - Mandibular	Ovary	Pancreas
Parathyroid Gland	Stomach - Forestomach	Tongue	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Minimal
Heart		Cardiomyopathy	Mild
Intestine Small	Epithelium, Ileum	Pigmentation	Mild
	Epithelium, Jejunum	Pigmentation	Mild
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-3			
Lung		Leukemia Mononuclear	
Lymph Node	Mesenteric	Ectasia	Moderate
	Mesenteric	Infiltration Cellular	Histiocyte, Mild
	Renal	Infiltration Cellular	Histiocyte, Moderate
	Mesenteric	Pigmentation	Minimal
Note: ECTASIA TGLs = 4-11			
Note: INFILTRAT CELL TGLs = 5-10			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Intermed	Angiectasis	Moderate
	Pars Distalis	Cyst	Minimal
Note: ADENOMA TGLs = 7,8-7			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-3			
Stomach	Epithelium, Glandular	Pigmentation	Mild
Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 215

TRT#: 8

SEX: Female

DAY ON TEST: 688

DOSE: 4.0% HF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 217

TRT#: 8

DOSE: 4.0% HF

SEX: Female

DISP: Moribund

DAY ON TEST: 715

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Colon
Intestine Small - Jejunum
Ovary
Trachea

Brain
Intestine Large - Rectum
Islets, Pancreatic
Parathyroid Gland
Urinary Bladder

Esophagus
Intestine Small - Duodenum
Lung
Stomach - Glandular
Uterus

Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Tongue

OBSERVATIONS

Adrenal Gland
Cortex
Cortex
Cortex

Clitoral Gland
Note: ADENOMA TGLs = 3-6

Heart
Kidney
Note: NEPHROPATHY TGLs = 8,9-4

Liver
Note: FATTY CHANGE TGLs = 11-3

Mammary Gland

Note: ADENOCARC TGLs = 2-3

Pancreas
Pituitary Gland

Pars Distalis
Pars Distalis
Pars Distalis

Note: ADENOMA TGLs = 12-7

Spleen
Note: DEPLET LYMPH TGLs = 6-3

Stomach

Forestomach
Forestomach
Forestomach

Note: ULCER TGLs = 10-7

Cortex
Cortex
Cortex

Adenoma

Cardiomyopathy
Nephropathy

Fatty Change

Adenocarcinoma
Hyperplasia

Ectopic Liver
Adenoma
Cyst
Hyperplasia

Depletion Lymphoid

Acanthosis
Hyperkeratosis
Ulcer

Minimal
Minimal
Mild

Mild
Marked

Moderate

Mild

Mild
Mild

Mild

Mild
Mild
Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 217

TRT#: 8

SEX: Female

DAY ON TEST: 715

DOSE: 4.0% HF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HYPERKERATOSIS TGLs = 10-7

Note: ACANTHOSIS TGLs = 10-7

Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 218

TRT#: 8

SEX: Female

DAY ON TEST: 723

DOSE: 4.0% HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Colon
Lung
Spleen
Urinary Bladder

Brain
Intestine Large - Rectum
Ovary
Stomach - Forestomach
Uterus

Esophagus
Intestine Small - Duodenum
Pancreas
Tongue

Intestine Large - Cecum
Islets, Pancreatic
Parathyroid Gland
Trachea

OBSERVATIONS

Adrenal Gland
Heart
Intestine Small

Kidney
Liver

Cortex

Epithelium, Ileum
Epithelium, Jejunum

Angiectasis
Cardiomyopathy
Pigmentation
Pigmentation
Nephropathy
Basophilic Focus
Hyperplasia
Inflammation
Neoplastic Nodule

Minimal
Minimal
Minimal
Minimal
Mild
Minimal
Minimal
Granulomatous, Chronic, Minimal

Note: INFLAMMATION TGLs = 2-3

Lymph Node
Pituitary Gland

Mandibular
Pars Distalis
Pars Intermed
Pars Distalis
Pars Distalis

Hemorrhage
Adenoma
Angiectasis
Cyst
Hyperplasia

Minimal

Mild
Minimal
Minimal

Note: ADENOMA TGLs = 3-7

Stomach
Thyroid Gland

Epithelium, Glandular
C Cell

Pigmentation
Hyperplasia

Minimal
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 220

TRT#: 8

SEX: Female

DAY ON TEST: 724

DOSE: 4.0% HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Intestine Large - Cecum
Intestine Small - Jejunum
Parathyroid Gland
Trachea

Adrenal Gland - Medulla
Intestine Large - Colon
Islets, Pancreatic
Spleen
Urinary Bladder

Brain
Intestine Large - Rectum
Lung
Stomach - Forestomach

Esophagus
Intestine Small - Duodenum
Ovary
Tongue

OBSERVATIONS

Heart
Intestine Small
Kidney
Liver
Lymph Node
Pancreas

Epithelium, Ileum

Mandibular

Pituitary Gland

Pars Distalis
Pars Distalis
Pars Distalis

Note: CYST TGLs = 3-7

Stomach
Thyroid Gland
Uterus

Epithelium, Glandular
C Cell

Cardiomyopathy
Pigmentation
Nephropathy
Basophilic Focus
Hemorrhage
Atrophy
Inflammation
Angiectasis
Cyst
Hyperplasia

Pigmentation
Hyperplasia
Hydrometra

Minimal
Mild
Moderate
Minimal
Marked
Minimal
Chronic, Minimal
Moderate
Moderate
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 221

TRT#: 8

SEX: Female

DAY ON TEST: 723

DOSE: 4.0% HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Ovary	Parathyroid Gland
Spleen	Stomach - Forestomach	Tongue	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Minimal
	Cortex	Hyperplasia	Minimal
	Medulla	Pheochromocytoma Benign	
	Cortex	Vacuolization Cytoplasmic	Minimal
Brain		Hemorrhage	Minimal
Clitoral Gland		Adenoma	
	Note: ADENOMA TGLs = 1-6		
Heart		Cardiomyopathy	Minimal
Intestine Small	Epithelium, Ileum	Pigmentation	Mild
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Minimal
		Inflammation	Chronic Active, Minimal
	Mammary Gland	Fibroadenoma	Multiple
		Note: FIBROADENOMA TGLs = 2,3-3+8	Hyperplasia
Pancreas		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Intermed	Angiectasis	Minimal
	Note: ADENOMA TGLs = 5-7		
Stomach	Epithelium, Glandular	Pigmentation	Mild
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 222

TRT#: 8

SEX: Female

DAY ON TEST: 560

DOSE: 4.0% HF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Esophagus	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Ovary	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Stomach - Forestomach
Tongue	Trachea	Urinary Bladder	Uterus

MISSING

Lymph Node - Mandibular	Thymus
-------------------------	--------

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Minimal
	Medulla	Hyperplasia	Minimal
Brain		Hemorrhage	Minimal
Note: PROBABLY AN ARTIFACT.			
Note: THE MINOR HEMORRHAGE OBSERVED IN THE CEREBELLUM IS			
Clitoral Gland		Inflammation	Chronic, Minimal
Heart		Cardiomyopathy	Minimal
Intestine Large	Cecum	Parasite Metazoan	
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Granulomatous, Chronic, Minimal
Note: HOWEVER, RECUTS OF THE LIVER PLUS EXAMINATION OF THE			
Note: WERE NOTED IN CLOSELY ARRANGED BLOOD VESSELS IN THE LUNG;			
Note: THREE TUMOR EMBOLI SUGGESTIVE OF HEPATOCELLULAR CARCINOMA			
Note: FIXED LIVER FAILED TO REVEAL A PRIMARY TUMOR.			
Lung		Hemorrhage	Minimal
		Hepatocellular Carcinoma	Metastatic (Uncertain Primary Site)
	Artery	Mineralization	Minimal
Note: THREE TUMOR EMBOLI SUGGESTIVE OF HEPATOCELLULAR CARCINOMA			
Note: WERE SEEN IN THREE CLOSELY ARRANGED BLOOD VESSELS IN THE			
Note: LUNGS; HOWEVER, RECUTS OF THE LIVER PLUS EXAMINATION OF			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:17
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 222	TRT#: 8 DOSE: 4.0% HF	SEX: Female DISP: Moribund	DAY ON TEST: 560 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: THE FIXED LIVER FAILED TO REVEAL A PRIMARY TUMOR.

[Mineralization TGLS = 5-1]

Lymph Node	Mediastinal Mesenteric Mesenteric	Hemorrhage Infiltration Cellular Pigmentation	Minimal Histiocyte, Minimal Minimal
Note: HEMORRHAGE TGLs = 4-2			
Mammary Gland		Hyperplasia	Mild
Nose	Glands	Inflammation	Acute, Minimal
Spleen		Depletion Lymphoid	Minimal
Stomach	Epithelium, Glandular	Pigmentation	Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 223

TRT#: 8

SEX: Female

DAY ON TEST: 553

DOSE: 4.0% HF

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Lung
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Lymph Node - Mandibular
Salivary Glands
Thyroid Gland

Bone Marrow
Eye
Ovary
Skin
Tongue

Brain
Kidney
Pancreas
Stomach - Forestomach
Trachea

MISSING

Pituitary Gland

AUTO PRECLUDES DIAG.

Intestine Small - Duodenum
Nose

Intestine Small - Ileum

Intestine Small - Jejunum

Lymph Node - Mesenteric

OBSERVATIONS

Heart
Liver

Cardiomyopathy
Basophilic Focus
Necrosis
Depletion Lymphoid
Hemorrhage

Mild
Minimal
Coagulative, Moderate
Marked
Minimal

Lymph Node

Centrilobular
Mediastinal
Mediastinal

Hyperplasia
Depletion Lymphoid
Depletion Lymphoid
Polyp Stromal

Minimal
Moderate
Moderate
Multiple

Note: HEMORRHAGE TGLs = 2-2

Mammary Gland

Spleen

Thymus

Uterus

Note: POLYP STROMAL TGLs = 4,5-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 224

TRT#: 8

SEX: Female

DAY ON TEST: 723

DOSE: 4.0% HF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Colon
Ovary
Urinary Bladder

Brain
Intestine Large - Rectum
Parathyroid Gland
Uterus

Esophagus
Intestine Small - Duodenum
Spleen

Intestine Large - Cecum
Islets, Pancreatic
Trachea

MISSING

Lymph Node - Mandibular

OBSERVATIONS

Adrenal Gland

Cortex
Cortex

Angiectasis
Vacuolization Cytoplasmic

Minimal
Minimal

Heart

Cardiomyopathy

Minimal

Intestine Small

Epithelium, Ileum
Epithelium, Jejunum

Pigmentation
Pigmentation

Mild
Minimal

Kidney

Nephropathy

Mild

Liver

Basophilic Focus
Inflammation

Minimal
Chronic Active, Minimal

Lung

Infiltration Cellular

Histiocyte, Minimal

Lymph Node

Artery
Pancreatic
Pancreatic

Mineralization
Hemorrhage
Pigmentation

Minimal
Minimal
Mild

Note: HEMORRHAGE TGLs = 3-8

Mammary Gland

Fibroadenoma

Note: FIBROADENOMA TGLs = 1-10

Pancreas

Atrophy
Inflammation

Minimal
Chronic, Minimal

Pituitary Gland

Pars Distalis
Pars Distalis

Adenoma
Cyst

Minimal

Note: ADENOMA TGLs = 4-9

Stomach

Forestomach
Glandular, Mucosa
Epithelium, Glandular

Acanthosis
Dilatation
Pigmentation

Minimal
Minimal
Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 224

TRT#: 8

SEX: Female

DAY ON TEST: 723

DOSE: 4.0% HF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: PIGMENT TGLs = 5-9

Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 225

TRT#: 8

SEX: Female

DAY ON TEST: 725

DOSE: 4.0% HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Colon
Lung
Spleen
Urinary Bladder

Brain
Intestine Large - Rectum
Ovary
Stomach - Forestomach
Uterus

Esophagus
Intestine Small - Duodenum
Pancreas
Tongue

Intestine Large - Cecum
Islets, Pancreatic
Parathyroid Gland
Trachea

OBSERVATIONS

Adrenal Gland

Cortex
Cortex

Angiectasis
Vacuolization Cytoplasmic

Mild
Minimal

Heart

Cardiomyopathy

Mild

Intestine Small

Epithelium, Ileum
Epithelium, Jejunum

Pigmentation
Pigmentation

Mild
Mild

Kidney

Nephropathy

Mild

Liver

Basophilic Focus

Minimal

Lymph Node

Mandibular

Hemorrhage

Moderate

Pituitary Gland

Pars Distalis
Pars Distalis

Angiectasis
Cyst

Minimal
Minimal

Stomach

Epithelium, Glandular

Pigmentation

Mild

Note: PIGMENT TGLs = 2-7

Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 226

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 4.0% HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla

Brain

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Jejunum

Islets, Pancreatic

Ovary

Parathyroid Gland

Stomach - Forestomach

Tongue

Trachea

Urinary Bladder

MISSING

Esophagus

OBSERVATIONS

Adrenal Gland

Cortex

Adenoma

Cortex

Angiectasis

Minimal

Cortex

Hyperplasia

Mild

Cortex

Vacuolization Cytoplasmic

Minimal

Heart

Cardiomyopathy

Minimal

Intestine Large

Cecum

Parasite Metazoan

Minimal

Intestine Small

Epithelium, Ileum

Pigmentation

Minimal

Kidney

Nephropathy

Mild

Liver

Basophilic Focus

Minimal

Leukemia Mononuclear

Lung

Artery

Mineralization

Minimal

Lymph Node

Mandibular

Ectasia

Mild

Mandibular

Hemorrhage

Minimal

Pancreas

Atrophy

Minimal

Inflammation

Chronic, Minimal

Pituitary Gland

Pars Distalis

Angiectasis

Mild

Pars Distalis

Cyst

Minimal

Spleen

Leukemia Mononuclear

Stomach

Glandular, Muscularis

Mineralization

Minimal

Epithelium, Glandular

Pigmentation

Minimal

Note: PIGMENT

TGLs = 2-7

Thyroid Gland

C Cell

Hyperplasia

Minimal

Uterus

Hydrometra

Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 226

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 4.0% HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 227

TRT#: 8

SEX: Female

DAY ON TEST: 724

DOSE: 4.0% HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Colon
Islets, Pancreatic
Spleen
Trachea

Brain
Intestine Large - Rectum
Ovary
Stomach - Forestomach
Urinary Bladder

Esophagus
Intestine Small - Duodenum
Pancreas
Thyroid Gland
Uterus

Intestine Large - Cecum
Intestine Small - Jejunum
Parathyroid Gland
Tongue

OBSERVATIONS

Adrenal Gland
Heart
Intestine Small
Kidney
Liver

Cortex
Epithelium, Ileum

Angiectasis
Cardiomyopathy
Pigmentation
Nephropathy
Basophilic Focus
Developmental Malformation
Hyperplasia

Minimal
Mild
Mild
Mild
Minimal
Minimal

Note: DEVELOP MALFOR TGLs = 3-3

Lung
Lymph Node
Mammary Gland

Mandibular

Infiltration Cellular
Hemorrhage
Fibroadenoma

Histiocyte, Minimal
Minimal

Note: FIBROADENOMA TGLs = 2-10

Pituitary Gland
Stomach

Pars Distalis
Epithelium, Glandular

Hyperplasia
Pigmentation

Mild
Mild

Note: PIGMENT TGLs = 4-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 228

TRT#: 8

DOSE: 4.0% HF

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 725

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Intestine Large - Cecum
Islets, Pancreatic
Trachea

Adrenal Gland - Medulla
Intestine Large - Colon
Ovary
Urinary Bladder

Brain
Intestine Large - Rectum
Parathyroid Gland

Esophagus
Intestine Small - Duodenum
Stomach - Forestomach

OBSERVATIONS

Heart
Intestine Small

Kidney
Liver

Epithelium, Ileum
Epithelium, Jejunum

Cardiomyopathy
Pigmentation
Pigmentation
Nephropathy
Basophilic Focus
Cytoplasmic Alteration
Fatty Change
Hyperplasia
Leukemia Mononuclear

Mild
Mild
Minimal
Mild
Minimal
Moderate
Minimal
Mild

Note: CYTOPLAS ALTER TGLs = 3-3
Note: LEUKEMIA MONUC TGLs = 3-3

Lung

Infiltration Cellular
Leukemia Mononuclear
Hemorrhage

Histiocyte, Minimal

Mild

Lymph Node

Note: HEMORRHAGE TGLs = 1-8

Mandibular

Pancreas

Atrophy
Inflammation

Minimal
Chronic, Minimal

Pituitary Gland

Pars Distalis
Pars Intermed

Cyst
Cyst

Moderate
Minimal

Spleen

Depletion Lymphoid
Leukemia Mononuclear

Moderate

Note: LEUKEMIA MONUC TGLs = 2-3

Stomach

Glandular, Muscularis
Epithelium, Glandular

Mineralization
Pigmentation

Minimal
Minimal

Note: PIGMENT TGLs = 4-7

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 228

TRT#: 8

SEX: Female

DAY ON TEST: 725

DOSE: 4.0% HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland

C Cell

Hyperplasia

Minimal

Tongue

Inflammation

Chronic, Minimal

Uterus

Inflammation

Chronic Active, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 229

TRT#: 8

SEX: Female

DAY ON TEST: 668

DOSE: 4.0% HF

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Colon
Islets, Pancreatic
Trachea

Brain
Intestine Large - Rectum
Ovary
Urinary Bladder

Esophagus
Intestine Small - Duodenum
Pancreas
Uterus

Intestine Large - Cecum
Intestine Small - Jejunum
Stomach - Forestomach

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland
Heart

Cortex

Leukemia Mononuclear
Cardiomyopathy

Minimal

Intestine Small
Kidney
Liver

Epithelium, Ileum

Leukemia Mononuclear
Pigmentation
Nephropathy
Basophilic Focus
Hyperplasia
Leukemia Mononuclear

Mild
Minimal
Minimal
Minimal

Note: LEUKEMIA MONUC TGLs = 5-3

Lung

[Leukemia Mononuclear TGLS = 2-1+2]

Leukemia Mononuclear

Lymph Node

Mandibular
Mediastinal

Ectasia
Hemorrhage

Mild
Minimal

[Hemorrhage TGLS = 3-1]

Pituitary Gland

Pars Distalis
Pars Distalis

Cyst
Hyperplasia

Moderate
Mild

Spleen

Depletion Lymphoid
Leukemia Mononuclear

Marked

Note: LEUKEMIA MONUC TGLs = 4-3

Stomach

Epithelium, Glandular

Pigmentation

Mild

Note: PIGMENT TGLs = 6-7

Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 229

TRT#: 8

SEX: Female

DAY ON TEST: 668

DOSE: 4.0% HF

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 230

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 4.0% HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Brain	Esophagus	Intestine Large - Cecum
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Ovary	Pancreas	Parathyroid Gland
Spleen	Stomach - Forestomach	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Cortex	Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Minimal
Intestine Large	Colon	Parasite Metazoan	Minimal
Intestine Small	Epithelium, Ileum	Pigmentation	Mild
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Minimal
Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Minimal
		Fibroadenoma	Multiple
Mammary Gland			
Note: FIBROADENOMA	TGLs = 1,2-10+11		
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Intermed	Angiectasis	Minimal
Note: ADENOMA	TGLs = 6-7		
Stomach	Epithelium, Glandular	Pigmentation	Mild
Thyroid Gland	Follicular Cel	Adenoma	
Note: ADENOMA	TGLs = 4-7		
Uterus		Hydrometra	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 231

TRT#: 8

SEX: Female

DAY ON TEST: 724

DOSE: 4.0% HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Cecum
Islets, Pancreatic
Tongue

Bone
Intestine Large - Colon
Pancreas
Trachea

Brain
Intestine Large - Rectum
Parathyroid Gland
Urinary Bladder

Esophagus
Intestine Small - Duodenum
Spleen

MISSING

Ovary

OBSERVATIONS

Adrenal Gland
Heart
Intestine Small

Kidney
Liver
Lung
Lymph Node

Cortex

Epithelium, Ileum
Epithelium, Jejunum

Artery
Mandibular
Mandibular

Angiectasis
Cardiomyopathy
Pigmentation
Pigmentation
Nephropathy
Basophilic Focus
Mineralization
Infiltration Cellular
Pigmentation
Fibroadenoma

Minimal
Minimal
Mild
Mild
Mild
Minimal
Minimal
Histiocyte, Minimal
Minimal
Multiple

Mammary Gland

Note: FIBROADENOMA TGLs = 1,2-11+12

Pituitary Gland

Pars Distalis
Pars Distalis
Pars Distalis

Angiectasis
Cyst
Hyperplasia

Mild
Mild
Minimal

Note: CYST TGLs = 4-7

Stomach

Note: PIGMENT TGLs = 5-7

Epithelium, Glandular

Pigmentation

Mild

Thyroid Gland

C Cell

Hyperplasia

Minimal

Uterus

Hydrometra

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 232

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 4.0% HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla

Brain

Esophagus

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Jejunum

Islets, Pancreatic

Ovary

Pancreas

Parathyroid Gland

Tongue

Trachea

Urinary Bladder

MISSING

Lymph Node - Mandibular

OBSERVATIONS

Adrenal Gland

Cortex

Hyperplasia

Minimal

Cortex

Vacuolization Cytoplasmic

Minimal

Heart

Cardiomyopathy

Mild

Intestine Large

Cecum

Parasite Metazoan

Minimal

Colon

Parasite Metazoan

Minimal

Intestine Small

Epithelium, Ileum

Pigmentation

Mild

Kidney

Nephropathy

Mild

Liver

Basophilic Focus

Minimal

Bile Duct

Hyperplasia

Minimal

Leukemia Mononuclear

Lung

Infiltration Cellular

Histiocyte, Minimal

Artery

Mineralization

Minimal

Pituitary Gland

Pars Distalis

Angiectasis

Minimal

Pars Distalis

Cyst

Mild

Pars Distalis

Hyperplasia

Mild

Spleen

Depletion Lymphoid

Minimal

Leukemia Mononuclear

Stomach

Forestomach

Hyperplasia

Basal Cell, Mild

Epithelium, Glandular

Pigmentation

Mild

Note: PIGMENT

TGLs = 2-7

Thyroid Gland

C Cell

Hyperplasia

Minimal

Uterus

Hydrometra

Moderate

Endometrium

Hyperplasia

Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 232

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 4.0% HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 233

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 4.0% HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Colon
Islets, Pancreatic
Pancreas
Tongue

Brain
Intestine Large - Rectum
Lung
Parathyroid Gland
Trachea

Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Spleen
Urinary Bladder

Intestine Large - Cecum
Intestine Small - Jejunum
Ovary
Stomach - Forestomach
Uterus

OBSERVATIONS

Adrenal Gland

Heart
Intestine Small
Kidney
Liver

Cortex
Cortex

Epithelium, Ileum

Hyperplasia
Vacuolization Cytoplasmic
Cardiomyopathy
Pigmentation
Nephropathy
Basophilic Focus
Fatty Change
Inflammation

Minimal
Mild
Minimal
Mild
Mild
Minimal
Minimal
Granulomatous, Chronic, Minimal

Note: INFLAMMATION TGLs = 1-3

Pituitary Gland

Note: ADENOMA TGLs = 2-7

Pars Distalis

Adenoma

Stomach

Note: PIGMENT TGLs = 3-7

Epithelium, Glandular

Pigmentation

Mild

Thyroid Gland

C Cell

Hyperplasia
Ultimobranchial Cyst

Minimal
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 236

TRT#: 8

SEX: Female

DAY ON TEST: 724

DOSE: 4.0% HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Colon
Pancreas
Urinary Bladder

Brain
Intestine Small - Duodenum
Spleen
Uterus

Esophagus
Intestine Small - Jejunum
Stomach - Forestomach

Intestine Large - Cecum
Islets, Pancreatic
Trachea

MISSING

Intestine Large - Rectum

Parathyroid Gland

OBSERVATIONS

Adrenal Gland

Cortex

Angiectasis

Minimal

Cortex

Vacuolization Cytoplasmic

Minimal

Clitoral Gland

Abscess

Marked

Adenoma

Note: ABSCESS TGLs = 1,2-10

Note: ADENOMA TGLs = 1,2-10

Heart

Cardiomyopathy

Minimal

Intestine Small

Epithelium, Ileum

Pigmentation

Minimal

Kidney

Nephropathy

Moderate

Note: NEPHROPATHY TGLs = 5,6-4

Liver

Bile Duct

Hyperplasia

Minimal

Inflammation

Chronic, Minimal

Necrosis

Coagulative, Minimal

Lung

Infiltration Cellular

Histiocyte, Minimal

Artery

Mineralization

Minimal

Mandibular

Hemorrhage

Mild

Lymph Node

Mammary Gland

Fibroadenoma

Note: FIBROADENOMA TGLs = 8-11

Ovary

Periovarn Tiss

Cyst

Minimal

Note: CYST TGLs = 3-6

Pituitary Gland

Pars Distalis

Adenoma

Pars Intermed

Angiectasis

Moderate

Note: ADENOMA TGLs = 7-7

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 236

TRT#: 8

SEX: Female

DAY ON TEST: 724

DOSE: 4.0% HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Epithelium, Glandular	Pigmentation	Minimal
Note: PIGMENT	TGLs = 9-7		
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal
Tongue		Inflammation	Chronic, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 239

TRT#: 8

SEX: Female

DAY ON TEST: 724

DOSE: 4.0% HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Rectum
Pancreas

Esophagus
Intestine Small - Duodenum
Parathyroid Gland

Intestine Large - Cecum
Intestine Small - Jejunum
Trachea

Intestine Large - Colon
Islets, Pancreatic
Urinary Bladder

OBSERVATIONS

Adrenal Gland
Brain

Cortex

Angiectasis
Carcinoma

Minimal
Extension (Pituitary Gland), Metastatic (Pituitary Gland)

Heart
Intestine Small
Kidney
Liver

Epithelium, Ileum

Cardiomyopathy
Pigmentation
Nephropathy
Basophilic Focus
Inflammation

Minimal
Mild
Mild
Minimal
Granulomatous, Chronic, Minimal

Lung

Artery

Leukemia Mononuclear
Leukemia Mononuclear
Mineralization

Minimal
Minimal

Lymph Node

Mandibular
Mandibular

Hemorrhage
Leukemia Mononuclear

Ovary

Periovarn Tiss

Cyst

Moderate

Pituitary Gland

Pars Distalis
Pars Distalis
Pars Distalis

Angiectasis
Carcinoma
Cyst

Minimal
Marked

Note: THE TUMOR AFFECTING THE PITUITARY EXTENDED INTO THE OVER-LYING BRAIN AND THE VENTRICULAR SYSTEM.

Note: CYST TGLs = 4-7

Note: CARCINOMA TGLs = 4-5

Spleen

Inflammation
Leukemia Mononuclear

Granulomatous, Chronic, Mild

Note: WITHIN THE RED PULP WERE SMALL GRANULOMAS COMPOSED OF AGGREGATES OF HISTIOCYTES.

Stomach

Forestomach

Acanthosis

Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Quercetin
CAS Number: 117-39-5

Date Report Requested: 10/21/2014
Time Report Requested: 12:10:17
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 239

TRT#: 8
DOSE: 4.0% HF

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 724
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Forestomach
Forestomach
Epithelium, Glandular

Hyperkeratosis
Hyperplasia
Pigmentation

Mild
Basal Cell, Mild
Mild

Note: PIGMENT TGLs = 5-7
Note: HYPERKERATOSIS TGLs = 3-7
Note: ACANTHOSIS TGLs = 3-7
Note: HYPERPLASIA TGLs = 3-7

Thyroid Gland

Follicle
C Cell

Cyst
Hyperplasia
Inflammation

Mild
Minimal
Chronic, Minimal

Tongue
Uterus

Hydrometra
Hyperplasia

Moderate
Mild

Note: HYDROMETRA TGLs = 2-6

Endometrium

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 240

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 4.0% HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Islets, Pancreatic
Lymph Node - Mandibular	Ovary	Pancreas	Parathyroid Gland
Stomach - Forestomach	Tongue	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Minimal
	Medulla	Hyperplasia	Mild
	Cortex	Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Minimal
	Intestine Small	Epithelium, Jejunum	Pigmentation
Kidney		Nephropathy	Moderate
	Liver		Basophilic Focus
Bile Duct		Cyst Multilocular	
		Fibrosis	Focal, Mild
		Leukemia Mononuclear	
Lung		Infiltration Cellular	Histiocyte, Minimal
	Lymph Node	Mediastinal	Hemorrhage
		[Hemorrhage TGLS = 3-1]	
Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Intermed	Cyst	Minimal
	Pars Distalis	Hyperplasia	Minimal
Spleen		Leukemia Mononuclear	
Stomach	Glandular, Mucosa	Dilatation	Minimal
	Glandular, Muscularis	Mineralization	Minimal
	Epithelium, Glandular	Pigmentation	Minimal
Thyroid Gland		Hyperplasia	Minimal
	Uterus	Polyp Stromal	

Note: CYST MULTILOC TGLs = 4-3.1

[Hemorrhage TGLS = 3-1]

Note: PIGMENT TGLs = 5-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 243

TRT#: 8

SEX: Female

DAY ON TEST: 597

DOSE: 4.0% HF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Harderian Gland	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Islets, Pancreatic
Lymph Node - Mandibular	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Tongue	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Mild
Heart		Cardiomyopathy	Minimal
Intestine Small	Epithelium, Jejunum	Pigmentation	Minimal
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Minimal
Lung	Artery	Mineralization	Minimal
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Mild
	Mesenteric	Pigmentation	Minimal
Mammary Gland		Galactocele	Moderate
		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 5-5+8		
Stomach	Epithelium, Glandular	Pigmentation	Mild
Thymus		Depletion Lymphoid	Moderate
Thyroid Gland	C Cell	Hyperplasia	Minimal
Uterus		Hydrometra	Mild
	Endometrium	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 244

TRT#: 8

SEX: Female

DAY ON TEST: 284

DOSE: 4.0% HF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Islets, Pancreatic	Liver	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Salivary Glands
Stomach - Forestomach	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Lymph Node - Mandibular	Lymph Node - Mesenteric
-------------------------	-------------------------

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Mild
Clitoral Gland		Inflammation	Chronic, Mild
Heart		Cardiomyopathy	Minimal
Intestine Small	Epithelium, Ileum	Pigmentation	Minimal
	Epithelium, Jejunum	Pigmentation	Minimal
Kidney		Nephropathy	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
		Sarcoma	Poorly Diffr (Skin), Metastatic (Skin)
Ovary	Periovarn Tiss	Cyst	
Pituitary Gland	Pars Intermed	Cyst	Minimal
Skin	Subcut Tiss	Sarcoma	Poorly Diffr
Note: DUCTS.			
Note: MASS APPEARS TO HAVE ENTRAPPED SOME MAMMARY GLAND			
Note: SARCOMA TGLs = 1-13+13.1			
Spleen		Depletion Lymphoid	Mild
		Hematopoietic Cell Proliferation	Moderate
Note: HEMA CELL PROL TGLs = 2-3			
Stomach	Epithelium, Glandular	Pigmentation	Minimal
Thymus		Depletion Lymphoid	Mild
Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 246

TRT#: 8

DOSE: 4.0% HF

SEX: Female

DISP: Moribund

DAY ON TEST: 457

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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
Nose	Salivary Glands	Skeletal Muscle	Spleen
Stomach - Glandular	Thyroid Gland	Tongue	Trachea
Urinary Bladder			

MISSING

Parathyroid Gland	Thymus
-------------------	--------

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Vacuolization Cytoplasmic	Minimal
Clitoral Gland		Inflammation	Chronic, Minimal
Heart		Cardiomyopathy	Mild
	Epicardium	Fibrosis	Moderate
	Atrium Lft	Thrombosis	Marked
Note: FIBROSIS	TGLs = 4-2		
Note: THROMBUS	TGLs = 4-2		
Kidney		Congestion	Mild
		Nephropathy	Minimal
Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
Lung		Hemorrhage	Mild
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Mild
		Pigmentation	Mild
Lymph Node	Mandibular	Hemorrhage	Mild
	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mesenteric	Pigmentation	Minimal
Note: HEMORRHAGE	TGLs = 6-9		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 246

TRT#: 8

SEX: Female

DAY ON TEST: 457

DOSE: 4.0% HF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Mammary Gland			Hyperplasia	Mild
Ovary		Periovarn Tiss	Cyst	Moderate
Note: CYST	TGLs = 7-6			
Pancreas			Atrophy	Minimal
			Inflammation	Chronic, Minimal
Pituitary Gland		Pars Distalis	Cyst	Minimal
Skin		Subcut Tiss	Edema	Marked
Note: EDEMA	TGLs = 12-10			
Stomach		Forestomach	Acanthosis	Mild
Uterus			Inflammation	Acute, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 247

TRT#: 8

SEX: Female

DAY ON TEST: 630

DOSE: 4.0% HF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Clitoral Gland	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Islets, Pancreatic	Nose	Skin
Stomach - Forestomach	Tongue	Trachea	Urinary Bladder

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-8		
Brain	Chor Plexus	Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Intestine Small	Epithelium, Jejunum	Pigmentation	Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
Liver		Cyst	Mild
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Note: CYST	TGLs = 10-3		
Lung		Granulosa-Theca Tumor Malignant	Metastatic (Ovary)
		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mediastinal	Necrosis	Coagulative, Marked
Mammary Gland		Hyperplasia	Mild
Mesentery		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 9-7		
Ovary		Granulosa-Theca Tumor Malignant	
		Leukemia Mononuclear	
Note: GRAN THECA MAL	TGLs = 6-6		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 247

TRT#: 8

SEX: Female

DAY ON TEST: 630

DOSE: 4.0% HF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC	TGLs = 6-6			
Pancreas			Atrophy Leukemia Mononuclear	Moderate
Note: LEUKEMIA MONUC	TGLs = 12-8+9			
Pituitary Gland		Pars Distalis	Cyst	Multiple, Moderate
Note: CYST	TGLs = 11-8			
Salivary Glands		Submandibul GI	Leukemia Mononuclear	
Skeletal Muscle		Intercostal	Leukemia Mononuclear	
Spleen			Leukemia Mononuclear	
Stomach		Glandular	Inflammation	Chronic Active, Mild
Thymus			Leukemia Mononuclear Necrosis	Coagulative, Marked
Note: LEUKEMIA MONUC	TGLs = 4-2			
Note: NECROSIS	TGLs = 4-2			
Thyroid Gland		C Cell	Hyperplasia Ultimobranchial Cyst	Minimal Minimal
Uterus			Hydrometra	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 248

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 4.0% HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Colon
Islets, Pancreatic
Spleen
Urinary Bladder

Brain
Intestine Large - Rectum
Lymph Node - Mandibular
Stomach - Forestomach

Esophagus
Intestine Small - Duodenum
Ovary
Tongue

Intestine Large - Cecum
Intestine Small - Jejunum
Parathyroid Gland
Trachea

OBSERVATIONS

Adrenal Gland

Cortex
Cortex

Angiectasis
Hyperplasia
Cardiomyopathy

Mild
Minimal

Heart

Coron Artery

Inflammation

Chronic Active, Marked

Intestine Small

Epithelium, Ileum

Pigmentation

Minimal

Kidney

Renal Tubule

Hyperplasia

Minimal

Liver

Nephropathy

Moderate

Basophilic Focus

Minimal

Clear Cell Focus

Minimal

Lung

Infiltration Cellular

Histiocyte, Minimal

Artery

Mineralization

Minimal

Pancreas

Atrophy

Minimal

Inflammation

Chronic, Minimal

Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Cyst

Moderate

Pars Distalis

Hyperplasia

Minimal

Note: ADENOMA TGLs = 2-7

Stomach

Glandular

Cyst Epithelial Inclusion

Moderate

Epithelium, Glandular

Pigmentation

Mild

Note: CYST EPITH INC TGLs = 3-7

Note: PIGMENT TGLs = 4-7

Thyroid Gland

C Cell

Hyperplasia

Minimal

Uterus

Polyp Stromal

Note: POLYP STROMAL TGLs = 1-6

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 248

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 4.0% HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 250

TRT#: 8

SEX: Female

DAY ON TEST: 724

DOSE: 4.0% HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Cecum
Islets, Pancreatic
Parathyroid Gland
Tongue

Bone
Intestine Large - Colon
Lung
Spleen
Trachea

Brain
Intestine Large - Rectum
Ovary
Stomach - Forestomach
Urinary Bladder

Esophagus
Intestine Small - Duodenum
Pancreas
Thyroid Gland
Uterus

OBSERVATIONS

Adrenal Gland
Heart
Intestine Small

Kidney
Note: NEPHROPATHY TGLs = 2-4
Liver

Cortex

Epithelium, Ileum
Epithelium, Jejunum

Angiectasis
Cardiomyopathy
Pigmentation
Pigmentation
Nephropathy

Minimal
Minimal
Minimal
Minimal
Moderate

Minimal
Mild
Coagulative, Minimal
Moderate

Lymph Node
Pituitary Gland
Note: ADENOMA TGLs = 4-7
Stomach
Note: PIGMENT TGLs = 5-7

Mandibular
Pars Distalis

Epithelium, Glandular

Basophilic Focus
Eosinophilic Focus
Necrosis
Hemorrhage
Adenoma

Pigmentation

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 251

TRT#: 8

SEX: Female

DAY ON TEST: 723

DOSE: 4.0% HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Colon
Lung
Stomach - Forestomach

Brain
Intestine Large - Rectum
Lymph Node - Mandibular
Trachea

Esophagus
Intestine Small - Jejunum
Pancreas
Urinary Bladder

Intestine Large - Cecum
Islets, Pancreatic
Spleen
Uterus

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland
Heart
Intestine Small

Kidney
Liver

Cortex

Duodenum, Epithelium
Epithelium, Ileum

Angiectasis
Cardiomyopathy
Pigmentation
Pigmentation
Nephropathy
Basophilic Focus
Clear Cell Focus

Mild
Marked
Minimal
Minimal
Moderate
Minimal
Minimal

Ovary
Pituitary Gland

Pars Distalis
Pars Distalis

Cyst
Adenoma
Angiectasis

Mild
Minimal

Note: ADENOMA TGLs = 2-7

Stomach Epithelium, Glandular

Pigmentation

Mild

Note: PIGMENT TGLs = 3-7

Thyroid Gland C Cell
Tongue

Hyperplasia
Inflammation

Minimal
Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 253

TRT#: 8

SEX: Female

DAY ON TEST: 723

DOSE: 4.0% HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Colon
Islets, Pancreatic
Tongue

Brain
Intestine Large - Rectum
Lymph Node - Mandibular
Trachea

Esophagus
Intestine Small - Duodenum
Ovary
Urinary Bladder

Intestine Large - Cecum
Intestine Small - Jejunum
Spleen
Uterus

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland

Cortex

Hyperplasia

Minimal

Cortex

Vacuolization Cytoplasmic

Minimal

Heart

Cardiomyopathy

Mild

Intestine Small

Epithelium, Ileum

Pigmentation

Mild

Kidney

Nephropathy

Marked

Liver

Fatty Change

Minimal

Lung

Artery

Mineralization

Minimal

Pancreas

Cytoplasmic Alteration

Minimal

Pituitary Gland

Pars Distalis

Adenoma

Multiple

Pars Intermed

Angiectasis

Moderate

Note: ADENOMA TGLs = 3-7

Stomach

Forestomach

Acanthosis

Moderate

Glandular, Mucosa

Dilatation

Mild

Forestomach

Hyperkeratosis

Mild

Forestomach

Hyperplasia

Basal Cell, Mild

Forestomach

Inflammation

Chronic Active, Marked

Note: HYPERPLASIA TGLs = 5-7

Note: HYPERKERATOSIS TGLs = 5-7

Note: ACANTHOSIS TGLs = 5-7

Note: INFLAMMATION TGLs = 5-7

Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 254

TRT#: 8

SEX: Female

DAY ON TEST: 594

DOSE: 4.0% HF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Esophagus
Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Islets, Pancreatic	Lymph Node - Mandibular	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Tongue	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Minimal
Brain		Hydrocephalus	Mild
Eye		Cataract	Mild
	Retina	Degeneration	Moderate
Harderian Gland		Inflammation	Chronic, Minimal
Heart		Cardiomyopathy	Minimal
Intestine Large	Colon	Parasite Metazoan	Minimal
Intestine Small	Epithelium, Jejunum	Pigmentation	Mild
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Minimal
Lung	Artery	Mineralization	Minimal
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mesenteric	Pigmentation	Minimal
Mammary Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA			
TGLs = 4-8			
Stomach	Epithelium, Glandular	Pigmentation	Mild
Thymus		Depletion Lymphoid	Moderate
Thyroid Gland	Follicle	Cyst	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 255

TRT#: 8

SEX: Female

DAY ON TEST: 716

DOSE: 4.0% HF

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Cortex	Vacuolization Cytoplasmic	Minimal
Note: LEUKEMIA MONUC	TGLs = 4-7		
Brain		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-5		
Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-3		
Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-1+2]		
Lymph Node	Mediastinal	Hemorrhage	Mild
	Mediastinal	Pigmentation	Mild
Note: HEMORRHAGE	TGLs = 1-1		
Ovary		Leukemia Mononuclear	
Pancreas		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
Note: ADENOMA	TGLs = 7-7		
Spleen		Depletion Lymphoid	Moderate
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 255

TRT#: 8

SEX: Female

DAY ON TEST: 716

DOSE: 4.0% HF

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 3-3

Stomach

Forestomach

Hyperkeratosis

Minimal

Forestomach

Hyperplasia

Basal Cell, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 257

TRT#: 8

SEX: Female

DAY ON TEST: 723

DOSE: 4.0% HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Colon
Lung
Parathyroid Gland
Trachea

Brain
Intestine Large - Rectum
Lymph Node - Mandibular
Spleen
Urinary Bladder

Esophagus
Intestine Small - Duodenum
Ovary
Stomach - Forestomach

Intestine Large - Cecum
Islets, Pancreatic
Pancreas
Tongue

OBSERVATIONS

Adrenal Gland
Heart
Intestine Small

Kidney
Liver

Cortex

Epithelium, Ileum
Epithelium, Jejunum

Angiectasis
Cardiomyopathy
Pigmentation
Pigmentation
Nephropathy
Basophilic Focus
Inflammation
Mixed Cell Focus
Fibroadenoma

Minimal
Mild
Mild
Mild
Minimal
Minimal
Granulomatous, Chronic, Minimal
Minimal

Mammary Gland
Note: FIBROADENOMA TGLs = 1-10

Pituitary Gland

Pars Distalis
Pars Distalis

Adenoma
Cyst

Mild

Note: ADENOMA TGLs = 3-7

Stomach
Note: PIGMENT TGLs = 4-7

Epithelium, Glandular

Pigmentation

Mild

Thyroid Gland

C Cell

Hyperplasia

Minimal

Uterus

Endometrium

Hyperplasia

Mild

Note: POLYP STROMAL TGLs = 2-6

Polyp Stromal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 259

TRT#: 8

SEX: Female

DAY ON TEST: 667

DOSE: 4.0% HF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Colon
Intestine Small - Jejunum
Parathyroid Gland
Trachea

Brain
Intestine Large - Rectum
Islets, Pancreatic
Spinal Cord
Uterus

Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Spleen

Intestine Large - Cecum
Intestine Small - Ileum
Ovary
Stomach - Forestomach

OBSERVATIONS

Adrenal Gland

Cortex
Cortex

Hyperplasia
Vacuolization Cytoplasmic

Moderate
Minimal

Heart

Cardiomyopathy

Mild

Kidney

Transit Epithe

Hyperplasia
Nephropathy

Mild
Mild

Liver

Basophilic Focus
Inflammation

Minimal
Granulomatous, Chronic, Minimal

Note: INFLAMMATION TGLs = 4-3

Lung

Artery

Infiltration Cellular
Mineralization
Cytoplasmic Alteration
Inflammation

Histiocyte, Minimal
Minimal
Mild
Chronic, Minimal

Pancreas

Pituitary Gland

Pars Distalis

Adenoma
Sarcoma

Skeletal Muscle

Note: SARCOMA TGLs = 1-10+10.1

Stomach

Glandular, Mucosa

Dilatation

Minimal

Thyroid Gland

C Cell

Hyperplasia

Minimal

Urinary Bladder

Transit Epithe

Hemorrhage
Hyperplasia
Inflammation

Marked
Mild
Acute, Moderate

Note: HEMORRHAGE TGLs = 3-8

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 260

TRT#: 8

SEX: Female

DAY ON TEST: 623

DOSE: 4.0% HF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Islets, Pancreatic
Nose	Parathyroid Gland	Skin	Trachea

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Intestine Small	Epithelium, Ileum	Pigmentation	Minimal
	Epithelium, Jejunum	Pigmentation	Minimal
Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
Liver		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 10-3		
Lung		Inflammation	Chronic Active, Mild
		Leukemia Mononuclear	
Note: SCATTERED THROUGHOUT THE LUNG WERE AGGREGATES OF MACRO-			
Note: PHAGES ADMIXED WITH SMALLER NUMBERS OF NEUTROPHILS.			
Note: INFLAMMATION	TGLs = 5-1+2		
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Mesenteric	Pigmentation	Minimal
Note: LEUKEMIA MONUC	TGLs = 11-8		
Note: LEUKEMIA MONUC	TGLs = 4-2		
Mammary Gland		Hyperplasia	Mild
Ovary		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 260	TRT#: 8 DOSE: 4.0% HF	SEX: Female DISP: Moribund	DAY ON TEST: 623 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
Pancreas		Atrophy	Minimal
Pituitary Gland	Pars Distalis	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 12-8		Leukemia Mononuclear	
Salivary Glands	Submandibul GI	Leukemia Mononuclear	
Spleen		Depletion Lymphoid	Marked
Note: LEUKEMIA MONUC TGLs = 8-3.1		Leukemia Mononuclear	
Stomach	Forestomach	Leukemia Mononuclear	
	Glandular	Leukemia Mononuclear	
	Epithelium, Glandular	Pigmentation	Minimal
Thymus		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-2			
Thyroid Gland	Follicle	Cyst	Mild
	C Cell	Hyperplasia	Minimal
Urinary Bladder	Transit Epithe	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7-9			
Uterus	Endometrium	Hydrometra	Moderate
		Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 262

TRT#: 8

SEX: Female

DAY ON TEST: 723

DOSE: 4.0% HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Colon
Islets, Pancreatic
Trachea

Brain
Intestine Large - Rectum
Ovary
Urinary Bladder

Esophagus
Intestine Small - Duodenum
Parathyroid Gland

Intestine Large - Cecum
Intestine Small - Jejunum
Spleen

OBSERVATIONS

Adrenal Gland

Cortex
Cortex

Angiectasis
Vacuolization Cytoplasmic
Cardiomyopathy

Mild
Minimal
Mild
Fibrinoid, Mild

Heart

Coron Artery
Epithelium, Ileum

Necrosis
Pigmentation

Intestine Small

Kidney

Transit Epithe

Hyperplasia
Nephropathy
Basophilic Focus

Minimal
Minimal
Moderate
Minimal
Coagulative, Minimal

Liver

Lung

Lymph Node

Pancreatic
Mandibular
Mediastinal
Pancreatic
Renal
Pancreatic
Renal
Pancreatic
Renal

Necrosis
Inflammation
Ectasia
Hemorrhage
Hemorrhage
Hemorrhage
Hemorrhage
Infiltration Cellular
Infiltration Cellular
Pigmentation
Pigmentation

Acute, Minimal
Mild
Minimal
Moderate
Mild
Mild
Mild
Histiocyte, Mild
Histiocyte, Mild
Mild
Mild

Note: HEMORRHAGE TGLs = 6-8
Note: HEMORRHAGE TGLs = 7-10
Note: HEMORRHAGE TGLs = 3,9-1

Pancreas

Pituitary Gland

Pars Distalis
Pars Distalis

Inflammation
Cyst
Hyperplasia

Chronic, Mild
Minimal
Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 262

TRT#: 8

SEX: Female

DAY ON TEST: 723

DOSE: 4.0% HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Glandular, Muscularis Epithelium, Glandular	Mineralization Pigmentation	Minimal Minimal
Note: PIGMENT TGLs = 8-7			
Thyroid Gland	C Cell	Hyperplasia	Minimal
Tongue		Inflammation	Chronic, Minimal
Uterus		Polyp Stromal	
Note: POLYP STROMAL TGLs = 4-6			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 263

TRT#: 8

SEX: Female

DAY ON TEST: 688

DOSE: 4.0% HF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Esophagus	Intestine Small - Duodenum	Intestine Small - Jejunum
Islets, Pancreatic	Ovary	Parathyroid Gland	Trachea
Urinary Bladder	Uterus		

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Cortex	Vacuolization Cytoplasmic	Minimal
Note: LEUKEMIA MONUC	TGLs = 5-7		
Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
Intestine Large	Cecum	Leukemia Mononuclear	
	Colon	Leukemia Mononuclear	
	Rectum	Parasite Metazoan	Minimal
Intestine Small	Ileum	Leukemia Mononuclear	
Kidney	Transit Epithe	Hyperplasia	Mild
		Leukemia Mononuclear	
		Nephropathy	Minimal
Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	Artery	Mineralization	Minimal
[Infiltration Cellular TGLS = 4-1+2]			
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Mesenteric	Necrosis	Coagulative, Marked
Note: LEUKEMIA MONUC	TGLs = 12-10		
Note: NECROSIS	TGLs = 12-10		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 263	TRT#: 8 DOSE: 4.0% HF	SEX: Female DISP: Moribund	DAY ON TEST: 688 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
Pancreas		Atrophy Leukemia Mononuclear	Moderate
Note: LEUKEMIA MONUC TGLs = 6-8+9			
Pituitary Gland	Pars Distalis Pars Distalis Pars Intermed	Adenoma Cyst Cyst Hyperplasia Leukemia Mononuclear	Mild Mild Minimal
Note: ADENOMA TGLs = 10-7	Pars Distalis		
Spleen		Leukemia Mononuclear Necrosis	Mild
Note: LEUKEMIA MONUC TGLs = 7-3 Note: NECROSIS TGLs = 11-3			
Stomach	Forestomach Forestomach Glandular	Hyperkeratosis Leukemia Mononuclear Leukemia Mononuclear	Mild
Note: LEUKEMIA MONUC TGLs = 9-7			
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 264

TRT#: 8

SEX: Female

DAY ON TEST: 724

DOSE: 4.0% HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Intestine Large - Cecum
Intestine Small - Jejunum
Parathyroid Gland
Tongue

Adrenal Gland - Medulla
Intestine Large - Colon
Islets, Pancreatic
Spleen
Trachea

Brain
Intestine Large - Rectum
Ovary
Stomach - Forestomach
Urinary Bladder

Esophagus
Intestine Small - Duodenum
Pancreas
Thyroid Gland
Uterus

OBSERVATIONS

Heart
Intestine Small
Kidney
Liver

Epithelium, Ileum

Cardiomyopathy
Pigmentation
Nephropathy
Basophilic Focus
Eosinophilic Focus
Inflammation
Infiltration Cellular
Hemorrhage
Cyst
Pigmentation

Mild
Mild
Moderate
Minimal
Minimal
Chronic Active, Minimal
Histiocyte, Minimal
Mild
Mild
Mild

Lung
Lymph Node
Pituitary Gland
Stomach

Mandibular
Pars Distalis
Epithelium, Glandular

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 266

TRT#: 8

DOSE: 4.0% HF

SEX: Female

DISP: Moribund

DAY ON TEST: 632

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Colon
Lymph Node - Mandibular
Stomach - Forestomach

Brain
Intestine Large - Rectum
Ovary
Thyroid Gland

Esophagus
Intestine Small - Duodenum
Parathyroid Gland
Trachea

Intestine Large - Cecum
Islets, Pancreatic
Spleen
Urinary Bladder

OBSERVATIONS

Adrenal Gland
Clitoral Gland

Cortex

Hyperplasia
Adenoma
Inflammation

Minimal
Chronic Active, Moderate

Note: ADENOMA TGLs = 3-10

Heart
Intestine Small

Epithelium, Ileum
Epithelium, Jejunum

Cardiomyopathy
Pigmentation
Pigmentation

Minimal
Minimal
Minimal

Kidney
Liver

Nephropathy
Basophilic Focus
Inflammation
Necrosis

Mild
Minimal
Chronic Active, Minimal
Coagulative, Minimal

Lung
Mammary Gland
Pancreas

Infiltration Cellular
Hyperplasia
Atrophy
Inflammation

Histiocyte, Minimal
Mild
Minimal
Chronic, Minimal

Pituitary Gland

Pars Distalis

Adenoma
Hyperplasia

Minimal

Note: ADENOMA TGLs = 8-7

Stomach

Epithelium, Glandular

Pigmentation

Mild

Note: PIGMENT TGLs = 9-7

Uterus

Polyp Stromal

Note: POLYP STROMAL TGLs = 6-6.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 267

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 4.0% HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Cecum
Islets, Pancreatic
Stomach - Forestomach

Bone
Intestine Large - Colon
Ovary
Tongue

Brain
Intestine Large - Rectum
Parathyroid Gland
Trachea

Esophagus
Intestine Small - Duodenum
Spleen
Urinary Bladder

OBSERVATIONS

Adrenal Gland

Cortex
Cortex

Hyperplasia
Vacuolization Cytoplasmic

Mild
Minimal

Note: 1991 CONVERSION DISCREPANCY. ORIGINAL DIAGNOSIS SITE NOT SPECIFIED.

Heart

Cardiomyopathy

Mild

Intestine Small

Epithelium, Ileum
Epithelium, Jejunum

Pigmentation
Pigmentation

Mild
Minimal

Kidney

Nephropathy

Marked

Note: NEPHROPATHY TGLs = 4-4

Liver

Basophilic Focus

Minimal

Lung

Infiltration Cellular

Histiocyte, Minimal

Lymph Node

Artery
Mandibular
Mandibular
Mandibular

Mineralization
Hemorrhage
Infiltration Cellular
Pigmentation

Minimal
Minimal
Histiocyte, Minimal
Minimal

Pancreas

Adenoma

Chronic, Minimal

Pituitary Gland

Pars Distalis
Pars Distalis

Inflammation
Angiectasis

Minimal
Minimal

Stomach

Epithelium, Glandular

Hyperplasia
Pigmentation

Mild
Mild

Note: PIGMENT TGLs = 7-7

Thyroid Gland

C Cell

Hyperplasia
Ultimobranchial Cyst

Minimal

Uterus

Polyp Stromal

Note: POLYP STROMAL TGLs = 6-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 268

TRT#: 8

SEX: Female

DAY ON TEST: 686

DOSE: 4.0% HF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Rectum
Lung
Spleen

Brain
Intestine Small - Duodenum
Lymph Node - Mandibular
Stomach - Forestomach

Esophagus
Intestine Small - Jejunum
Ovary
Trachea

Intestine Large - Colon
Islets, Pancreatic
Parathyroid Gland
Urinary Bladder

OBSERVATIONS

Adrenal Gland
Heart
Intestine Large
Intestine Small
Kidney
Note: NEPHROPATHY TGLs = 5-4
Liver
Mammary Gland
Note: ADENOCARC TGLs = 2-10
Pancreas
Pituitary Gland
Note: ADENOMA TGLs = 6-7
Stomach
Note: PIGMENT TGLs = 7-7
Thyroid Gland
Uterus

Cortex
Cortex
Cecum
Epithelium, Ileum
Pars Distalis
Epithelium, Glandular
C Cell
Endometrium

Angiectasis
Vacuolization Cytoplasmic
Cardiomyopathy
Parasite Metazoan
Pigmentation
Nephropathy
Basophilic Focus
Inflammation
Adenocarcinoma
Atrophy
Inflammation
Adenoma
Pigmentation
Hyperplasia
Hyperplasia

Minimal
Minimal
Mild
Minimal
Mild
Marked
Minimal
Granulomatous, Chronic, Mild
Minimal
Chronic, Minimal
Minimal
Minimal
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 269

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 4.0% HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Brain	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mandibular	Ovary
Pancreas	Parathyroid Gland	Spleen	Stomach - Forestomach
Tongue	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Mild
Heart		Cardiomyopathy	Mild
Intestine Small	Epithelium, Ileum	Pigmentation	Mild
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Minimal
Lymph Node	Renal	Hemorrhage	Moderate
	Renal	Infiltration Cellular	Histiocyte, Moderate
	Renal	Pigmentation	Moderate
Note: HEMORRHAGE TGLs = 5-10			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 6-7			
Stomach	Epithelium, Glandular	Pigmentation	Mild
Note: PIGMENT TGLs = 7-7			
Thyroid Gland	C Cell	Carcinoma	
	C Cell	Hyperplasia	Minimal
Note: CARCINOMA TGLs = 2-7			
Uterus		Polyp Stromal	
Note: POLYP STROMAL TGLs = 4-6			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 272

TRT#: 8

SEX: Female

DAY ON TEST: 660

DOSE: 4.0% HF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Brain

Esophagus

Eye

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Lung

Ovary

Pancreas

Parathyroid Gland

Spleen

Stomach - Glandular

Trachea

Urinary Bladder

OBSERVATIONS

Heart

Cardiomyopathy

Minimal

Kidney

Nephropathy

Mild

Liver

Cyst

Marked

Bile Duct

Hyperplasia

Mild

Infarct

Marked

Inflammation

Chronic Active, Minimal

Necrosis

Coagulative, Minimal

Note: CYST TGLs = 8-3

[Necrosis TGLS = 9-3]

Lymph Node

Mandibular

Ectasia

Mild

Lumbar

Infiltration Cellular

Histiocyte, Minimal

Lumbar

Pigmentation

Minimal

Note: PIGMENT TGLs = 10-11

Pituitary Gland

Pars Distalis

Cyst

Minimal

Stomach

Forestomach

Acanthosis

Mild

Forestomach

Hyperkeratosis

Mild

Forestomach

Hyperplasia

Basal Cell, Minimal

Note: HYPERKERATOSIS TGLs = 13-7

Note: ACANTHOSIS TGLs = 13-7

Thyroid Gland

C Cell

Hyperplasia

Minimal

Tongue

Squamous Cell Carcinoma

Note: SQUAM CEL CARC TGLs = 5-10

Uterus

Hydrometra

Marked

Metaplasia

Squamous, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 272

TRT#: 8

SEX: Female

DAY ON TEST: 660

DOSE: 4.0% HF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: METAPL TGLs = 4-6

Note: HYDROMETRA TGLs = 3-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 273

TRT#: 8

SEX: Female

DAY ON TEST: 637

DOSE: 4.0% HF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Clitoral Gland	Esophagus	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Skin	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Cortex	Necrosis	Coagulative, Mild
Note: LEUKEMIA MONUC	TGLs = 3-8		
Bone Marrow		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Intestine Large	Cecum	Necrosis	Coagulative, Acute, Mild
Kidney	Transit Epithe	Hyperplasia	Mild
		Leukemia Mononuclear	
		Nephropathy	Minimal
Note: LEUKEMIA MONUC	TGLs = 4-4		
Liver		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Necrosis	Coagulative, Moderate
Lung		Hemorrhage	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-1+2]			
Lymph Node	Mandibular	Ectasia	Minimal
	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01
 Test Type: CHRONIC
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Quercetin
 CAS Number: 117-39-5

Date Report Requested: 10/21/2014
 Time Report Requested: 12:10:17
 First Dose M/F: NA / NA
 Lab: TSI MASON

ANIMAL ID: 273	TRT#: 8 DOSE: 4.0% HF	SEX: Female DISP: Moribund	DAY ON TEST: 637 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
Mammary Gland		Hyperplasia	Minimal
Nose		Leukemia Mononuclear	
	Capillary, Submucosa	Thrombosis	Mild
Ovary		Leukemia Mononuclear	
Pancreas		Atrophy	Minimal
		Leukemia Monocytic	
		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Intermed	Cyst	Minimal
	Pars Distalis	Leukemia Mononuclear	
	Pars Intermed	Leukemia Mononuclear	
	Pars Nervosa	Leukemia Mononuclear	
Salivary Glands	Submandibul GI	Leukemia Mononuclear	
Spinal Cord		Hemorrhage	Minimal
		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-3		
Stomach	Forestomach	Ulcer	Mild
Note: ULCER	TGLs = 5-7		
Thymus		Depletion Lymphoid	Marked
Uterus		Hydrometra	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 274

TRT#: 8

DOSE: 4.0% HF

SEX: Female

DISP: Moribund

DAY ON TEST: 549

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Islets, Pancreatic	Nose	Ovary
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Tongue	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Minimal
Clitoral Gland		Inflammation	Chronic, Minimal
Heart		Cardiomyopathy	Minimal
Intestine Large	Rectum	Polyp Adenomatous	
Note: POLYP ADENOMAT TGLs = 5-7			
Intestine Small	Epithelium, Jejunum	Pigmentation	Minimal
Kidney		Nephropathy	Minimal
Liver		Basophilic Focus	Minimal
		Inflammation	Chronic, Minimal
Lung		Hemorrhage	Minimal
[Hemorrhage TGLS = 3-1]			
Lymph Node	Mandibular	Hemorrhage	Minimal
	Mediastinal	Hemorrhage	Mild
	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mesenteric	Pigmentation	Minimal
Note: HEMORRHAGE TGLs = 2-2			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
Note: FIBROADENOMA TGLs = 1-13			
Pancreas		Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 4-8			
Stomach	Epithelium, Glandular	Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 274

TRT#: 8

SEX: Female

DAY ON TEST: 549

DOSE: 4.0% HF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Thymus

Depletion Lymphoid

Moderate

Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 275

TRT#: 8

SEX: Female

DAY ON TEST: 688

DOSE: 4.0% HF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Brain	Esophagus	Intestine Large - Cecum
Intestine Small - Duodenum	Intestine Small - Ileum	Islets, Pancreatic	Ovary
Pancreas	Parathyroid Gland	Spleen	Stomach - Glandular
Tongue	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Cortex	Vacuolization Cytoplasmic	Minimal
Eye	Retina	Degeneration	Moderate
	Sclera	Metaplasia	Osseous, Minimal
Heart		Cardiomyopathy	Minimal
Intestine Large	Colon	Parasite Metazoan	Minimal
	Rectum	Parasite Metazoan	Minimal
Intestine Small	Epithelium, Jejunum	Pigmentation	Minimal
Kidney		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 5-4		
Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Marked
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mandibular	Ectasia	Minimal
	Renal	Hemorrhage	Minimal
	Mediastinal	Infiltration Cellular	Histiocyte, Mild
	Renal	Infiltration Cellular	Histiocyte, Mild
	Mediastinal	Pigmentation	Mild
	Renal	Pigmentation	Mild
Note: INFILTRAT CELL	TGLs = 7-3		
Note: PIGMENT	TGLs = 7-3		
Note: PIGMENT	TGLs = 3-1		
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Minimal
Note: ADENOMA	TGLs = 8-7		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 275

TRT#: 8

SEX: Female

DAY ON TEST: 688

DOSE: 4.0% HF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Forestomach	Acanthosis	Mild
	Forestomach	Edema	Marked
	Forestomach	Hyperkeratosis	Mild
	Forestomach	Inflammation	Chronic Active, Mild
Note: ACANTHOSIS	TGLs = 11-7		
Note: INFLAMMATION	TGLs = 11-7		
Note: EDEMA	TGLs = 11-7		
Note: HYPERKERATOSIS	TGLs = 11-7		
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 276

TRT#: 8

SEX: Female

DAY ON TEST: 723

DOSE: 4.0% HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Colon
Lung
Trachea

Brain
Intestine Large - Rectum
Lymph Node - Mandibular
Urinary Bladder

Esophagus
Intestine Small - Duodenum
Parathyroid Gland

Intestine Large - Cecum
Islets, Pancreatic
Spleen

MISSING

Ovary

OBSERVATIONS

Adrenal Gland

Cortex
Cortex

Hyperplasia
Vacuolization Cytoplasmic

Mild
Minimal

Heart

Cardiomyopathy

Minimal

Intestine Small

Epithelium, Ileum
Epithelium, Jejunum

Pigmentation
Pigmentation

Minimal
Minimal

Kidney

Nephropathy

Moderate

Liver

Basophilic Focus

Minimal

Lymph Node

Mandibular
Pancreatic
Pancreatic

Hemorrhage
Infiltration Cellular
Pigmentation

Mild
Histiocyte, Mild
Mild

Note: HEMORRHAGE TGLs = 2-8

Note: PIGMENT TGLs = 3-8

Pancreas

Inflammation

Chronic, Minimal

Pituitary Gland

Pars Distalis
Pars Distalis
Pars Intermed

Adenoma
Cyst
Cyst

Multiple
Minimal
Minimal

Note: ADENOMA TGLs = 4-7

Stomach

Epithelium, Glandular

Pigmentation

Minimal

Note: PIGMENT TGLs = 5-7

Thyroid Gland

C Cell

Hyperplasia

Minimal

Tongue

Inflammation

Chronic, Minimal

Uterus

Hydrometra

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 276

TRT#: 8

SEX: Female

DAY ON TEST: 723

DOSE: 4.0% HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 279

TRT#: 8

SEX: Female

DAY ON TEST: 723

DOSE: 4.0% HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Esophagus	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Ovary	Pancreas	Parathyroid Gland
Spleen	Stomach - Forestomach	Tongue	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Minimal
	Medulla	Hyperplasia	Mild
	Cortex	Vacuolization Cytoplasmic	Minimal
Heart		Cardiomyopathy	Minimal
Intestine Large	Colon	Parasite Metazoan	Minimal
Intestine Small	Epithelium, Ileum	Pigmentation	Minimal
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Minimal
		Fatty Change	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 1-7		
Stomach	Epithelium, Glandular	Pigmentation	Mild
Note: PIGMENT	TGLs = 2-7		
Thyroid Gland	Follicle	Cyst	Minimal
	C Cell	Hyperplasia	Minimal
Uterus		Hydrometra	Mild

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05033-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Quercetin

CAS Number: 117-39-5

Date Report Requested: 10/21/2014

Time Report Requested: 12:10:17

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 280

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 4.0% HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Rectum
Islets, Pancreatic
Stomach - Forestomach

Brain
Intestine Small - Duodenum
Lung
Tongue

Intestine Large - Cecum
Intestine Small - Ileum
Parathyroid Gland
Trachea

Intestine Large - Colon
Intestine Small - Jejunum
Spleen
Urinary Bladder

OBSERVATIONS

Adrenal Gland
Heart
Kidney
Liver

Lymph Node
Mammary Gland
Note: FIBROADENOMA TGLs = 1-10
Ovary

Note: CYST TGLs = 2-6
Pancreas
Pituitary Gland

Note: ADENOMA TGLs = 4-7
Stomach
Note: PIGMENT TGLs = 5-7
Thyroid Gland
Uterus

Cortex

Mandibular

Periovarn Tiss

Pars Distalis
Pars Distalis

Epithelium, Glandular

C Cell

Angiectasis
Cardiomyopathy
Nephropathy
Basophilic Focus
Inflammation
Hemorrhage
Fibroadenoma

Cyst
Cyst

Inflammation
Adenoma
Cyst

Pigmentation

Hyperplasia
Polyp Stromal

Mild
Mild
Mild
Minimal
Granulomatous, Chronic, Minimal
Mild

Marked
Mild

Chronic, Minimal

Mild

Mild

Minimal

PRIMARY CAUSE OF DEATH

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** END OF REPORT **

* PROTOCOL REQUIRED TISSUE