

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

C Number:	C60877B
Lock Date:	11/21/1991
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Both
PWG Approval Date	04/01/1992

Experiment Number: 05130-03
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Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 11

TRT#: 1

SEX: Male

DAY ON TEST: 273

DOSE: 0 PPM

DISP: Natural Death

HISTO: 0806

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Colon	* Intestine Small, Duodenum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder
* Zymbal's Gland			

MISSING

* Parathyroid Gland

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Liver	Necrosis	Focal, Minimal
* Lung	Congestion	Mild
[Congestion TGLS = 2-6]		
* Lymph Node, Mandibular	Hemorrhage	Minimal
[Hemorrhage TGLS = 1-2]		
* Nose	Hemorrhage	Mild
[Hemorrhage TGLS = 5-10]		
* Thymus	Hemorrhage	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
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P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 12

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 0807

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Zymbal's Gland

OBSERVATIONS

* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
	[Nephropathy TGLS = 7-7]	Pigmentation	Focal, Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Mild
	[Mixed Cell Focus TGLS = 5-5]	Mixed Cell Focus	
* Lung		Inflammation	Focal, Minimal
* Nose		Fungus	Mild
		Inflammation	Chronic Active, Moderate
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Inflammation	Suppurative, Mild
	[Inflammation TGLS = 2,3,4-9]		
* Stomach, Forestomach		Hyperplasia	Squamous, Focal, Mild
		Inflammation	Chronic, Focal, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 8,9-9]		
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
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Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 12

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 0807

ORGAN AND ACCOUNTABLE SITE STATUS

C Cell

Hyperplasia

Focal, Minimal

[Adenoma TGLS = 11-3]

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
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Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 13

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 0808

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Zymbal's Gland	

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Epididymis		Degeneration	Focal, Mild
Eye	Retina	Atrophy	Mild
	Lens	Cataract	Moderate
[Cataract TGLS = 2-13]			
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Hyperplasia	Focal, Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Focal, Minimal
* Nose		Inflammation	Subacute, Mild
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Hyperplasia	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1,4-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 14

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 0809

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Zymbal's Gland	

OBSERVATIONS

* Adrenal Medulla		Hyperplasia Pheochromocytoma Benign	Mild
[Pheochromocytoma Benign TGLS = 9-3]			
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Degeneration	Focal, Minimal
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
[Nephropathy TGLS = 8-7]		Nephropathy	Moderate
* Liver		Degeneration	Cystic, Focal, Mild
		Hepatocellular Adenoma	
		Leukemia Mononuclear	
[Hepatocellular Adenoma TGLS = 6-5,15]			
[Leukemia Mononuclear TGLS = 5,7-5,15]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose		Fungus	Moderate
		Inflammation	Chronic Active, Moderate
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Prostate		Atrophy	Mild
* Skin		Basal Cell Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 14	TRT#: 1 DOSE: 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 733 HISTO: 0809
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ORGAN AND ACCOUNTABLE SITE STATUS

[Basal Cell Adenoma TGLS = 1-14]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-13]			
* Testes	Interstit Cell	Adenoma Atrophy	Marked
[Adenoma TGLS = 2-9]			
[Atrophy TGLS = 3-9]			
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 15

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 0810

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Zymbal's Gland	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Focal, Mild
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Degeneration	Focal, Mild
Eye		Phthisis Bulbi	Moderate
[Phthisis Bulbi TGLS = 1-14]			
* Heart		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver		Fatty Change	Focal, Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-5]			
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-13]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-13]			
* Pancreas	Acinus	Atrophy	Focal, Moderate
		Leukemia Mononuclear	
* Prostate		Hyperplasia	Focal, Minimal
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 15	TRT#: 1	SEX: Male	DAY ON TEST: 733
	DOSE: 0 PPM	DISP: Terminal Sacrifice	HISTO: 0810

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 2-5]		
* Testes	Bilateral, Interstit Cell	Adenoma
[Adenoma TGLS = 4-9]		

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:45

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 21

TRT#: 1

SEX: Male

DAY ON TEST: 438

DOSE: 0 PPM

DISP: Natural Death

HISTO: 0811

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Brain
- * Intestine Large, Colon
- * Lymph Node, Mesenteric
- * Pituitary Gland
- * Seminal Vesicle
- * Stomach, Glandular
- * Urinary Bladder

- * Adrenal Medulla
- * Epididymis
- * Islets, Pancreatic
- * Mammary Gland
- * Preputial Gland
- * Skin
- * Thymus
- * Zymbal's Gland

- * Bone
- * Esophagus
- * Lung
- * Pancreas
- * Prostate
- * Spleen
- * Thyroid Gland

- * Bone Marrow
- * Heart
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Salivary Glands
- * Stomach, Forestomach
- * Trachea

AUTO PRECLUDES DIAG.

- * Intestine Large, Cecum
- * Intestine Small, Jejunum

- * Intestine Large, Rectum

- * Intestine Small, Duodenum

- * Intestine Small, Ileum

OBSERVATIONS

- * Kidney
[Carcinoma TGLS = 1-13]
- * Liver
- * Nose
- * Testes

- Transit Epithe
- Interstit Cell

- Carcinoma
- Nephropathy
- Inflammation
- Inflammation
- Hyperplasia

- Mild
- Chronic, Focal, Mild
- Acute, Mild
- Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 22

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 0812

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Zymbal's Gland		

OBSERVATIONS

* Adrenal Medulla		Hyperplasia Pheochromocytoma Benign	Minimal
[Pheochromocytoma Benign TGLS = 4-3]			
* Epididymis		Degeneration	Focal, Mild
Eye	Lens	Inflammation	Subacute, Focal, Mild
[Inflammation TGLS = 1-14]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus Eosinophilic Focus Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 6-13]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
* Preputial Gland		Inflammation	Suppurative, Mild
* Prostate		Hyperplasia Inflammation	Focal, Minimal Suppurative, Focal, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2,3-9]			

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 23

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 0813

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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, Mesenteric	* Mammary Gland	* Pancreas	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Zymbal's Gland			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Epididymis		Degeneration	Focal, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Leukemia Mononuclear	
Note: [EOSIN FOCUS] TGLs = 3-5 [Basophilic Focus TGLS = 3-5] [Leukemia Mononuclear TGLS = 3-5]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Cyst	Mild
		Hyperplasia	Plasma Cell, Mild
* Nose		Fungus	Mild
		Inflammation	Acute, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
[Hyperplasia TGLS = 5-3]			
* Prostate		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 23	TRT#: 1 DOSE: 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 733 HISTO: 0813
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ORGAN AND ACCOUNTABLE SITE STATUS

* Skin [Fibroma TGLS = 1-13]	Subcut Tiss	Hyperplasia Fibroma	Focal, Minimal
* Spleen [Leukemia Mononuclear TGLS = 4-5]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 2+7-9]	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:45

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 24

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 0814

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, Mesenteric
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla		Hyperplasia	Mild
		Pheochromocytoma Benign	
	[Pheochromocytoma Benign TGLS = 5-3]		
* Epididymis		Degeneration	Focal, Mild
		Mesothelioma Malignant	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
	[Nephropathy TGLS = 6-7]		
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Minimal
		Eosinophilic Focus	
		Fatty Change	Focal, Minimal
		Inflammation	Chronic, Focal, Mild
		Mixed Cell Focus	
	[Eosinophilic Focus TGLS = 4-14]		
* Lung		Inflammation	Focal, Minimal
Lymph Node	Mediastinal	Hemorrhage	Mild
	[Hemorrhage TGLS = 12-15]		
* Lymph Node, Mandibular		Hyperplasia	Plasma Cell, Mild
* Mammary Gland		Galactocele	Mild
Mesentery	Fat	Necrosis	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 24	TRT#: 1	SEX: Male	DAY ON TEST: 733
	DOSE: 0 PPM	DISP: Terminal Sacrifice	HISTO: 0814

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 7-17]			
* Nose		Inflammation	Acute, Mild
* Pancreas	Acinus	Atrophy	Focal, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 10-3]			
* Prostate		Inflammation	Suppurative, Focal, Mild
Skeletal Muscle	Abdominal	Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 3-16]			
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-13]			
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Atrophy	Moderate
		Hyperplasia	Focal, Minimal
		Mesothelioma Malignant	
[Adenoma TGLS = 8+11-9]			
[Hyperplasia TGLS = 8-9]			
[Mesothelioma Malignant TGLS = 9-9]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 25

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 0815

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Zymbal's Gland

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 5-3]			
* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Colon		Leiomyoma	
[Leiomyoma TGLS = 7-15]			
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
[Inflammation TGLS = 4-5]		Inflammation	Chronic, Focal, Minimal
Lymph Node	Mediastinal	Hemorrhage	Moderate
[Hemorrhage TGLS = 3-13]			
* Lymph Node, Mandibular		Cyst	Mild
* Pancreas	Acinus	Atrophy	Focal, Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland	Bilateral	Adenoma	
[Adenoma TGLS = 1-14]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-9]		Cyst	Multiple, Moderate
[Cyst TGLS = 6-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:45

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 31

TRT#: 1

SEX: Male

DAY ON TEST: 693

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 0816

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Lymph Node, Mandibular	* Nose
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Zymbal's Gland		

OBSERVATIONS

* Epididymis		Degeneration	Focal, Mild
Eye	Lens	Cataract	Mild
[Cataract TGLS = 9-16]			
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 6-7]		Pigmentation	Focal, Mild
* Liver		Basophilic Focus	
		Fatty Change	Focal, Minimal
* Lung		Inflammation	Focal, Minimal
[Inflammation TGLS = 7-6]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 10-14]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-15]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 8-3]			
* Preputial Gland	Duct	Dilatation	Mild
[Dilatation TGLS = 1-9]			
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Atrophy	Moderate
		Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 31

TRT#: 1

SEX: Male

DAY ON TEST: 693

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 0816

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3,4-9]

[Atrophy TGLS = 5-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 32

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 0817

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Mammary Gland	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Zymbal's Gland	

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla	Bilateral	Hyperplasia	Mild
		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Mild
	Atrium	Leukemia Mononuclear	
		Thrombosis	Mild
	[Thrombosis TGLS = 7-4]		
* Islets, Pancreatic		Adenoma	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Degeneration	Cystic, Focal, Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-5]		
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-13,8-8,6-14]		
	[Leukemia Mononuclear TGLS = 5-13,8-8,6-14]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-13,8-8,6-14]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:45

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 32

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 0817

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 5-13,8-8,6-14]

* Nose

Leukemia Mononuclear

* Pancreas

Acinus

Atrophy

Focal, Mild

Leukemia Mononuclear

* Pituitary Gland

Leukemia Mononuclear

* Preputial Gland

Duct

Dilatation

Moderate

* Prostate

Atrophy

Mild

* Spleen

Leukemia Mononuclear

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 2,3-9]

* Thymus

Leukemia Mononuclear

* Thyroid Gland

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 33

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 0818

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	* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Zymbal's Gland			

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Adrenal Medulla		Hyperplasia	Minimal
		Infiltration Cellular	Lymphocyte, Focal, Minimal
* Epididymis		Degeneration	Focal, Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Degeneration	Cystic, Focal, Mild
		Infiltration Cellular	Lymphocyte, Focal, Mild
		Inflammation	Chronic, Focal, Minimal
Lymph Node	Mediastinal	Hemorrhage	Minimal
[Hemorrhage TGLS = 8-13]			
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
* Preputial Gland		Adenoma	
[Adenoma TGLS = 6-9]			
* Skin	Subcut Tiss	Fibroma	
	Subcut Tiss	Inflammation	Chronic Active, Focal, Mild
[Fibroma TGLS = 1-8]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 33	TRT#: 1 DOSE: 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 733 HISTO: 0818
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ORGAN AND ACCOUNTABLE SITE STATUS

[Inflammation TGLS = 9-16]			
* Spleen		Congestion	Mild
[Congestion TGLS = 2-5]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3,4-9]			
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 34

TRT#: 1

SEX: Male

DAY ON TEST: 630

DOSE: 0 PPM

DISP: Natural Death

HISTO: 0819

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla		Hyperplasia Pheochromocytoma Benign	Mild
[Pheochromocytoma Benign TGLS = 6-3]			
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear Nephropathy	Mild
* Liver		Basophilic Focus Degeneration Leukemia Mononuclear	Cystic, Focal, Minimal
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-13]			
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Hyperplasia	Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-5,5-14]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1,2-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 35

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 0820

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Zymbal's Gland		

OBSERVATIONS

* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
		Pigmentation	Focal, Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Focal, Moderate
Lymph Node	Mediastinal	Hemorrhage	Mild
[Hemorrhage TGLS = 5-14]			
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Inflammation	Suppurative, Moderate
[Inflammation TGLS = 2-9]			
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 1-13]			
* Testes	Interstitial Cell	Adenoma	
[Adenoma TGLS = 3-9]		Atrophy	Marked
[Atrophy TGLS = 4-9]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 41

TRT#: 1

SEX: Male

DAY ON TEST: 581

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 0821

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Lung	* Lymph Node, Mandibular
* Mammary Gland	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Zymbal's Gland	

MISSING

* Thymus

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
	Valve	Degeneration	Moderate
* Kidney		Nephropathy	Mild
* Liver		Degeneration	Cystic, Focal, Mild
Lymph Node	Pancreatic	Rhabdomyosarcoma	Metastatic (Skeletal Muscle)
[Rhabdomyosarcoma TGLS = 2-13,3-8]			
* Lymph Node, Mesenteric		Rhabdomyosarcoma	Metastatic (Skeletal Muscle)
[Rhabdomyosarcoma TGLS = 2-13,3-8]			
* Nose		Inflammation	Acute, Minimal
* Pancreas	Acinus	Atrophy	Focal, Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
Skeletal Muscle	Abdominal	Rhabdomyosarcoma	
[Rhabdomyosarcoma TGLS = 1-14]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach		Ulcer	Focal, Moderate
[Ulcer TGLS = 4-13]			
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 41

TRT#: 1

SEX: Male

DAY ON TEST: 581

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 0821

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 42

TRT#: 1

SEX: Male

DAY ON TEST: 539

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 0822

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Zymbal's Gland	

OBSERVATIONS

* Brain		Hemorrhage	Focal, Mild
		Necrosis	Focal, Moderate
* Kidney		Nephropathy	Minimal
		Pigmentation	Focal, Minimal
* Liver		Degeneration	Cystic, Focal, Minimal
		Fatty Change	Focal, Minimal
* Lung		Congestion	Mild
[Congestion TGLS = 4-6]			
* Lymph Node, Mandibular		Hemorrhage	Mild
[Hemorrhage TGLS = 1-2]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 6-13]			
* Pituitary Gland	Pars Distalis	Carcinoma	
[Carcinoma TGLS = 5-3+12]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2,3-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:45

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 43

TRT#: 1

SEX: Male

DAY ON TEST: 629

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 0823

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal 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 | * Liver | * Lymph Node, Mesenteric |
| * Mammary Gland | * Parathyroid Gland | * Pituitary Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|---------------------------------|---------------------------|---------------------------|----------------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Mild |
| * Kidney | | Nephropathy | Mild |
| * Lung | | Infiltration Cellular | Histiocyte, Focal, Minimal |
| Lymph Node | Mediastinal | Hyperplasia | Plasma Cell, Moderate |
| [Hyperplasia TGLS = 3-2,4-13] | | | |
| * Lymph Node, Mandibular | | Hyperplasia | Plasma Cell, Moderate |
| [Hyperplasia TGLS = 3-2,4-13] | | | |
| * Nose | | Fungus | Moderate |
| | | Inflammation | Chronic Active, Moderate |
| * Pancreas | Acinus | Atrophy | Focal, Mild |
| * Preputial Gland | Duct | Dilatation | Mild |
| [Dilatation TGLS = 6-9] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| [Adenoma TGLS = 2-9] | | | |
| * Zymbal's Gland | | Carcinoma | |
| [Carcinoma TGLS = 1-12,14] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:45

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 44

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 0824

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Zymbal's Gland			

OBSERVATIONS

* Adrenal Medulla	Bilateral	Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Degeneration	Cystic, Focal, Mild
		Hepatocellular Adenoma	
		Leukemia Mononuclear	
[Hepatocellular Adenoma TGLS = 3-13]			
* Lung		Leukemia Mononuclear	
* Nose		Fungus	Mild
		Inflammation	Chronic Active, Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-5]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 45

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 0825

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Pituitary Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Zymbal's Gland			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Medulla	Bilateral	Hyperplasia	Mild
* Epididymis		Degeneration	Focal, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver	Bile Duct	Basophilic Focus	
		Cyst	Moderate
		Degeneration	Cystic, Focal, Minimal
[Cyst TGLS = 1-5]			
* Nose		Foreign Body	Mild
		Fungus	Mild
		Inflammation	Chronic Active, Mild
* Pancreas	Acinus	Atrophy	Focal, Mild
* Prostate		Inflammation	Chronic, Focal, Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2,3-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 51

TRT#: 1

SEX: Male

DAY ON TEST: 548

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 0826

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Intestine Large, Rectum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Pancreas	* Parathyroid Gland
* Seminal Vesicle	* Trachea	* Zymbal's Gland	

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Moderate
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Degeneration	Focal, Moderate
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Intestine Large, Cecum		Leukemia Mononuclear	
* Intestine Large, Colon		Leukemia Mononuclear	
* Intestine Small, Duodenum		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Fatty Change	Focal, Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-5]		
* Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7-8,2-12]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7-8,2-12]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7-8,2-12]		
* Mammary Gland		Leukemia Mononuclear	
* Nose		Leukemia Mononuclear	
* Pituitary Gland		Leukemia Mononuclear	
* Preputial Gland		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 51	TRT#: 1	SEX: Male	DAY ON TEST: 548
	DOSE: 0 PPM	DISP: Moribund Sacrifice	HISTO: 0826

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Leukemia Mononuclear	
* Salivary Glands		Leukemia Mononuclear	
* Skin		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-5]			
* Stomach, Forestomach		Leukemia Mononuclear	
		Ulcer	Focal, Moderate
* Stomach, Glandular		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
		Leukemia Mononuclear	
[Adenoma TGLS = 4,5,6-9]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 52

TRT#: 1

SEX: Male

DAY ON TEST: 734

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 0827

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla		Hyperplasia	Mild
* Brain		Hydrocephalus	Mild
* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
	[Nephropathy TGLS = 5-7]	Pigmentation	Focal, Minimal
* Liver		Basophilic Focus	
		Degeneration	Cystic, Focal, Minimal
		Fatty Change	Focal, Mild
* Lung		Alveolar/Bronchiolar Adenoma	
	[Alveolar/Bronchiolar Adenoma TGLS = 3-6]		
* Lymph Node, Mandibular		Hyperplasia	Plasma Cell, Mild
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-13]		
* Nose		Fungus	Mild
		Inflammation	Chronic Active, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 6-3]		
* Prostate		Inflammation	Suppurative, Focal, Mild
* Spleen		Pigmentation	Hemosiderin, Mild
	[Pigmentation TGLS = 4-5]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 52

TRT#: 1

SEX: Male

DAY ON TEST: 734

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 0827

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 2-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:45

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 53

TRT#: 1

SEX: Male

DAY ON TEST: 506

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 0828

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Zymbal's Gland		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Hydrocephalus	Mild
[Hydrocephalus TGLS = 3-1]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
		Pigmentation	Focal, Minimal
* Liver		Developmental Malformation	
		Necrosis	Focal, Minimal
[Developmental Malformation TGLS = 4-14]			
* Lung		Inflammation	Focal, Minimal
Lymph Node	Bronchial	Hemorrhage	Moderate
[Hemorrhage TGLS = 1-13]			
* Mammary Gland		Galactocele	Moderate
* Nose		Inflammation	Subacute, Mild
* Pituitary Gland	Pars Distalis	Carcinoma	
[Carcinoma TGLS = 2-3,12]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 54

TRT#: 1

SEX: Male

DAY ON TEST: 673

DOSE: 0 PPM

DISP: Natural Death

HISTO: 0829

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	* Lymph Node, Mesenteric
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder
* Zymbal's Gland			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 6-3]			
* Brain		Hydrocephalus	Moderate
* Heart		Cardiomyopathy	Mild
	Atrium	Dilatation	Moderate
[Dilatation TGLS = 3-4]			
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 2-7]			
* Liver		Basophilic Focus	
		Congestion	Mild
		Fatty Change	Focal, Mild
[Congestion TGLS = 1-5]			
* Lung		Congestion	Moderate
		Inflammation	Focal, Mild
[Congestion TGLS = 4-6]			
Lymph Node	Mediastinal	Hemorrhage	Mild
	Mediastinal	Hyperplasia	Plasma Cell, Moderate
[Hyperplasia TGLS = 8-2,7-13]			
* Lymph Node, Mandibular		Hyperplasia	Plasma Cell, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 54	TRT#: 1 DOSE: 0 PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 673 HISTO: 0829
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ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 8-2,7-13]			
* Mammary Gland		Galactocele	Mild
* Nose		Foreign Body	Mild
		Inflammation	Chronic Active, Mild
* Pancreas	Acinus	Atrophy	Focal, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 55

TRT#: 1

SEX: Male

DAY ON TEST: 734

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 0830

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Mammary Gland
* Nose	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
		Pigmentation	Focal, Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Focal, Minimal
* Pancreas	Acinus	Atrophy	Diffuse, Marked
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-9]		
* Zymbal's Gland		Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 61

TRT#: 1

SEX: Male

DAY ON TEST: 734

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 0831

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Zymbal's Gland			

OBSERVATIONS

* Bone		Hyperostosis	Mild
* Epididymis		Degeneration	Focal, Minimal
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Hyperplasia	Focal, Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
* Mammary Gland		Hyperplasia	Focal, Mild
* Nose		Foreign Body	Mild
		Inflammation	Subacute, Mild
* Pancreas	Acinus	Atrophy	Focal, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
* Prostate		Atrophy	Mild
		Inflammation	Suppurative, Mild
* Skin		Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 3-13]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1,2-9]			
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Focal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 61

TRT#: 1

SEX: Male

DAY ON TEST: 734

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 0831

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 62

TRT#: 1

SEX: Male

DAY ON TEST: 572

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 0832

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Zymbal's Gland

MISSING

* Adrenal Cortex	* Adrenal Medulla
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Kidney		Nephropathy	Mild
* Liver		Congestion	Mild
[Congestion TGLS = 4-5]			
* Lung		Congestion	Mild
[Congestion TGLS = 5-6]			
* Preputial Gland	Duct	Dilatation	Mild
[Dilatation TGLS = 2-9]			
* Prostate		Inflammation	Suppurative, Moderate
* Skin	Subcut Tiss	Neurofibrosarcoma	
[Neurofibrosarcoma TGLS = 1-13]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLS = 3-5]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 6-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 63

TRT#: 1

SEX: Male

DAY ON TEST: 734

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 0833

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
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Zymbal's Gland			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Adrenal Medulla	Bilateral	Hyperplasia	Mild
* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Hematopoietic Cell Proliferation	Mild
		Mixed Cell Focus	
		Pigmentation	Focal, Mild
* Lung		Inflammation	Focal, Mild
Mesentery	Fat	Necrosis	Focal, Mild
[Necrosis TGLS = 1-13]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
[Hyperplasia TGLS = 2-3]			
* Prostate		Atrophy	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 64

TRT#: 1

SEX: Male

DAY ON TEST: 734

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 0834

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Zymbal's Gland	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Adrenal Medulla		Leukemia Mononuclear	
		Hyperplasia	Mild
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Moderate
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
	[Nephropathy TGLS = 3-7]		
* Liver		Eosinophilic Focus	
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-5]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Nose		Hemorrhage	Mild
* Pancreas	Acinus	Atrophy	Focal, Moderate
	Acinus	Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland	Duct	Dilatation	Moderate
		Hyperplasia	Moderate
	[Dilatation TGLS = 1-9]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 64	TRT#: 1 DOSE: 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 0834
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ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 1-9]		
* Spleen		Leukemia Mononuclear
* Testes	Bilateral, Interstit Cell	Adenoma
[Adenoma TGLS = 4-9]		
* Thymus		Leukemia Mononuclear

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 65

TRT#: 1

SEX: Male

DAY ON TEST: 715

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 0835

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Zymbal's Gland			

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla		Hyperplasia	Mild
		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 14-11]			
* Epididymis		Degeneration	Focal, Minimal
* Heart		Leukemia Mononuclear	
	Atrium	Thrombosis	
[Thrombosis TGLS = 10-4]			
* Intestine Large, Colon		Leukemia Mononuclear	
* Intestine Large, Rectum		Leukemia Mononuclear	
* Islets, Pancreatic		Hyperplasia	Focal, Moderate
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
		Pigmentation	Focal, Mild
* Liver		Fatty Change	Diffuse, Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-5]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 12-6]			
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 65

TRT#: 1

SEX: Male

DAY ON TEST: 715

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 0835

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 15-8,7-16,17-2,9-13]			
[Leukemia Mononuclear TGLS = 15-8,7-16,17-2,9-13]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 15-8,7-16,17-2,9-13]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 15-8,7-16,17-2,9-13]			
* Nose		Inflammation	Chronic Active, Mild
		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
* Preputial Gland		Inflammation	Suppurative, Moderate
[Inflammation TGLS = 16-9]			
* Prostate		Degeneration	Focal, Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1,2,13-5,14,15]			
* Stomach, Forestomach		Ulcer	Focal, Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3,4-9]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	
[Adenoma TGLS = 11-3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:45

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 71

TRT#: 1

SEX: Male

DAY ON TEST: 570

DOSE: 0 PPM

DISP: Natural Death

HISTO: 0836

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone

MISSING

* Mammary Gland

* Zymbal's Gland

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

OBSERVATIONS

* Adrenal Cortex

[Leukemia Mononuclear TGLS = 4-3]

Leukemia Mononuclear

* Adrenal Medulla

[Leukemia Mononuclear TGLS = 4-3]

Leukemia Mononuclear

* Bone Marrow

Leukemia Mononuclear

* Brain

Leukemia Mononuclear

* Epididymis

Leukemia Mononuclear

* Esophagus

Leukemia Mononuclear

* Heart

Cardiomyopathy

Mild

Leukemia Mononuclear

Schwannoma Malignant

* Intestine Large, Cecum

Leukemia Mononuclear

* Intestine Large, Colon

Leukemia Mononuclear

* Intestine Large, Rectum

Leukemia Mononuclear

* Intestine Small, Duodenum

Leukemia Mononuclear

* Intestine Small, Ileum

Leukemia Mononuclear

* Islets, Pancreatic

Leukemia Mononuclear

* Kidney

Leukemia Mononuclear

Nephropathy

Mild

Leukemia Mononuclear

* Liver

[Leukemia Mononuclear TGLS = 3-5]

* Lung

Leukemia Mononuclear

* Lymph Node, Mandibular

Leukemia Mononuclear

* Lymph Node, Mesenteric

Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 71	TRT#: 1	SEX: Male	DAY ON TEST: 570
	DOSE: 0 PPM	DISP: Natural Death	HISTO: 0836

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose		Leukemia Mononuclear
* Pancreas	Acinus	Leukemia Mononuclear
* Parathyroid Gland		Leukemia Mononuclear
* Pituitary Gland		Leukemia Mononuclear
* Preputial Gland		Leukemia Mononuclear
* Prostate		Leukemia Mononuclear
* Salivary Glands		Leukemia Mononuclear
* Seminal Vesicle		Leukemia Mononuclear
* Skin		Leukemia Mononuclear
* Spleen		Leukemia Mononuclear
[Leukemia Mononuclear TGLS = 1,2-5]		
* Stomach, Forestomach		Leukemia Mononuclear
* Stomach, Glandular		Leukemia Mononuclear
* Testes	Bilateral, Interstit Cell	Adenoma
[Adenoma TGLS = 5-9]		
* Thymus		Leukemia Mononuclear
* Thyroid Gland		Leukemia Mononuclear
* Trachea		Leukemia Mononuclear
* Urinary Bladder		Leukemia Mononuclear

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 72

TRT#: 1

SEX: Male

DAY ON TEST: 614

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 0837

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Intestine Large, Colon	* Intestine Small, Jejunum
* Mammary Gland	Mesentery	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Thyroid Gland	* Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Degeneration	Focal, Moderate
		Leukemia Mononuclear	
* Esophagus		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Intestine Large, Cecum		Leukemia Mononuclear	
* Intestine Large, Rectum		Leukemia Mononuclear	
* Intestine Small, Duodenum		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
* Islets, Pancreatic		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-5]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-8]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-8]			
* Nose		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Focal, Minimal
	Acinus	Leukemia Mononuclear	
* Pituitary Gland		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 72	TRT#: 1	SEX: Male	DAY ON TEST: 614
	DOSE: 0 PPM	DISP: Moribund Sacrifice	HISTO: 0837

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 6-3]		
* Preputial Gland		Leukemia Mononuclear
* Skin		Leukemia Mononuclear
* Spleen		Leukemia Mononuclear
[Leukemia Mononuclear TGLS = 4-5]		
* Stomach, Forestomach		Leukemia Mononuclear
* Stomach, Glandular		Leukemia Mononuclear
* Testes	Bilateral, Interstit Cell	Adenoma Leukemia Mononuclear
[Adenoma TGLS = 2,3-9]		
* Thymus		Leukemia Mononuclear
* Trachea		Leukemia Mononuclear
* Urinary Bladder		Leukemia Mononuclear

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 73

TRT#: 1

SEX: Male

DAY ON TEST: 734

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 0838

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mandibular	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Zymbal's Gland		

OBSERVATIONS

* Adrenal Cortex [Hyperplasia TGLS = 6-3]		Hyperplasia	Focal, Minimal
* Adrenal Medulla [Hyperplasia TGLS = 6-3]		Hyperplasia	Mild
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Leukemia Mononuclear	
* Islets, Pancreatic		Adenoma	
* Kidney		Leukemia Mononuclear	
* Liver		Nephropathy	Mild
	Bile Duct	Basophilic Focus	
		Eosinophilic Focus	
		Hyperplasia	Focal, Moderate
		Leukemia Mononuclear	
[Eosinophilic Focus TGLS = 5-5,13]			
[Leukemia Mononuclear TGLS = 4-5,13]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Leukemia Mononuclear	
* Nose		Leukemia Mononuclear	
* Pancreas	Acinus	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 73	TRT#: 1 DOSE: 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 0838
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Adenoma TGLS = 7-3]	Pars Distalis	Adenoma Leukemia Mononuclear
* Spleen [Leukemia Mononuclear TGLS = 3-14]		Leukemia Mononuclear
* Testes [Adenoma TGLS = 1,2-9]	Bilateral, Interstit Cell	Adenoma Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 74

TRT#: 1

SEX: Male

DAY ON TEST: 679

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 0839

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Jejunum
* Parathyroid Gland	* Skin	* Thyroid Gland	* Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 17-3]			
* Adrenal Medulla		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 17-3]			
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 13,16-1]			
* Epididymis		Degeneration	Focal, Mild
* Esophagus		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-4]			
* Intestine Large, Cecum		Leukemia Mononuclear	
* Intestine Small, Duodenum		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 19-8,15]			
* Intestine Small, Ileum		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 19-8,15]			
* Islets, Pancreatic		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8,22-7]			
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 15-5,21-15]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 12-6]			
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 18-14,9-18,1-13,7-8]			
[Leukemia Mononuclear TGLS = 18-14,9-18,1-13,7-8]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 74	TRT#: 1 DOSE: 0 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 679 HISTO: 0839
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ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mandibular [Leukemia Mononuclear TGLS = 18-14,9-18,1-13,7-8]		Leukemia Mononuclear	
* Lymph Node, Mesenteric [Leukemia Mononuclear TGLS = 18-14,9-18,1-13,7-8]		Leukemia Mononuclear	
* Mammary Gland		Leukemia Mononuclear	
* Nose		Inflammation	Chronic Active, Moderate
* Pancreas	Acinus	Leukemia Mononuclear	
* Pituitary Gland [Leukemia Mononuclear TGLS = 14-3]		Leukemia Mononuclear	
* Preputial Gland [Leukemia Mononuclear TGLS = 23-9]		Leukemia Mononuclear	
* Prostate		Leukemia Mononuclear	
* Salivary Glands		Leukemia Mononuclear	
* Seminal Vesicle		Leukemia Mononuclear	
* Spleen [Leukemia Mononuclear TGLS = 6-5]		Leukemia Mononuclear	
* Stomach, Forestomach [Leukemia Mononuclear TGLS = 20-4,20]		Leukemia Mononuclear Ulcer	Focal, Mild
* Stomach, Glandular [Leukemia Mononuclear TGLS = 20-4,20]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 2,3,4,5-9]	Bilateral, Interstit Cell	Adenoma Leukemia Mononuclear	
* Thymus [Leukemia Mononuclear TGLS = 11-3]		Leukemia Mononuclear	
* Trachea		Leukemia Mononuclear	
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 75

TRT#: 1

SEX: Male

DAY ON TEST: 734

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 0840

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Zymbal's Gland			

OBSERVATIONS

* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Mild
	Atrium	Thrombosis	Moderate
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 3-7]			
* Liver		Basophilic Focus	
		Degeneration	Cystic, Focal, Mild
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Atrophy	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1,2-9]			
* Thyroid Gland	C Cell	Carcinoma	
[Carcinoma TGLS = 4-3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 81

TRT#: 1

SEX: Male

DAY ON TEST: 734

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 0841

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland
* Nose	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Zymbal's Gland

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Moderate
* Adrenal Medulla		Pheochromocytoma Malignant	
[Pheochromocytoma Malignant TGLS = 4-3]			
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Degeneration	Focal, Mild
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
[Nephropathy TGLS = 5-7]			
* Liver		Basophilic Focus	
		Hepatocellular Adenoma	Multiple
	Bile Duct	Hyperplasia	Focal, Moderate
		Leukemia Mononuclear	
[Hepatocellular Adenoma TGLS = 2-5]			
[Leukemia Mononuclear TGLS = 3-5]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pancreas	Artery	Inflammation	Focal, Mild
* Pituitary Gland		Angiectasis	Focal, Marked
		Leukemia Mononuclear	
[Angiectasis TGLS = 7-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 81	TRT#: 1	SEX: Male	DAY ON TEST: 734
	DOSE: 0 PPM	DISP: Terminal Sacrifice	HISTO: 0841

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Leukemia Mononuclear TGLS = 1-13]		Leukemia Mononuclear
* Testes [Adenoma TGLS = 6-9]	Bilateral, Interstit Cell	Adenoma Leukemia Mononuclear
* Thymus		Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:45

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 82

TRT#: 1

SEX: Male

DAY ON TEST: 673

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 0842

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
		Pigmentation	Focal, Minimal
* Liver		Basophilic Focus	
		Developmental Malformation	
	Bile Duct	Eosinophilic Focus	
		Hyperplasia	Focal, Mild
	[Developmental Malformation TGLS = 3-14]		
	Lymph Node	Hemorrhage	Mild
	[Hemorrhage TGLS = 4-15,1-2]		
* Lymph Node, Mandibular	Renal	Hemorrhage	Mild
		Hyperplasia	Plasma Cell, Mild
	[Hemorrhage TGLS = 4-15,1-2]		
	[Hyperplasia TGLS = 1-2]		
* Nose		Foreign Body	Mild
		Inflammation	Subacute, Mild
* Pancreas	Acinus	Atrophy	Focal, Moderate
* Pituitary Gland	Pars Distalis	Hypertrophy	Focal, Mild
	[Hypertrophy TGLS = 6-3]		
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 82	TRT#: 1	SEX: Male	DAY ON TEST: 673
	DOSE: 0 PPM	DISP: Moribund Sacrifice	HISTO: 0842

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2-9]		
* Thyroid Gland	C Cell	Adenoma
* Zymbal's Gland		Squamous Cell Papilloma
[Squamous Cell Papilloma TGLS = 5-12,13]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 83

TRT#: 1

SEX: Male

DAY ON TEST: 734

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 0843

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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
* Lung	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Zymbal's Gland		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Moderate
* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Focal, Minimal
[Basophilic Focus TGLS = 4-5]			
[Eosinophilic Focus TGLS = 4-5]			
[Fatty Change TGLS = 4-5]			
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 2-14]			
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Preputial Gland	Duct	Dilatation	Moderate
* Prostate		Atrophy	Moderate
* Skin		Basal Cell Adenoma	
[Basal Cell Adenoma TGLS = 1-13]			
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 83

TRT#: 1

SEX: Male

DAY ON TEST: 734

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 0843

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 84

TRT#: 1

SEX: Male

DAY ON TEST: 734

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 0844

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Zymbal's Gland		

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Hyperplasia	Focal, Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Minimal
		Fatty Change	Focal, Minimal
		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Focal, Mild
	Acinus	Vacuolization Cytoplasmic	Focal, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	

[Adenoma TGLS = 1-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 85	TRT#: 1	SEX: Male	DAY ON TEST: 734
	DOSE: 0 PPM	DISP: Terminal Sacrifice	HISTO: 0845

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Zymbal's Gland			

OBSERVATIONS

* Epididymis		Degeneration	Focal, Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Lung	Alveolar Epith	Hyperplasia	Focal, Mild
		Infiltration Cellular	Histiocyte, Focal, Mild
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

[Adenoma TGLS = 2,3-9]

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 91

TRT#: 1

SEX: Male

DAY ON TEST: 734

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 0846

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Zymbal's Gland	

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Mild
	Atrium	Thrombosis	Marked
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 4-7]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatocellular Adenoma	
* Lymph Node, Mandibular		Cyst	Mild
* Nose		Inflammation	Acute, Mild
* Parathyroid Gland	Bilateral	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
* Preputial Gland	Duct	Dilatation	Moderate
[Dilatation TGLS = 1-9]			
* Spleen		Fibrosis	Focal, Moderate
[Fibrosis TGLS = 5-5]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2,3-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 92	TRT#: 1	SEX: Male	DAY ON TEST: 607
	DOSE: 0 PPM	DISP: Moribund Sacrifice	HISTO: 0847

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Intestine Small, Jejunum	* Skin	* Zymbal's Gland
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OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-3]			
* Adrenal Medulla		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-3]			
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-1]			
* Epididymis		Leukemia Mononuclear	
* Esophagus		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Intestine Large, Cecum		Leukemia Mononuclear	
* Intestine Large, Colon		Leukemia Mononuclear	
* Intestine Large, Rectum		Leukemia Mononuclear	
* Intestine Small, Duodenum		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
* Islets, Pancreatic		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-7]		Nephropathy	Mild
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-5]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Leukemia Mononuclear	
* Nose		Inflammation	Acute, Mild
		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:45

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 92

TRT#: 1

SEX: Male

DAY ON TEST: 607

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 0847

ORGAN AND ACCOUNTABLE SITE STATUS

	Acinus	Leukemia Mononuclear
* Parathyroid Gland		Leukemia Mononuclear
* Pituitary Gland		Leukemia Mononuclear
[Leukemia Mononuclear TGLS = 9-3]		
* Preputial Gland		Leukemia Mononuclear
* Prostate		Leukemia Mononuclear
* Salivary Glands		Leukemia Mononuclear
* Seminal Vesicle		Leukemia Mononuclear
* Spleen		Leukemia Mononuclear
[Leukemia Mononuclear TGLS = 5-5]		
* Stomach, Forestomach		Leukemia Mononuclear
* Stomach, Glandular		Leukemia Mononuclear
* Testes	Bilateral, Interstit Cell	Adenoma
[Adenoma TGLS = 1,2-9]		Leukemia Mononuclear
* Thymus		Leukemia Mononuclear
* Thyroid Gland		Leukemia Mononuclear
* Trachea		Leukemia Mononuclear
* Urinary Bladder		Leukemia Mononuclear
[Leukemia Mononuclear TGLS = 3-7]		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 93

TRT#: 1

SEX: Male

DAY ON TEST: 734

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 0848

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	* Lung
* Nose	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Zymbal's Gland	

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla		Hyperplasia	Mild
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
Eye	Lens	Cataract	Moderate
	Cornea	Inflammation	Mild
		[Cataract TGLS = 3-13]	
		[Inflammation TGLS = 3-13]	
* Heart		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Degeneration	Cystic, Focal, Minimal
	Bile Duct	Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 1-5]	
* Lymph Node, Mandibular		Hyperplasia	Plasma Cell, Moderate
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Galactoceles	Mild
* Pancreas	Acinus	Atrophy	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 93	TRT#: 1 DOSE: 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 0848
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Adenoma TGLS = 4-3]	Acinus Pars Distalis Pars Distalis	Leukemia Mononuclear Adenoma Hyperplasia	Focal, Minimal
* Prostate		Vacuolization Cytoplasmic	Focal, Mild
* Spleen		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 2-9]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Focal, Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 94	TRT#: 1	SEX: Male	DAY ON TEST: 734
	DOSE: 0 PPM	DISP: Terminal Sacrifice	HISTO: 0849

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Zymbal's Gland	

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
		Pigmentation	Focal, Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Focal, Minimal
		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 2-13]			
* Pancreas	Acinus	Atrophy	Focal, Mild
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 95

TRT#: 1

SEX: Male

DAY ON TEST: 572

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 0850

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Zymbal's Gland

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Brain		Hydrocephalus	Mild
		Infiltration Cellular	Lymphocyte, Focal, Mild
* Kidney		Nephropathy	Moderate
* Liver		Inflammation	Chronic, Focal, Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Histiocyte, Focal, Minimal
* Lymph Node, Mandibular		Hyperplasia	Plasma Cell, Mild
* Mammary Gland		Galactoceles	Marked
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 1-3]		
* Preputial Gland	Duct	Dilatation	Moderate
* Testes	Interstit Cell	Hyperplasia	Focal, Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 101

TRT#: 1
DOSE: 0 PPM

SEX: Male
DISP: Natural Death

DAY ON TEST: 618
HISTO: 0851

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Zymbal's Gland		

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Ileum
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OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
		Mineralization	Focal, Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Mild
		Pigmentation	Focal, Mild
* Liver		Congestion	Mild
* Lung		Congestion	Moderate
* Nose		Inflammation	Subacute, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland	Duct	Dilatation	Moderate
		Inflammation	Suppurative, Mild
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLS = 1-13]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2,3-9]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 102

TRT#: 1

SEX: Male

DAY ON TEST: 682

DOSE: 0 PPM

DISP: Natural Death

HISTO: 0852

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Zymbal's Gland

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Ileum
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OBSERVATIONS

* Adrenal Cortex		Hemorrhage	Marked
* Adrenal Medulla		Hyperplasia	Mild
		Pheochromocytoma Malignant	
	[Pheochromocytoma Malignant TGLS = 2-13]		
* Heart		Cardiomyopathy	Mild
	Atrium	Dilatation	Moderate
	[Dilatation TGLS = 8-4]		
* Kidney		Nephropathy	Moderate
	[Nephropathy TGLS = 3-7]		
* Liver		Fatty Change	Focal, Minimal
	Centrilobular	Necrosis	Mild
	[Necrosis TGLS = 9-5]		
* Lung		Congestion	Marked
	[Congestion TGLS = 7-6]		
* Lymph Node, Mandibular		Hyperplasia	Plasma Cell, Mild
* Nose		Congestion	Moderate
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 4-3]		
* Prostate		Inflammation	Suppurative, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 102

TRT#: 1

SEX: Male

DAY ON TEST: 682

DOSE: 0 PPM

DISP: Natural Death

HISTO: 0852

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 5-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 103

TRT#: 1

SEX: Male

DAY ON TEST: 734

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 0853

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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
* Lung	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Pituitary Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Zymbal's Gland	

OBSERVATIONS

* Adrenal Medulla		Hyperplasia Pheochromocytoma Benign	Mild
[Pheochromocytoma Benign TGLS = 6-3]			
* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Mild
	Atrium	Thrombosis	Moderate
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 5-7]			
* Liver		Basophilic Focus Clear Cell Focus Degeneration	Cystic, Focal, Mild
	Bile Duct	Hyperplasia	Focal, Mild
* Lymph Node, Mesenteric		Hemorrhage	Moderate
* Pancreas	Acinus	Atrophy	Focal, Moderate
* Parathyroid Gland		Hyperplasia	Mild
* Preputial Gland	Duct	Dilatation	Moderate
[Dilatation TGLS = 1-9]			
* Prostate		Atrophy	Mild
* Spleen		Fibrosis	Focal, Mild
[Fibrosis TGLS = 3-5]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-9]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 103

TRT#: 1
DOSE: 0 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 734
HISTO: 0853

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 104

TRT#: 1

SEX: Male

DAY ON TEST: 734

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 0854

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Lymph Node, Mandibular	* Pancreas
* Pituitary Gland	* Preputial Gland	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Zymbal's Gland

MISSING

* Parathyroid Gland

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Focal, Minimal
* Lung	Alveolar Epith	Hyperplasia	Focal, Mild
		Infiltration Cellular	Histiocyte, Focal, Mild
* Lymph Node, Mesenteric		Hemorrhage	Moderate
* Mammary Gland		Galactoceles	Marked
* Nose		Foreign Body	Moderate
		Inflammation	Acute, Moderate
* Prostate		Atrophy	Mild
* Salivary Glands		Atrophy	Focal, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

[Adenoma TGLS = 1-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 105

TRT#: 1

SEX: Male

DAY ON TEST: 734

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 0855

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Zymbal's Gland	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Mild
	Atrium	Thrombosis	
* Islets, Pancreatic		Hyperplasia	Focal, Mild
* Kidney		Nephropathy	Moderate
		Pigmentation	Focal, Mild
* Liver		Basophilic Focus	
		Mixed Cell Focus	
* Lung		Inflammation	Focal, Minimal
* Pancreas	Acinus	Atrophy	Focal, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 3-3]		
* Prostate		Atrophy	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1,2-9]		
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:45

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 131

TRT#: 3

SEX: Male

DAY ON TEST: 621

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 0866

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Zymbal's Gland

OBSERVATIONS

* Adrenal Medulla	Bilateral	Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 5-7]			
* Lung		Infiltration Cellular	Histiocyte, Focal, Minimal
* Lymph Node, Mandibular		Hyperplasia	Plasma Cell, Moderate
[Hyperplasia TGLS = 6-2]			
* Mammary Gland		Galactocele	Moderate
[Galactocele TGLS = 2-13]		Inflammation	Acute, Focal, Mild
* Nose		Inflammation	Subacute, Mild
	Olfactory Epi	Necrosis	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland	Duct	Dilatation	Mild
[Dilatation TGLS = 7-9]			
* Skin		Basal Cell Carcinoma	
[Basal Cell Carcinoma TGLS = 1-14]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3,4-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 132

TRT#: 3

SEX: Male

DAY ON TEST: 601

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 0867

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Epididymis		Degeneration	Focal, Mild
Eye		Inflammation	Chronic, Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Congestion	Mild
* Lymph Node, Mandibular		Cyst	Mild
		Hyperplasia	Plasma Cell, Moderate
[Hyperplasia TGLS = 4-2]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 5+6-9]			
* Zymbal's Gland		Carcinoma	
[Carcinoma TGLS = 1-12]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 133

TRT#: 3

SEX: Male

DAY ON TEST: 637

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 0868

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Zymbal's Gland	

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Adenoma	
[Adenoma TGLS = 1-9]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2+3-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 134

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 0869

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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, Mesenteric	* Mammary Gland	* Nose
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Zymbal's Gland			

MISSING

* Thymus

OBSERVATIONS

* Epididymis		Degeneration	Focal, Mild
Eye	Retina	Atrophy	Moderate
[Atrophy TGLS = 1-14]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 5-7]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Lung		Inflammation	Focal, Minimal
* Lymph Node, Mandibular		Hyperplasia	Plasma Cell, Moderate
[Hyperplasia TGLS = 3-2]			
* Pancreas	Acinus	Atrophy	Focal, Mild
Pharynx	Palate	Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 2-10]			
* Preputial Gland	Duct	Dilatation	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 6-9]			
Tooth	Gingiva	Inflammation	Chronic Active, Mild
[Inflammation TGLS = 2-10,13]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 134

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 0869

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 135

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 0870

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 8-3]			
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Degeneration	Focal, Mild
* Heart		Leukemia Mononuclear	
* Intestine Large, Cecum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Marked
[Nephropathy TGLS = 9-7]			
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-5]			
* Lung		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-18]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-18]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-18]			
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Focal, Moderate
[Fibroadenoma TGLS = 1-17]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 135	TRT#: 3	SEX: Male	DAY ON TEST: 730
	DOSE: 1000 PPM	DISP: Terminal Sacrifice	HISTO: 0870

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose		Inflammation	Chronic Active, Mild
* Pancreas	Acinus	Atrophy	Focal, Minimal
	Acinus	Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
		Leukemia Mononuclear	
* Preputial Gland	Duct	Dilatation	Mild
	[Dilatation TGLS = 2-9]		
* Prostate		Atrophy	Mild
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-13]		
* Stomach, Forestomach		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
		Leukemia Mononuclear	
	[Adenoma TGLS = 6-9]		
* Thymus		Leukemia Mononuclear	
* Thyroid Gland		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 141

TRT#: 3

SEX: Male

DAY ON TEST: 641

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 0871

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Esophagus	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Jejunum	* Parathyroid Gland	* Prostate	* Thyroid Gland
* Trachea	* Zymbal's Gland		

OBSERVATIONS

* Adrenal Cortex	Leukemia Mononuclear	
* Adrenal Medulla	Leukemia Mononuclear	
* Bone Marrow	Leukemia Mononuclear	
* Brain	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-1]		
* Epididymis	Degeneration	Focal, Mild
* Heart	Leukemia Mononuclear	
* Intestine Large, Cecum	Leukemia Mononuclear	
* Intestine Small, Duodenum	Leukemia Mononuclear	
* Intestine Small, Ileum	Leukemia Mononuclear	
* Islets, Pancreatic	Leukemia Mononuclear	
* Kidney	Leukemia Mononuclear	
	Nephropathy	Mild
* Liver	Degeneration	Cystic, Focal, Minimal
	Hepatocellular Adenoma	
	Leukemia Mononuclear	
	Necrosis	Focal, Mild
[Leukemia Mononuclear TGLS = 3,4-5]		
* Lung	Leukemia Mononuclear	
* Lymph Node, Mandibular	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-2,10-8]		
* Lymph Node, Mesenteric	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-2,10-8]		
* Mammary Gland	Leukemia Mononuclear	
* Nose	Foreign Body	Mild
	Inflammation	Acute, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 141

TRT#: 3

SEX: Male

DAY ON TEST: 641

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 0871

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Leukemia Mononuclear
* Pituitary Gland		Leukemia Mononuclear
* Preputial Gland		Leukemia Mononuclear
* Salivary Glands		Leukemia Mononuclear
* Seminal Vesicle		Leukemia Mononuclear
* Skin		Leukemia Mononuclear
* Spleen		Leukemia Mononuclear
[Leukemia Mononuclear TGLS = 2-5]		
* Stomach, Forestomach		Leukemia Mononuclear
* Stomach, Glandular		Leukemia Mononuclear
* Testes	Bilateral, Interstit Cell	Adenoma
[Adenoma TGLS = 1-9]		
* Thymus		Leukemia Mononuclear
[Leukemia Mononuclear TGLS = 9-3]		
* Urinary Bladder		Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 142

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 0872

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Lung	* Lymph Node, Mesenteric
* Nose	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Zymbal's Gland			

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 4-7]			
* Liver		Basophilic Focus	
		Degeneration	Cystic, Focal, Mild
* Lymph Node, Mandibular		Hyperplasia	Plasma Cell, Mild
* Mammary Gland		Fibroadenoma	Multiple
		Galactocele	Mild
[Fibroadenoma TGLS = 1,2-13,14]			
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Focal, Minimal
[Adenoma TGLS = 5-3]			
* Stomach, Forestomach		Hyperplasia	Basal Cell, Focal, Minimal
* Testes	Interstitial Cell	Adenoma	
[Adenoma TGLS = 6-9]			
* Thyroid Gland	C Cell	Adenoma	
[Adenoma TGLS = 3-3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 143

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 0873

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Zymbal's Gland	

OBSERVATIONS

* Adrenal Medulla	Bilateral	Hyperplasia	Mild
* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Hyperplasia	Focal, Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatocellular Adenoma	
		Leukemia Mononuclear	
	[Hepatocellular Adenoma TGLS = 6-5]		
* Mammary Gland		Galactocele	Mild
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLS = 1-14]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2,3-5,13]		
* Testes	Bilateral, Interstit Cell	Adenoma	
		Atrophy	Moderate
	[Adenoma TGLS = 4-9]		
	[Atrophy TGLS = 5-9]		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 144

TRT#: 3

SEX: Male

DAY ON TEST: 637

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 0874

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Zymbal's Gland		

OBSERVATIONS

* Adrenal Cortex		Congestion	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Minimal
		Pigmentation	Focal, Mild
* Liver		Basophilic Focus	
		Degeneration	Cystic, Focal, Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-5]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-6]			
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-13]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-13]			
* Preputial Gland		Adenoma	
[Adenoma TGLS = 1-9]			
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 144	TRT#: 3	SEX: Male	DAY ON TEST: 637
	DOSE: 1000 PPM	DISP: Moribund Sacrifice	HISTO: 0874

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 4+10-14]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 2,3-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:45

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 145

TRT#: 3

SEX: Male

DAY ON TEST: 721

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 0875

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone

* Parathyroid Gland

* Preputial Gland

OBSERVATIONS

* Adrenal Cortex

Degeneration

Cystic, Focal, Mild

Leukemia Mononuclear

Vacuolization Cytoplasmic

Focal, Mild

[Degeneration TGLS = 8-3]

* Adrenal Medulla

Bilateral

Hyperplasia

Mild

Leukemia Mononuclear

* Bone Marrow

Leukemia Mononuclear

* Brain

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 14-1]

* Epididymis

Degeneration

Focal, Mild

* Esophagus

Leukemia Mononuclear

* Heart

Leukemia Mononuclear

* Intestine Large, Cecum

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 17-4,17-8]

* Intestine Large, Colon

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 17-4,17-8]

* Intestine Large, Rectum

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 17-4,17-8]

* Intestine Small, Duodenum

Leukemia Mononuclear

* Intestine Small, Ileum

Leukemia Mononuclear

* Intestine Small, Jejunum

Leukemia Mononuclear

* Islets, Pancreatic

Leukemia Mononuclear

* Kidney

Transit Epithe

Carcinoma

Leukemia Mononuclear

Nephropathy

Moderate

[Nephropathy TGLS = 9-7]

* Liver

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 7-5]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 145	TRT#: 3	SEX: Male	DAY ON TEST: 721
	DOSE: 1000 PPM	DISP: Moribund Sacrifice	HISTO: 0875

ORGAN AND ACCOUNTABLE SITE STATUS

* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 13-6]			
* Lymph Node	Axillary	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-18,2-2,11-8,12-3,18-13,15-15]			
[Leukemia Mononuclear TGLS = 10-18,2-2,11-8,12-3,18-13,15-15]			
[Leukemia Mononuclear TGLS = 10-18,2-2,11-8,12-3,18-13,15-15]			
[Leukemia Mononuclear TGLS = 10-18,2-2,11-8,12-3,18-13,15-15]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-18,2-2,11-8,12-3,18-13,15-15]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-18,2-2,11-8,12-3,18-13,15-15]			
* Mammary Gland		Leukemia Mononuclear	
* Nose		Inflammation	Chronic Active, Mild
		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Focal, Mild
	Acinus	Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
* Prostate		Atrophy	Mild
		Leukemia Mononuclear	
* Salivary Glands		Leukemia Mononuclear	
* Seminal Vesicle		Leukemia Mononuclear	
* Skin	Subcut Tiss	Fibroma	
		Leukemia Mononuclear	
[Fibroma TGLS = 1-17]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-14]			
* Stomach, Forestomach		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 145

TRT#: 3

SEX: Male

DAY ON TEST: 721

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 0875

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular

Leukemia Mononuclear

* Testes

Bilateral, Interstit Cell

Adenoma

Leukemia Mononuclear

[Adenoma TGLS = 4,5-9]

* Thymus

Leukemia Mononuclear

* Thyroid Gland

Leukemia Mononuclear

* Trachea

Leukemia Mononuclear

* Urinary Bladder

Leukemia Mononuclear

* Zymbal's Gland

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 151

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 0876

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Esophagus
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Zymbal's Gland	

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Leukemia Mononuclear	
* Intestine Small, Jejunum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
* Liver		Nephropathy	Mild
		Degeneration	Cystic, Focal, Mild
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
[Hyperplasia TGLS = 4-5]			
[Leukemia Mononuclear TGLS = 4-5]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6]			
* Lymph Node, Mandibular		Hyperplasia	Plasma Cell, Mild
* Nose		Fungus	Mild
		Inflammation	Chronic Active, Mild
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
[Hyperplasia TGLS = 7-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:45

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 151

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 0876

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin [Fibroma TGLS = 1-14]	Subcut Tiss	Fibroma
* Spleen [Leukemia Mononuclear TGLS = 3-13]		Leukemia Mononuclear
* Testes [Adenoma TGLS = 2-9]	Bilateral, Interstit Cell	Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 152

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 0877

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Lymph Node, Mandibular	* Nose	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Zymbal's Gland

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Epididymis		Degeneration	Focal, Minimal
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Fatty Change	Focal, Minimal
[Eosinophilic Focus TGLS = 4-5]			
* Lymph Node, Mesenteric		Cyst	Moderate
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Prostate		Degeneration	Focal, Minimal
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 2-14]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 5-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:45

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 153

TRT#: 3

SEX: Male

DAY ON TEST: 713

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 0878

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Intestine Large, Rectum
* Salivary Glands	* Seminal Vesicle	* Skin	* Thyroid Gland
* Zymbal's Gland			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
	Bilateral	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 15-11]		
* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Minimal
	Atrium	Dilatation	Moderate
	[Dilatation TGLS = 12-4]		
	[Leukemia Mononuclear TGLS = 13-4]		
* Intestine Large, Cecum		Leukemia Mononuclear	
* Intestine Large, Colon		Leukemia Mononuclear	
* Intestine Small, Duodenum		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
* Intestine Small, Jejunum		Leukemia Mononuclear	
* Islets, Pancreatic		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
		Pigmentation	Focal, Moderate
* Liver		Degeneration	Cystic, Focal, Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 10-5]		
* Lung		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 153 **TRT#:** 3 **SEX:** Male **DAY ON TEST:** 713
DOSE: 1000 PPM **DISP:** Moribund Sacrifice **HISTO:** 0878

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 14-6]			
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-2,11-3,9-15,8-8,14]			
[Leukemia Mononuclear TGLS = 1-2,11-3,9-15,8-8,14]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-2,11-3,9-15,8-8,14]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-2,11-3,9-15,8-8,14]			
* Mammary Gland		Leukemia Mononuclear	
* Nose		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Focal, Mild
	Acinus	Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
* Preputial Gland	Duct	Dilatation	Mild
* Prostate		Atrophy	Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-13]			
* Stomach, Forestomach		Leukemia Mononuclear	
* Stomach, Glandular		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
		Leukemia Mononuclear	
[Adenoma TGLS = 3,4,5,6-9]			
* Thymus		Leukemia Mononuclear	
* Trachea		Leukemia Mononuclear	
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 154

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 0879

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
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Zymbal's Gland

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
* Lymph Node, Mandibular		Hyperplasia	Plasma Cell, Mild
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 3-13]			
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland	Duct	Dilatation	Mild
[Dilatation TGLS = 1-9]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 155

TRT#: 3

SEX: Male

DAY ON TEST: 651

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 0880

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Zymbal's Gland		

OBSERVATIONS

* Brain		Ependymoma Benign	
[Ependymoma Benign TGLS = 3-1]			
* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
* Pancreas	Acinus	Atrophy	Focal, Mild
* Preputial Gland	Duct	Dilatation	Mild
[Dilatation TGLS = 6-9]			
* Skin		Basal Cell Adenoma	
[Basal Cell Adenoma TGLS = 1-13]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2,5-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:45

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 161

TRT#: 3

SEX: Male

DAY ON TEST: 685

DOSE: 1000 PPM

DISP: Natural Death

HISTO: 0881

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	Coagulating Gland	* Epididymis
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Parathyroid Gland	* Prostate
* Seminal Vesicle	* Skin	* Trachea	* Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Esophagus		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Islets, Pancreatic		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
	[Nephropathy TGLS = 10-7]		
* Liver		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
Lymph Node	Renal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 9-7,1-2]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 9-7,1-2]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 9-7,1-2]		
* Mammary Gland		Leukemia Mononuclear	
Mesentery	Fat	Leukemia Mononuclear	
	Fat	Necrosis	Focal, Moderate
	[Leukemia Mononuclear TGLS = 8-8]		
	[Necrosis TGLS = 8-8]		
* Nose		Leukemia Mononuclear	
* Pancreas	Acinus	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 161	TRT#: 3	SEX: Male	DAY ON TEST: 685
	DOSE: 1000 PPM	DISP: Natural Death	HISTO: 0881

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma
		Leukemia Mononuclear
[Adenoma TGLS = 11-3]		
* Preputial Gland		Leukemia Mononuclear
* Salivary Glands		Leukemia Mononuclear
* Spleen		Leukemia Mononuclear
[Leukemia Mononuclear TGLS = 2-13]		
* Stomach, Forestomach		Leukemia Mononuclear
* Stomach, Glandular		Leukemia Mononuclear
* Testes	Bilateral, Interstit Cell	Adenoma
[Adenoma TGLS = 3,4,5,6-9]		
* Thymus		Leukemia Mononuclear
* Thyroid Gland		Leukemia Mononuclear
* Urinary Bladder		Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 162

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 0882

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Zymbal's Gland

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
[Nephropathy TGLS = 6-7]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
[Eosinophilic Focus TGLS = 7-5]		Leukemia Mononuclear	
* Lung		Inflammation	Focal, Mild
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 3-14]			
* Pancreas	Acinus	Atrophy	Focal, Mild
* Preputial Gland	Duct	Dilatation	Mild
[Dilatation TGLS = 2-9]			
* Skin		Basal Cell Adenoma	
[Basal Cell Adenoma TGLS = 1-15]			
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4,5-9,13]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 163

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 0883

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Zymbal's Gland	

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
[Basophilic Focus TGLS = 2,3-13]			
* Lung		Infiltration Cellular	Histiocyte, Focal, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-9]			
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 164

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 0884

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Zymbal's Gland	

MISSING

* Thymus

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Moderate
* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Degeneration	Cystic, Focal, Minimal
		Eosinophilic Focus	
		Inflammation	Chronic, Focal, Minimal
		Mixed Cell Focus	
[Mixed Cell Focus TGLS = 5-15,7-15]			
* Nose		Fungus	Moderate
		Inflammation	Chronic Active, Moderate
* Pancreas	Acinus	Atrophy	Focal, Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
[Hyperplasia TGLS = 6-3]			
* Preputial Gland		Hyperplasia	Moderate
[Hyperplasia TGLS = 8-9]			
Skeletal Muscle		Lipoma	
[Lipoma TGLS = 2-13]			
* Skin		Keratoacanthoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:45

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 164

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 0884

ORGAN AND ACCOUNTABLE SITE STATUS

[Keratoacanthoma TGLS = 1-14]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 3,4-9,16]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 165

TRT#: 3

SEX: Male

DAY ON TEST: 673

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 0885

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Esophagus	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Parathyroid Gland	* Trachea		

MISSING

* Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Vacuolization Cytoplasmic Hyperplasia	Focal, Moderate Mild
* Adrenal Medulla		Leukemia Mononuclear Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 12-3]			
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Epididymis		Degeneration	Focal, Moderate
		Leukemia Mononuclear Mesothelioma Malignant	
* Heart		Leukemia Mononuclear	
* Intestine Large, Cecum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear Nephropathy Pigmentation	Mild Focal, Mild
[Leukemia Mononuclear TGLS = 6-7]			
* Liver		Fatty Change	Diffuse, Moderate
	Bile Duct	Hyperplasia Leukemia Mononuclear	Focal, Moderate
[Leukemia Mononuclear TGLS = 7-5]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-6]			
Lymph Node	Mediastinal	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 165

TRT#: 3

SEX: Male

DAY ON TEST: 673

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 0885

ORGAN AND ACCOUNTABLE SITE STATUS

	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-15,13-13,14-2,15-8]		
	[Leukemia Mononuclear TGLS = 4-15,13-13,14-2,15-8]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-15,13-13,14-2,15-8]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-15,13-13,14-2,15-8]		
* Mammary Gland		Leukemia Mononuclear	
Mesentery	Fat	Leukemia Mononuclear	
	Fat	Mesothelioma Malignant	
	Fat	Necrosis	Focal, Moderate
	[Leukemia Mononuclear TGLS = 3-16]		
	[Mesothelioma Malignant TGLS = 2-14]		
	[Necrosis TGLS = 3-16]		
* Nose		Fungus	Moderate
		Inflammation	Chronic Active, Moderate
* Pancreas	Acinus	Leukemia Mononuclear	
* Pituitary Gland		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 10-3]		
* Preputial Gland	Duct	Dilatation	Mild
		Leukemia Mononuclear	
* Prostate		Leukemia Mononuclear	
* Salivary Glands		Leukemia Mononuclear	
* Seminal Vesicle		Leukemia Mononuclear	
* Skin		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-5]		
* Stomach, Forestomach		Leukemia Mononuclear	
		Ulcer	Focal, Moderate
* Stomach, Glandular		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 165

TRT#: 3
DOSE: 1000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 673
HISTO: 0885

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1,11-9]		Leukemia Mononuclear	
		Mesothelioma Malignant	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:45

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 171

TRT#: 3

SEX: Male

DAY ON TEST: 651

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 0886

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 |
| * Lymph Node, Mandibular | * Nose | * Parathyroid Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Thyroid Gland | * Trachea | * Zymbal's Gland | |

OBSERVATIONS

- | | | | |
|-------------------------------------|---------------|----------------------|-----------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Leukemia Mononuclear | |
| * Epididymis | | Degeneration | Focal, Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Islets, Pancreatic | | Leukemia Mononuclear | |
| * Kidney | | Hyperplasia | Focal, Moderate |
| | | Leukemia Mononuclear | |
| | | Nephropathy | Mild |
| | | Pigmentation | Focal, Marked |
| [Pigmentation TGLS = 5-7] | | | |
| * Liver | | Fatty Change | Focal, Moderate |
| | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 6-5] | | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 7-7] | | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 7-7] | | | |
| * Mammary Gland | | Leukemia Mononuclear | |
| * Pancreas | Acinus | Atrophy | Focal, Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Mild |
| | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 171	TRT#: 3 DOSE: 1000 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 651 HISTO: 0886
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ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland [Dilatation TGLS = 9-9]	Duct	Dilatation	Mild
* Spleen [Leukemia Mononuclear TGLS = 4-5]		Leukemia Mononuclear	
* Stomach, Glandular		Erosion Ulcer	Focal, Mild Focal, Mild
* Testes [Adenoma TGLS = 2,3-9]	Bilateral, Interstit Cell	Adenoma Leukemia Mononuclear	
* Thymus		Leukemia Mononuclear	
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 172

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 0887

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Zymbal's Gland

MISSING

* Thymus

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Degeneration	Cystic, Focal, Minimal
* Mammary Gland		Hyperplasia	Focal, Minimal
* Pancreas	Acinus	Atrophy	Diffuse, Marked
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Focal, Mild
[Adenoma TGLS = 1-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:45
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 173

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 0888

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Nose
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Degeneration	Focal, Mild
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
* Liver		Nephropathy	Mild
		Angiectasis	Focal, Mild
		Basophilic Focus	
		Eosinophilic Focus	
		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 3-5]	
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Focal, Mild
		Leukemia Mononuclear	
* Pituitary Gland		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 4-3]	
* Spleen		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 2-13]	
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 173

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 0888

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-9]

* Thymus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 174

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 0889

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Zymbal's Gland

OBSERVATIONS

* Epididymis		Degeneration	Focal, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 3-7]			
* Liver		Basophilic Focus	
[Eosinophilic Focus TGLS = 2-5]		Eosinophilic Focus	
* Nose		Fungus	Mild
		Inflammation	Acute, Mild
* Spleen		Depletion Cellular	Moderate
[Depletion Cellular TGLS = 1-5]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:46

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 175

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 0890

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
* Mammary Gland	* Nose	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
		Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Epididymis		Degeneration	Focal, Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 4-7]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Mild
[Eosinophilic Focus TGLS = 6-13]		Eosinophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Focal, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Moderate
[Hemorrhage TGLS = 2-8]			
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Testes	Interstit Cell	Adenoma	
		Atrophy	Moderate
[Adenoma TGLS = 1-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 181

TRT#: 3

SEX: Male

DAY ON TEST: 715

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 0891

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Brain		Hydrocephalus	Mild
* Epididymis		Degeneration	Focal, Mild
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 1-7]			
* Liver		Fatty Change	Diffuse, Marked
[Fatty Change TGLS = 2-5]			
* Mammary Gland		Galactocele	Mild
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
* Stomach, Forestomach		Acanthosis	Focal, Moderate
		Inflammation	Chronic Active, Focal, Moderate
		Ulcer	Focal, Moderate
[Acanthosis TGLS = 6-4]			
[Inflammation TGLS = 6-4]			
* Stomach, Glandular		Ulcer	Focal, Mild
* Testes	Bilateral	Atrophy	Mild
[Atrophy TGLS = 4-9]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:46

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 182

TRT#: 3

SEX: Male

DAY ON TEST: 617

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 0892

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Esophagus	* Intestine Large, Colon	* Parathyroid Gland
* Prostate	* Thyroid Gland	* Trachea	* Zymbal's Gland

MISSING

* Intestine Large, Rectum

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Epididymis		Degeneration	Focal, Moderate
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Intestine Large, Cecum		Leukemia Mononuclear	
* Intestine Small, Duodenum		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
* Intestine Small, Jejunum		Leukemia Mononuclear	
* Islets, Pancreatic		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
		Pigmentation	Focal, Mild
* Liver		Fatty Change	Diffuse, Moderate
		Hepatocellular Adenoma	
		Leukemia Mononuclear	
	[Hepatocellular Adenoma TGLS = 14-14]		
	[Leukemia Mononuclear TGLS = 8-5]		
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 9-6]		
Lymph Node	Lumbar	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 182

TRT#: 3

SEX: Male

DAY ON TEST: 617

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 0892

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 1-2,11-18,7-13,10-17,6-8]			
[Leukemia Mononuclear TGLS = 1-2,11-18,7-13,10-17,6-8]			
[Leukemia Mononuclear TGLS = 1-2,11-18,7-13,10-17,6-8]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-2,11-18,7-13,10-17,6-8]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-2,11-18,7-13,10-17,6-8]			
* Mammary Gland		Leukemia Mononuclear	
* Nose		Fungus	Mild
		Inflammation	Chronic Active, Moderate
		Leukemia Mononuclear	
* Pancreas	Acinus	Leukemia Mononuclear	
* Pituitary Gland		Leukemia Mononuclear	
* Preputial Gland	Duct	Dilatation	Moderate
		Leukemia Mononuclear	
* Salivary Glands		Leukemia Mononuclear	
* Seminal Vesicle		Leukemia Mononuclear	
* Skin		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-5]			
* Stomach, Forestomach		Leukemia Mononuclear	
* Stomach, Glandular		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
		Leukemia Mononuclear	
[Adenoma TGLS = 3-16,4-9]			
* Thymus		Leukemia Mononuclear	
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 183

TRT#: 3

SEX: Male

DAY ON TEST: 714

DOSE: 1000 PPM

DISP: Natural Death

HISTO: 0893

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Esophagus
* Intestine Large, Colon	* Intestine Large, Rectum	* Islets, Pancreatic	* Lung
* Mammary Gland	* Nose	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Zymbal's Gland			

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Adrenal Medulla		Hyperplasia	Mild
* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Mild
	Atrium	Thrombosis	
[Thrombosis TGLS = 5-4]			
* Kidney		Nephropathy	Mild
* Liver		Congestion	Moderate
		Degeneration	Cystic, Focal, Minimal
		Fatty Change	Focal, Minimal
[Congestion TGLS = 3-5]			
Lymph Node	Mediastinal	Hemorrhage	Moderate
[Hemorrhage TGLS = 7-13,11-8,6-2]			
* Lymph Node, Mandibular		Hemorrhage	Moderate
[Hemorrhage TGLS = 7-13,11-8,6-2]			
* Lymph Node, Mesenteric		Hemorrhage	Moderate
[Hemorrhage TGLS = 7-13,11-8,6-2]			
* Pancreas	Acinus	Atrophy	Focal, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2,9,10-9]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 183

TRT#: 3

SEX: Male

DAY ON TEST: 714

DOSE: 1000 PPM

DISP: Natural Death

HISTO: 0893

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 184	TRT#: 3 DOSE: 1000 PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 726 HISTO: 0894
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ORGAN AND ACCOUNTABLE SITE STATUS

* Nose		Inflammation	Chronic Active, Moderate
* Pancreas	Acinus	Atrophy	Focal, Mild
* Preputial Gland	Duct	Dilatation	Moderate
[Dilatation TGLS = 2-9]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3,4,5-9]			
* Thymus		Hemorrhage	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 185

TRT#: 3

SEX: Male

DAY ON TEST: 614

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 0895

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Nose
* Parathyroid Gland	* Preputial Gland	* Prostate	* Seminal Vesicle
* Trachea	* Urinary Bladder	* Zymbal's Gland	

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
		Leukemia Mononuclear	
* Islets, Pancreatic		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
		Pigmentation	Focal, Moderate
* Liver		Fatty Change	Diffuse, Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 8-5]		
* Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-14,2-5,9-8]		
	[Leukemia Mononuclear TGLS = 6-14,2-5,9-8]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-14,2-5,9-8]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-14,2-5,9-8]		
* Mammary Gland		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Focal, Minimal
	Acinus	Leukemia Mononuclear	
* Pituitary Gland		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 185

TRT#: 3

SEX: Male

DAY ON TEST: 614

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 0895

ORGAN AND ACCOUNTABLE SITE STATUS

[Pigmentation TGLS = 7-3]		Pigmentation	Focal, Mild
* Salivary Glands		Leukemia Mononuclear	
* Skin		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-5]			
* Stomach, Forestomach		Leukemia Mononuclear	
* Stomach, Glandular		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4,5-9]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Focal, Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 191

TRT#: 3

SEX: Male

DAY ON TEST: 713

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 0896

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	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Zymbal's Gland	

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Focal, Mild
		Hyperplasia	Focal, Minimal
* Adrenal Medulla		Hyperplasia	Mild
		Pheochromocytoma Benign	
* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Minimal
	Atrium	Dilatation	Moderate
	[Dilatation TGLS = 5-4]		
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Marked
	[Nephropathy TGLS = 4-7]		
* Liver		Angiectasis	Focal, Mild
		Basophilic Focus	
Lymph Node	Bronchial	Infiltration Cellular	Histiocyte, Moderate
	[Infiltration Cellular TGLS = 8-14]		
* Mammary Gland		Galactocele	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 6-3]		
* Prostate		Atrophy	Mild
* Skin		Keratoacanthoma	
	[Keratoacanthoma TGLS = 1-13]		
* Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 191

TRT#: 3

SEX: Male

DAY ON TEST: 713

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 0896

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-9]

[Atrophy TGLS = 2-9]

Atrophy

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 192

TRT#: 3

SEX: Male

DAY ON TEST: 369

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 0897

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Brain		Hydrocephalus	Mild
		Necrosis	Focal, Moderate
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 6-7]			
* Mammary Gland		Galactocele	Mild
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Focal, Mild
[Adenoma TGLS = 4-3]			
[Angiectasis TGLS = 5-3]			
* Prostate		Inflammation	Suppurative, Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 193

TRT#: 3

SEX: Male

DAY ON TEST: 631

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 0898

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Thyroid Gland	* Trachea	* Urinary Bladder	* Zymbal's Gland

MISSING

* Thymus

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Fatty Change	Focal, Moderate
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 3-2]	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 3-2]	
* Nose		Fungus	Moderate
		Inflammation	Chronic Active, Marked
* Pancreas	Acinus	Atrophy	Focal, Mild
* Preputial Gland	Duct	Dilatation	Mild
		[Dilatation TGLS = 5-9]	
* Spleen		Leukemia Mononuclear	
* Stomach, Glandular		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:46

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 193

TRT#: 3

SEX: Male

DAY ON TEST: 631

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 0898

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1,2-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 194

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 0899

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
Eye	Retina	Atrophy	Moderate
	Lens	Cataract	Marked
[Cataract TGLS = 5-14]			
* Heart	Atrium	Cardiomyopathy	Minimal
		Thrombosis	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Mild
* Lung		Infiltration Cellular	Lymphocyte, Focal, Minimal
* Lymph Node, Mandibular		Hyperplasia	Plasma Cell, Mild
[Hyperplasia TGLS = 7-2]			
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Focal, Mild
[Adenoma TGLS = 6-3]			
* Skin		Keratoacanthoma	Multiple
[Keratoacanthoma TGLS = 1-13,2-15]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4-9]			
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 194

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 0899

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 195

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 0900

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	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Zymbal's Gland	

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Epididymis		Degeneration	Focal, Mild
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Focal, Minimal
* Skin		Basosquamous Tumor Benign	
	[Basosquamous Tumor Benign TGLS = 1-15]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-5,4-5,14]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 195

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 0900

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 2-13]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 201

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 0901

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	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder
* Zymbal's Gland			

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Leukemia Mononuclear	
[Basophilic Focus TGLS = 3-5]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Spleen		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:46

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 202

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 0902

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal 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 |
| * Lung | * Lymph Node, Mesenteric | * Mammary Gland | * Nose |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Preputial Gland |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Zymbal's Gland | | | |

MISSING

- * Thymus

OBSERVATIONS

- | | | | |
|---------------------------------|---------------------------|-------------------------|--------------------------|
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Epididymis | | Degeneration | Focal, Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Mild |
| [Nephropathy TGLS = 4-7] | | | |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Focal, Minimal |
| [Basophilic Focus TGLS = 3-5] | | | |
| * Lymph Node, Mandibular | | Hyperplasia | Plasma Cell, Mild |
| * Prostate | | Inflammation | Chronic, Focal, Moderate |
| * Spleen | | Fibrosis | Focal, Mild |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| [Adenoma TGLS = 1-9,2-13] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:46

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 203

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 0903

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal 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 | * Lung | * Lymph Node, Mesenteric |
| * Mammary Gland | * Pancreas | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | * Zymbal's Gland | |

MISSING

- * Thymus

OBSERVATIONS

- | | | | |
|------------------------------------|---------------------------|---------------------------|--------------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Focal, Minimal |
| | | Necrosis | Focal, Minimal |
| [Basophilic Focus TGLS = 2-5,15] | | | |
| * Lymph Node, Mandibular | | Cyst | Mild |
| * Nose | | Inflammation | Chronic Active, Moderate |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Minimal |
| * Testes | Bilateral, Interstit Cell | Adenoma | |

[Adenoma TGLS = 3-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 204 TRT#: 3 SEX: Male DAY ON TEST: 733
DOSE: 1000 PPM DISP: Terminal Sacrifice HISTO: 0904

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Zymbal's Gland			

MISSING

* Thymus

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Epididymis		Degeneration	Focal, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Focal, Minimal
		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 2-13]			
* Lung	Alveolar Epith	Hyperplasia	Focal, Minimal
		Infiltration Cellular	Histiocyte, Focal, Minimal
Mesentery	Fat	Necrosis	Focal, Mild
[Necrosis TGLS = 3-14]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
* Preputial Gland	Duct	Dilatation	Mild
[Dilatation TGLS = 4-9]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 204

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 0904

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 205

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 0905

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Zymbal's Gland		

OBSERVATIONS

* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Fatty Change	Focal, Minimal
* Lung		Infiltration Cellular	Lymphocyte, Focal, Minimal
* Lymph Node, Mandibular		Hyperplasia	Plasma Cell, Mild
* Preputial Gland		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-9]			
* Prostate		Inflammation	Suppurative, Focal, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 211

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 0906

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Hyperplasia	Focal, Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland	Duct	Dilatation	Mild
[Dilatation TGLS = 1-9]			
* Prostate		Atrophy	Mild
* Stomach, Forestomach		Hyperplasia	Squamous, Focal, Moderate
[Hyperplasia TGLS = 4-13]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2,3-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:46

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 212

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 0907

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Brain | * Esophagus | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Mammary Gland | * Nose | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | * Zymbal's Gland | | |

OBSERVATIONS

- | | | | |
|---------------------------|---------------|----------------------|------------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Mild |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Epididymis | | Degeneration | Focal, Moderate |
| * Heart | | Leukemia Mononuclear | |
| * Intestine Large, Cecum | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| * Liver | | Nephropathy | Mild |
| | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Degeneration | Cystic, Focal, Minimal |
| | | Leukemia Mononuclear | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Mandibular | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Mild |
| | | Leukemia Mononuclear | |
| * Preputial Gland | Duct | Dilatation | Moderate |
| | | Inflammation | Suppurative, Moderate |
| [Dilatation TGLS = 1-9] | | | |
| * Prostate | | Atrophy | Mild |
| * Spleen | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 212

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 0907

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 2-9]

* Thymus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:46

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 213

TRT#: 3

SEX: Male

DAY ON TEST: 671

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 0908

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|----------------------|-------------------|---------------------------|
| * Bone | * Brain | * Esophagus | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Islets, Pancreatic | * Mammary Gland | * Parathyroid Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Zymbal's Gland | | | |

OBSERVATIONS

- | | | | |
|--|-------------|----------------------|-----------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Epididymis | | Degeneration | Focal, Mild |
| * Heart | | Leukemia Mononuclear | |
| * Intestine Large, Cecum | | Leukemia Mononuclear | |
| * Intestine Large, Colon | | Leukemia Mononuclear | |
| * Intestine Small, Ileum | | Leukemia Mononuclear | |
| * Intestine Small, Jejunum | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Moderate |
| | | Pigmentation | Focal, Moderate |
| [Pigmentation TGLS = 8-7] | | | |
| * Liver | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 7-5] | | | |
| * Lung | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 9-6] | | | |
| Lymph Node | Iliac | Leukemia Mononuclear | |
| | Mediastinal | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 11-3,6-13,1-2,10-8] | | | |
| [Leukemia Mononuclear TGLS = 11-3,6-13,1-2,10-8] | | | |
| [Leukemia Mononuclear TGLS = 11-3,6-13,1-2,10-8] | | | |
| * Lymph Node, Mandibular | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 213	TRT#: 3	SEX: Male	DAY ON TEST: 671
	DOSE: 1000 PPM	DISP: Moribund Sacrifice	HISTO: 0908

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 11-3,6-13,1-2,10-8]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 11-3,6-13,1-2,10-8]			
* Nose		Leukemia Mononuclear	
* Pancreas	Acinus	Leukemia Mononuclear	
* Pituitary Gland		Leukemia Mononuclear	
* Preputial Gland		Inflammation	Suppurative, Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-13]			
* Stomach, Forestomach		Inflammation	Chronic, Focal, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3,4-9]			
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:46

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 214

TRT#: 3

SEX: Male

DAY ON TEST: 670

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 0909

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Nose
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thyroid Gland	* Trachea
* Urinary Bladder	* Zymbal's Gland		

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Vacuolization Cytoplasmic	Focal, Mild
Note: 1991 CONVERSION DISCREPANCY. ORIGINAL DIAGNOSIS SITE NOT SPECIFIED.			
Blood		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-4]			
* Bone Marrow		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 12-11]			
* Brain		Hydrocephalus	Moderate
* Epididymis		Degeneration	Focal, Mild
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
		Pigmentation	Focal, Moderate
[Nephropathy TGLS = 9-7]			
[Pigmentation TGLS = 8-7]			
* Liver		Fatty Change	Diffuse, Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-5]			
* Lung		Leukemia Mononuclear	
Lymph Node	Renal	Hemorrhage	Mild
	Iliac	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
[Hemorrhage TGLS = 10-14]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 214	TRT#: 3	SEX: Male	DAY ON TEST: 670
	DOSE: 1000 PPM	DISP: Moribund Sacrifice	HISTO: 0909

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 11-3,13-9,15-8,1-2]			
[Leukemia Mononuclear TGLS = 11-3,13-9,15-8,1-2]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 11-3,13-9,15-8,1-2]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 11-3,13-9,15-8,1-2]			
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
[Adenoma TGLS = 14-3]			
* Seminal Vesicle		Hyperplasia	Focal, Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-13]			
* Stomach, Glandular		Inflammation	Acute, Focal, Mild
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Focal, Mild
[Adenoma TGLS = 5-9,4-9]			
[Hyperplasia TGLS = 5-9]			
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 215

TRT#: 3

SEX: Male

DAY ON TEST: 660

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 0910

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	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Moderate
* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Islets, Pancreatic		Hyperplasia	Focal, Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Marked
		Pigmentation	Focal, Moderate
* Liver		Degeneration	Cystic, Focal, Mild
		Fatty Change	Focal, Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-5]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6]			
* Preputial Gland	Duct	Dilatation	Moderate
* Prostate		Abscess	Moderate
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-5]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3,4-9]			
* Zymbal's Gland		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 221

TRT#: 3

SEX: Male

DAY ON TEST: 618

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 0911

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Zymbal's Gland		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Degeneration Vacuolization Cytoplasmic	Cystic, Focal, Minimal Focal, Mild
* Brain		Hydrocephalus	Mild
* Epididymis		Degeneration	Focal, Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Congestion Fatty Change	Mild Focal, Mild
* Lymph Node, Mandibular [Hyperplasia TGLS = 2-2]		Inflammation Hyperplasia	Chronic, Focal, Minimal Plasma Cell, Mild
* Mammary Gland		Galactocele	Mild
* Pituitary Gland [Adenoma TGLS = 3-3]	Pars Distalis	Adenoma	
* Preputial Gland [Adenoma TGLS = 1-13]		Adenoma	
* Stomach, Forestomach		Inflammation	Chronic Active, Focal, Mild
* Testes [Atrophy TGLS = 4-9]	Bilateral	Atrophy Mineralization	Mild Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 221

TRT#: 3

SEX: Male

DAY ON TEST: 618

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 0911

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 222

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 0912

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Zymbal's Gland	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Epididymis		Degeneration	Focal, Minimal
Eye		Phthisis Bulbi	Moderate
[Phthisis Bulbi TGLS = 1,2-15]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Necrosis	Focal, Minimal
[Basophilic Focus TGLS = 4-5,14]			
* Lung		Infiltration Cellular	Lymphocyte, Focal, Minimal
* Nose		Hemorrhage	Moderate
* Pancreas		Accessory Spleen	
	Acinus	Atrophy	Focal, Minimal
[Accessory Spleen TGLS = 3-13]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 6-9]			
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 222

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 0912

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:46

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 223

TRT#: 3

SEX: Male

DAY ON TEST: 646

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 0913

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Degeneration	Focal, Moderate
* Heart		Leukemia Mononuclear	
* Intestine Large, Cecum		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 13-8]		
* Kidney		Nephropathy	Moderate
	[Pigmentation TGLS = 5-7]	Pigmentation	Focal, Mild
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-5]		
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 8-6,14]		
Lymph Node	Mediastinal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 11-13,12-2]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 11-13,12-2]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 11-13,12-2]		
* Nose		Foreign Body	Moderate
		Inflammation	Chronic Active, Moderate
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 223

TRT#: 3

SEX: Male

DAY ON TEST: 646

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 0913

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 4-5]

* Stomach, Glandular

Erosion

Focal, Mild

* Testes

Bilateral, Interstit Cell

Adenoma

Leukemia Mononuclear

[Adenoma TGLS = 2,3-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 224

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 0914

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Nose	* Pancreas	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Zymbal's Gland	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
		Leukemia Mononuclear	
[Hyperplasia TGLS = 7-3]			
[Leukemia Mononuclear TGLS = 7-3]			
* Adrenal Medulla		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-3]			
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Degeneration	Focal, Moderate
* Heart		Leukemia Mononuclear	
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 6-7]			
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4,5-5,14,15]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Leukemia Mononuclear	
* Parathyroid Gland		Adenoma	
* Pituitary Gland	Pars Distalis	Cyst	Moderate
[Cyst TGLS = 8-3]			
* Preputial Gland	Duct	Dilatation	Moderate
[Dilatation TGLS = 1-9]			
* Prostate		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 224

TRT#: 3
DOSE: 1000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 733
HISTO: 0914

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Leukemia Mononuclear TGLS = 3-13,9-5]		Leukemia Mononuclear	
* Stomach, Forestomach		Hyperplasia	Basal Cell, Focal, Minimal
* Testes [Adenoma TGLS = 2-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:46

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 225

TRT#: 3

SEX: Male

DAY ON TEST: 671

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 0915

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------|-------------------|--------------------------|----------------------------|
| * Bone | * Esophagus | * Intestine Large, Colon | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Mammary Gland | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Seminal Vesicle | * Skin | * Trachea |
| * Zymbal's Gland | | | |

OBSERVATIONS

- | | | | |
|---|-------------|----------------------|---------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Leukemia Mononuclear | |
| * Epididymis | | Degeneration | Focal, Mild |
| | | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| * Intestine Large, Cecum | | Leukemia Mononuclear | |
| * Intestine Large, Rectum | | Leukemia Mononuclear | |
| * Intestine Small, Duodenum | | Leukemia Mononuclear | |
| * Intestine Small, Ileum | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Mild |
| | | Pigmentation | Focal, Mild |
| [Pigmentation TGLS = 7-7] | | | |
| * Liver | | Degeneration | Cystic, Focal, Mild |
| | Bile Duct | Hyperplasia | Focal, Moderate |
| | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 6-5] | | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| | Renal | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 8-7,9-3] | | | |
| [Leukemia Mononuclear TGLS = 8-7,9-3] | | | |
| * Lymph Node, Mandibular | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:46

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 225

TRT#: 3

SEX: Male

DAY ON TEST: 671

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 0915

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 8-7,9-3]

* Lymph Node, Mesenteric

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 8-7,9-3]

* Nose

Leukemia Mononuclear

* Pancreas

Acinus

Atrophy

Focal, Minimal

* Pituitary Gland

Leukemia Mononuclear

* Salivary Glands

Leukemia Mononuclear

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-13]

* Stomach, Forestomach

Ulcer

Focal, Mild

* Stomach, Glandular

Leukemia Mononuclear

Ulcer

Focal, Mild

* Testes

Bilateral, Interstit Cell

Adenoma

Leukemia Mononuclear

[Adenoma TGLS = 2,3,4-9]

* Thymus

Leukemia Mononuclear

* Thyroid Gland

C Cell

Hyperplasia

Focal, Mild

* Urinary Bladder

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 251

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 0926

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Mammary Gland
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Zymbal's Gland			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Degeneration	Focal, Mild
* Heart		Schwannoma Malignant	
* Islets, Pancreatic		Hyperplasia	Focal, Moderate
* Kidney		Leukemia Mononuclear	
		Nephropathy	Marked
	[Nephropathy TGLS = 4-7]		
* Liver		Angiectasis	Focal, Mild
		Basophilic Focus	
		Clear Cell Focus	
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-5]		
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Cyst	Mild
	[Cyst TGLS = 8-13]		
* Lymph Node, Mandibular		Cyst	Mild
	[Cyst TGLS = 8-13]		
* Nose		Fungus	Moderate
		Inflammation	Chronic Active, Moderate
* Pancreas	Acinus	Atrophy	Diffuse, Marked
* Preputial Gland	Duct	Dilatation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:46

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 251

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 0926

ORGAN AND ACCOUNTABLE SITE STATUS

[Dilatation TGLS = 1-9]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 2-5]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 5,6-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 252

TRT#: 5

SEX: Male

DAY ON TEST: 686

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 0927

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Zymbal's Gland

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 6-7]			
* Liver		Basophilic Focus	
		Congestion	Mild
* Lymph Node, Mandibular		Hyperplasia	Plasma Cell, Mild
* Nose		Foreign Body	Moderate
		Inflammation	Chronic Active, Moderate
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
[Adenoma TGLS = 7-3]			
* Preputial Gland		Adenoma	
[Adenoma TGLS = 2-14]			
* Prostate		Inflammation	Granulomatous, Focal, Minimal
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-13]			
* Stomach, Forestomach		Hyperplasia	Squamous, Focal, Mild
* Testes	Interstit Cell	Adenoma	
		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 252

TRT#: 5

SEX: Male

DAY ON TEST: 686

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 0927

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 4,5-9]

[Atrophy TGLS = 3-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 253

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 0928

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Lymph Node, Mesenteric
* Mammary Gland	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Zymbal's Gland

OBSERVATIONS

* Epididymis		Degeneration	Focal, Minimal
Eye	Lens	Cataract	Moderate
[Cataract TGLS = 1-13]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 3-7]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
* Nose		Fungus	Moderate
		Inflammation	Chronic Active, Moderate
* Pancreas	Acinus	Atrophy	Focal, Mild
	Acinus	Hyperplasia	Focal, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
* Preputial Gland	Duct	Dilatation	Mild
[Dilatation TGLS = 2-9]			
* Prostate		Atrophy	Mild
* Stomach, Forestomach		Hyperplasia	Basal Cell, Focal, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
		Cyst	Mild
[Adenoma TGLS = 4-9]			
[Cyst TGLS = 5-9]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 253

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 0928

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 254

TRT#: 5

SEX: Male

DAY ON TEST: 581

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 0929

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone * Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-3]			
* Adrenal Medulla		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-3]			
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 11-1]			
* Epididymis		Degeneration	Focal, Moderate
		Leukemia Mononuclear	
* Esophagus		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Intestine Large, Cecum		Leukemia Mononuclear	
* Intestine Large, Colon		Leukemia Mononuclear	
* Intestine Large, Rectum		Leukemia Mononuclear	
* Intestine Small, Duodenum		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
* Intestine Small, Jejunum		Leukemia Mononuclear	
* Islets, Pancreatic		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
[Leukemia Mononuclear TGLS = 8-7]			
* Liver		Degeneration	Cystic, Focal, Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-5]			
* Lung		Leukemia Mononuclear	
Lymph Node	Iliac	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 254

TRT#: 5

SEX: Male

DAY ON TEST: 581

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 0929

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 10-14,6-13]			
[Leukemia Mononuclear TGLS = 10-14,6-13]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-14,6-13]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-14,6-13]			
* Mammary Gland		Leukemia Mononuclear	
* Nose		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Focal, Mild
	Acinus	Leukemia Mononuclear	
* Parathyroid Gland		Leukemia Mononuclear	
* Pituitary Gland		Leukemia Mononuclear	
* Preputial Gland		Leukemia Mononuclear	
* Prostate		Leukemia Mononuclear	
* Salivary Glands		Leukemia Mononuclear	
* Seminal Vesicle		Leukemia Mononuclear	
* Skin		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-5]			
* Stomach, Forestomach		Hyperplasia	Squamous, Focal, Minimal
		Leukemia Mononuclear	
* Stomach, Glandular		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
		Leukemia Mononuclear	
[Adenoma TGLS = 2,3,4-9]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	
		Leukemia Mononuclear	
* Trachea		Leukemia Mononuclear	
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 255

TRT#: 5

SEX: Male

DAY ON TEST: 671

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 0930

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
Spinal Cord	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Zymbal's Gland	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
		Pigmentation	Focal, Mild
* Liver		Basophilic Focus	
		Degeneration	Cystic, Focal, Minimal
		Fatty Change	Focal, Minimal
* Pancreas	Acinus	Atrophy	Focal, Mild
* Spleen		Congestion	Mild
* Stomach, Forestomach		Inflammation	Chronic Active, Focal, Mild
		Ulcer	Focal, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

[Adenoma TGLS = 1-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 261

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 0931

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Esophagus
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Zymbal's Gland			

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Cecum		Leukemia Mononuclear	
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 7-7]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-5]			
* Lung		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
	Lumbar	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-13,9-15,10-17,11-18]			
[Leukemia Mononuclear TGLS = 6-13,9-15,10-17,11-18]			
[Leukemia Mononuclear TGLS = 6-13,9-15,10-17,11-18]			
[Leukemia Mononuclear TGLS = 6-13,9-15,10-17,11-18]			
* Lymph Node, Mandibular		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 261	TRT#: 5	SEX: Male	DAY ON TEST: 729
	DOSE: 3000 PPM	DISP: Terminal Sacrifice	HISTO: 0931

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 6-13,9-15,10-17,11-18]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-13,9-15,10-17,11-18]			
* Nose		Inflammation	Subacute, Minimal
* Pancreas	Acinus	Atrophy	Focal, Mild
	Acinus	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-2]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland		Adenoma	
[Adenoma TGLS = 1-14]			
* Prostate		Atrophy	Moderate
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-16]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4-9]			
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:46

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 262

TRT#: 5

SEX: Male

DAY ON TEST: 677

DOSE: 3000 PPM

DISP: Natural Death

HISTO: 0932

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Zymbal's Gland			

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum

OBSERVATIONS

* Adrenal Medulla		Mixed Tumor Malignant	
[Mixed Tumor Malignant TGLS = 7-15]			
* Epididymis		Degeneration	Focal, Moderate
* Heart		Cardiomyopathy	Mild
	Atrium	Dilatation	Moderate
* Kidney		Nephropathy	Mild
[Nephropathy TGLS = 6-7]			
* Liver		Basophilic Focus	
		Degeneration	Cystic, Focal, Mild
		Eosinophilic Focus	
		Fatty Change	Focal, Mild
[Fatty Change TGLS = 8-13]			
* Lung		Congestion	Moderate
* Lymph Node, Mandibular		Hemorrhage	Minimal
[Hemorrhage TGLS = 1-2]			
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 9-14]			
* Nose		Congestion	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 262

TRT#: 5

SEX: Male

DAY ON TEST: 677

DOSE: 3000 PPM

DISP: Natural Death

HISTO: 0932

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2,3,4-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 263

TRT#: 5

SEX: Male

DAY ON TEST: 537

DOSE: 3000 PPM

DISP: Natural Death

HISTO: 0933

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Mammary Gland
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Zymbal's Gland

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Ileum
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OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Islets, Pancreatic		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
		Pigmentation	Focal, Minimal
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-5]		
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7-6,13]		
Lymph Node	Mediastinal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-3,13]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-3,13]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-3,13]		
* Nose		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Focal, Mild
	Acinus	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 263

TRT#: 5
DOSE: 3000 PPM

SEX: Male
DISP: Natural Death

DAY ON TEST: 537
HISTO: 0933

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma
	Pars Distalis	Cyst
[Adenoma TGLS = 8-3]		
* Spleen		Leukemia Mononuclear
[Leukemia Mononuclear TGLS = 2-5]		
* Testes	Bilateral, Interstit Cell	Adenoma
[Adenoma TGLS = 3,4-9]		
* Thymus		Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 264

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 0934

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	Eye
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Zymbal's Gland		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Hyperplasia	Mild
* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Lung		Inflammation	Focal, Mild
[Inflammation TGLS = 5-6]			
Lymph Node	Lumbar	Hemorrhage	Minimal
	Mediastinal	Hemorrhage	Mild
[Hemorrhage TGLS = 4-14,3-13]			
[Hemorrhage TGLS = 4-14,3-13]			
* Lymph Node, Mandibular		Cyst	Mild
* Nose		Fungus	Moderate
		Inflammation	Chronic Active, Moderate
* Pancreas	Acinus	Atrophy	Focal, Moderate
		Inflammation	Acute, Focal, Mild
* Prostate		Atrophy	Mild
* Stomach, Forestomach		Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 6-4]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 264

TRT#: 5
DOSE: 3000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO: 0934

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes
[Adenoma TGLS = 1,2-9]

Bilateral, Interstit Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:46

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 265

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 0935

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Brain | * Esophagus | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Lymph Node, Mandibular | * Mammary Gland | * Nose |
| * Pancreas | * Parathyroid Gland | * Preputial Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | * Zymbal's Gland | | |

OBSERVATIONS

- | | | | |
|--------------------------|--|------------------------|----------------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Epididymis | | Degeneration | Focal, Mild |
| * Heart | | Leukemia Mononuclear | |
| * Islets, Pancreatic | | Hyperplasia | Focal, Minimal |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Moderate |
| | [Leukemia Mononuclear TGLS = 3-7] | | |
| | [Nephropathy TGLS = 3-7] | | |
| * Liver | | Basophilic Focus | |
| | | Eosinophilic Focus | |
| | | Hepatocellular Adenoma | |
| | | Leukemia Mononuclear | |
| | [Hepatocellular Adenoma TGLS = 2-13] | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Prostate | | Atrophy | Mild |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 1-5] | | |
| * Stomach, Forestomach | | Hyperplasia | Basal Cell, Focal, Minimal |
| * Testes | Bilateral, Interstit Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 265

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 0935

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 4,5-9]

* Thymus

Leukemia Mononuclear

* Thyroid Gland

Follicular Cel

Hyperplasia

Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 271

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 0936

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Zymbal's Gland			

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Degeneration	Cystic, Focal, Minimal
		Eosinophilic Focus	
		Fatty Change	Focal, Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-5]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Prostate		Atrophy	Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-5]			
* Stomach, Forestomach		Hyperplasia	Squamous, Focal, Mild
		Ulcer	Focal, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3,4-9]			
* Thymus		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:46

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 271

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 0936

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Focal, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 272

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 0937

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Zymbal's Gland	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Epididymis		Degeneration	Focal, Mild
Eye	Cornea	Degeneration	Focal, Moderate
[Degeneration TGLS = 1-15]			
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Hyperplasia	Focal, Minimal
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 5-7]			
* Liver	Bile Duct	Clear Cell Focus	
		Hyperplasia	Focal, Moderate
		Inflammation	Chronic, Focal, Minimal
[Clear Cell Focus TGLS = 4-14]			
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Moderate
[Infiltration Cellular TGLS = 3-16]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Prostate		Hyperplasia	Focal, Mild
* Spleen		Fibrosis	Focal, Moderate
[Fibrosis TGLS = 2-13]			
* Stomach, Forestomach		Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 8-4]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 272

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 0937

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Bilateral, Interstit Cell

Adenoma

Cyst

Moderate

[Adenoma TGLS = 7-9]

[Cyst TGLS = 9-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 273

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 0938

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Nose	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Zymbal's Gland	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Adrenal Medulla		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 8-3]			
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Degeneration	Focal, Mild
* Heart		Leukemia Mononuclear	
* Intestine Large, Cecum		Leukemia Mononuclear	
* Intestine Large, Rectum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
		Pigmentation	Focal, Mild
* Liver		Angiectasis	Focal, Minimal
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Focal, Moderate
		Leukemia Mononuclear	
[Eosinophilic Focus TGLS = 10,11-15,16]			
[Leukemia Mononuclear TGLS = 2-5]			
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-14]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-14]			
* Mammary Gland		Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 273

TRT#: 5
DOSE: 3000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO: 0938

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Atrophy	Focal, Moderate
* Pituitary Gland	Pars Distalis	Adenoma Leukemia Mononuclear	
[Adenoma TGLS = 6-3]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-13]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3,4,5,7-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 274

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 0939

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Zymbal's Gland	

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 2-7]			
* Liver		Angiectasis	Focal, Mild
		Basophilic Focus	
		Fatty Change	Focal, Minimal
		Inflammation	Chronic, Focal, Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
Lymph Node	Lumbar	Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 5-13]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
* Spleen		Fibrosis	Focal, Mild
[Fibrosis TGLS = 1-5]			
* Stomach, Forestomach		Hyperplasia	Basal Cell, Focal, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 275

TRT#: 5

SEX: Male

DAY ON TEST: 632

DOSE: 3000 PPM

DISP: Natural Death

HISTO: 0940

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Mammary Gland	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Zymbal's Gland			

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Epididymis		Mesothelioma Malignant	
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Islets, Pancreatic		Leukemia Mononuclear	
* Kidney		Nephropathy	Minimal
Note: THE COLOR CHANGE IS DUE TO POST MORTEM CHANGE			
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8,12-5,14]			
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Hemorrhage	Mild
	Pancreatic	Hemorrhage	Mild
	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[Hemorrhage TGLS = 13-15,7-13]			
[Hemorrhage TGLS = 13-15,7-13]			
[Leukemia Mononuclear TGLS = 10-8,1-2]			
[Leukemia Mononuclear TGLS = 10-8,1-2]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-8,1-2]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 275	TRT#: 5	SEX: Male	DAY ON TEST: 632
	DOSE: 3000 PPM	DISP: Natural Death	HISTO: 0940

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 10-8,1-2]			
* Nose		Inflammation	Subacute, Mild
* Pancreas	Acinus	Leukemia Mononuclear	
* Preputial Gland	Duct	Dilatation	Mild
[Dilatation TGLS = 14-9]			
* Prostate		Atrophy	Moderate
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 11-16]			
* Spleen		Leukemia Mononuclear	
		Mesothelioma Malignant	
[Leukemia Mononuclear TGLS = 3-5]			
* Testes	Bilateral, Interstit Cell	Adenoma	
		Leukemia Mononuclear	
		Mesothelioma Malignant	
[Adenoma TGLS = 4,5-9]			
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 281

TRT#: 5

SEX: Male

DAY ON TEST: 692

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 0941

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Nose	* Pituitary Gland	* Zymbal's Gland
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OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Degeneration	Focal, Mild
* Heart		Leukemia Mononuclear	
* Kidney		Nephropathy	Mild
		Pigmentation	Focal, Mild
[Pigmentation TGLS = 9-7]			
* Liver		Basophilic Focus	
		Degeneration	Cystic, Focal, Minimal
		Eosinophilic Focus	
[Leukemia Mononuclear TGLS = 11-5,14]		Leukemia Mononuclear	
* Lung		Infiltration Cellular	Histiocyte, Focal, Moderate
		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-15,10-13]			
[Leukemia Mononuclear TGLS = 8-15,10-13]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-15,10-13]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 281	TRT#: 5 DOSE: 3000 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 692 HISTO: 0941
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ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric [Leukemia Mononuclear TGLS = 8-15,10-13]		Leukemia Mononuclear	
* Pancreas Acinus		Atrophy	Focal, Minimal
* Preputial Gland Duct [Dilatation TGLS = 12-9]		Dilatation	Mild
* Skin [Fibroma TGLS = 1-16]	Subcut Tiss	Fibroma	
* Spleen [Leukemia Mononuclear TGLS = 7-5]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 2,3,4,5-9]	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 282

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 0942

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Trachea	* Urinary Bladder	* Zymbal's Gland	

OBSERVATIONS

* Adrenal Medulla		Hyperplasia Pheochromocytoma Malignant	Minimal
[Pheochromocytoma Malignant TGLS = 6-3]			
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear	
		Leukemia Mononuclear	
		Nephropathy	Marked
		Pigmentation	Focal, Minimal
[Nephropathy TGLS = 7-7]			
* Liver		Basophilic Focus Leukemia Mononuclear	
Note: CONSIDERABLE COLOR CHANGE AND SOME CHANGE IN Note: CELLULAR MORPHOLOGY. Note: THE CHANGE IS MULTICENTRIC WITHIN THE FOCUS. THERE IS			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-13]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Focal, Minimal
[Hyperplasia TGLS = 1-8]			
* Pancreas	Acinus	Atrophy	Focal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 282	TRT#: 5	SEX: Male	DAY ON TEST: 729
	DOSE: 3000 PPM	DISP: Terminal Sacrifice	HISTO: 0942

ORGAN AND ACCOUNTABLE SITE STATUS

* Parathyroid Gland [Adenoma TGLS = 2-3]		Adenoma	
* Pituitary Gland [Adenoma TGLS = 8-3]	Pars Distalis	Adenoma Leukemia Mononuclear	
* Prostate		Hyperplasia	Focal, Minimal
* Spleen [Leukemia Mononuclear TGLS = 5-5]		Leukemia Mononuclear	
* Stomach, Glandular [Hyperplasia TGLS = 11-15]		Hyperplasia	Basal Cell, Focal, Marked
* Testes [Adenoma TGLS = 3-9]	Interstit Cell	Adenoma Atrophy	Mild
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 283

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 0943

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
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
		Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla	Bilateral	Hyperplasia	Mild
* Bone Marrow		Atrophy	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Hydronephrosis	Marked
		Nephropathy	Marked
			[Hydronephrosis TGLS = 3-7]
			[Nephropathy TGLS = 2-7]
* Liver		Basophilic Focus	
		Fatty Change	Focal, Minimal
* Lung		Infiltration Cellular	Histiocyte, Focal, Minimal
* Mammary Gland		Galactocele	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
			[Adenoma TGLS = 4-3]
* Preputial Gland	Duct	Dilatation	Mild
* Prostate		Inflammation	Suppurative, Focal, Mild
			[Inflammation TGLS = 5-7]
* Skin	Subcut Tiss	Fibroma	
			[Fibroma TGLS = 1-13]
* Stomach, Forestomach		Hyperplasia	Squamous, Focal, Minimal
* Testes	Artery	Inflammation	Focal, Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 283

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 0943

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 284

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 0944

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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
* Lung	* Lymph Node, Mandibular	* Mammary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Zymbal's Gland	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Medulla		Cyst	Mild
* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 6-7]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Focal, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Nose		Fungus	Mild
		Inflammation	Chronic Active, Mild
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
* Preputial Gland		Hyperplasia	Mild
[Hyperplasia TGLS = 1-13]			
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 2-9]		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 284

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 0944

ORGAN AND ACCOUNTABLE SITE STATUS

[Atrophy TGLS = 3-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 285

TRT#: 5

SEX: Male

DAY ON TEST: 680

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 0945

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* 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	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Zymbal's Gland	

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
	Atrium	Dilatation	Moderate
	[Dilatation TGLS = 6-4]		
* Intestine Large, Cecum		Hyperplasia	Lymphoid, Focal, Mild
	[Hyperplasia TGLS = 4-8]		
* Kidney		Nephropathy	Minimal
		Pigmentation	Focal, Minimal
* Liver		Basophilic Focus	
		Fatty Change	Focal, Minimal
* Lung		Inflammation	Focal, Minimal
* Lymph Node, Mesenteric		Edema	Moderate
	[Edema TGLS = 3-13]		
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-14]		
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 5-3]		
* Prostate		Inflammation	Granulomatous, Focal, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2,8-9]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 291

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 0946

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Mammary Gland
* Nose	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Zymbal's Gland	

OBSERVATIONS

* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
		Pigmentation	Focal, Minimal
[Nephropathy TGLS = 4-7]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
* Lung		Inflammation	Focal, Mild
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 3-13]			
* Pancreas	Acinus	Atrophy	Focal, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1,2-9]			
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 292

TRT#: 5

SEX: Male

DAY ON TEST: 533

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 0947

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Lymph Node, Mandibular		Hyperplasia	Plasma Cell, Moderate
[Hyperplasia TGLS = 1-2]			
* Nose		Foreign Body	Mild
		Fungus	Moderate
		Inflammation	Chronic Active, Moderate
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2,3,4-9]			
* Zymbal's Gland		Carcinoma	
[Carcinoma TGLS = 5-12,13]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:46

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 293

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 0948

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Mammary Gland	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Intestine Large, Colon		Leukemia Mononuclear	
* Islets, Pancreatic		Adenoma	
[Adenoma TGLS = 8-15]			
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver		Degeneration	Cystic, Focal, Mild
		Eosinophilic Focus	
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-14]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-14]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-14]			
* Nose		Fungus	Mild
		Inflammation	Chronic Active, Mild
* Pancreas	Acinus	Atrophy	Focal, Moderate
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 293	TRT#: 5 DOSE: 3000 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 0948
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Adenoma TGLS = 4-3]	Pars Distalis	Adenoma Leukemia Mononuclear
* Skin [Fibroma TGLS = 1-16]	Subcut Tiss	Fibroma
* Spleen [Leukemia Mononuclear TGLS = 3-13]		Leukemia Mononuclear
* Testes [Adenoma TGLS = 2,7-9]	Bilateral, Interstit Cell	Adenoma Leukemia Mononuclear
* Thymus		Leukemia Mononuclear
* Urinary Bladder		Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 294

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 0949

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Zymbal's Gland			

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 2-7]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Lung		Infiltration Cellular	Lymphocyte, Focal, Mild
		Inflammation	Focal, Mild
* Lymph Node, Mandibular		Cyst	Mild
* Nose		Fungus	Moderate
		Inflammation	Chronic Active, Moderate
* Stomach, Forestomach		Hyperplasia	Basal Cell, Focal, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 295

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 0950

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Zymbal's Gland	

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Moderate
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Moderate
* Kidney	Renal Tubule	Leukemia Mononuclear	
		Adenoma	
		Leukemia Mononuclear	
		Nephropathy	Moderate
		[Adenoma TGLS = 6-7]	
		[Leukemia Mononuclear TGLS = 5-7]	
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Leukemia Mononuclear	
		[Eosinophilic Focus TGLS = 2-5]	
* Lung	Alveolar Epith	Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
		[Hyperplasia TGLS = 7-6]	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 8-8]	
* Prostate		Inflammation	Suppurative, Focal, Mild
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 295

TRT#: 5
DOSE: 3000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 730
HISTO: 0950

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach

* Testes

Bilateral, Interstit Cell

Hyperplasia

Adenoma

Leukemia Mononuclear

Basal Cell, Focal, Minimal

[Adenoma TGLS = 4-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 301

TRT#: 5

SEX: Male

DAY ON TEST: 670

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 0951

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone

* Parathyroid Gland

* Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex

Leukemia Mononuclear

* Adrenal Medulla

Leukemia Mononuclear

* Bone Marrow

Leukemia Mononuclear

* Brain

Leukemia Mononuclear

* Epididymis

Degeneration

Focal, Mild

Leukemia Mononuclear

* Esophagus

Leukemia Mononuclear

* Heart

Cardiomyopathy

Mild

Leukemia Mononuclear

* Intestine Large, Cecum

Leukemia Mononuclear

* Intestine Large, Colon

Leukemia Mononuclear

* Intestine Large, Rectum

Leukemia Mononuclear

* Intestine Small, Duodenum

Leukemia Mononuclear

Leukemia Mononuclear

* Intestine Small, Ileum

Leukemia Mononuclear

* Intestine Small, Jejunum

Leukemia Mononuclear

* Islets, Pancreatic

Hyperplasia

Focal, Mild

* Kidney

Leukemia Mononuclear

Nephropathy

Moderate

Pigmentation

Focal, Moderate

[Pigmentation TGLS = 5-7]

* Liver

Bile Duct

Hyperplasia

Focal, Moderate

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 6-5]

* Lung

Leukemia Mononuclear

Lymph Node

Axillary

Leukemia Mononuclear

Bronchial

Leukemia Mononuclear

Iliac

Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 301	TRT#: 5	SEX: Male	DAY ON TEST: 670
	DOSE: 3000 PPM	DISP: Moribund Sacrifice	HISTO: 0951

ORGAN AND ACCOUNTABLE SITE STATUS

Inguinal	Leukemia Mononuclear	
Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 11-7,10-2,8-6,9-3,7-8,1-14]		
[Leukemia Mononuclear TGLS = 11-7,10-2,8-6,9-3,7-8,1-14]		
[Leukemia Mononuclear TGLS = 11-7,10-2,8-6,9-3,7-8,1-14]		
[Leukemia Mononuclear TGLS = 11-7,10-2,8-6,9-3,7-8,1-14]		
[Leukemia Mononuclear TGLS = 11-7,10-2,8-6,9-3,7-8,1-14]		
* Lymph Node, Mandibular	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 11-7,10-2,8-6,9-3,7-8,1-14]		
* Lymph Node, Mesenteric	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 11-7,10-2,8-6,9-3,7-8,1-14]		
* Mammary Gland	Leukemia Mononuclear	
* Nose	Leukemia Mononuclear	
* Pancreas	Leukemia Mononuclear	Acinus
* Pituitary Gland	Leukemia Mononuclear	
* Preputial Gland	Leukemia Mononuclear	
* Prostate	Leukemia Mononuclear	
* Salivary Glands	Leukemia Mononuclear	
* Seminal Vesicle	Leukemia Mononuclear	
* Skin	Leukemia Mononuclear	
* Spleen	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-13]		
* Stomach, Forestomach	Hyperplasia	Basal Cell, Focal, Minimal
	Leukemia Mononuclear	
* Stomach, Glandular	Leukemia Mononuclear	
* Testes	Adenoma	Bilateral, Interstit Cell
	Leukemia Mononuclear	
[Adenoma TGLS = 2,3-9]		
* Thymus	Leukemia Mononuclear	
* Thyroid Gland	Leukemia Mononuclear	
* Trachea	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 301

TRT#: 5

SEX: Male

DAY ON TEST: 670

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 0951

ORGAN AND ACCOUNTABLE SITE STATUS

* Urinary Bladder

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 302

TRT#: 5

SEX: Male

DAY ON TEST: 700

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 0952

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Esophagus	* Preputial Gland	* Seminal Vesicle
* Trachea			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-1]			
* Epididymis		Degeneration	Focal, Moderate
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Intestine Large, Cecum		Leukemia Mononuclear	
* Intestine Large, Colon		Leukemia Mononuclear	
* Intestine Large, Rectum		Leukemia Mononuclear	
* Intestine Small, Duodenum		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
* Intestine Small, Jejunum		Leukemia Mononuclear	
* Islets, Pancreatic		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
		Pigmentation	Focal, Moderate
* Liver		Degeneration	Cystic, Focal, Mild
	Bile Duct	Hyperplasia	Focal, Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-5]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 302	TRT#: 5	SEX: Male	DAY ON TEST: 700
	DOSE: 3000 PPM	DISP: Moribund Sacrifice	HISTO: 0952

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 3-14]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-14]			
* Mammary Gland		Leukemia Mononuclear	
* Nose		Inflammation	Chronic Active, Moderate
		Leukemia Mononuclear	
* Pancreas	Acinus	Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Cyst	Moderate
		Leukemia Mononuclear	
[Cyst TGLS = 5-3]			
* Prostate		Inflammation	Granulomatous, Focal, Mild
		Leukemia Mononuclear	
* Salivary Glands		Leukemia Mononuclear	
* Skin		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-5]			
* Stomach, Forestomach		Leukemia Mononuclear	
* Stomach, Glandular		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1,10-9]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Carcinoma	
		Leukemia Mononuclear	
[Carcinoma TGLS = 7-3]			
Tooth	Peridont Tiss	Inflammation	Focal, Moderate
* Urinary Bladder		Leukemia Mononuclear	
* Zymbal's Gland		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 303

TRT#: 5

SEX: Male

DAY ON TEST: 621

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 0953

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Islets, Pancreatic	* Mammary Gland
* Parathyroid Gland	* Prostate	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Intestine Small, Duodenum		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
* Intestine Small, Jejunum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
		Pigmentation	Focal, Moderate
[Nephropathy TGLS = 7-7]			
* Liver		Degeneration	Cystic, Focal, Mild
		Fatty Change	Focal, Moderate
	Bile Duct	Hyperplasia	Focal, Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-5]			
* Lung		Leukemia Mononuclear	
Lymph Node	Axillary	Leukemia Mononuclear	
	Lumbar	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 11-17,12-13,13-14,15-8,8-15,1-2,9-16]			
[Leukemia Mononuclear TGLS = 11-17,12-13,13-14,15-8,8-15,1-2,9-16]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 303

TRT#: 5

SEX: Male

DAY ON TEST: 621

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 0953

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 11-17,12-13,13-14,15-8,8-15,1-2,9-16]			
[Leukemia Mononuclear TGLS = 11-17,12-13,13-14,15-8,8-15,1-2,9-16]			
[Leukemia Mononuclear TGLS = 11-17,12-13,13-14,15-8,8-15,1-2,9-16]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 11-17,12-13,13-14,15-8,8-15,1-2,9-16]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 11-17,12-13,13-14,15-8,8-15,1-2,9-16]			
* Nose		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
* Preputial Gland	Duct	Dilatation	Mild
		Leukemia Mononuclear	
[Dilatation TGLS = 14-9]			
* Seminal Vesicle		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-5]			
* Testes	Interstitial Cell	Adenoma	
		Leukemia Mononuclear	
[Adenoma TGLS = 4-9]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 304

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 0954

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Epididymis		Degeneration	Focal, Minimal
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Minimal
		Inflammation	Chronic, Focal, Minimal
[Degeneration TGLS = 3-5]			
* Preputial Gland		Inflammation	Suppurative, Moderate
[Inflammation TGLS = 1-9]			
* Prostate		Atrophy	Mild
		Hyperplasia	Focal, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 305

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 0955

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Urinary Bladder	* Zymbal's Gland		

OBSERVATIONS

* Adrenal Medulla	Bilateral	Hyperplasia	Mild
* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 3-7]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Focal, Minimal
* Lung		Inflammation	Focal, Minimal
* Lymph Node, Mandibular		Cyst	Mild
* Nose		Fungus	Moderate
		Inflammation	Chronic Active, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
* Prostate		Atrophy	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-9]			
* Trachea		Inflammation	Chronic Active, Focal, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 311

TRT#: 5

SEX: Male

DAY ON TEST: 692

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 0956

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7+9-3]			
* Adrenal Medulla		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7+9-3]			
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Kidney		Nephropathy	Mild
		Pigmentation	Focal, Mild
[Pigmentation TGLS = 8-7]			
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-5]			
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 13-15]			
* Lymph Node, Mandibular		Hyperplasia	Plasma Cell, Mild
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 13-15]			
* Pancreas	Acinus	Atrophy	Focal, Mild
	Acinus	Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 311	TRT#: 5 DOSE: 3000 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 692 HISTO: 0956
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ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 10-3]			
* Preputial Gland	Duct	Dilatation	Mild
[Dilatation TGLS = 14-9]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-5,14]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 5,6-9]			

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:46

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 312

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 0957

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Zymbal's Gland			

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign Pheochromocytoma Malignant	
[Pheochromocytoma Malignant TGLS = 1,2-3]			
* Epididymis		Degeneration	Focal, Mild
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 5-7]			
* Liver		Basophilic Focus Clear Cell Focus Degeneration	Cystic, Focal, Mild
* Lung		Infiltration Cellular Infiltration Cellular Inflammation Pheochromocytoma Malignant	Histiocyte, Focal, Minimal Lymphocyte, Focal, Minimal Focal, Minimal Metastatic (Adrenal Medulla)
* Nose		Fungus Inflammation	Moderate Chronic Active, Marked
* Pancreas	Acinus Artery	Atrophy Inflammation	Focal, Minimal Focal, Mild
* Stomach, Forestomach		Squamous Cell Carcinoma	
[Squamous Cell Carcinoma TGLS = 6-13]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3,4-9]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 312

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 0957

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 313

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 0958

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Zymbal's Gland		

OBSERVATIONS

* Adrenal Medulla	Bilateral	Hyperplasia	Moderate
* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 3-7]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Mild
[Degeneration TGLS = 4-5]			
* Lung	Alveolar Epith	Hyperplasia	Focal, Mild
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 1-13]			
* Nose		Fungus	Moderate
		Inflammation	Acute, Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-9]			
* Thyroid Gland	C Cell	Adenoma	
[Adenoma TGLS = 5-3]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 314

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 0959

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Zymbal's Gland	

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Islets, Pancreatic		Hyperplasia	Focal, Minimal
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 4-7]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Minimal
* Lung		Infiltration Cellular	Lymphocyte, Focal, Minimal
Lymph Node	Mediastinal	Hemorrhage	Minimal
[Hemorrhage TGLS = 2-14]			
* Lymph Node, Mandibular		Cyst	Moderate
* Nose		Fungus	Moderate
		Inflammation	Chronic Active, Moderate
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Focal, Minimal
[Adenoma TGLS = 5-3]			
* Prostate		Atrophy	Minimal
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 1-13]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-9]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 314

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 0959

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 315

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 0960

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Zymbal's Gland		

OBSERVATIONS

* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Hyperplasia	Focal, Mild
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 4-7]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Mild
		Eosinophilic Focus	
[Basophilic Focus TGLS = 2-14]			
[Degeneration TGLS = 3-13]			
* Nose		Hemorrhage	Moderate
* Pancreas	Acinus	Atrophy	Focal, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
* Preputial Gland		Inflammation	Suppurative, Mild
[Inflammation TGLS = 1-9]			
* Prostate		Inflammation	Chronic, Focal, Mild
* Stomach, Forestomach		Hyperplasia	Basal Cell, Focal, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 5-9]			
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 315

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 0960

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 321

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 0961

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Zymbal's Gland		

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 2-3]			
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Degeneration	Focal, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Cyst	Mild
		Leukemia Mononuclear	
[Cyst TGLS = 4-7]		Nephropathy	Marked
[Nephropathy TGLS = 3-7]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Cyst	Mild
[Cyst TGLS = 6-2]			
* Nose		Fungus	Moderate
		Inflammation	Chronic Active, Moderate
* Prostate		Atrophy	Mild
		Inflammation	Suppurative, Focal, Mild
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 321

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 0961

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1,5-9]

* Thyroid Gland

C Cell

Adenoma

Follicular Cel

Carcinoma

[Carcinoma TGLS = 8-13]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 322

TRT#: 5

SEX: Male

DAY ON TEST: 714

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 0962

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Zymbal's Gland		

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Degeneration	Focal, Mild
* Heart	Atrium	Leukemia Mononuclear	
		Thrombosis	Moderate
	[Thrombosis TGLS = 8-4]		
* Intestine Large, Cecum		Leukemia Mononuclear	
* Islets, Pancreatic		Carcinoma	
		Hyperplasia	Focal, Mild
* Kidney		Leukemia Mononuclear	
	[Nephropathy TGLS = 6-7]	Nephropathy	Moderate
* Liver		Fatty Change	Focal, Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-5]		
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 10-6]		
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 9-14,7-15]		
	[Leukemia Mononuclear TGLS = 9-14,7-15]		
* Lymph Node, Mandibular		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 322

TRT#: 5

SEX: Male

DAY ON TEST: 714

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 0962

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 9-14,7-15]		
* Lymph Node, Mesenteric		Leukemia Mononuclear
[Leukemia Mononuclear TGLS = 9-14,7-15]		
* Nose		Leukemia Mononuclear
* Pituitary Gland		Leukemia Mononuclear
* Spleen		Leukemia Mononuclear
[Leukemia Mononuclear TGLS = 1-13]		
* Testes	Bilateral, Interstit Cell	Adenoma
[Adenoma TGLS = 2,3-9]		
* Thymus		Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 323

TRT#: 5

SEX: Male

DAY ON TEST: 709

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 0963

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Zymbal's Gland			

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex	Sarcoma	Metastatic (Spleen)
* Adrenal Medulla	Sarcoma	Metastatic (Spleen)
* Brain	Hydrocephalus	Mild
* Epididymis	Degeneration	Focal, Minimal
* Heart	Cardiomyopathy	Minimal
* Intestine Large, Colon	Sarcoma	Metastatic (Spleen)
* Intestine Small, Duodenum	Sarcoma	Metastatic (Spleen)
* Kidney	Nephropathy	Moderate
	Pigmentation	Focal, Mild
[Nephropathy TGLS = 7-7]		
* Liver	Basophilic Focus	
	Necrosis	Focal, Mild
	Sarcoma	Metastatic (Spleen)
[Sarcoma TGLS = 5-5]		
* Lung	Sarcoma	Metastatic (Spleen)
* Lymph Node, Mesenteric	Sarcoma	Metastatic (Spleen)
[Sarcoma TGLS = 6-14]		
Mesentery	Sarcoma	Metastatic (Spleen)
* Nose	Inflammation	Chronic Active, Mild
* Pancreas	Sarcoma	Metastatic (Spleen)
* Prostate	Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 323

TRT#: 5
DOSE: 3000 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 709
HISTO: 0963

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Sarcoma TGLS = 4-13]		Sarcoma	
* Stomach, Forestomach		Hyperplasia Sarcoma	Basal Cell, Focal, Minimal Metastatic (Spleen)
* Testes [Adenoma TGLS = 1,2-9]	Bilateral, Interstit Cell	Adenoma Sarcoma	Metastatic (Spleen)

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 324

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 0964

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Zymbal's Gland		

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Degeneration	Cystic, Focal, Mild
		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
		Leukemia Mononuclear	
	[Hepatocellular Adenoma TGLS = 7-5]		
* Lung		Leukemia Mononuclear	
Lymph Node	Lumbar	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 11-14,8-16,3-15]		
	[Leukemia Mononuclear TGLS = 11-14,8-16,3-15]		
	[Leukemia Mononuclear TGLS = 11-14,8-16,3-15]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 11-14,8-16,3-15]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 11-14,8-16,3-15]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 324	TRT#: 5 DOSE: 3000 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 0964
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas [Atrophy TGLS = 4-2]	Acinus	Atrophy	Focal, Mild
* Preputial Gland [Hyperplasia TGLS = 1-9]		Hyperplasia	Mild
* Spleen [Leukemia Mononuclear TGLS = 5,6-5,13]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 2-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 325

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 0965

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Zymbal's Gland			

MISSING

* Pituitary Gland

OBSERVATIONS

* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 5-3]			
* Epididymis		Degeneration	Focal, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 6-7]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Focal, Mild
[Fatty Change TGLS = 7-13]			
* Lymph Node, Mandibular		Hyperplasia	Plasma Cell, Mild
* Nose		Inflammation	Chronic Active, Moderate
* Pancreas	Acinus	Atrophy	Focal, Mild
* Parathyroid Gland		Hyperplasia	Mild
* Seminal Vesicle		Dilatation	Moderate
[Dilatation TGLS = 2-14]			
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-15]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3,4-9]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:46

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 325

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 0965

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 331

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 0966

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Zymbal's Gland		

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
		Pigmentation	Focal, Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Mild
		Inflammation	Chronic, Focal, Minimal
[Degeneration TGLS = 3-5]			
Lymph Node	Lumbar	Infiltration Cellular	Histiocyte, Moderate
	Mediastinal	Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 2-13,4-15]			
[Infiltration Cellular TGLS = 2-13,4-15]			
* Nose		Fungus	Moderate
		Inflammation	Chronic Active, Marked
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
* Prostate		Inflammation	Chronic, Focal, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 332

TRT#: 5

SEX: Male

DAY ON TEST: 674

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 0967

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, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Zymbal's Gland			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
[Vacuolization Cytoplasmic TGLS = 7-3]			
* Adrenal Medulla		Hyperplasia	Mild
* Epididymis		Degeneration	Focal, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 6-7]			
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Inflammation	Chronic, Focal, Minimal
* Lung	Alveolar Epith	Hyperplasia	Focal, Mild
		Infiltration Cellular	Histiocyte, Focal, Minimal
Lymph Node	Mediastinal	Hemorrhage	Moderate
	Renal	Hemorrhage	Moderate
	Mediastinal	Hyperplasia	Plasma Cell, Mild
[Hemorrhage TGLS = 8-14,9-16]			
[Hemorrhage TGLS = 8-14,9-16]			
[Hyperplasia TGLS = 9-16]			
* Nose		Fungus	Moderate
		Inflammation	Chronic Active, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 332	TRT#: 5 DOSE: 3000 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 674 HISTO: 0967
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Salivary Glands [Carcinoma TGLS = 1-13]		Carcinoma	
* Spleen [Fibrosis TGLS = 2-15]		Fibrosis	Focal, Minimal
* Stomach, Forestomach		Hyperplasia	Basal Cell, Focal, Minimal
* Testes [Adenoma TGLS = 3,4-9]	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 333

TRT#: 5

SEX: Male

DAY ON TEST: 356

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 0968

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Zymbal's Gland	

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Brain		Mineralization	Focal, Mild
* Kidney		Nephropathy	Minimal
* Liver		Congestion	Mild
* Lymph Node, Mandibular [Hemorrhage TGLS = 1-2]		Hemorrhage	Minimal
* Nose		Fungus	Moderate
		Inflammation	Chronic Active, Moderate
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Prostate		Inflammation	Suppurative, Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 334

TRT#: 5

SEX: Male

DAY ON TEST: 725

DOSE: 3000 PPM

DISP: Natural Death

HISTO: 0969

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Zymbal's Gland

OBSERVATIONS

* Adrenal Medulla		Hyperplasia Pheochromocytoma Benign	Mild
[Pheochromocytoma Benign TGLS = 2-3]			
* Bone		Fibrous Osteodystrophy	Minimal
* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Degeneration	Focal, Moderate
* Heart		Cardiomyopathy	Moderate
	Atrium	Dilatation	Moderate
		Mineralization	Focal, Mild
* Kidney		Cyst	Moderate
		Nephropathy	Marked
[Cyst TGLS = 5-7]			
[Nephropathy TGLS = 3-7]			
* Liver		Basophilic Focus	
		Congestion	Moderate
* Lung		Inflammation	Focal, Minimal
Lymph Node	Mediastinal	Hemorrhage	Moderate
[Hemorrhage TGLS = 8-13,6-2]			
* Lymph Node, Mandibular		Hemorrhage	Minimal
[Hemorrhage TGLS = 8-13,6-2]			
* Nose		Fungus	Moderate
		Inflammation	Chronic Active, Moderate
* Pancreas	Acinus	Atrophy	Focal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 334	TRT#: 5 DOSE: 3000 PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 725 HISTO: 0969
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ORGAN AND ACCOUNTABLE SITE STATUS

* Parathyroid Gland [Hyperplasia TGLS = 7-3]		Hyperplasia	Moderate
* Pituitary Gland [Adenoma TGLS = 4-3]	Pars Distalis Pars Distalis	Adenoma Hyperplasia	Focal, Mild
* Stomach, Forestomach		Hyperplasia Hyperplasia	Squamous, Focal, Mild Basal Cell, Focal, Minimal
* Testes [Adenoma TGLS = 1-9]	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 335

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 0970

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Zymbal's Gland		

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Kidney	Renal Tubule	Adenoma	
		Leukemia Mononuclear	
		Nephropathy	Mild
[Nephropathy TGLS = 4-7]			
* Liver	Bile Duct	Cyst	Minimal
		Degeneration	Cystic, Focal, Moderate
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Focal, Moderate
		Hyperplasia	Focal, Moderate
		Leukemia Mononuclear	
[Hyperplasia TGLS = 3-5]			
* Lung		Infiltration Cellular	Histiocyte, Focal, Minimal
		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-14]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-14]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-14]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 335	TRT#: 5 DOSE: 3000 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 0970
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ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery [Necrosis TGLS = 6-13]	Fat	Necrosis	Focal, Mild
* Pancreas	Acinus	Atrophy	Focal, Mild
	Acinus	Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
		Leukemia Mononuclear	
* Preputial Gland [Dilatation TGLS = 1-9]	Duct	Dilatation	Mild
* Spleen [Leukemia Mononuclear TGLS = 2-15]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 5-9]	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 341

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 0971

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Esophagus
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Zymbal's Gland		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Intestine Large, Cecum		Leukemia Mononuclear	
* Intestine Small, Duodenum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
		Pigmentation	Focal, Minimal
[Nephropathy TGLS = 6-7]			
* Liver		Angiectasis	Focal, Mild
		Basophilic Focus	
		Degeneration	Cystic, Focal, Moderate
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
[Eosinophilic Focus TGLS = 5-5]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-6]			
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-16,11-15]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 341	TRT#: 5 DOSE: 3000 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 0971
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ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 4-16,11-15]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-16,11-15]			
* Pancreas	Acinus	Atrophy	Focal, Minimal
	Acinus	Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
		Leukemia Mononuclear	
[Hyperplasia TGLS = 7-3]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2,3-13,14]			
* Testes	Interstit Cell	Adenoma	
		Atrophy	Moderate
	Interstit Cell	Hyperplasia	Focal, Minimal
		Leukemia Mononuclear	
[Adenoma TGLS = 10-9]			
[Atrophy TGLS = 1-9]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 342

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 0972

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Zymbal's Gland			

OBSERVATIONS

* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 7-3]			
* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
[Nephropathy TGLS = 8-7]			
* Liver		Angiectasis	Focal, Mild
		Basophilic Focus	
	Bile Duct	Cyst	Minimal
		Fatty Change	Focal, Minimal
	Bile Duct	Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-5]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Focal, Mild
[Hyperplasia TGLS = 2-8]			
* Pancreas	Acinus	Atrophy	Focal, Mild
* Skin		Acanthosis	Focal, Mild
[Acanthosis TGLS = 1-13]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 342	TRT#: 5 DOSE: 3000 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 0972
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ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Leukemia Mononuclear TGLS = 5-5]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 3,4-9]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
* Urin Bladder Note: "MASS" IS REFLUX MATERIAL.			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 343

TRT#: 5

SEX: Male

DAY ON TEST: 694

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 0973

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Zymbal's Gland

OBSERVATIONS

* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
		Pigmentation	Focal, Minimal
[Nephropathy TGLS = 5-7]			
* Liver		Angiectasis	Focal, Mild
		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Minimal
	Bile Duct	Hyperplasia	Focal, Moderate
* Lung		Infiltration Cellular	Histiocyte, Focal, Minimal
Mesentery	Fat	Necrosis	Focal, Mild
[Necrosis TGLS = 1-14]			
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Fibrosis	Focal, Mild
[Fibrosis TGLS = 4-13]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2,3,7-9]			
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 344

TRT#: 5

SEX: Male

DAY ON TEST: 649

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 0974

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Seminal Vesicle	* Skin	* Thyroid Gland
* Trachea	* Urinary Bladder	* Zymbal's Gland	

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Degeneration	Focal, Moderate
* Heart		Leukemia Mononuclear	
* Intestine Small, Duodenum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver		Angiectasis	Focal, Mild
		Fatty Change	Diffuse, Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-5]		
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-6]		
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 9-8,1-2,2-14,10-18]		
	[Leukemia Mononuclear TGLS = 9-8,1-2,2-14,10-18]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 9-8,2-14,1-2,10-18]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-14,1-2,9-8,10-18]		
Mesentery	Fat	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-17]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 344	TRT#: 5 DOSE: 3000 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 649 HISTO: 0974
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ORGAN AND ACCOUNTABLE SITE STATUS

* Nose		Foreign Body Inflammation Leukemia Mononuclear	Mild Chronic Active, Mild
* Pancreas	Acinus	Leukemia Mononuclear	
* Preputial Gland	Duct	Dilatation	Moderate
* Salivary Glands		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-16]		
* Stomach, Forestomach		Hyperplasia Inflammation Ulcer	Squamous, Focal, Moderate Chronic Active, Focal, Mild Focal, Moderate
* Stomach, Glandular		Cyst Leukemia Mononuclear	Mild
	[Cyst TGLS = 12-15]		
* Testes	Bilateral, Interstit Cell	Adenoma Leukemia Mononuclear	
	[Adenoma TGLS = 7-9]		
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 345

TRT#: 5

SEX: Male

DAY ON TEST: 677

DOSE: 3000 PPM

DISP: Natural Death

HISTO: 0975

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Zymbal's Gland	

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
[Nephropathy TGLS = 3-7]			
* Liver		Congestion	Marked
* Nose		Inflammation	Subacute, Mild
* Skin	Sebaceous GI	Adenoma	
[Adenoma TGLS = 5-13]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 371

TRT#: 7

SEX: Male

DAY ON TEST: 680

DOSE: 10000PPM

DISP: Moribund Sacrifice

HISTO: 0986

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Zymbal's Gland	

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
	Bilateral	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Degeneration	Focal, Moderate
* Heart		Cardiomyopathy	Mild
	Atrium	Leukemia Mononuclear	
		Thrombosis	Moderate
	[Thrombosis TGLS = 9-4]		
* Intestine Large, Colon		Leukemia Mononuclear	
* Intestine Large, Rectum		Leukemia Mononuclear	
* Intestine Small, Duodenum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
		Pigmentation	Focal, Mild
	[Pigmentation TGLS = 7-7]		
* Liver		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Focal, Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 8-5]		
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 11-6]		
* Mammary Gland		Hyperplasia	Focal, Moderate
	[Hyperplasia TGLS = 1-13]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 371	TRT#: 7	SEX: Male	DAY ON TEST: 680
	DOSE: 10000PPM	DISP: Moribund Sacrifice	HISTO: 0986

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
		Leukemia Mononuclear	
* Prostate		Leukemia Mononuclear	
* Skin		Keratoacanthoma	
	[Keratoacanthoma TGLS = 2-14]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-5]		
* Testes	Interstit Cell	Adenoma	
		Atrophy	Moderate
	Interstit Cell	Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
	[Adenoma TGLS = 4-9]		
	[Atrophy TGLS = 3-9]		
* Thymus		Leukemia Mononuclear	
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 372

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 0987

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Zymbal's Gland	

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla		Leukemia Mononuclear Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Degeneration	Focal, Mild
* Heart		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
* Kidney		Nephropathy Pigmentation	Moderate Focal, Minimal
	[Nephropathy TGLS = 6-7]		
* Liver		Degeneration Eosinophilic Focus Leukemia Mononuclear	Cystic, Focal, Minimal
	[Leukemia Mononuclear TGLS = 5-5]		
* Lung		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 8-14]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 8-14]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 8-14]		
* Nose		Hemorrhage	Mild
* Pancreas	Acinus	Atrophy	Focal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 372	TRT#: 7	SEX: Male	DAY ON TEST: 729
	DOSE: 10000PPM	DISP: Terminal Sacrifice	HISTO: 0987

ORGAN AND ACCOUNTABLE SITE STATUS

Pharynx	Palate	Hyperplasia	Squamous, Focal, Marked
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
* Preputial Gland	Duct	Dilatation	Minimal
[Dilatation TGLS = 1-9]			
* Prostate		Atrophy	Mild
		Inflammation	Chronic, Focal, Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3,4-5,13]			
* Stomach, Forestomach		Hyperplasia	Squamous, Focal, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 7-9]			
* Thymus		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 373

TRT#: 7

SEX: Male

DAY ON TEST: 506

DOSE: 10000PPM

DISP: Moribund Sacrifice

HISTO: 0988

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Thymus

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Pigmentation	Focal, Moderate
[Pigmentation TGLS = 3-7]			
* Liver		Basophilic Focus	
		Eosinophilic Focus	
Lymph Node	Iliac	Cyst	
	Inguinal	Cyst	
	Iliac	Infiltration Cellular	Histiocyte, Mild
[Cyst TGLS = 4-14,2-13]			
[Cyst TGLS = 4-14,2-13]			
[Infiltration Cellular TGLS = 4-14]			
* Preputial Gland		Adenoma	
[Adenoma TGLS = 1-15]			
* Prostate		Inflammation	Granulomatous, Focal, Mild
* Testes	Interstit Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 374

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 0989

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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, Mesenteric	* Mammary Gland
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Zymbal's Gland	

OBSERVATIONS

* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 3-7]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Mild
		Eosinophilic Focus	
* Lymph Node, Mandibular		Hyperplasia	Plasma Cell, Mild
* Nose		Inflammation	Subacute, Mild
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
[Inflammation TGLS = 4-9]			
* Prostate		Atrophy	Mild
* Stomach, Forestomach		Acanthosis	Focal, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-9]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:46

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 375

TRT#: 7

SEX: Male

DAY ON TEST: 566

DOSE: 10000PPM

DISP: Natural Death

HISTO: 0990

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Rectum
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thymus	* Trachea
* Urinary Bladder	* Zymbal's Gland		

AUTO PRECLUDES DIAG.

* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Intestine Large, Colon		Leukemia Mononuclear	
* Islets, Pancreatic		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-5]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Leukemia Mononuclear	
* Nose		Leukemia Mononuclear	
* Pancreas	Acinus	Leukemia Mononuclear	
* Pituitary Gland		Leukemia Mononuclear	
* Seminal Vesicle		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-13]			
* Stomach, Glandular		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3,4-9]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 375

TRT#: 7

SEX: Male

DAY ON TEST: 566

DOSE: 10000PPM

DISP: Natural Death

HISTO: 0990

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 381

TRT#: 7

SEX: Male

DAY ON TEST: 305

DOSE: 10000PPM

DISP: Natural Death

HISTO: 0991

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea

MISSING

* Prostate	* Seminal Vesicle
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OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Bone Marrow		Hyperplasia	Moderate
* Kidney	Pelvis	Inflammation	Suppurative, Mild
* Liver	Centrilobular	Atrophy	Focal, Mild
		Necrosis	Focal, Mild
* Lung		Congestion	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicle	Dilatation	Focal, Moderate
* Urinary Bladder		Abscess	Moderate
[Abscess TGLS = 2-7]			
* Zymbal's Gland		Inflammation	Chronic Active, Mild

PRIMARY CAUSE OF DEATH -

Animal Note: NO NODULES APPARENT IN STOMACH.

Animal Note: PROSTATE & SEM VES ARE INDISTINGUISHABLE

Animal Note: (PART OF LARGE ABDOMINAL ABSCESS, PROBABLY).

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 382

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 0992

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Zymbal's Gland	

OBSERVATIONS

* Epididymis		Degeneration	Focal, Minimal
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Hyperplasia	Focal, Marked
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 5-7]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Mild
		Inflammation	Chronic, Focal, Minimal
		Mixed Cell Focus	
[Basophilic Focus TGLS = 3-13]			
[Clear Cell Focus TGLS = 4-5]			
[Degeneration TGLS = 4-5]			
[Mixed Cell Focus TGLS = 4-13]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
[Hyperplasia TGLS = 6-3]			
* Stomach, Forestomach		Hyperplasia	Basal Cell, Focal, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 383

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 0993

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Zymbal's Gland		

OBSERVATIONS

* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Mild
[Nephropathy TGLS = 4-7]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Mixed Cell Focus	
[Mixed Cell Focus TGLS = 6-13]			
Lymph Node	Lumbar	Hemorrhage	Mild
[Hemorrhage TGLS = 5-14]			
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Prostate		Atrophy	Mild
* Stomach, Forestomach		Hyperplasia	Basal Cell, Focal, Minimal
* Testes	Interstitial Cell	Adenoma	
		Atrophy	Marked
[Adenoma TGLS = 2-9]			
[Atrophy TGLS = 1-9]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 384

TRT#: 7

SEX: Male

DAY ON TEST: 646

DOSE: 10000PPM

DISP: Moribund Sacrifice

HISTO: 0994

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
* Mammary Gland	* Nose	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Urinary Bladder	* Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Moderate
* Adrenal Medulla		Hyperplasia	Mild
		Pheochromocytoma Benign	
* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 8-7]			
* Liver		Degeneration	Cystic, Focal, Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-5]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6]			
* Lymph Node, Mesenteric		Hemorrhage	Minimal
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 6-14]			
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland	Duct	Dilatation	Mild
* Prostate		Inflammation	Suppurative, Focal, Moderate
[Inflammation TGLS = 11-15]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-5]			
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 384

TRT#: 7

SEX: Male

DAY ON TEST: 646

DOSE: 10000PPM

DISP: Moribund Sacrifice

HISTO: 0994

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1,2,3-9]

* Trachea

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 385

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 0995

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	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Zymbal's Gland		

OBSERVATIONS

* Adrenal Cortex		Adenoma	
		Vacuolization Cytoplasmic	Focal, Moderate
* Adrenal Medulla		Hyperplasia	Mild
		Pheochromocytoma Benign	
* Epididymis		Degeneration	Focal, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 6-7]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Mild
		Eosinophilic Focus	
		Fatty Change	Focal, Minimal
[Basophilic Focus TGLS = 5-5,14]			
[Clear Cell Focus TGLS = 5-5]			
[Degeneration TGLS = 4-14]			
[Eosinophilic Focus TGLS = 5-5]			
Pharynx	Palate	Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 8-16]			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland	Duct	Dilatation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 385

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 0995

ORGAN AND ACCOUNTABLE SITE STATUS

[Dilatation TGLS = 1-9]			
* Prostate		Inflammation	Chronic, Focal, Moderate
* Spleen		Fibrosis	Focal, Mild
		Leukemia Mononuclear	
[Fibrosis TGLS = 2-13]			
[Leukemia Mononuclear TGLS = 2-5]			
* Stomach, Forestomach		Hyperplasia	Squamous, Focal, Minimal
		Hyperplasia	Basal Cell, Focal, Minimal
		Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 7-15]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-9]			
* Thyroid Gland	Follicle	Dilatation	Focal, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 391

TRT#: 7

SEX: Male

DAY ON TEST: 699

DOSE: 10000PPM

DISP: Moribund Sacrifice

HISTO: 0996

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Salivary Glands	* Seminal Vesicle
* Trachea	* Zymbal's Gland		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 11-11]			
* Epididymis		Degeneration	Focal, Moderate
* Heart		Leukemia Mononuclear	
* Intestine Large, Cecum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear Nephropathy Pigmentation	Mild Focal, Mild
[Pigmentation TGLS = 7-7]			
* Liver		Degeneration Fatty Change Hyperplasia Leukemia Mononuclear	Cystic, Focal, Mild Focal, Minimal Focal, Moderate
	Bile Duct		
[Leukemia Mononuclear TGLS = 8-5]			
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal Pancreatic	Infiltration Cellular Leukemia Mononuclear	Histiocyte, Moderate
[Infiltration Cellular TGLS = 15-14]			
[Leukemia Mononuclear TGLS = 17-2,18-8,9-15]			
* Lymph Node, Mandibular		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 391	TRT#: 7	SEX: Male	DAY ON TEST: 699
	DOSE: 10000PPM	DISP: Moribund Sacrifice	HISTO: 0996

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 17-2,18-8,9-15]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 17-2,18-8,9-15]			
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 5-13]			
* Nose		Foreign Body	Mild
		Inflammation	Chronic Active, Moderate
* Pancreas	Acinus	Atrophy	Focal, Minimal
	Acinus	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-15]			
* Pituitary Gland		Leukemia Mononuclear	
* Preputial Gland	Duct	Dilatation	Moderate
[Dilatation TGLS = 1-9]			
* Prostate		Atrophy	Mild
* Skin		Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 12-17]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6,16-5]			
* Stomach, Forestomach		Hyperplasia	Basal Cell, Focal, Mild
* Stomach, Glandular		Erosion	Focal, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2,3,4-9]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	
	Follicular Cel	Carcinoma	
[Carcinoma TGLS = 14-3]			
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 392

TRT#: 7

SEX: Male

DAY ON TEST: 460

DOSE: 10000PPM

DISP: Natural Death

HISTO: 0997

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Zymbal's Gland			

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Congestion	Mild
		Fatty Change	Focal, Mild
		Necrosis	Focal, Mild
	[Necrosis TGLS = 2-5]		
* Lung		Congestion	Moderate
* Pancreas	Acinus	Cytoplasmic Alteration	Focal, Mild
* Testes	Interstitial Cell	Adenoma	
		Atrophy	Moderate
	Interstitial Cell	Hyperplasia	Focal, Mild
	[Atrophy TGLS = 1-9]		
* Thymus		Hemorrhage	Mild
	[Hemorrhage TGLS = 3-3]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 393

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 0998

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Zymbal's Gland			

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Marked
	[Nephropathy TGLS = 4-7]	Pigmentation	Focal, Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Mild
		Fatty Change	Focal, Mild
	[Degeneration TGLS = 5-13]	Mixed Cell Focus	
	[Mixed Cell Focus TGLS = 6-14]		
* Nose		Inflammation	Chronic Active, Mild
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland		Hyperplasia	Moderate
	[Hyperplasia TGLS = 1-9]	Squamous Cell Papilloma	
* Prostate		Inflammation	Chronic, Focal, Mild
* Stomach, Forestomach		Hyperplasia	Basal Cell, Focal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 393

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 0998

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes
[Adenoma TGLS = 2,3-9]

Bilateral, Interstit Cell

Adenoma

* Thyroid Gland

C Cell

Hyperplasia

Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 394

TRT#: 7

SEX: Male

DAY ON TEST: 722

DOSE: 10000PPM

DISP: Moribund Sacrifice

HISTO: 0999

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Intestine Small, Ileum	* Seminal Vesicle	* Zymbal's Gland
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OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-3]			
* Adrenal Medulla		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-3]			
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 14-1]			
* Epididymis		Degeneration	Focal, Mild
		Leukemia Mononuclear	
* Esophagus		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Intestine Large, Cecum		Leukemia Mononuclear	
* Intestine Large, Colon		Leukemia Mononuclear	
* Intestine Large, Rectum		Leukemia Mononuclear	
* Intestine Small, Duodenum		Leukemia Mononuclear	
* Intestine Small, Jejunum		Leukemia Mononuclear	
* Islets, Pancreatic		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
		Pigmentation	Focal, Moderate
[Leukemia Mononuclear TGLS = 9-7]			
[Nephropathy TGLS = 9-7]			
[Pigmentation TGLS = 9-7]			
* Liver		Degeneration	Cystic, Focal, Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-5]			
* Lung		Leukemia Mononuclear	
Lymph Node	iliac	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 394

TRT#: 7

SEX: Male

DAY ON TEST: 722

DOSE: 10000PPM

DISP: Moribund Sacrifice

HISTO: 0999

ORGAN AND ACCOUNTABLE SITE STATUS

	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 15-17,1-2,11-13,2-8,13-16,12-14]		
	[Leukemia Mononuclear TGLS = 15-17,1-2,11-13,2-8,13-16,12-14]		
	[Leukemia Mononuclear TGLS = 15-17,1-2,11-13,2-8,13-16,12-14]		
	[Leukemia Mononuclear TGLS = 15-17,1-2,11-13,2-8,13-16,12-14]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 15-17,1-2,11-13,2-8,13-16,12-14]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 15-17,1-2,11-13,2-8,13-16,12-14]		
* Mammary Gland		Leukemia Mononuclear	
* Nose		Leukemia Mononuclear	
* Pancreas	Acinus	Leukemia Mononuclear	
* Parathyroid Gland		Leukemia Mononuclear	
* Pituitary Gland		Leukemia Mononuclear	
* Preputial Gland		Leukemia Mononuclear	
* Prostate		Atrophy	Moderate
		Leukemia Mononuclear	
* Salivary Glands		Leukemia Mononuclear	
* Skin		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-15]		
* Stomach, Forestomach		Leukemia Mononuclear	
* Stomach, Glandular		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
		Leukemia Mononuclear	
	[Adenoma TGLS = 4,5,6-9]		
* Thymus		Leukemia Mononuclear	
* Thyroid Gland		Leukemia Mononuclear	
* Trachea		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 394

TRT#: 7

SEX: Male

DAY ON TEST: 722

DOSE: 10000PPM

DISP: Moribund Sacrifice

HISTO: 0999

ORGAN AND ACCOUNTABLE SITE STATUS

* Urinary Bladder

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 395

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1000

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Mammary Gland
* Nose	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Zymbal's Gland

MISSING

* Parathyroid Gland

OBSERVATIONS

* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 6-7]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Mild
		Eosinophilic Focus	
		Fatty Change	Focal, Minimal
[Degeneration TGLS = 5-5,14]			
* Lung		Inflammation	Focal, Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Skin	Sebaceous GI	Adenoma	
[Adenoma TGLS = 1-13]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2,3-9]			
* Thyroid Gland	C Cell	Adenoma	
[Adenoma TGLS = 7-3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 395

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1000

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 401

TRT#: 7

SEX: Male

DAY ON TEST: 646

DOSE: 10000PPM

DISP: Moribund Sacrifice

HISTO: 1001

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mesenteric
* Parathyroid Gland	* Seminal Vesicle	* Skin	* Thymus
* Thyroid Gland	* Trachea	Urethra	* Zymbal's Gland

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Leukemia Mononuclear	
* Adrenal Medulla	Leukemia Mononuclear	
	Pheochromocytoma Malignant	
[Pheochromocytoma Malignant TGLS = 4-3]		
* Bone Marrow	Leukemia Mononuclear	
* Epididymis	Degeneration	Focal, Moderate
* Heart	Leukemia Mononuclear	
* Intestine Large, Cecum	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 11-8]		
* Intestine Large, Colon	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 11-8]		
* Islets, Pancreatic	Leukemia Mononuclear	
* Kidney	Leukemia Mononuclear	
	Nephropathy	Mild
	Pigmentation	Focal, Mild
[Pigmentation TGLS = 3-7]		
* Liver	Eosinophilic Focus	
	Hepatodiaphragmatic Nodule	
	Leukemia Mononuclear	
[Hepatodiaphragmatic Nodule TGLS = 10-14]		
[Leukemia Mononuclear TGLS = 5-5]		
* Lung	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-6]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 401	TRT#: 7 DOSE: 10000PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 646 HISTO: 1001
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ORGAN AND ACCOUNTABLE SITE STATUS

Lymph Node	Mediastinal	Leukemia Mononuclear Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-13]			
[Leukemia Mononuclear TGLS = 8-13]			
* Lymph Node, Mandibular		Cyst Leukemia Mononuclear	Moderate
[Cyst TGLS = 9-2]			
[Leukemia Mononuclear TGLS = 8-13]			
* Nose		Fungus Inflammation	Moderate Chronic Active, Moderate
* Pancreas	Acinus Acinus	Atrophy Leukemia Mononuclear Leukemia Mononuclear	Focal, Mild
* Pituitary Gland			
[Leukemia Mononuclear TGLS = 7-3]			
* Preputial Gland	Duct	Dilatation	Moderate
[Dilatation TGLS = 15-9]			
* Prostate		Inflammation Leukemia Mononuclear	Suppurative, Focal, Moderate
[Inflammation TGLS = 14-9+17]			
* Salivary Glands		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-5]			
* Stomach, Forestomach		Hyperplasia Leukemia Mononuclear Leukemia Mononuclear	Basal Cell, Focal, Minimal
* Stomach, Glandular			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-9]			
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH	-		
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 402

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1002

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Zymbal's Gland	

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Epididymis		Degeneration	Focal, Mild
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Mild
		[Atrophy TGLS = 6-15]	
		[Cataract TGLS = 6-15]	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Pancreas	Acinus	Atrophy	Focal, Mild
* Preputial Gland	Duct	Dilatation	Mild
* Spleen		Fibrosis	Focal, Mild
		[Fibrosis TGLS = 1,2-13,14]	
* Stomach, Forestomach		Hyperplasia	Squamous, Focal, Mild
* Testes	Interstit Cell	Adenoma	
		Atrophy	Marked
	Interstit Cell	Hyperplasia	Focal, Mild
		[Adenoma TGLS = 4-9]	
		[Atrophy TGLS = 3-9]	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 402

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1002

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 403

TRT#: 7

SEX: Male

DAY ON TEST: 680

DOSE: 10000PPM

DISP: Moribund Sacrifice

HISTO: 1003

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
* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Zymbal's Gland		

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
		Pigmentation	Focal, Mild
[Pigmentation TGLS = 5-7]			
* Liver		Basophilic Focus	
		Fatty Change	Focal, Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-5]			
* Lung		Leukemia Mononuclear	
Lymph Node	Axillary	Hyperplasia	Plasma Cell, Mild
[Hyperplasia TGLS = 6-14]			
* Nose		Fungus	Mild
		Inflammation	Chronic Active, Mild
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
[Adenoma TGLS = 7-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 403

TRT#: 7

SEX: Male

DAY ON TEST: 680

DOSE: 10000PPM

DISP: Moribund Sacrifice

HISTO: 1003

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin [Fibrosarcoma TGLS = 1-13]	Subcut Tiss	Fibrosarcoma
* Spleen		Leukemia Mononuclear
* Testes [Adenoma TGLS = 2,3-9,15,16]	Bilateral, Interstit Cell	Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 404

TRT#: 7

SEX: Male

DAY ON TEST: 684

DOSE: 10000PPM

DISP: Moribund Sacrifice

HISTO: 1004

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Zymbal's Gland		

OBSERVATIONS

* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 4-3]			
* Epididymis		Degeneration	Focal, Minimal
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Hyperplasia	Focal, Moderate
* Kidney		Cyst	Moderate
[Cyst TGLS = 5-7,14]			
[Nephropathy TGLS = 6-7]			
* Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 7-13]			
* Lung		Hemorrhage	Focal, Mild
[Hemorrhage TGLS = 10-6]			
Lymph Node	Renal	Infiltration Cellular	Histiocyte, Focal, Mild
[Hemorrhage TGLS = 8,9-16]			
* Nose		Hemorrhage	Mild
[Hemorrhage TGLS = 8,9-16]			
* Pancreas	Acinus	Fungus	Moderate
* Parathyroid Gland	Bilateral	Inflammation	Chronic Active, Mild
[Hyperplasia TGLS = 13-3]			
Pharynx	Palate	Atrophy	Focal, Mild
[Hyperplasia TGLS = 13-3]			
		Hyperplasia	Moderate
		Squamous Cell Papilloma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 404	TRT#: 7	SEX: Male	DAY ON TEST: 684
	DOSE: 10000PPM	DISP: Moribund Sacrifice	HISTO: 1004

ORGAN AND ACCOUNTABLE SITE STATUS

[Squamous Cell Papilloma TGLS = 14-17]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
[Hyperplasia TGLS = 12-3]			
* Stomach, Forestomach		Hyperplasia	Basal Cell, Focal, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1,2-9,15]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 405

TRT#: 7

SEX: Male

DAY ON TEST: 583

DOSE: 10000PPM

DISP: Moribund Sacrifice

HISTO: 1005

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Kidney		Mineralization	Focal, Minimal
		Nephropathy	Mild
		Pigmentation	Focal, Minimal
* Liver		Degeneration	Cystic, Focal, Minimal
		Eosinophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Focal, Minimal
		Inflammation	Focal, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-9]			
* Zymbal's Gland		Carcinoma	
[Carcinoma TGLS = 2-12]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 411

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1006

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	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Zymbal's Gland			

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Moderate
* Adrenal Medulla		Hyperplasia	Mild
	Bilateral	Pheochromocytoma Benign	
	[Pheochromocytoma Benign TGLS = 4-3]		
* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Hyperplasia	Focal, Moderate
* Kidney		Nephropathy	Mild
	[Nephropathy TGLS = 5-7]	Pigmentation	Focal, Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Mild
		Eosinophilic Focus	
		Fatty Change	Focal, Mild
	[Hepatocellular Adenoma TGLS = 3-13]	Hepatocellular Adenoma	
* Lung		Alveolar/Bronchiolar Adenoma	
		Inflammation	Focal, Mild
* Mammary Gland		Adenocarcinoma	
		Galactocele	Moderate
		Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 411	TRT#: 7	SEX: Male	DAY ON TEST: 729
	DOSE: 10000PPM	DISP: Terminal Sacrifice	HISTO: 1006

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenocarcinoma TGLS = 2-15] [Galactocele TGLS = 1-14] [Hyperplasia TGLS = 1-14] [Inflammation TGLS = 1-14]		Inflammation	Chronic, Focal, Moderate
* Pancreas Pharynx [Squamous Cell Papilloma TGLS = 9-16]	Acinus Palate	Atrophy Squamous Cell Papilloma	Focal, Mild
* Pituitary Gland [Adenoma TGLS = 8-3]	Pars Distalis Pars Distalis	Adenoma Hyperplasia	Focal, Mild
* Seminal Vesicle * Stomach, Forestomach * Testes [Adenoma TGLS = 6,7-9]	Bilateral, Interstit Cell	Inflammation Hyperplasia Adenoma	Chronic, Focal, Mild Basal Cell, Focal, Minimal

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 412

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1007

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Mammary Gland
* Nose	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Zymbal's Gland			

OBSERVATIONS

* Epididymis		Degeneration	Focal, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
* Lung	Alveolar Epith	Hyperplasia	Focal, Mild
		Infiltration Cellular	Histiocyte, Focal, Minimal
	[Hyperplasia TGLS = 4-13]		
* Pancreas	Acinus	Atrophy	Focal, Moderate
Pharynx	Palate	Squamous Cell Papilloma	
	[Squamous Cell Papilloma TGLS = 5-14]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Prostate		Atrophy	Mild
* Stomach, Forestomach		Hyperplasia	Basal Cell, Focal, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2-9]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 413

TRT#: 7

SEX: Male

DAY ON TEST: 702

DOSE: 10000PPM

DISP: Moribund Sacrifice

HISTO: 1008

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Epididymis		Degeneration	Focal, Moderate
* Islets, Pancreatic		Hyperplasia	Focal, Mild
* Kidney		Nephropathy	Moderate
		Pigmentation	Focal, Moderate
[Pigmentation TGLS = 7-7]			
* Liver	Bile Duct	Fibrosis	Marked
		Inflammation	Chronic, Focal, Mild
		Mixed Cell Focus	
		Necrosis	Focal, Moderate
[Fibrosis TGLS = 9-5,14]			
[Necrosis TGLS = 8-5]			
Lymph Node	Renal	Infiltration Cellular	Histiocyte, Moderate
[Infiltration Cellular TGLS = 10-18]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-15]			
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 5-17,2-16]			
* Nose		Inflammation	Chronic Active, Mild
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLS = 6-5,13]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 413

TRT#: 7

SEX: Male

DAY ON TEST: 702

DOSE: 10000PPM

DISP: Moribund Sacrifice

HISTO: 1008

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach

Hyperplasia

Plasma Cell, Focal, Mild

* Testes

Bilateral, Interstit Cell

Hyperplasia

Basal Cell, Focal, Mild

Adenoma

[Adenoma TGLS = 3,4-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 414

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1009

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mesenteric
* Mammary Gland	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Zymbal's Gland	

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Islets, Pancreatic		Adenoma	
		Hyperplasia	Focal, Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
	[Nephropathy TGLS = 5-7]		
* Liver		Eosinophilic Focus	
		Fatty Change	Focal, Minimal
		Hepatocellular Adenoma	
		Leukemia Mononuclear	
		Mixed Cell Focus	
	[Eosinophilic Focus TGLS = 4-13,3-5]		
	[Hepatocellular Adenoma TGLS = 2-14]		
* Lung		Infiltration Cellular	Histiocyte, Focal, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Nose		Fungus	Mild
		Inflammation	Chronic Active, Moderate
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 414	TRT#: 7	SEX: Male	DAY ON TEST: 729
	DOSE: 10000PPM	DISP: Terminal Sacrifice	HISTO: 1009

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Atrophy	Mild
* Skin		Keratoacanthoma	
	[Keratoacanthoma TGLS = 1-15]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 8-5]		
* Stomach, Forestomach		Hyperplasia	Basal Cell, Focal, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 6,7-9]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 415

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1010

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Zymbal's Gland	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
	[Nephropathy TGLS = 6-7]		
* Liver		Angiectasis	Focal, Mild
		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Mild
		Eosinophilic Focus	
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-5]		
* Lung		Leukemia Mononuclear	
Lymph Node	Lumbar	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-13]		
* Lymph Node, Mandibular		Hyperplasia	Plasma Cell, Mild
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-13]		
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
	[Adenoma TGLS = 7-3]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 415	TRT#: 7	SEX: Male	DAY ON TEST: 729
	DOSE: 10000PPM	DISP: Terminal Sacrifice	HISTO: 1010

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Atrophy	Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-5]			
* Stomach, Forestomach		Hyperplasia	Basal Cell, Focal, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-9]			
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 421

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1011

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Mammary Gland	* Nose	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Zymbal's Gland

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Islets, Pancreatic		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver		Eosinophilic Focus	
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-5]		
* Lung		Alveolar/Bronchiolar Adenoma	
		Leukemia Mononuclear	
	[Alveolar/Bronchiolar Adenoma TGLS = 1-13]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Focal, Mild
		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-5]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 421	TRT#: 7	SEX: Male	DAY ON TEST: 729
	DOSE: 10000PPM	DISP: Terminal Sacrifice	HISTO: 1011

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 4-9]	Bilateral, Interstit Cell	Adenoma
* Thymus		Leukemia Mononuclear

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 422

TRT#: 7

SEX: Male

DAY ON TEST: 702

DOSE: 10000PPM

DISP: Moribund Sacrifice

HISTO: 1012

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Mammary Gland	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Zymbal's Gland	

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Degeneration	Focal, Mild
* Heart		Leukemia Mononuclear	
* Intestine Large, Cecum		Adenocarcinoma	
[Adenocarcinoma TGLS = 4-15]			
* Islets, Pancreatic		Adenoma	
		Leukemia Mononuclear	
* Kidney		Infarct	Marked
		Leukemia Mononuclear	
		Nephropathy	Mild
		Pigmentation	Focal, Moderate
[Infarct TGLS = 8-13]			
[Pigmentation TGLS = 6-7]			
* Liver		Fatty Change	Focal, Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-5]			
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-14]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-14]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 422	TRT#: 7	SEX: Male	DAY ON TEST: 702
	DOSE: 10000PPM	DISP: Moribund Sacrifice	HISTO: 1012

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric [Leukemia Mononuclear TGLS = 7-14]		Leukemia Mononuclear	
* Nose	Glands	Dilatation	Focal, Mild
* Pancreas	Acinus	Atrophy	Focal, Mild
	Acinus	Leukemia Mononuclear	
Pharynx	Palate	Basosquamous Tumor Benign	
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
		Leukemia Mononuclear	
[Hyperplasia TGLS = 9-3]			
* Preputial Gland	Duct	Dilatation	Moderate
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-5]			
* Stomach, Forestomach		Hyperplasia	Basal Cell, Focal, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1,2-9]			
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:46

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 423

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1013

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Zymbal's Gland

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Degeneration	Focal, Minimal
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Hyperplasia	Focal, Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Marked
		Pigmentation	Focal, Minimal
[Nephropathy TGLS = 5-7]			
* Liver		Basophilic Focus	
		Degeneration	Cystic, Focal, Minimal
		Leukemia Mononuclear	
Lymph Node	Inguinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-13]			
[Leukemia Mononuclear TGLS = 4-13]			
* Lymph Node, Mandibular		Hyperplasia	Plasma Cell, Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-13]			
* Nose		Foreign Body	Moderate
		Fungus	Moderate
		Inflammation	Chronic Active, Moderate
* Pancreas	Acinus	Atrophy	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 423

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1013

ORGAN AND ACCOUNTABLE SITE STATUS

Pharynx [Squamous Cell Papilloma TGLS = 7-10,14]	Palate	Squamous Cell Papilloma	
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
* Preputial Gland [Dilatation TGLS = 1-9]	Duct	Dilatation	Mild
* Spleen [Leukemia Mononuclear TGLS = 3-5]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 6-9]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland [Adenoma TGLS = 2-3]	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:46

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 424

TRT#: 7

SEX: Male

DAY ON TEST: 532

DOSE: 10000PPM

DISP: Moribund Sacrifice

HISTO: 1014

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Mammary Gland
* Parathyroid Gland	* Skin	* Thyroid Gland	* Trachea
* Zymbal's Gland			

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Intestine Large, Cecum		Leukemia Mononuclear	
* Intestine Large, Colon		Leukemia Mononuclear	
* Intestine Large, Rectum		Leukemia Mononuclear	
* Intestine Small, Duodenum		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
* Intestine Small, Jejunum		Leukemia Mononuclear	
* Islets, Pancreatic		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-2]			
* Kidney		Leukemia Mononuclear Pigmentation	Focal, Mild
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-5]			
* Lung	Alveolar Epith	Hyperplasia Leukemia Mononuclear Leukemia Mononuclear	Focal, Moderate
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-8]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-8]			
Mesentery	Fat	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-13]			
* Nose		Foreign Body	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 424

TRT#: 7

SEX: Male

DAY ON TEST: 532

DOSE: 10000PPM

DISP: Moribund Sacrifice

HISTO: 1014

ORGAN AND ACCOUNTABLE SITE STATUS

		Fungus	Moderate
		Inflammation	Chronic Active, Marked
* Pancreas	Acinus	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-2]	Leukemia Mononuclear	
* Pituitary Gland		Leukemia Mononuclear	
* Preputial Gland		Leukemia Mononuclear	
* Prostate		Leukemia Mononuclear	
* Salivary Glands		Leukemia Mononuclear	
* Seminal Vesicle		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-9]		
* Spleen		Leukemia Mononuclear	
* Stomach, Forestomach		Leukemia Mononuclear	
* Stomach, Glandular		Leukemia Mononuclear	
* Testes	Interstit Cell	Adenoma	
	[Adenoma TGLS = 6-9]	Leukemia Mononuclear	
* Thymus		Leukemia Mononuclear	
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:46

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 425

TRT#: 7

SEX: Male

DAY ON TEST: 601

DOSE: 10000PPM

DISP: Moribund Sacrifice

HISTO: 1015

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Epididymis		Degeneration	Focal, Mild
* Esophagus		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
		Pigmentation	Focal, Moderate
[Pigmentation TGLS = 3-7]			
* Liver		Hepatocellular Adenoma	
		Leukemia Mononuclear	
		Mixed Cell Focus	
[Hepatocellular Adenoma TGLS = 4-5]			
[Leukemia Mononuclear TGLS = 4-5]			
[Mixed Cell Focus TGLS = 5-14]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose		Fungus	Moderate
		Inflammation	Chronic Active, Moderate
		Leukemia Mononuclear	
* Pancreas	Acinus	Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 425

TRT#: 7

SEX: Male

DAY ON TEST: 601

DOSE: 10000PPM

DISP: Moribund Sacrifice

HISTO: 1015

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 6-3]	Leukemia Mononuclear
* Prostate	Leukemia Mononuclear
* Skin	Keratoacanthoma
[Keratoacanthoma TGLS = 1-14]	
* Spleen	Leukemia Mononuclear
[Leukemia Mononuclear TGLS = 2-13]	
* Testes	Leukemia Mononuclear
* Urinary Bladder	Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 431

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1016

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Cyst	Multiple, Mild
* Bone Marrow		Hyperplasia	Mild
* Epididymis		Degeneration	Focal, Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Moderate
		Pigmentation	Focal, Minimal
[Nephropathy TGLS = 5-7]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
Pharynx	Palate	Hyperplasia	Squamous, Focal, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
* Preputial Gland		Adenoma	
[Adenoma TGLS = 1-13]			
* Spleen		Fibrosis	Focal, Mild
[Fibrosis TGLS = 4-5]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2,3-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:46
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 432

TRT#: 7

SEX: Male

DAY ON TEST: 610

DOSE: 10000PPM

DISP: Moribund Sacrifice

HISTO: 1017

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Zymbal's Gland

OBSERVATIONS

* Brain		Hydrocephalus	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
		Pigmentation	Focal, Mild
[Pigmentation TGLS = 2-7]			
* Liver		Basophilic Focus	
* Nose		Fungus	Mild
		Inflammation	Chronic Active, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 1-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 433

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1018

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Parathyroid Gland
* Preputial Gland	* Prostate	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Zymbal's Gland	

OBSERVATIONS

* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Hyperplasia	Focal, Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
	[Nephropathy TGLS = 4-7]		
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Minimal
		Eosinophilic Focus	
		Fatty Change	Focal, Mild
		Hepatocellular Adenoma	
		Leukemia Mononuclear	
	[Hepatocellular Adenoma TGLS = 3-13]		
* Lung		Inflammation	Focal, Minimal
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Diffuse, Marked
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Salivary Glands		Hyperplasia	Focal, Minimal
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1+2-9]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 433

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1018

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 434

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1019

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Zymbal's Gland	

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 3-7]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Minimal
		Mixed Cell Focus	
		Cyst	Moderate
* Lymph Node, Mandibular			
[Cyst TGLS = 2-2]			
* Nose		Fungus	Moderate
		Inflammation	Chronic Active, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
[Adenoma TGLS = 5-3]			
* Preputial Gland	Duct	Dilatation	Mild
[Dilatation TGLS = 1-9]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 435

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1020

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Zymbal's Gland

OBSERVATIONS

* Bone Marrow		Histiocytic Sarcoma	
* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Histiocytic Sarcoma	
	[Histiocytic Sarcoma TGLS = 2,3-5,13]		
* Lymph Node, Mandibular		Cyst	Moderate
	[Cyst TGLS = 1-2]		
* Nose		Fungus	Moderate
		Inflammation	Chronic Active, Moderate
* Pancreas	Acinus	Atrophy	Focal, Mild
* Prostate		Atrophy	Mild
* Spleen		Fibrosis	Focal, Mild
	[Fibrosis TGLS = 7-5]		
* Testes	Interstitial Cell	Adenoma	
		Atrophy	Marked
	[Adenoma TGLS = 4-9]		
	[Atrophy TGLS = 6-9]		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 441

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1021

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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
* Mammary Gland	* Nose	* Pancreas	* Pituitary Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Zymbal's Gland

MISSING

* Parathyroid Gland	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Hemorrhage	Mild
* Epididymis		Degeneration	Focal, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Angiectasis	Focal, Mild
		Degeneration	Cystic, Focal, Mild
		Eosinophilic Focus	
		Fatty Change	Focal, Minimal
[Degeneration TGLS = 6-5]			
* Lung		Inflammation	Focal, Moderate
Lymph Node	Mediastinal	Hemorrhage	Mild
	Pancreatic	Hemorrhage	Moderate
[Hemorrhage TGLS = 7-8,2-2,3-13,8-2]			
[Hemorrhage TGLS = 7-8,2-2,3-13,8-2]			
* Lymph Node, Mandibular		Hemorrhage	Mild
[Hemorrhage TGLS = 7-8,2-2,3-13,8-2]			
* Lymph Node, Mesenteric		Hemorrhage	Moderate
[Hemorrhage TGLS = 7-8,2-2,3-13,8-2]			
* Prostate		Atrophy	Mild
* Skin	Subcut Tiss	Inflammation	Acute, Mild
[Inflammation TGLS = 1-14]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 441	TRT#: 7	SEX: Male	DAY ON TEST: 729
	DOSE: 10000PPM	DISP: Terminal Sacrifice	HISTO: 1021

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach		Hyperplasia	Squamous, Focal, Mild
* Testes [Adenoma TGLS = 4,5-9]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland [Dilatation TGLS = 9-3.1]	Follicle	Dilatation	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 442

TRT#: 7

SEX: Male

DAY ON TEST: 614

DOSE: 10000PPM

DISP: Moribund Sacrifice

HISTO: 1022

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex		Congestion	Moderate
		Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla		Hyperplasia	Moderate
		Pheochromocytoma Benign	
* Bone Marrow		Hyperplasia	Mild
* Kidney		Nephropathy	Mild
		Pigmentation	Focal, Minimal
* Liver		Degeneration	Cystic, Focal, Mild
		Eosinophilic Focus	
		Fatty Change	Focal, Moderate
		Pigmentation	Focal, Mild
[Fatty Change TGLS = 5-14]			
* Lung		Inflammation	Focal, Mild
Lymph Node	Lumbar	Hemorrhage	Moderate
	Mediastinal	Hemorrhage	Moderate
	Pancreatic	Hemorrhage	Moderate
	Lumbar	Hyperplasia	Plasma Cell, Moderate
[Hemorrhage TGLS = 8-15,4-8,7-13]			
[Hemorrhage TGLS = 8-15,4-8,7-13]			
[Hemorrhage TGLS = 8-15,4-8,7-13]			
[Hyperplasia TGLS = 6-16]			
* Lymph Node, Mesenteric		Hemorrhage	Mild
[Hemorrhage TGLS = 8-15,4-8,7-13]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 442	TRT#: 7	SEX: Male	DAY ON TEST: 614
	DOSE: 10000PPM	DISP: Moribund Sacrifice	HISTO: 1022

ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary Gland		Pigmentation	Focal, Mild
* Nose		Fungus	Moderate
		Inflammation	Chronic Active, Moderate
* Pancreas	Acinus	Atrophy	Focal, Mild
* Prostate		Inflammation	Granulomatous, Focal, Moderate
* Seminal Vesicle		Abscess	Moderate
[Abscess TGLS = 9-9]			
* Spleen		Sarcoma	
[Sarcoma TGLS = 3-5]			
* Testes	Interstitial Cell	Adenoma	
		Atrophy	Moderate
[Atrophy TGLS = 2-9]			
* Thyroid Gland	Follicle	Dilatation	Focal, Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 443

TRT#: 7

SEX: Male

DAY ON TEST: 531

DOSE: 10000PPM

DISP: Natural Death

HISTO: 1023

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Colon
* Intestine Large, Rectum	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Zymbal's Gland		

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Adenoma	
		Hyperplasia	Focal, Moderate
* Kidney		Nephropathy	Minimal
		Pigmentation	Focal, Mild
* Liver		Degeneration	Cystic, Focal, Mild
		Fatty Change	Focal, Mild
* Lung		Congestion	Moderate
			[Congestion TGLS = 2-6+13]
* Lymph Node, Mandibular		Hemorrhage	Moderate
			[Hemorrhage TGLS = 1-2]
* Prostate		Abscess	Moderate
* Testes	Interstit Cell	Adenoma	
* Thymus		Congestion	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 444

TRT#: 7

SEX: Male

DAY ON TEST: 580

DOSE: 10000PPM

DISP: Natural Death

HISTO: 1024

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Epididymis	* Parathyroid Gland	* Preputial Gland	* Zymbal's Gland
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OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone		Hyperplasia	Focal, Moderate
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Esophagus		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Intestine Large, Cecum		Leukemia Mononuclear	
* Intestine Large, Colon		Leukemia Mononuclear	
* Intestine Large, Rectum		Leukemia Mononuclear	
* Intestine Small, Duodenum		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
* Intestine Small, Jejunum		Leukemia Mononuclear	
* Islets, Pancreatic		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
		Pigmentation	Focal, Mild
[Leukemia Mononuclear TGLS = 7-7]			
* Liver		Fatty Change	Focal, Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-5]			
* Lung		Leukemia Mononuclear	
Lymph Node	Lumbar	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-13,1-2,5-8]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-13,1-2,5-8]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-13,1-2,5-8]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 444

TRT#: 7

SEX: Male

DAY ON TEST: 580

DOSE: 10000PPM

DISP: Natural Death

HISTO: 1024

ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary Gland		Leukemia Mononuclear	
* Nose		Leukemia Mononuclear	
* Pancreas	Acinus	Leukemia Mononuclear	
* Pituitary Gland		Leukemia Mononuclear	
* Prostate		Leukemia Mononuclear	
* Salivary Glands		Leukemia Mononuclear	
* Seminal Vesicle		Leukemia Mononuclear	
* Skin		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-5]			
* Stomach, Forestomach		Leukemia Mononuclear	
* Stomach, Glandular		Leukemia Mononuclear	
* Testes		Atrophy	Mild
		Leukemia Mononuclear	
[Atrophy TGLS = 2-9]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland		Leukemia Mononuclear	
* Trachea		Leukemia Mononuclear	
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 445

TRT#: 7

SEX: Male

DAY ON TEST: 706

DOSE: 10000PPM

DISP: Moribund Sacrifice

HISTO: 1025

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Esophagus	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Mammary Gland	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla	Bilateral	Hyperplasia	Mild
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Epididymis		Degeneration	Focal, Moderate
* Heart		Leukemia Mononuclear	
* Intestine Large, Cecum		Leukemia Mononuclear	
* Intestine Large, Colon		Leukemia Mononuclear	
* Islets, Pancreatic		Hyperplasia	Focal, Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
		Pigmentation	Focal, Mild
[Pigmentation TGLS = 6-7]			
* Liver		Degeneration	Cystic, Focal, Minimal
	Vein	Dilatation	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-5]			
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-15,8-8]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-15,8-8]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-15,8-8]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 445	TRT#: 7	SEX: Male	DAY ON TEST: 706
	DOSE: 10000PPM	DISP: Moribund Sacrifice	HISTO: 1025

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland		Leukemia Mononuclear	
* Preputial Gland		Inflammation	Suppurative, Moderate
[Inflammation TGLS = 9-9]			
* Skin		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-14]			
* Stomach, Forestomach		Hyperplasia	Basal Cell, Focal, Minimal
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Atrophy	Moderate
		Hyperplasia	Focal, Mild
[Adenoma TGLS = 3-13]			
[Atrophy TGLS = 2-9]			
[Hyperplasia TGLS = 3-9]			
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 451

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1026

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Nose	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Degeneration	Focal, Mild
* Esophagus		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
	[Nephropathy TGLS = 5-7]		
* Liver		Clear Cell Focus	
		Degeneration	Cystic, Focal, Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-5,13]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Focal, Mild
	Acinus	Leukemia Mononuclear	
* Parathyroid Gland		Leukemia Mononuclear	
Pharynx	Palate	Squamous Cell Carcinoma	
	[Squamous Cell Carcinoma TGLS = 7-10]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 451	TRT#: 7	SEX: Male	DAY ON TEST: 729
	DOSE: 10000PPM	DISP: Terminal Sacrifice	HISTO: 1026

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Hyperplasia TGLS = 6-3]	Pars Distalis	Hyperplasia Leukemia Mononuclear	Focal, Moderate
* Prostate		Inflammation Leukemia Mononuclear	Suppurative, Focal, Mild
* Spleen [Leukemia Mononuclear TGLS = 1-5]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 3,4-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia Leukemia Mononuclear	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 452

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1027

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Zymbal's Gland		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Adenoma	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
	[Leukemia Mononuclear TGLS = 6-7]		
	[Nephropathy TGLS = 6-7]		
* Liver		Degeneration	Cystic, Focal, Minimal
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland	Duct	Dilatation	Mild
	[Dilatation TGLS = 1-9]		
* Prostate		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLS = 2-13]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4,5-5]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 7-9]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 452

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1027

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Leukemia Mononuclear

* Thyroid Gland

C Cell

Carcinoma

[Carcinoma TGLS = 3-3]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:47

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 453

TRT#: 7

SEX: Male

DAY ON TEST: 668

DOSE: 10000PPM

DISP: Natural Death

HISTO: 1028

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Epididymis | * Esophagus | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Mammary Gland | * Parathyroid Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Glandular |
| * Urinary Bladder | * Zymbal's Gland | | |

MISSING

- * Preputial Gland

OBSERVATIONS

- | | | | |
|--|-------------|----------------------|------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 8,9-1] | | | |
| * Heart | | Cardiomyopathy | Mild |
| | | Leukemia Mononuclear | |
| * Islets, Pancreatic | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Mild |
| * Liver | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 1-5] | | | |
| * Lung | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 4-6] | | | |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 12-2,11-14,10-13] | | | |
| [Leukemia Mononuclear TGLS = 12-2,11-14,10-13] | | | |
| * Lymph Node, Mandibular | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 12-2,11-14,10-13] | | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 12-2,11-14,10-13] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 453	TRT#: 7	SEX: Male	DAY ON TEST: 668
	DOSE: 10000PPM	DISP: Natural Death	HISTO: 1028

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose		Leukemia Mononuclear	
* Pancreas	Acinus	Leukemia Mononuclear	
* Pituitary Gland		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-15]		
* Stomach, Forestomach		Hyperplasia	Basal Cell, Focal, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 5,6-9]		
* Thymus		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-3]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
* Trachea		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 454

TRT#: 7

SEX: Male

DAY ON TEST: 692

DOSE: 10000PPM

DISP: Moribund Sacrifice

HISTO: 1029

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Esophagus	Eye	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Zymbal's Gland

OBSERVATIONS

* Bone Marrow		Histiocytic Sarcoma	
* Epididymis		Degeneration	Focal, Mild
* Kidney		Cyst	Mild
		Nephropathy	Moderate
		Pigmentation	Focal, Mild
[Pigmentation TGLS = 8-7]			
* Liver		Degeneration	Cystic, Focal, Minimal
		Histiocytic Sarcoma	
[Histiocytic Sarcoma TGLS = 9,10-5]			
* Lung		Histiocytic Sarcoma	
* Mammary Gland		Histiocytic Sarcoma	
Skeletal Muscle		Histiocytic Sarcoma	
[Histiocytic Sarcoma TGLS = 6-14]			
* Skin	Subcut Tiss	Fibroma	
	Subcut Tiss	Histiocytic Sarcoma	
[Fibroma TGLS = 1-13]			
* Spleen	Capsule	Cyst	Mild
[Cyst TGLS = 7-5]			
* Stomach, Forestomach		Hyperplasia	Basal Cell, Focal, Mild
* Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 454	TRT#: 7	SEX: Male	DAY ON TEST: 692
	DOSE: 10000PPM	DISP: Moribund Sacrifice	HISTO: 1029

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2,3-9]		Atrophy	Moderate
[Atrophy TGLS = 4-9]			
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:47

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 455

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1030

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Mammary Gland	* Nose
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Zymbal's Gland

OBSERVATIONS

* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 7-3]			
* Bone Marrow		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Intestine Large, Cecum		Leukemia Mononuclear	
* Islets, Pancreatic		Adenoma	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
[Nephropathy TGLS = 8-7]			
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Hepatocellular Adenoma	
		Leukemia Mononuclear	
[Hepatocellular Adenoma TGLS = 6-5]			
[Leukemia Mononuclear TGLS = 5-5]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
[Hyperplasia TGLS = 9-3]			
* Preputial Gland	Duct	Dilatation	Moderate
[Dilatation TGLS = 1-9]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 455	TRT#: 7	SEX: Male	DAY ON TEST: 729
	DOSE: 10000PPM	DISP: Terminal Sacrifice	HISTO: 1030

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Atrophy Inflammation	Mild Suppurative, Focal, Minimal
* Spleen [Leukemia Mononuclear TGLS = 4-5]		Leukemia Mononuclear	
* Stomach, Forestomach		Hyperplasia	Basal Cell, Focal, Mild
* Testes [Adenoma TGLS = 2,3-9]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 461

TRT#: 7

SEX: Male

DAY ON TEST: 450

DOSE: 10000PPM

DISP: Moribund Sacrifice

HISTO: 1031

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Esophagus	* Intestine Large, Colon	* Intestine Small, Jejunum
* Parathyroid Gland	* Preputial Gland	* Prostate	* Seminal Vesicle
* Trachea	* Zymbal's Gland		

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Epididymis		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Intestine Large, Cecum		Leukemia Mononuclear	
* Intestine Large, Rectum		Leukemia Mononuclear	
* Intestine Small, Duodenum		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
* Islets, Pancreatic		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
[Leukemia Mononuclear TGLS = 3-7]			
* Liver		Fatty Change	Focal, Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-5,13,14]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6,13,14]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-8]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-8]			
* Mammary Gland		Leukemia Mononuclear	
* Nose		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 461

TRT#: 7

SEX: Male

DAY ON TEST: 450

DOSE: 10000PPM

DISP: Moribund Sacrifice

HISTO: 1031

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Leukemia Mononuclear
* Salivary Glands	Leukemia Mononuclear
* Skin	Leukemia Mononuclear
* Spleen	Leukemia Mononuclear
[Leukemia Mononuclear TGLS = 1-13]	
* Stomach, Forestomach	Leukemia Mononuclear
* Stomach, Glandular	Leukemia Mononuclear
* Testes	Leukemia Mononuclear
* Thymus	Leukemia Mononuclear
* Thyroid Gland	Leukemia Mononuclear
* Urinary Bladder	Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 462

TRT#: 7

SEX: Male

DAY ON TEST: 722

DOSE: 10000PPM

DISP: Natural Death

HISTO: 1032

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Zymbal's Gland

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Bone		Fibrous Osteodystrophy	Mild
* Epididymis		Degeneration	Focal, Moderate
* Heart		Cardiomyopathy	Mild
		Mineralization	Focal, Mild
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 3-7]			
* Liver	Bile Duct	Cyst	Minimal
		Degeneration	Cystic, Focal, Mild
* Lung		Inflammation	Focal, Moderate
* Nose		Inflammation	Subacute, Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Parathyroid Gland	Bilateral	Hyperplasia	Marked
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Focal, Moderate
	Pars Nervosa	Hyperplasia	Focal, Mild
* Prostate		Abscess	Moderate
* Stomach, Forestomach		Hyperplasia	Basal Cell, Focal, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1,2-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 462

TRT#: 7

SEX: Male

DAY ON TEST: 722

DOSE: 10000PPM

DISP: Natural Death

HISTO: 1032

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:47

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 463

TRT#: 7

SEX: Male

DAY ON TEST: 506

DOSE: 10000PPM

DISP: Natural Death

HISTO: 1033

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Brain
- * Intestine Large, Cecum
- * Islets, Pancreatic
- * Pituitary Gland
- * Seminal Vesicle
- * Testes
- * Zymbal's Gland

- * Adrenal Medulla
- * Epididymis
- * Intestine Large, Colon
- * Lymph Node, Mandibular
- * Preputial Gland
- * Skin
- * Thyroid Gland

- * Bone
- * Esophagus
- * Intestine Large, Rectum
- * Lymph Node, Mesenteric
- * Prostate
- * Stomach, Forestomach
- * Trachea

- * Bone Marrow
- * Heart
- * Intestine Small, Duodenum
- * Parathyroid Gland
- * Salivary Glands
- * Stomach, Glandular
- * Urinary Bladder

MISSING

- * Mammary Gland

AUTO PRECLUDES DIAG.

- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Spleen

OBSERVATIONS

- * Kidney
 - * Liver
 - * Lung
 - * Nose
 - * Pancreas
 - [Leukemia Mononuclear TGLS = 2-13]
 - * Thymus
- Leukemia Mononuclear
- Leukemia Mononuclear
- Leukemia Mononuclear
- Inflammation
- Leukemia Mononuclear
- Leukemia Mononuclear
- Subacute, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 464

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1034

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Mammary Gland	* Nose	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Zymbal's Gland			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Degeneration	Focal, Mild
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Islets, Pancreatic		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
		Pigmentation	Focal, Mild
* Liver		Degeneration	Cystic, Focal, Mild
		Eosinophilic Focus	
		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 5-5]	
* Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 4-2]	
* Lymph Node, Mandibular		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 4-2]	
* Lymph Node, Mesenteric		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 464

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1034

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 4-2]			
* Pancreas	Acinus	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-2]			
* Pituitary Gland		Leukemia Mononuclear	
* Prostate		Atrophy	Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-5]			
* Stomach, Forestomach		Hyperplasia	Basal Cell, Focal, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
		Leukemia Mononuclear	
[Adenoma TGLS = 3-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 465

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1035

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Zymbal's Gland	

OBSERVATIONS

* Brain		Gliosis	Focal, Mild
* Epididymis		Degeneration	Focal, Minimal
* Islets, Pancreatic		Hyperplasia	Focal, Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Minimal
		Fatty Change	Focal, Mild
[Clear Cell Focus TGLS = 3-5]			
[Fatty Change TGLS = 3-5]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Prostate		Inflammation	Chronic, Focal, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 491

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 673
HISTO: MBO06G-1046

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Zymbal's Gland

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Pigmentation	Focal, Minimal
* Liver		Basophilic Focus	
		Fatty Change	Focal, Minimal
* Lung		Inflammation	Focal, Mild
Lymph Node	Renal	Hemorrhage	Mild
[Hemorrhage TGLS = 6-13,5-8]			
* Lymph Node, Mandibular		Hyperplasia	Plasma Cell, Minimal
[Hyperplasia TGLS = 3-2]			
* Lymph Node, Mesenteric		Hemorrhage	Mild
[Hemorrhage TGLS = 6-13,5-8]			
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1,2-15,16]			
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 4-14]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-3]			
* Uterus		Cyst	Multiple, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 492

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 1047

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Zymbal's Gland	

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Intestine Large, Rectum		Leukemia Mononuclear	
* Islets, Pancreatic		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
		Pigmentation	Focal, Minimal
* Liver		Eosinophilic Focus	
		Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-5]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Leukemia Mononuclear	
* Nose		Leukemia Mononuclear	
* Ovary		Leukemia Mononuclear	
* Pancreas	Acinus	Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
[Adenoma TGLS = 5-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 492

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 734
HISTO: 1047

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Leukemia Mononuclear TGLS = 3-5]	Leukemia Mononuclear
* Stomach, Forestomach	Leukemia Mononuclear
* Thymus	Leukemia Mononuclear
* Urinary Bladder	Leukemia Mononuclear
* Uterus	Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 493

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 532
HISTO: MB006G-1048

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus	* Zymbal's Gland	

OBSERVATIONS

* Kidney		Mineralization	Focal, Minimal
		Nephropathy	Minimal
		Pigmentation	Focal, Minimal
* Liver		Basophilic Focus	
		Fatty Change	Focal, Minimal
* Lung		Inflammation	Focal, Minimal
* Mammary Gland	Duct	Dilatation	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
* Spleen		Hematopoietic Cell Proliferation	Marked
	[Hematopoietic Cell Proliferation TGLS = 2-5]		
Vagina		Leiomyosarcoma	
	[Leiomyosarcoma TGLS = 1-13]		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 494

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 671
HISTO: 1049

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus
* Zymbal's Gland			

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Moderate
* Bone Marrow		Atrophy	Moderate
* Brain		Hydrocephalus	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Focal, Mild
		Pigmentation	Focal, Moderate
* Liver		Basophilic Focus	
		Congestion	Moderate
		Fatty Change	Focal, Mild
[Congestion TGLS = 3-5]			
* Lung		Infiltration Cellular	Histiocyte, Focal, Mild
* Lymph Node, Mandibular		Hyperplasia	Plasma Cell, Mild
* Mammary Gland		Fibroadenoma	
		Galactocele	Moderate
[Fibroadenoma TGLS = 1-9]			
* Nose		Inflammation	Chronic Active, Mild
* Pituitary Gland	Pars Distalis	Carcinoma	
[Carcinoma TGLS = 2-3]			
* Stomach, Forestomach		Acanthosis	Focal, Moderate
		Hyperplasia	Basal Cell, Focal, Mild
		Inflammation	Chronic, Focal, Moderate
		Ulcer	Focal, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:47

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 494

TRT#: 2

SEX: Female

DAY ON TEST: 671

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 1049

ORGAN AND ACCOUNTABLE SITE STATUS

[Acanthosis TGLS = 4-5]

[Inflammation TGLS = 4-5]

[Ulcer TGLS = 5-4]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 495

TRT#: 2

SEX: Female

DAY ON TEST: 532

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: MB006G-1050

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	* Zymbal's Gland

OBSERVATIONS

* Brain		Carcinoma	Metastatic (Pituitary Gland)
* Kidney		Mineralization	Focal, Minimal
		Pigmentation	Focal, Minimal
* Liver		Fatty Change	Focal, Minimal
		Inflammation	Chronic, Focal, Mild
* Mammary Gland		Inflammation	Acute, Focal, Mild
* Pituitary Gland	Pars Distalis	Carcinoma	
[Carcinoma TGLS = 1-3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 501

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 642
HISTO: MB006G-1051

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus	* Zymbal's Gland		

OBSERVATIONS

* Bone Marrow		Atrophy	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Focal, Mild
		Nephropathy	Marked
		Pigmentation	Focal, Mild
[Nephropathy TGLS = 1-7]			
* Liver		Basophilic Focus	
* Lymph Node, Mandibular		Hemorrhage	Mild
[Hemorrhage TGLS = 3-2]			
* Mammary Gland		Galactocele	Moderate
[Galactocele TGLS = 4-8,13]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 502

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 1052

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus	* Zymbal's Gland		

MISSING

* Thymus

OBSERVATIONS

* Bone		Hyperostosis	Moderate
* Clitoral Gland	Duct	Dilatation	Moderate
[Dilatation TGLS = 1-9]			
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Focal, Minimal
		Nephropathy	Moderate
		Pigmentation	Focal, Minimal
* Liver		Basophilic Focus	
[Basophilic Focus TGLS = 4-5]		Clear Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Focal, Minimal
		Inflammation	Focal, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-13]		Galactocele	Mild
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 5-15]			
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 502	TRT#: 2 DOSE: 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 1052
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ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 6-3]	Pars Distalis	Cyst	Mild
Skeletal Muscle [Ectopic Tissue TGLS = 3-14]	Diaphragm	Ectopic Tissue	

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 503

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 734
HISTO: 1053

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	* Zymbal's Gland

OBSERVATIONS

* Kidney		Mineralization	Focal, Mild
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-5]		
* Mammary Gland		Fibroadenoma	
		Galactocele	Moderate
	[Fibroadenoma TGLS = 1-13]		
* Pituitary Gland	Pars Distalis	Angiectasis	Focal, Mild
	Pars Distalis	Hyperplasia	Focal, Mild
	[Angiectasis TGLS = 4-3]		
* Spleen		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 504

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 734
HISTO: 1054

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Zymbal's Gland			

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Hemorrhage	Focal, Minimal
		Nephropathy	Minimal
		Pigmentation	Focal, Minimal
* Liver		Basophilic Focus	
		Fatty Change	Focal, Minimal
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-13,2-14]			
* Nose		Inflammation	Subacute, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
* Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:47

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 505

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 1055

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Bone Marrow | * Brain | * Clitoral Gland |
| * Esophagus | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | * Uterus |
| * Zymbal's Gland | | | |

OBSERVATIONS

- | | | |
|-----------------------------|-------------------------|-------------------------|
| * Adrenal Medulla | Hyperplasia | Moderate |
| | Pheochromocytoma Benign | |
| * Bone | Hyperostosis | Moderate |
| * Kidney | Mineralization | Focal, Mild |
| | Nephropathy | Mild |
| | Pigmentation | Focal, Minimal |
| * Liver | Fatty Change | Focal, Mild |
| | Inflammation | Chronic, Focal, Minimal |
| [Fatty Change TGLS = 3-5] | | |
| [Inflammation TGLS = 2-5] | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 511

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 734
HISTO: 1056

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Nose	* Ovary
* Pancreas	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Zymbal's Gland		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Bone		Hyperostosis	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Fatty Change	Focal, Mild
		Inflammation	Chronic, Focal, Mild
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
* Uterus		Cyst	Minimal

Note: CYST IS MULTIPLE

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 512

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 734
HISTO: 1057

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Ovary	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus
* Zymbal's Gland			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Kidney		Mineralization	Focal, Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Focal, Mild
* Lung		Inflammation	Focal, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13]			
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
[Hyperplasia TGLS = 3-3]			
* Thyroid Gland	C Cell	Hyperplasia	Diffuse, Mild
		Inflammation	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 513

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 734
HISTO: 1058

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus	* Zymbal's Gland		

OBSERVATIONS

* Bone Marrow		Atrophy	Mild
* Clitoral Gland	Duct	Dilatation	Mild
[Dilatation TGLS = 1-9]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Focal, Minimal
		Nephropathy	Mild
		Pigmentation	Focal, Minimal
* Liver		Angiectasis	Focal, Mild
		Basophilic Focus	
		Clear Cell Focus	
[Angiectasis TGLS = 4-5]			
[Basophilic Focus TGLS = 4-5]			
[Clear Cell Focus TGLS = 3-13]			
* Lung		Inflammation	Focal, Minimal
* Mammary Gland		Fibroadenoma	
		Galactocele	Mild
[Fibroadenoma TGLS = 2-14]			
* Nose		Inflammation	Acute, Mild
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
* Stomach, Glandular		Inflammation	Chronic Active, Focal, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 513

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 734
HISTO: 1058

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 514

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 1059

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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	* Mammary Gland	* Nose
* Ovary	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Uterus
* Zymbal's Gland			

MISSING

* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Clitoral Gland		Inflammation	Suppurative, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Focal, Minimal
		Nephropathy	Minimal
		Pigmentation	Focal, Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
	[Hepatodiaphragmatic Nodule TGLS = 1-5]		
* Lung		Infiltration Cellular	Histiocyte, Focal, Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 515

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 734
HISTO: 1060

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Zymbal's Gland			

OBSERVATIONS

* Bone Marrow		Atrophy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hematopoietic Cell Proliferation	Mild
* Lung		Hemorrhage	Focal, Minimal
		Infiltration Cellular	Histiocyte, Focal, Minimal
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 2-14,1-13]			
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
* Uterus		Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 521

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 734
HISTO: 1061

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus
* Zymbal's Gland			

MISSING

* Adrenal Medulla

OBSERVATIONS

* Clitoral Gland	Duct	Dilatation	Moderate
[Dilatation TGLS = 2-9]			
Eye		Phthisis Bulbi	Marked
[Phthisis Bulbi TGLS = 1-13]			
* Kidney		Mineralization	Focal, Minimal
		Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
* Lung		Infiltration Cellular	Histiocyte, Focal, Minimal
		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Focal, Mild
* Spleen		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 522

TRT#: 2

SEX: Female

DAY ON TEST: 659

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 1062

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Thyroid Gland	* Trachea	* Uterus
* Zymbal's Gland			

MISSING

* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear Mineralization Pigmentation	Focal, Minimal Focal, Moderate
* Liver		Fatty Change Leukemia Mononuclear	Diffuse, Marked
[Leukemia Mononuclear TGLS = 2-5]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Adenocarcinoma Galactocele	Mild
[Adenocarcinoma TGLS = 1-13]			
* Nose		Leukemia Mononuclear	
* Ovary		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma Leukemia Mononuclear	
[Adenoma TGLS = 4-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 522

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 659
HISTO: 1062

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen
[Leukemia Mononuclear TGLS = 5-5]

Leukemia Mononuclear

* Stomach, Glandular

Erosion

Focal, Minimal

* Thymus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 523

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 734
HISTO: 1063

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus
* Zymbal's Gland			

MISSING

* Clitoral Gland	* Parathyroid Gland
------------------	---------------------

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Hyperplasia	Focal, Mild
* Kidney		Mineralization	Focal, Minimal
		Nephropathy	Mild
		Pigmentation	Focal, Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Mammary Gland		Fibroadenoma	
		Galactocele	Mild
[Fibroadenoma TGLS = 2-9]			
[Galactocele TGLS = 2-9]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 524

TRT#: 2

SEX: Female

DAY ON TEST: 270

DOSE: 0 PPM

DISP: Natural Death

HISTO: 1064

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Colon	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus	* Zymbal's Gland		

AUTO PRECLUDES DIAG.

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

OBSERVATIONS

* Kidney	Mineralization	Focal, Minimal
* Liver	Congestion	Mild
[Congestion TGLS = 4-5]		
* Lung	Congestion	Moderate
[Congestion TGLS = 1-6]		
* Lymph Node, Mandibular	Hemorrhage	Mild
* Nose	Inflammation	Chronic Active, Moderate
* Thymus	Hemorrhage	Moderate

PRIMARY CAUSE OF DEATH

-

Animal Note: ARE MOSTLY DUE TO POST MORTEM CHANGE.

Animal Note: THE COLOR CHANGE NOTED FOR THE SIX LESIONS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 525

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 734
HISTO: 1065

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Moderate
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Focal, Mild
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Minimal
	Bile Duct	Hyperplasia	Focal, Mild
* Lung	Alveolar Epith	Hyperplasia	Focal, Mild
* Mammary Gland		Adenocarcinoma	
		Degeneration	Focal, Mild
	[Adenocarcinoma TGLS = 1-13]		
* Ovary		Cyst	Moderate
	[Cyst TGLS = 2-9]		
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Uterus		Cyst	Multiple, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:47

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 531

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 428

HISTO: 1066

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Parathyroid Gland
* Salivary Glands	* Skin	* Thyroid Gland	* Trachea
* Urinary Bladder	* Zymbal's Gland		

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Intestine Large, Cecum		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-4,5-8,5-8]			
* Intestine Large, Colon		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-4,5-8,5-8]			
* Intestine Large, Rectum		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-4,5-8,5-8]			
* Intestine Small, Duodenum		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-8,4-8,4-4]			
* Intestine Small, Ileum		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-8,4-8,4-4]			
* Intestine Small, Jejunum		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-8,4-8,4-4]			
* Islets, Pancreatic		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear Mineralization	Focal, Minimal
* Liver		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
	Iliac	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:47

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 531

TRT#: 2

SEX: Female

DAY ON TEST: 428

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 1066

ORGAN AND ACCOUNTABLE SITE STATUS

Renal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-13,9-15,6-15,8-14,3-16]		
[Leukemia Mononuclear TGLS = 7-13,9-15,6-15,8-14,3-16]		
[Leukemia Mononuclear TGLS = 7-13,9-15,6-15,8-14,3-16]		
[Leukemia Mononuclear TGLS = 7-13,9-15,6-15,8-14,3-16]		
* Lymph Node, Mandibular	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-13,9-15,6-15,8-14,3-16]		
* Lymph Node, Mesenteric	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-13,9-15,6-15,8-14,3-16]		
* Mammary Gland	Leukemia Mononuclear	
* Nose	Leukemia Mononuclear	
* Ovary	Leukemia Mononuclear	
* Pancreas	Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Mild
	Pars Distalis	Focal, Minimal
* Spleen	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-5]		
* Stomach, Forestomach	Leukemia Mononuclear	
* Stomach, Glandular	Leukemia Mononuclear	
* Thymus	Leukemia Mononuclear	
* Uterus	Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 532

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 1067

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus
* Zymbal's Gland			

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
		Pigmentation	Focal, Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	[Basophilic Focus TGLS = 3-5]		
* Lung		Inflammation	Focal, Minimal
* Mammary Gland		Galactocele	Mild
Mesentery	Fat	Necrosis	Focal, Mild
	[Necrosis TGLS = 2-13]		
* Nose		Inflammation	Chronic Active, Mild
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
	Pars Distalis	Hyperplasia	Focal, Mild
	[Adenoma TGLS = 4-3]		
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 533

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 666
HISTO: 1068

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Zymbal's Gland

OBSERVATIONS

* Kidney		Mineralization	Focal, Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	
Lymph Node	Renal	Hemorrhage	Mild
[Hemorrhage TGLS = 2-7]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13]			
* Ovary		Cyst	Mild
* Pituitary Gland	Pars Distalis	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 534

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 734
HISTO: 1069

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus	* Zymbal's Gland	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 1-13]			
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Focal, Minimal
		Nephropathy	Mild
		Pigmentation	Focal, Minimal
* Liver		Basophilic Focus	
		Fatty Change	Focal, Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-5]			
* Mammary Gland		Galactocele	Minimal
		Inflammation	Chronic, Focal, Moderate
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 3-14]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
* Spleen		Leukemia Mononuclear	
* Thyroid Gland	Bilateral, C Cell	Adenoma	
[Adenoma TGLS = 2-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 534

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 734
HISTO: 1069

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 535

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 734
HISTO: 1070

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus	* Zymbal's Gland	

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Clitoral Gland	Duct	Dilatation	Mild
* Kidney		Mineralization	Focal, Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Fatty Change	Focal, Mild
	Bile Duct	Hyperplasia	Focal, Minimal
[Fatty Change TGLS = 2-5]			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Focal, Minimal
[Adenoma TGLS = 3-3]			
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 541

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 734
HISTO: 1071

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, Mesenteric	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus	* Zymbal's Gland	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Adrenal Medulla		Hyperplasia	Mild
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 1-13]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Focal, Minimal
* Liver		Basophilic Focus	
[Developmental Malformation TGLS = 4-5]		Developmental Malformation	
* Lymph Node, Mandibular		Hyperplasia	Plasma Cell, Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-14]		Galactocele	Mild
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Moderate
[Cyst TGLS = 3-3]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 542

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 734
HISTO: 1072

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Brain	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus	* Zymbal's Gland		

MISSING

* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Adrenal Medulla		Hyperplasia	Mild
* Bone		Inflammation	Acute, Mild
* Kidney		Nephropathy	Minimal
		Pigmentation	Focal, Mild
* Liver		Basophilic Focus	
		Hyperplasia	Focal, Mild
		Inflammation	Chronic, Focal, Mild
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Hemorrhage	Moderate
* Mammary Gland		Adenocarcinoma	
		Galactocele	Moderate
[Adenocarcinoma TGLS = 1-13]			
* Nose		Inflammation	Chronic Active, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 543	TRT#: 2 DOSE: 0 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 684 HISTO: 1073
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Salivary Glands	* Skin	* Zymbal's Gland
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OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Vacuolization Cytoplasmic	Focal, Moderate
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-1]			
* Clitoral Gland		Leukemia Mononuclear	
* Esophagus		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Intestine Large, Cecum		Leukemia Mononuclear	
* Intestine Large, Colon		Leukemia Mononuclear	
* Intestine Large, Rectum		Leukemia Mononuclear	
* Intestine Small, Duodenum		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
* Intestine Small, Jejunum		Leukemia Mononuclear	
* Islets, Pancreatic		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
* Liver		Fatty Change Leukemia Mononuclear	Diffuse, Moderate
[Leukemia Mononuclear TGLS = 4-5]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-6]			
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-2,10-15,9-13,3-8]			
[Leukemia Mononuclear TGLS = 1-2,10-15,9-13,3-8]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-2,10-15,9-13,3-8]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 543	TRT#: 2	SEX: Female	DAY ON TEST: 684
	DOSE: 0 PPM	DISP: Moribund Sacrifice	HISTO: 1073

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric [Leukemia Mononuclear TGLS = 1-2,10-15,9-13,3-8]		Leukemia Mononuclear	
* Mammary Gland		Leukemia Mononuclear	
* Nose		Leukemia Mononuclear	
* Ovary		Leukemia Mononuclear	
* Pancreas	Acinus	Leukemia Mononuclear	
* Parathyroid Gland		Leukemia Mononuclear	
* Pituitary Gland [Hyperplasia TGLS = 8-3]	Pars Distalis	Hyperplasia Leukemia Mononuclear	Focal, Mild
* Spleen [Leukemia Mononuclear TGLS = 2-14]		Leukemia Mononuclear	
* Stomach, Forestomach		Leukemia Mononuclear	
* Stomach, Glandular		Leukemia Mononuclear	
* Thymus [Leukemia Mononuclear TGLS = 5-3]		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia Leukemia Mononuclear	Focal, Mild
* Trachea		Leukemia Mononuclear	
* Urinary Bladder		Leukemia Mononuclear	
* Uterus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 544

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Natural Death

DAY ON TEST: 671
HISTO: 1074

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Brain	* Esophagus	* Islets, Pancreatic
* Mammary Gland	* Nose	* Pancreas	* Salivary Glands
* Skin	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus	* Zymbal's Gland	

MISSING

* Bone Marrow	* Parathyroid Gland	* Thymus
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AUTO PRECLUDES DIAG.

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

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Moderate
* Bone	Femur	Osteoporosis	Marked
[Osteoporosis TGLS = 6-11]			
* Bone Marrow			
Note: FEMURS ARE SOLID.			
* Clitoral Gland	Duct	Dilatation	Moderate
[Dilatation TGLS = 10-9]			
* Heart		Cardiomyopathy	Mild
* Kidney		Pigmentation	Focal, Mild
[Pigmentation TGLS = 5-7]			
* Liver		Fatty Change	Diffuse, Marked
[Leukemia Mononuclear TGLS = 4-5]			
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 11-13,1-2]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 11-13,1-2]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 11-13,1-2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 544	TRT#: 2 DOSE: 0 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: 671 HISTO: 1074
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ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery [Necrosis TGLS = 12-14]	Fat	Necrosis	Focal, Moderate
* Ovary		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Spleen [Leukemia Mononuclear TGLS = 2-5]		Leukemia Mononuclear	
* Stomach, Forestomach		Inflammation	Acute, Focal, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 545

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 734
HISTO: 1075

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus	* Zymbal's Gland		

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Clitoral Gland		Inflammation	Chronic, Minimal
[Inflammation TGLS = 1-9]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
		Pigmentation	Focal, Minimal
* Liver		Angiectasis	Focal, Mild
		Basophilic Focus	
		Hematopoietic Cell Proliferation	Minimal
		Inflammation	Chronic, Focal, Minimal
* Nose		Inflammation	Chronic Active, Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 551

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 1076

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Zymbal's Gland

OBSERVATIONS

* Clitoral Gland [Inflammation TGLS = 2-9]		Inflammation	Suppurative, Moderate
* Kidney		Infiltration Cellular Pigmentation Basophilic Focus	Lymphocyte, Focal, Minimal Focal, Minimal
* Liver [Basophilic Focus TGLS = 4-5]		Fibroadenoma	
* Mammary Gland [Fibroadenoma TGLS = 1-13]			
* Nose		Inflammation	Subacute, Mild
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland [Cyst TGLS = 5-3]	Pars Distalis	Cyst	Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
* Uterus [Hypoplasia TGLS = 3-9]		Hypoplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 552

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 1077

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Zymbal's Gland			

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Bone Marrow		Atrophy	Mild
Eye	Retina	Atrophy	Moderate
[Atrophy TGLS = 1-13]			
* Kidney		Mineralization	Focal, Minimal
		Nephropathy	Mild
		Pigmentation	Focal, Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
[Basophilic Focus TGLS = 3-5]			
[Hepatodiaphragmatic Nodule TGLS = 4-5]			
* Lung		Inflammation	Focal, Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-14]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
* Uterus		Dilatation	Mild
[Dilatation TGLS = 5-9]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 553

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 734
HISTO: 1078

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose
* Ovary	* Pancreas	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	* Zymbal's Gland

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Degeneration	Cystic, Focal, Mild
		Hepatodiaphragmatic Nodule	
[Degeneration TGLS = 6-16]			
[Hepatodiaphragmatic Nodule TGLS = 5-5]			
* Lung		Carcinoma	Metastatic (Thyroid Gland)
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 2-14,1-13]			
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 3-15]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-3]			
* Thyroid Gland	C Cell	Carcinoma	
[Carcinoma TGLS = 4-3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 554

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 734
HISTO: 1079

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Parathyroid Gland
* Salivary Glands	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Zymbal's Gland			

OBSERVATIONS

* Kidney		Mineralization Nephropathy Pigmentation	Focal, Minimal Minimal Focal, Minimal
* Liver		Basophilic Focus Inflammation	Chronic, Focal, Minimal
* Lung		Infiltration Cellular	Histiocyte, Focal, Minimal
* Nose		Fungus Inflammation	Moderate Chronic Active, Moderate
* Pancreas [Atrophy TGLS = 2-2]	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Skin [Cyst Epithelial Inclusion TGLS = 1-13]		Cyst Epithelial Inclusion	
* Uterus [Dilatation TGLS = 3-9]		Dilatation	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 555

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 734
HISTO: 1080

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Zymbal's Gland			

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Bone Marrow		Atrophy	Mild
* Kidney		Mineralization	Focal, Minimal
		Nephropathy	Mild
		Pigmentation	Focal, Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hyperplasia	Focal, Mild
		Inflammation	Chronic, Focal, Mild
[Hyperplasia TGLS = 2,3-5]			
* Lung		Inflammation	Focal, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
* Uterus		Cyst	Mild
		Dilatation	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:47

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 561

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 734

HISTO: 1081

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Mild
		Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla		Hyperplasia	Mild
* Kidney		Mineralization	Focal, Mild
		Nephropathy	Minimal
		Pigmentation	Focal, Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Fatty Change	Focal, Mild
		Inflammation	Chronic, Focal, Minimal
	[Basophilic Focus TGLS = 3-5,14]		
* Lung		Infiltration Cellular	Histiocyte, Focal, Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1,2-15,16]		
* Pancreas	Acinus	Atrophy	Focal, Minimal
Pharynx	Palate	Squamous Cell Papilloma	
	[Squamous Cell Papilloma TGLS = 5-13]		
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	[Cyst TGLS = 4-3]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 561

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 734
HISTO: 1081

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 562

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 1082

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus	* Zymbal's Gland		

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Clitoral Gland		Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
		Pigmentation	Focal, Minimal
* Liver		Fatty Change	Focal, Minimal
		Hematopoietic Cell Proliferation	Minimal
	Bile Duct	Hyperplasia	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 563

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 1083

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Zymbal's Gland	

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Focal, Minimal
		Nephropathy	Minimal
		Pigmentation	Focal, Minimal
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Leukemia Mononuclear	
* Uterus		Cyst	Moderate

Note: CYST IS MULTIPLE.

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 564

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 1084

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Brain	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	* Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
		Vacuolization Cytoplasmic	Focal, Mild
* Bone		Hyperostosis	Marked
* Clitoral Gland	Duct	Dilatation	Mild
[Dilatation TGLS = 1-9]			
* Kidney		Mineralization	Focal, Minimal
		Nephropathy	Mild
		Pigmentation	Focal, Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Focal, Mild
		Inflammation	Chronic, Focal, Minimal
[Fatty Change TGLS = 2-5]		Mixed Cell Focus	
* Lung		Inflammation	Focal, Mild
* Mammary Gland		Galactoceles	Mild
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Focal, Minimal
[Adenoma TGLS = 3-3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:47

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 565

TRT#: 2

SEX: Female

DAY ON TEST: 499

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 1085

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Clitoral Gland	* Zymbal's Gland
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OBSERVATIONS

* Adrenal Medulla [Hyperplasia TGLS = 2-3]		Hyperplasia	Moderate
* Kidney		Mineralization Nephropathy Pigmentation	Focal, Minimal Minimal Focal, Minimal
* Liver		Basophilic Focus	
* Mammary Gland	Duct	Dilatation Hyperplasia	Moderate Focal, Mild
* Pituitary Gland [Adenoma TGLS = 1-3]	Pars Distalis	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 571

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 1086

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	* Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Clitoral Gland	Duct	Dilatation	Mild
* Heart		Cardiomyopathy	Mild
* Intestine Small, Jejunum		Mineralization	Focal, Minimal
* Kidney		Mineralization	Focal, Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic, Focal, Minimal
[Hepatodiaphragmatic Nodule TGLS = 1,2,3-13]			
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
[Adenoma TGLS = 4-3]			
[Cyst TGLS = 4-3]			
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 572

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Natural Death

DAY ON TEST: 460
HISTO: 1087

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Mammary Gland	* Parathyroid Gland	* Skin
* Zymbal's Gland			

OBSERVATIONS

* Adrenal Cortex	Leukemia Mononuclear	
* Adrenal Medulla	Leukemia Mononuclear	
* Bone Marrow	Leukemia Mononuclear	
* Brain	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4,5-1]		
* Clitoral Gland	Leukemia Mononuclear	
* Esophagus	Leukemia Mononuclear	
* Heart	Leukemia Mononuclear	
* Intestine Large, Cecum	Leukemia Mononuclear	
* Intestine Large, Colon	Leukemia Mononuclear	
* Intestine Large, Rectum	Leukemia Mononuclear	
* Intestine Small, Duodenum	Leukemia Mononuclear	
* Intestine Small, Ileum	Leukemia Mononuclear	
* Intestine Small, Jejunum	Leukemia Mononuclear	
* Islets, Pancreatic	Leukemia Mononuclear	
* Kidney	Leukemia Mononuclear	
* Liver	Leukemia Mononuclear	
* Lung	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]		
* Lymph Node, Mandibular	Leukemia Mononuclear	
* Lymph Node, Mesenteric	Leukemia Mononuclear	
* Nose	Inflammation	Acute, Mild
* Ovary	Leukemia Mononuclear	
* Pancreas	Leukemia Mononuclear	
* Pituitary Gland	Leukemia Mononuclear	
* Salivary Glands	Leukemia Mononuclear	
* Spleen	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 572	TRT#: 2	SEX: Female	DAY ON TEST: 460
	DOSE: 0 PPM	DISP: Natural Death	HISTO: 1087

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 2,3-5]

* Stomach, Forestomach	Leukemia Mononuclear Ulcer	Mild
* Stomach, Glandular	Leukemia Mononuclear	
* Thymus	Leukemia Mononuclear	
* Thyroid Gland	Leukemia Mononuclear	
* Trachea	Leukemia Mononuclear	
* Urinary Bladder	Leukemia Mononuclear	
* Uterus	Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 573

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 734
HISTO: 1088

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus	* Zymbal's Gland	

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Focal, Minimal
		Nephropathy	Minimal
		Pigmentation	Focal, Minimal
* Liver		Angiectasis	Focal, Mild
		Basophilic Focus	
[Basophilic Focus TGLS = 7-5]			
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 4-15,3-14,2-13]			
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 6-17]			
* Nose		Hemorrhage	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
[Adenoma TGLS = 8-3]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 574

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 734
HISTO: 1089

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus
* Zymbal's Gland			

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Clitoral Gland		Inflammation	Suppurative, Moderate
[Inflammation TGLS = 1-9]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
		Pigmentation	Focal, Mild
* Liver		Basophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Focal, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-13]			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
[Adenoma TGLS = 3-3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 575

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 1090

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus
* Zymbal's Gland			

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Focal, Minimal
		Nephropathy	Mild
		Pigmentation	Focal, Minimal
* Liver		Basophilic Focus	
		Mixed Cell Focus	
	[Mixed Cell Focus TGLS = 1-5]		
* Lung		Infiltration Cellular	Histiocyte, Focal, Minimal
* Ovary		Cyst	Mild
* Pancreas	Acinus	Atrophy	Focal, Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 581

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 734
HISTO: 1091

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Zymbal's Gland

OBSERVATIONS

* Kidney		Nephropathy	Mild
		Pigmentation	Focal, Mild
* Liver		Basophilic Focus	
		Inflammation	Granulomatous, Focal, Moderate
[Inflammation TGLS = 1-5]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild
* Uterus		Cyst	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 582

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 1092

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus
* Zymbal's Gland			

OBSERVATIONS

* Kidney		Mineralization	Focal, Mild
		Nephropathy	Mild
		Pigmentation	Focal, Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Focal, Mild
* Lung		Infiltration Cellular	Histiocyte, Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Focal, Mild

[Adenoma TGLS = 1-3]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 583

TRT#: 2

SEX: Female

DAY ON TEST: 714

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 1093

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* 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	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus
* Zymbal's Gland			

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Bone Marrow		Atrophy	Mild
* Clitoral Gland	Duct	Dilatation	Moderate
[Dilatation TGLS = 8-9]			
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Focal, Mild
		Nephropathy	Minimal
		Pigmentation	Focal, Mild
[Pigmentation TGLS = 1-7]			
* Liver		Basophilic Focus	
		Fatty Change	Focal, Moderate
[Fatty Change TGLS = 2-5]			
Lymph Node	Mediastinal	Hemorrhage	Mild
[Hemorrhage TGLS = 10-8,9-13,7-2]			
* Lymph Node, Mandibular		Hemorrhage	Mild
[Hemorrhage TGLS = 10-8,9-13,7-2]			
* Lymph Node, Mesenteric		Hemorrhage	Minimal
[Hemorrhage TGLS = 10-8,9-13,7-2]			
* Mammary Gland		Galactocele	Mild
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 4-15,5-16,3-14]			
* Pancreas	Acinus	Atrophy	Diffuse, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 583

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 714
HISTO: 1093

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland
[Adenoma TGLS = 6-3]

Pars Distalis

Adenoma

* Stomach, Forestomach

Acanthosis
Inflammation
Ulcer

Focal, Mild
Acute, Focal, Moderate
Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:47

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 584

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 666

HISTO: 1094

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Mammary Gland	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea

MISSING

* Zymbal's Gland

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-1]			
* Heart		Leukemia Mononuclear	
* Islets, Pancreatic		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
		Pigmentation	Focal, Moderate
[Pigmentation TGLS = 4-7]			
* Liver		Fatty Change	Diffuse, Moderate
		Hyperplasia	Focal, Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5,6-5]			
Lymph Node	Lumbar	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-14,3-15]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-14,3-15]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-14,3-15]			
* Nose		Leukemia Mononuclear	
* Ovary		Leukemia Mononuclear	
* Pancreas	Acinus	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 584

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 666
HISTO: 1094

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma Leukemia Mononuclear
[Adenoma TGLS = 8-3]		
* Spleen		Leukemia Mononuclear
[Leukemia Mononuclear TGLS = 1-5]		
* Thymus		Leukemia Mononuclear
* Urinary Bladder		Leukemia Mononuclear
* Uterus		Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 585

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 1095

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Zymbal's Gland			

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Focal, Mild
* Bone		Hyperostosis	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild
* Uterus		Cyst	Minimal

Note: CYST IS MULTIPLE.

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 611

TRT#: 4

SEX: Female

DAY ON TEST: 452

DOSE: 1000 PPM

DISP: Natural Death

HISTO: 1106

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Lymph Node, Mandibular	* Nose	* Parathyroid Gland	* Salivary Glands
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus	* Zymbal's Gland		

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Pancreas
* Spleen			

OBSERVATIONS

* Kidney		Mineralization	Focal, Mild
* Liver		Sarcoma	Metastatic (Skin)
[Sarcoma TGLS = 8-5]			
* Lung		Hemorrhage	Focal, Mild
[Hemorrhage TGLS = 9-6]		Sarcoma	Metastatic (Skin)
* Lymph Node, Mesenteric		Sarcoma	Metastatic (Skin)
[Sarcoma TGLS = 4-8]			
* Mammary Gland		Sarcoma	Metastatic (Skin)
[Sarcoma TGLS = 11-8]			
Mesentery		Sarcoma	Metastatic (Skin)
[Sarcoma TGLS = 5-8]			
* Ovary		Sarcoma	Metastatic (Skin)
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 10-3]			
* Skin	Subcut Tiss	Sarcoma	
[Sarcoma TGLS = 12-8]			
* Stomach, Forestomach		Ulcer	Mild
* Stomach, Glandular		Sarcoma	Metastatic (Skin)

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 611

TRT#: 4

SEX: Female

DAY ON TEST: 452

DOSE: 1000 PPM

DISP: Natural Death

HISTO: 1106

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 612

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 1107

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus	* Zymbal's Gland		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Focal, Minimal
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Moderate
		Hemorrhage	Mild
	[Atrophy TGLS = 1-13]		
	[Cataract TGLS = 1-13]		
	[Hemorrhage TGLS = 1-13]		
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Adenoma	
	[Adenoma TGLS = 8-2]		
* Kidney		Mineralization	Focal, Minimal
		Nephropathy	Mild
		Pigmentation	Focal, Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Focal, Minimal
* Mammary Gland		Fibroadenoma	Multiple
		Galactocele	Mild
	[Fibroadenoma TGLS = 4-17,2-16,3-18,6-15]		
* Nose		Inflammation	Subacute, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 612	TRT#: 4 DOSE: 1000 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 733 HISTO: 1107
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ORGAN AND ACCOUNTABLE SITE STATUS

* Ovary [Cyst TGLS = 5-9]		Cyst	Mild
* Pituitary Gland [Angiectasis TGLS = 7-3] [Hyperplasia TGLS = 7-3]	Pars Distalis Pars Distalis Pars Distalis	Angiectasis Cyst Hyperplasia	Moderate Moderate Focal, Mild

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:47

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 613

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 1108

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Ovary	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Zymbal's Gland

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Focal, Mild
		Vacuolization Cytoplasmic	Focal, Minimal
* Kidney		Mineralization	Focal, Mild
		Nephropathy	Minimal
		Pigmentation	Focal, Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Focal, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13]			
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 3-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 614

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 1109

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Uterus
* Zymbal's Gland			

MISSING

* Urinary Bladder

OBSERVATIONS

* Clitoral Gland	Duct	Dilatation	Moderate
[Dilatation TGLS = 1-9]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Lipoma	
		Nephropathy	Mild
[Lipoma TGLS = 3-7]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
[Clear Cell Focus TGLS = 5-13]			
* Ovary		Cyst	Moderate
[Cyst TGLS = 2-9]			
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Mild
[Adenoma TGLS = 4-3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 615

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 1110

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Lymph Node, Mandibular	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Zymbal's Gland			

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Focal, Mild
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Fatty Change	Focal, Mild
		Inflammation	Chronic, Focal, Minimal
	[Basophilic Focus TGLS = 4-13]		
	[Fatty Change TGLS = 3-14]		
* Lung		Infiltration Cellular	Histiocyte, Focal, Minimal
		Inflammation	Focal, Mild
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-15]		
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
	[Adenoma TGLS = 5-3]		
* Uterus		Polyp Stromal	
	[Polyp Stromal TGLS = 2-9]		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 621	TRT#: 4	SEX: Female	DAY ON TEST: 659
	DOSE: 1000 PPM	DISP: Moribund Sacrifice	HISTO: 1111

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus	* Zymbal's Gland		

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Clitoral Gland	Duct	Dilatation	Moderate
* Heart		Cardiomyopathy	Minimal
	Atrium	Leukemia Mononuclear	
* Kidney		Thrombosis	Moderate
		Leukemia Mononuclear	
		Pigmentation	Focal, Mild
[Pigmentation TGLS = 1-7]			
* Liver		Fatty Change	Diffuse, Moderate
		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 5-13]		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-5]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-6]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-14]			
* Mammary Gland		Inflammation	Acute, Focal, Mild
* Ovary		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
[Hyperplasia TGLS = 3-3]			
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 621

TRT#: 4

SEX: Female

DAY ON TEST: 659

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 1111

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 622

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 1112

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	Eye
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	* Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Brain	Meninges	Angiectasis	Focal, Moderate
[Angiectasis TGLS = 9-14]			
* Clitoral Gland	Duct	Dilatation	Mild
[Dilatation TGLS = 2-9]			
* Esophagus		Lipoma	
[Lipoma TGLS = 5-16]			
* Kidney		Mineralization	Focal, Minimal
		Nephropathy	Mild
		Pigmentation	Focal, Minimal
		Angiectasis	Focal, Mild
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-5]			
Lym Node Media			
Note: MEDIASTINAL LYMPH NODE COULD NOT BE FOUND IN WET TISSUE.			
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Mammary Gland		Adenocarcinoma	
[Adenocarcinoma TGLS = 3-17]			
Pharynx	Palate	Squamous Cell Papilloma	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 8-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 622

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 1112

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 4-5]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 623

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 1113

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Zymbal's Gland

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Focal, Minimal
		Nephropathy	Mild
	[Nephropathy TGLS = 3-7]		
* Liver		Inflammation	Chronic, Focal, Mild
	[Inflammation TGLS = 2,5-5]		
* Lung		Inflammation	Focal, Minimal
* Nose		Inflammation	Chronic Active, Mild
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Focal, Moderate
	[Hyperplasia TGLS = 4-3]		
* Skin	Subcut Tiss	Fibrosarcoma	
	[Fibrosarcoma TGLS = 1-13]		
* Uterus		Cyst	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 624

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 1114

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus
* Zymbal's Gland			

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Moderate
[Vacuolization Cytoplasmic TGLS = 1-3]			
* Clitoral Gland	Duct	Dilatation	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Focal, Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	
* Mammary Gland		Galactocele	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Focal, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 625	TRT#: 4	SEX: Female	DAY ON TEST: 477
	DOSE: 1000 PPM	DISP: Natural Death	HISTO: 1115

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Zymbal's Gland			

AUTO PRECLUDES DIAG.

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

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Diffuse, Mild
* Kidney		Nephropathy	Minimal
* Nose		Inflammation	Acute, Moderate
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Stomach, Forestomach		Ulcer	Focal, Mild
* Uterus		Sarcoma	

Note: AUTOLYSIS PREVENTS DEFINITIVE DIAGNOSIS OF UTERINE TUMOR.

[Sarcoma TGLS = 2-13]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:47

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 631

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 1116

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Zymbal's Gland

OBSERVATIONS

* Liver		Basophilic Focus	
		Developmental Malformation	Moderate
[Basophilic Focus TGLS = 3-5]			
[Developmental Malformation TGLS = 4-5]			
* Mammary Gland		Galactocele	Moderate
* Nose		Inflammation	Acute, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 1-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 632

TRT#: 4

SEX: Female

DAY ON TEST: 670

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 1117

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Mammary Gland	* Parathyroid Gland
* Salivary Glands	* Skin	* Trachea	* Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Mild
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Intestine Large, Cecum		Leukemia Mononuclear	
* Intestine Large, Colon		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
* Intestine Small, Jejunum		Leukemia Mononuclear	
* Islets, Pancreatic		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Pigmentation	Focal, Mild
	[Pigmentation TGLS = 5-7]		
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7-5]		
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 9-6]		
Lymph Node	Mediastinal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 8-6,6-8,1-2]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 8-6,6-8,1-2]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 8-6,6-8,1-2]		
* Nose		Inflammation	Chronic Active, Moderate
		Leukemia Mononuclear	
* Ovary		Cyst	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 632	TRT#: 4	SEX: Female	DAY ON TEST: 670
	DOSE: 1000 PPM	DISP: Moribund Sacrifice	HISTO: 1117

ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst TGLS = 2-9]		Leukemia Mononuclear	
* Pancreas	Acinus	Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Cyst	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-3]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-13]			
* Stomach, Forestomach		Leukemia Mononuclear	
* Stomach, Glandular		Leukemia Mononuclear	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland		Inflammation	Mild
* Urinary Bladder		Leukemia Mononuclear	
* Uterus		Cyst	Multiple, Mild
		Leukemia Mononuclear	
		Polyp Stromal	
[Polyp Stromal TGLS = 3-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 633

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 1118

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Zymbal's Gland

OBSERVATIONS

* Bone Marrow		Atrophy	Mild
* Kidney		Mineralization	Focal, Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Mammary Gland		Galactocele	Mild
* Nose		Inflammation	Acute, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 634

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 1119

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* 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	* Nose	* Ovary
* Salivary Glands	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus	* Zymbal's Gland		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Focal, Mild
* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Atrophy	Minimal
* Clitoral Gland	Duct	Dilatation	Moderate
[Dilatation TGLS = 2-9]			
* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	
[Basophilic Focus TGLS = 3-13]		Hyperplasia	Focal, Mild
[Hyperplasia TGLS = 6-14]			
* Mammary Gland		Galactocele	Moderate
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 1-15]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:47

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 635

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 1120

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Zymbal's Gland

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Bone Marrow		Leukemia Mononuclear	
* Heart	Atrium	Leukemia Mononuclear	
	[Thrombosis TGLS = 10-4]	Thrombosis	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
		Pigmentation	Focal, Moderate
* Liver		Fatty Change	Diffuse, Marked
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7-5]		
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 9-13,3-14]		
	[Leukemia Mononuclear TGLS = 9-13,3-14]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 9-13,3-14]		
* Mammary Gland		Fibroadenoma	
		Galactocele	Mild
	[Fibroadenoma TGLS = 1-15]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 635	TRT#: 4	SEX: Female	DAY ON TEST: 730
	DOSE: 1000 PPM	DISP: Moribund Sacrifice	HISTO: 1120

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 8-3]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-5]		
* Uterus		Cyst	Moderate
		Dilatation	Mild
		Polyp Stromal	
	[Cyst TGLS = 6-9]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:47

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 641

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 1121

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Kidney	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Zymbal's Gland

MISSING

* Pituitary Gland

OBSERVATIONS

* Heart	Cardiomyopathy	Mild
* Liver	Basophilic Focus	
	Fatty Change	Focal, Mild
	Necrosis	Focal, Minimal
* Nose	Inflammation	Subacute, Mild
* Uterus	Cyst	Multiple, Mild
	Dilatation	Mild

[Cyst TGLS = 2-9]

[Dilatation TGLS = 2-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 642

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 1122

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Zymbal's Gland	

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Focal, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Focal, Minimal
		Nephropathy	Minimal
		Pigmentation	Focal, Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
[Basophilic Focus TGLS = 3-5]			
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 1-14]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
* Uterus		Cyst	Minimal
		Polyp Stromal	

Note: CYST IS MULTIPLE.

[Polyp Stromal TGLS = 2-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 643

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 1123

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	* Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla	Bilateral	Hyperplasia	Moderate
* Clitoral Gland	Duct	Dilatation	Mild
[Dilatation TGLS = 1-9]			
* Kidney		Nephropathy	Mild
		Pigmentation	Focal, Minimal
* Liver		Basophilic Focus	
[Eosinophilic Focus TGLS = 3-5]		Eosinophilic Focus	
* Mammary Gland		Galactocele	Moderate
[Galactocele TGLS = 2-8]			
* Nose		Inflammation	Chronic Active, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
* Thymus		Cyst	Multiple, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 644	TRT#: 4	SEX: Female	DAY ON TEST: 681
	DOSE: 1000 PPM	DISP: Natural Death	HISTO: 1124

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic
* Parathyroid Gland	* Skin	* Thyroid Gland	* Urinary Bladder
* Zymbal's Gland			

MISSING

* Stomach, Forestomach	* Stomach, Glandular
------------------------	----------------------

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Adrenal Cortex	Leukemia Mononuclear	
* Adrenal Medulla	Leukemia Mononuclear	
* Bone Marrow	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-11]		
* Brain	Leukemia Mononuclear	
Note: PALE COLOR DUE TO POST MORTEM CHANGE.		
* Heart	Leukemia Mononuclear	
* Kidney	Leukemia Mononuclear	
	Nephropathy	Mild
	Pigmentation	Focal, Minimal
* Liver	Fatty Change	Focal, Minimal
	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-5]		
* Lung	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-6]		
Lymph Node	Renal	
[Leukemia Mononuclear TGLS = 4-15]		
* Lymph Node, Mandibular	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-15]		
* Lymph Node, Mesenteric	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-15]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 644

TRT#: 4

SEX: Female

DAY ON TEST: 681

DOSE: 1000 PPM

DISP: Natural Death

HISTO: 1124

ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary Gland		Galactocele	Mild
* Nose		Leukemia Mononuclear	
* Ovary		Leukemia Mononuclear	
* Pancreas	Acinus	Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
[Adenoma TGLS = 8-3]			
* Salivary Glands		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-13]			
* Thymus		Leukemia Mononuclear	
* Trachea		Leukemia Mononuclear	
* Uterus		Leukemia Mononuclear	
		Polyp Stromal	
[Polyp Stromal TGLS = 1-14]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:47

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 645

TRT#: 4

SEX: Female

DAY ON TEST: 419

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 1125

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | * Uterus |
| * Zymbal's Gland | | | |

OBSERVATIONS

- | | | | |
|--|---------------|----------------------------|----------------|
| * Kidney | | Mineralization | Focal, Mild |
| * Liver | | Congestion | Mild |
| | | Hepatodiaphragmatic Nodule | |
| [Hepatodiaphragmatic Nodule TGLS = 3-15] | | | |
| * Lung | | Inflammation | Focal, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 1-3] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 651

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 1126

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
		Vacuolization Cytoplasmic	Focal, Minimal
* Brain		Hydrocephalus	Mild
		Inflammation	Focal, Moderate
Note: THE FOCAL INFLAMMATION IS DUE TO PRESSURE FROM Note: PITUITARY TUMOR. [Inflammation TGLS = 6-1]			
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Developmental Malformation	
		Inflammation	Chronic, Focal, Minimal
		Necrosis	Focal, Mild
[Developmental Malformation TGLS = 5-13]			
* Lymph Node, Mandibular		Cyst	Mild
* Mammary Gland		Galactocele	Moderate
[Galactocele TGLS = 2-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
* Thyroid Gland	C Cell	Adenoma	
* Uterus		Polyp Stromal	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 651

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 1126

ORGAN AND ACCOUNTABLE SITE STATUS

Note: STROMAL CELLS ARE PRIMARILY AFFECTED.

[Polyp Stromal TGLS = 3-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 652

TRT#: 4

SEX: Female

DAY ON TEST: 649

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 1127

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lymph Node, Mandibular	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Zymbal's Gland	

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Bone Marrow		Hyperplasia	Mild
* Brain		Hydrocephalus	Mild
* Clitoral Gland	Duct	Dilatation	Moderate
* Kidney	Bilateral	Hydronephrosis	Moderate
		Nephropathy	Mild
			[Hydronephrosis TGLS = 1-7]
* Lung		Infiltration Cellular	Histiocyte, Focal, Minimal
* Lymph Node, Mesenteric		Schwannoma Malignant	Metastatic (Uterus)
			[Schwannoma Malignant TGLS = 9-8]
Mesentery		Schwannoma Malignant	Metastatic (Uterus)
			[Schwannoma Malignant TGLS = 2+4-16,17,18,19,20,21]
* Nose		Inflammation	Chronic Active, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
			[Adenoma TGLS = 5-3]
Tissue NOS		Schwannoma Malignant	Metastatic (Uterus)
			[Schwannoma Malignant TGLS = 7-13]
* Uterus	Cervix	Schwannoma Malignant	Metastatic (Uterus)
		Schwannoma Malignant	
			[Schwannoma Malignant TGLS = 8-15]
			[Schwannoma Malignant TGLS = 8-15]
Vagina		Schwannoma Malignant	Metastatic (Uterus)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:47

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 652

TRT#: 4

SEX: Female

DAY ON TEST: 649

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 1127

ORGAN AND ACCOUNTABLE SITE STATUS

[Schwannoma Malignant TGLS = 3-14,22]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 653

TRT#: 4

SEX: Female

DAY ON TEST: 621

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 1128

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus
* Zymbal's Gland			

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Bone Marrow		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Mineralization	Focal, Mild
		Pigmentation	Focal, Moderate
[Pigmentation TGLS = 2-7]			
* Liver		Fatty Change	Diffuse, Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-5]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose		Leukemia Mononuclear	
* Ovary		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Focal, Moderate
		Leukemia Mononuclear	
[Hyperplasia TGLS = 6-3]			
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:47

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 653

TRT#: 4

SEX: Female

DAY ON TEST: 621

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 1128

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 1-5]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 654

TRT#: 4

SEX: Female

DAY ON TEST: 523

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 1129

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus
* Zymbal's Gland			

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Moderate
		Pigmentation	Focal, Minimal
* Liver		Fatty Change	Focal, Mild
		Inflammation	Granulomatous, Focal, Mild
[Fatty Change TGLS = 2-5]			
[Inflammation TGLS = 1-13]			
* Lymph Node, Mandibular		Hemorrhage	Minimal
[Hemorrhage TGLS = 4-2]			
* Nose		Inflammation	Subacute, Mild
* Ovary		Cyst	
[Cyst TGLS = 5-9]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 655

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 1130

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Zymbal's Gland			

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Focal, Mild
* Clitoral Gland	Duct	Dilatation	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Focal, Minimal
[Basophilic Focus TGLS = 2-5]			
* Lung		Hemorrhage	Focal, Minimal
		Infiltration Cellular	Histiocyte, Focal, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 3-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 661

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 1131

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Zymbal's Gland		

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
		Pigmentation	Focal, Minimal
* Liver		Basophilic Focus	
		Developmental Malformation	
	[Developmental Malformation TGLS = 3-13]		
* Mammary Gland		Galactocele	Mild
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 2-3]		
* Uterus		Adenoma	
	[Adenoma TGLS = 1-9]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 662 **TRT#:** 4 **SEX:** Female **DAY ON TEST:** 733
DOSE: 1000 PPM **DISP:** Terminal Sacrifice **HISTO:** 1132

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Uterus	* Zymbal's Gland	

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Moderate
* Bone Marrow		Atrophy	Mild
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Hyperplasia	Focal, Moderate
* Kidney		Nephropathy	Mild
		Pigmentation	Focal, Moderate
* Liver		Basophilic Focus	
* Mammary Gland		Galactocele	Mild
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Urinary Bladder	Mucosa	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 663

TRT#: 4

SEX: Female

DAY ON TEST: 721

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 1133

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Zymbal's Gland

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Kidney		Mineralization	Focal, Minimal
		Nephropathy	Minimal
		Pigmentation	Focal, Moderate
* Liver		Fatty Change	Diffuse, Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-5]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Ovary		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
	[Adenoma TGLS = 4-3]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-5]		
* Stomach, Forestomach		Leukemia Mononuclear	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
* Uterus		Cyst	Minimal

Note: CYST IS MULTIPLE.

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 664

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 1134

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Moderate
* Bone Marrow		Atrophy	Mild
* Clitoral Gland	Duct	Dilatation	Moderate
[Dilatation TGLS = 4-9]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Focal, Minimal
		Nephropathy	Minimal
		Pigmentation	Focal, Minimal
* Liver		Basophilic Focus	
		Developmental Malformation	
		Mixed Cell Focus	

Note: SECTION PRECLUDES MAKING THAT DIAGNOSIS.

Note: THE LIVER NODULE IS PROBABLY AN HDN, BUT PLANE OF

[Developmental Malformation TGLS = 2-13]

* Pituitary Gland

Pars Distalis

Angiectasis

Moderate

Pars Distalis

Cyst

Moderate

[Angiectasis TGLS = 3-3]

[Cyst TGLS = 3-3]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 664

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 1134

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:47

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 665

TRT#: 4

SEX: Female

DAY ON TEST: 652

DOSE: 1000 PPM

DISP: Natural Death

HISTO: 1135

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|------------------|-----------------------------|--------------------------|------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Clitoral Gland |
| * Esophagus | * Intestine Small, Duodenum | * Lymph Node, Mesenteric | * Ovary |
| * Skin | * Stomach, Forestomach | * Thyroid Gland | * Trachea |
| * Uterus | * Zymbal's Gland | | |

MISSING

- * Parathyroid Gland

AUTO PRECLUDES DIAG.

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

OBSERVATIONS

- | | | |
|---------------------------------------|-----|----------------------|
| * Brain | | Leukemia Mononuclear |
| * Heart | | Leukemia Mononuclear |
| * Kidney | | Leukemia Mononuclear |
| * Liver | | Leukemia Mononuclear |
| [Leukemia Mononuclear TGLS = 5,7-5] | | |
| * Lung | | Leukemia Mononuclear |
| * Lymph Node, Mandibular | | Leukemia Mononuclear |
| * Mammary Gland | | Fibroadenoma |
| [Fibroadenoma TGLS = 5-14] | | |
| Mesentery | Fat | Leukemia Mononuclear |
| [Leukemia Mononuclear TGLS = 2-13] | | |
| * Nose | | Leukemia Mononuclear |
| * Pituitary Gland | | Leukemia Mononuclear |
| [Leukemia Mononuclear TGLS = 6-3] | | |
| * Salivary Glands | | Leukemia Mononuclear |
| * Spleen | | Leukemia Mononuclear |
| [Leukemia Mononuclear TGLS = 4-5] | | |
| * Thymus | | Leukemia Mononuclear |
| * Urinary Bladder | | Leukemia Mononuclear |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 665

TRT#: 4

SEX: Female

DAY ON TEST: 652

DOSE: 1000 PPM

DISP: Natural Death

HISTO: 1135

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 671

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 1136

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Zymbal's Gland

OBSERVATIONS

* Bone		Hyperostosis	Moderate
Eye	Bilateral, Retina	Atrophy	Moderate
	Bilateral, Lens	Cataract	Mild
	[Cataract TGLS = 1-13]		
* Kidney		Mineralization	Focal, Minimal
		Nephropathy	Moderate
* Liver		Basophilic Focus	
* Lymph Node, Mandibular		Cyst	Minimal
* Mammary Gland		Galactocele	Moderate
		Hyperplasia	Focal, Mild
		Inflammation	Chronic, Focal, Moderate
* Nose		Inflammation	Subacute, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 2-3]		
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 672

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 1137

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Vacuolization Cytoplasmic Hyperplasia	Focal, Moderate Minimal
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Kidney		Schwannoma Nos Leukemia Mononuclear Mineralization Nephropathy	Focal, Minimal Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-5]			
* Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-8,3-13]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-8,3-13]			
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Spleen		Leukemia Mononuclear Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-14]			
* Stomach, Forestomach		Hyperplasia	Basal Cell, Focal, Minimal
* Thymus		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 672

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 1137

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Cyst

Multiple, Moderate

[Dilatation TGLS = 1-9]

Dilatation

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 673

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 1138

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Zymbal's Gland	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Kidney		Mineralization	Focal, Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
Lymph Node	Mediastinal	Hemorrhage	Mild
	Mediastinal	Infiltration Cellular	Histiocyte, Mild
[Hemorrhage TGLS = 5-13]			
[Infiltration Cellular TGLS = 5-13]			
* Lymph Node, Mesenteric		Hemorrhage	Mild
[Hemorrhage TGLS = 5-13]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
* Uterus		Dilatation	Minimal
[Dilatation TGLS = 2-9]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 674

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 1139

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Zymbal's Gland

MISSING

* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Focal, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Focal, Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Fatty Change	Focal, Minimal
		Inflammation	Chronic, Focal, Minimal
[Fatty Change TGLS = 2-5]			
* Lung		Inflammation	Focal, Minimal
Mesentery	Fat	Necrosis	Focal, Mild
[Necrosis TGLS = 1-13]			
* Nose		Inflammation	Subacute, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
* Uterus		Dilatation	Mild
[Dilatation TGLS = 3-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 675

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 1140

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Parathyroid Gland	* Pituitary Gland	* Zymbal's Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Mild
		Vacuolization Cytoplasmic	Focal, Mild
[Vacuolization Cytoplasmic TGLS = 4-3]			
* Brain		Hydrocephalus	Minimal
Note: A DEPRESSED AREA IS PRESENT IN THE VENTRAL BRAIN			
Note: DUE TO THE PITUITARY TUMOR.			
Eye	Bilateral, Retina	Atrophy	Mild
	Bilateral, Lens	Cataract	Moderate
[Cataract TGLS = 1-13]			
* Kidney		Mineralization	Focal, Minimal
		Nephropathy	Mild
		Pigmentation	Focal, Minimal
* Liver		Basophilic Focus	
		Hemorrhage	Focal, Moderate
		Inflammation	Chronic, Focal, Mild
[Basophilic Focus TGLS = 3-5]			
[Hemorrhage TGLS = 3-5]			
[Inflammation TGLS = 3-5]			
* Mammary Gland		Fibroadenoma	
		Galactocele	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 675	TRT#: 4	SEX: Female	DAY ON TEST: 733
	DOSE: 1000 PPM	DISP: Terminal Sacrifice	HISTO: 1140

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroadenoma TGLS = 2-14]			
* Ovary		Cyst	Moderate
[Cyst TGLS = 5-9]			
* Uterus		Cyst	Minimal
Note: CYST IS MULTIPLE.			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:47

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 681

TRT#: 4

SEX: Female

DAY ON TEST: 699

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 1141

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus	* Zymbal's Gland	

MISSING

* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex [Vacuolization Cytoplasmic TGLS = 6-3]		Vacuolization Cytoplasmic	Focal, Mild
* Brain		Hydrocephalus	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney [Nephropathy TGLS = 4-7]		Nephropathy	Mild
* Liver		Fatty Change	Focal, Minimal
		Leukemia Mononuclear	
* Nose		Inflammation	Chronic Active, Mild
* Ovary [Granulosa Cell Tumor Benign TGLS = 2-9]		Granulosa Cell Tumor Benign	
* Pituitary Gland [Adenoma TGLS = 3-3]	Pars Distalis	Adenoma	
* Spleen [Leukemia Mononuclear TGLS = 1-5]		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:47

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 682

TRT#: 4

SEX: Female

DAY ON TEST: 726

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 1142

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Rectum
* Parathyroid Gland	* Thyroid Gland	* Zymbal's Gland	

OBSERVATIONS

* Adrenal Cortex		Degeneration Leukemia Mononuclear Vacuolization Cytoplasmic	Cystic, Focal, Moderate Focal, Moderate
[Leukemia Mononuclear TGLS = 8-3]			
* Adrenal Medulla	Bilateral	Hyperplasia Leukemia Mononuclear	Mild
[Leukemia Mononuclear TGLS = 8-3]			
* Bone Marrow		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 17-11]			
* Brain		Leukemia Mononuclear	
* Clitoral Gland		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Intestine Large, Colon		Leukemia Mononuclear	
* Intestine Small, Duodenum		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
* Intestine Small, Jejunum		Leukemia Mononuclear	
* Islets, Pancreatic		Leukemia Mononuclear	
* Kidney		Cyst Leukemia Mononuclear	Marked
[Leukemia Mononuclear TGLS = 9,10-7,16]			
* Liver	Bile Duct	Hyperplasia Leukemia Mononuclear	Focal, Mild
[Leukemia Mononuclear TGLS = 7-5]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 15-6]			
Lymph Node	Axillary Deep Cervical	Leukemia Mononuclear Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 682

TRT#: 4

SEX: Female

DAY ON TEST: 726

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 1142

ORGAN AND ACCOUNTABLE SITE STATUS

Iliac	Leukemia Mononuclear	
Mediastinal	Leukemia Mononuclear	
Pancreatic	Leukemia Mononuclear	
Renal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-22,19-13,14-19,1-2,6-8,12-18,11-17,13-14]		
[Leukemia Mononuclear TGLS = 3-22,19-13,14-19,1-2,6-8,12-18,11-17,13-14]		
[Leukemia Mononuclear TGLS = 3-22,19-13,14-19,1-2,6-8,12-18,11-17,13-14]		
[Leukemia Mononuclear TGLS = 3-22,19-13,14-19,1-2,6-8,12-18,11-17,13-14]		
[Leukemia Mononuclear TGLS = 3-22,19-13,14-19,1-2,6-8,12-18,11-17,13-14]		
[Leukemia Mononuclear TGLS = 3-22,19-13,14-19,1-2,6-8,12-18,11-17,13-14]		
* Lymph Node, Mandibular	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-22,19-13,14-19,1-2,6-8,12-18,11-17,13-14]		
* Lymph Node, Mesenteric	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-22,19-13,14-19,1-2,6-8,12-18,11-17,13-14]		
* Mammary Gland	Fibroadenoma	
	Leukemia Mononuclear	
[Fibroadenoma TGLS = 2-21]		
[Leukemia Mononuclear TGLS = 2-21]		
* Nose	Fungus	Moderate
	Inflammation	Chronic Active, Moderate
	Leukemia Mononuclear	
* Ovary	Leukemia Mononuclear	
* Pancreas	Leukemia Mononuclear	
	Acinus	
* Pituitary Gland	Pars Distalis	
	Adenoma	
	Leukemia Mononuclear	
[Adenoma TGLS = 18-3]		
* Salivary Glands	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 16-2,20]		
* Skin	Leukemia Mononuclear	
* Spleen	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-15]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 682	TRT#: 4	SEX: Female	DAY ON TEST: 726
	DOSE: 1000 PPM	DISP: Moribund Sacrifice	HISTO: 1142

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach	Leukemia Mononuclear
* Stomach, Glandular	Leukemia Mononuclear
* Thymus	Leukemia Mononuclear
[Leukemia Mononuclear TGLS = 20-3]	
* Trachea	Leukemia Mononuclear
* Urinary Bladder	Leukemia Mononuclear
[Leukemia Mononuclear TGLS = 5-7]	
* Uterus	Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:47

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 683

TRT#: 4

SEX: Female

DAY ON TEST: 494

DOSE: 1000 PPM

DISP: Natural Death

HISTO: 1143

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Islets, Pancreatic | * Liver | * Lymph Node, Mandibular | * Mammary Gland |
| * Nose | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | * Uterus |
| * Zymbal's Gland | | | |

AUTO PRECLUDES DIAG.

- * Intestine Small, Jejunum

OBSERVATIONS

- | | | | |
|--|---------------|--------------------------------|-----------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Moderate |
| * Kidney | | Nephropathy | Mild |
| * Lung | Mediastinum | Lymphoma Malignant Lymphocytic | |
| Note: THE MOTTLED APPEARANCE IS DUE TO INCOMPLETE PERFUSION. | | | |
| * Lymph Node, Mesenteric | | Hemorrhage | Mild |
| * Ovary | | Cyst | |
| [Cyst TGLS = 3-9] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 6-3] | | | |
| * Thymus | | Lymphoma Malignant Lymphocytic | |
| [Lymphoma Malignant Lymphocytic TGLS = 4-13] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 684

TRT#: 4

SEX: Female

DAY ON TEST: 713

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 1144

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus	* Zymbal's Gland		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
		Vacuolization Cytoplasmic	Focal, Minimal
* Brain		Hydrocephalus	Mild
* Kidney		Mineralization	Focal, Mild
		Pigmentation	Focal, Minimal
* Liver		Basophilic Focus	
		Hematopoietic Cell Proliferation	Minimal
		Inflammation	Chronic, Focal, Minimal
[Basophilic Focus TGLS = 8-14,2-5]			
* Lung		Alveolar/Bronchiolar Adenoma	
		Hemorrhage	Focal, Minimal
	Alveolar Epith	Hyperplasia	Focal, Minimal
		Infiltration Cellular	Lymphocyte, Focal, Mild
[Alveolar/Bronchiolar Adenoma TGLS = 3-6]			
Lymph Node	Mediastinal	Hemorrhage	Moderate
[Hemorrhage TGLS = 7-13]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-15]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:47

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 685

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 1145

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Zymbal's Gland	

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Clitoral Gland	Duct	Dilatation	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Focal, Minimal
		Nephropathy	Minimal
		Pigmentation	Focal, Minimal
* Liver		Basophilic Focus	
		Fatty Change	Focal, Minimal
		Mixed Cell Focus	
* Uterus		Cyst	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 691

TRT#: 4

SEX: Female

DAY ON TEST: 684

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 1146

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Zymbal's Gland		

OBSERVATIONS

* Adrenal Cortex		Cyst	Mild
* Brain		Hemorrhage	Focal, Minimal
		Hydrocephalus	Moderate
* Clitoral Gland	Duct	Dilatation	Moderate
[Dilatation TGLS = 10-9]			
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 6-7]		Pigmentation	Focal, Mild
* Liver	Vein	Dilatation	Mild
		Fatty Change	Focal, Mild
		Hepatodiaphragmatic Nodule	
[Dilatation TGLS = 4-17]		Inflammation	Granulomatous, Focal, Moderate
[Fatty Change TGLS = 5-15,3-16]			
[Hepatodiaphragmatic Nodule TGLS = 2-14]			
* Lung		Inflammation	Focal, Mild
Lymph Node	Renal	Hemorrhage	Mild
[Hemorrhage TGLS = 7-13]			
* Mammary Gland		Inflammation	Chronic, Focal, Mild
* Ovary		Cyst	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 8-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 691

TRT#: 4

SEX: Female

DAY ON TEST: 684

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 1146

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach

Acanthosis
Inflammation
Ulcer

Focal, Moderate
Chronic, Focal, Marked
Focal, Marked

[Acanthosis TGLS = 9-18]
[Inflammation TGLS = 9-18]
[Ulcer TGLS = 9-18]

* Uterus

Polyp Stromal

[Polyp Stromal TGLS = 1-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 692

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 1147

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
		Vacuolization Cytoplasmic	Focal, Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Focal, Mild
* Lung		Infiltration Cellular	Histiocyte, Focal, Minimal
* Nose		Foreign Body	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
* Spleen		Inflammation	Chronic, Focal, Mild
[Inflammation TGLS = 2-5]			
* Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 693

TRT#: 4

SEX: Female

DAY ON TEST: 659

DOSE: 1000 PPM

DISP: Natural Death

HISTO: 1148

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Intestine Large, Rectum
* Islets, Pancreatic	* Mammary Gland	* Nose	* Parathyroid Gland
* Skin	* Trachea	* Urinary Bladder	* Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Vacuolization Cytoplasmic	Diffuse, Moderate
[Leukemia Mononuclear TGLS = 6-3]			
* Adrenal Medulla		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-3]			
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Intestine Large, Cecum		Leukemia Mononuclear	
* Intestine Large, Colon		Leukemia Mononuclear	
* Intestine Small, Duodenum		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
* Intestine Small, Jejunum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear Mineralization Nephropathy Pigmentation	Focal, Mild Mild Focal, Mild
* Liver		Fatty Change Leukemia Mononuclear	Diffuse, Marked
[Leukemia Mononuclear TGLS = 3-5]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-14,1+5-2]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-14,1+5-2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 693	TRT#: 4	SEX: Female	DAY ON TEST: 659
	DOSE: 1000 PPM	DISP: Natural Death	HISTO: 1148

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric [Leukemia Mononuclear TGLS = 7-14,1+5-2]		Leukemia Mononuclear	
* Ovary		Leukemia Mononuclear	
* Pancreas	Acinus	Leukemia Mononuclear	
* Pituitary Gland		Leukemia Mononuclear	
* Salivary Glands		Leukemia Mononuclear	
* Spleen [Leukemia Mononuclear TGLS = 2-13]		Leukemia Mononuclear	
* Stomach, Forestomach		Acanthosis	Focal, Mild
		Leukemia Mononuclear	
* Stomach, Glandular		Leukemia Mononuclear	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	Follicle	Dilatation	Focal, Mild
* Uterus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:47

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 694

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 1149

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Brain |
| * Clitoral Gland | * Esophagus | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Nose | * Ovary | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | * Uterus |
| * Zymbal's Gland | | | |

OBSERVATIONS

- | | | | |
|---------------------------------|---------------|----------------------|-----------------------|
| * Bone Marrow | | Leukemia Mononuclear | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Fatty Change | Focal, Minimal |
| | | Leukemia Mononuclear | |
| [Basophilic Focus TGLS = 4-5] | | | |
| * Lung | | Inflammation | Focal, Minimal |
| * Lymph Node, Mandibular | | Cyst | Mild |
| | | Hyperplasia | Plasma Cell, Moderate |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLS = 1-14] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 5-3] | | | |
| * Spleen | | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell | Adenoma | |
| [Adenoma TGLS = 3-3] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 695

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 1150

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* 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	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Parathyroid Gland	* Pituitary Gland	* Zymbal's Gland
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Moderate
* Bone		Hyperostosis	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 4-8]			
Mesentery	Fat	Necrosis	Focal, Mild
[Necrosis TGLS = 2-13]			
* Ovary		Cyst	Mild
* Pancreas	Acinus	Atrophy	Focal, Moderate
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-5]			
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 3-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 701

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 1000 PPM

DISP: Terminal Sacrifice

HISTO: 1151

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Parathyroid Gland	* Zymbal's Gland
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OBSERVATIONS

* Clitoral Gland	Duct	Dilatation	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Focal, Minimal
		Nephropathy	Mild
		Pigmentation	Focal, Minimal
* Liver		Developmental Malformation	Mild
		Inflammation	Chronic, Focal, Mild

Note: THE MALFORMATION IS PROBABLY A HDN,
 Note: BUT PLANE OF SECTION PROHIBITS CONFIRMATION.
 [Developmental Malformation TGLS = 1-5]

* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:47

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 702

TRT#: 4

SEX: Female

DAY ON TEST: 684

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 1152

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Vacuolization Cytoplasmic	Focal, Mild
* Bone Marrow		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-11]			
* Heart		Leukemia Mononuclear	
* Kidney		Nephropathy Pigmentation	Mild Focal, Mild
* Liver		Fatty Change Leukemia Mononuclear	Focal, Moderate
[Leukemia Mononuclear TGLS = 3-5]			
* Lung		Leukemia Mononuclear	
Lymph Node	Iliac	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-14,4-15,6-13]			
[Leukemia Mononuclear TGLS = 5-14,4-15,6-13]			
[Leukemia Mononuclear TGLS = 5-14,4-15,6-13]			
* Lymph Node, Mesenteric		Hyperplasia	Plasma Cell, Moderate
[Hyperplasia TGLS = 2-8]			
* Mammary Gland		Galactocele	Mild
* Ovary		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 702	TRT#: 4 DOSE: 1000 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 684 HISTO: 1152
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Intermed Pars Distalis	Adenoma Cyst Leukemia Mononuclear	Moderate
[Adenoma TGLS = 8-3] [Cyst TGLS = 9-3]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-5]			
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 703

TRT#: 4

SEX: Female

DAY ON TEST: 624

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 1153

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Parathyroid Gland	* Urinary Bladder	* Zymbal's Gland
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MISSING

* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Focal, Moderate
* Adrenal Medulla		Degeneration	Marked
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-1]		
* Esophagus		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Intestine Large, Cecum		Leukemia Mononuclear	
* Intestine Large, Colon		Leukemia Mononuclear	
* Intestine Large, Rectum		Leukemia Mononuclear	
* Intestine Small, Duodenum		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
* Intestine Small, Jejunum		Leukemia Mononuclear	
* Islets, Pancreatic		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Mineralization	Focal, Mild
		Nephropathy	Mild
		Pigmentation	Focal, Mild
* Liver		Fatty Change	Focal, Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-5]		
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 8-8,7-13,5-2]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:47

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 703

TRT#: 4

SEX: Female

DAY ON TEST: 624

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 1153

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mandibular [Leukemia Mononuclear TGLS = 8-8,7-13,5-2]		Leukemia Mononuclear	
* Lymph Node, Mesenteric [Leukemia Mononuclear TGLS = 8-8,7-13,5-2]		Leukemia Mononuclear	
* Mammary Gland		Leukemia Mononuclear	
* Nose		Leukemia Mononuclear	
* Ovary [Cyst TGLS = 2-9]		Cyst Leukemia Mononuclear	Mild
* Pancreas	Acinus	Leukemia Mononuclear	
* Pituitary Gland [Leukemia Mononuclear TGLS = 6-3]		Leukemia Mononuclear	
* Salivary Glands		Leukemia Mononuclear	
* Skin		Leukemia Mononuclear	
* Spleen [Leukemia Mononuclear TGLS = 1-5]		Leukemia Mononuclear	
* Stomach, Forestomach		Leukemia Mononuclear	
* Stomach, Glandular		Leukemia Mononuclear	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland		Leukemia Mononuclear	
* Trachea		Leukemia Mononuclear	
* Uterus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 704

TRT#: 4

SEX: Female

DAY ON TEST: 572

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 1154

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Zymbal's Gland	

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Focal, Mild
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
	[Hepatodiaphragmatic Nodule TGLS = 1-5]		
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 2-13]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 3-3]		
* Uterus		Cyst	Minimal
Note: CYST IS MULTIPLE.			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 705

TRT#: 4

SEX: Female

DAY ON TEST: 504

DOSE: 1000 PPM

DISP: Moribund Sacrifice

HISTO: 1155

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	* Zymbal's Gland

OBSERVATIONS

* Clitoral Gland		Carcinoma	
[Carcinoma TGLS = 2-13]			
* Kidney		Mineralization	Focal, Minimal
		Nephropathy	Mild
		Pigmentation	Focal, Minimal
* Liver		Basophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Focal, Minimal
Lymph Node	Iliac	Hyperplasia	Plasma Cell, Mild
[Hyperplasia TGLS = 3-14]			
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 731

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 1166

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Salivary Glands
* Skin	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	* Zymbal's Gland

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Moderate
Eye	Bilateral, Retina	Atrophy	Moderate
	Bilateral, Lens	Cataract	Mild
	[Cataract TGLS = 1-14,15]		
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Focal, Minimal
		Nephropathy	Moderate
		Pigmentation	Focal, Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Fatty Change	Focal, Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-5]		
* Mammary Gland		Fibroadenoma	
		Galactocele	Mild
	[Fibroadenoma TGLS = 2-16]		
	[Galactocele TGLS = 4-8]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 3-3]		
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 731

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 1166

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach

Hyperplasia

Basal Cell, Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 732

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 1167

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
		Vacuolization Cytoplasmic	Focal, Minimal
* Bone		Hyperostosis	Marked
Eye	Bilateral, Retina	Atrophy	Moderate
	Bilateral, Lens	Cataract	Mild
	[Atrophy TGLS = 1-13,14]		
	[Cataract TGLS = 1-13,14]		
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic, Focal, Mild
	[Leukemia Mononuclear TGLS = 2-5]	Leukemia Mononuclear	
* Lung		Hemorrhage	Focal, Mild
		Infiltration Cellular	Histiocyte, Focal, Mild
		Inflammation	Focal, Mild
* Nose	Globet Cell	Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Spleen		Leukemia Mononuclear	
* Uterus		Dilatation	Moderate
	[Dilatation TGLS = 3-9]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 733

TRT#: 6

SEX: Female

DAY ON TEST: 660

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 1168

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Clitoral Gland		Inflammation	Suppurative, Moderate
* Kidney		Mineralization	Focal, Mild
		Nephropathy	Moderate
		Pigmentation	Focal, Mild
[Pigmentation TGLS = 3-7]			
* Liver		Basophilic Focus	
		Fatty Change	Focal, Minimal
		Inflammation	Chronic, Focal, Minimal
[Basophilic Focus TGLS = 2-5]			
* Lung		Inflammation	Focal, Mild
Lymph Node	Mediastinal	Hemorrhage	Mild
	Renal	Hemorrhage	Mild
[Hemorrhage TGLS = 4-13,1-2,5-14]			
[Hemorrhage TGLS = 4-13,1-2,5-14]			
* Lymph Node, Mandibular		Hemorrhage	Mild
[Hemorrhage TGLS = 4-13,1-2,5-14]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
* Stomach, Forestomach		Acanthosis	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 733

TRT#: 6

SEX: Female

DAY ON TEST: 660

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 1168

ORGAN AND ACCOUNTABLE SITE STATUS

Hyperplasia

Basal Cell, Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 734

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 1169

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Focal, Mild
		Cyst	Mild
		Vacuolization Cytoplasmic	Focal, Mild
* Bone Marrow		Atrophy	Mild
* Brain		Ependymoma Benign	
Eye	Bilateral, Retina	Atrophy	Moderate
	Bilateral, Lens	Cataract	Mild
	[Atrophy TGLS = 1-13,14]		
	[Cataract TGLS = 1-13,14]		
* Kidney		Mineralization	Focal, Mild
		Nephropathy	Moderate
		Pigmentation	Focal, Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Focal, Mild
	[Basophilic Focus TGLS = 2-5]		
* Lung		Infiltration Cellular	Histiocyte, Focal, Minimal
		Inflammation	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
	[Adenoma TGLS = 3-3]		
* Thyroid Gland	C Cell	Adenoma	
* Uterus		Cyst	Mild
		Dilatation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 734

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 1169

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 735

TRT#: 6

SEX: Female

DAY ON TEST: 540

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 1170

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	* Zymbal's Gland

OBSERVATIONS

* Kidney		Nephropathy	Mild
		Pigmentation	Focal, Mild
		Necrosis	Focal, Moderate
* Liver			
[Necrosis TGLS = 1-5]			
Mesentery	Fat	Sarcoma	
[Sarcoma TGLS = 3-13]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach		Mineralization	Focal, Mild
		Ulcer	Focal, Mild
[Mineralization TGLS = 4-14]			
[Ulcer TGLS = 4-4]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 741	TRT#: 6	SEX: Female	DAY ON TEST: 730
	DOSE: 3000 PPM	DISP: Terminal Sacrifice	HISTO: 1171

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
		Vacuolization Cytoplasmic	Focal, Minimal
* Clitoral Gland	Duct	Dilatation	Mild
* Kidney		Nephropathy	Minimal
		Pigmentation	Focal, Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Ovary		Cyst	Mild
[Cyst TGLS = 1-9]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:47

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 742

TRT#: 6

SEX: Female

DAY ON TEST: 428

DOSE: 3000 PPM

DISP: Natural Death

HISTO: 1172

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Small, Duodenum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Zymbal's Gland

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum
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OBSERVATIONS

* Intestine Small, Jejunum Note: JEJUNUM-AUTOLYZED. [Carcinoma TGLS = 3-14]	Carcinoma	
* Kidney	Mineralization	Focal, Minimal
* Liver [Developmental Malformation TGLS = 1-5]	Developmental Malformation	
* Lymph Node, Mesenteric [Hyperplasia TGLS = 2-13]	Hyperplasia	Lymphoid, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 743

TRT#: 6

SEX: Female

DAY ON TEST: 506

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 1173

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus
* Zymbal's Gland			

OBSERVATIONS

* Adrenal Cortex		Hematopoietic Cell Proliferation	Focal, Mild
* Clitoral Gland	Duct	Dilatation	Mild
* Kidney		Nephropathy	Minimal
		Pigmentation	Focal, Mild
* Liver		Basophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Focal, Minimal
Lymph Node	Axillary	Hyperplasia	Plasma Cell, Mild
[Hyperplasia TGLS = 2-13]			
* Mammary Gland		Adenocarcinoma	
[Adenocarcinoma TGLS = 1-15]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:47

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 744

TRT#: 6

SEX: Female

DAY ON TEST: 706

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 1174

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus
* Zymbal's Gland			

OBSERVATIONS

* Adrenal Cortex		Degeneration Vacuolization Cytoplasmic	Cystic, Focal, Mild
* Brain		Hydrocephalus	Focal, Minimal
* Clitoral Gland	Duct	Dilatation	Moderate
* Heart		Leukemia Mononuclear	Mild
* Kidney		Nephropathy	Moderate
		Pigmentation	Focal, Moderate
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-5]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
* Spleen		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 745

TRT#: 6

SEX: Female

DAY ON TEST: 688

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 1175

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Zymbal's Gland	

OBSERVATIONS

* Adrenal Cortex		Hemorrhage	Mild
* Brain		Hydrocephalus	Mild
[Hydrocephalus TGLS = 7-1]			
* Kidney		Mineralization	Focal, Mild
		Nephropathy	Mild
		Pigmentation	Focal, Mild
* Liver		Basophilic Focus	
		Fatty Change	Focal, Mild
[Leukemia Mononuclear TGLS = 9-5]		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Hemorrhage	Mild
		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-14,1-13]			
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 5-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Focal, Mild
[Adenoma TGLS = 8-3]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-5]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 745

TRT#: 6

SEX: Female

DAY ON TEST: 688

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 1175

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Polyp Stromal

[Polyp Stromal TGLS = 3-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 751

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 1176

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Bone		Hyperostosis	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Focal, Mild
		Nephropathy	Mild
		Pigmentation	Focal, Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Lung		Inflammation	Focal, Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Uterus		Cyst	Mild
		Dilatation	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 752

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 1177

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Zymbal's Gland	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Focal, Mild
* Clitoral Gland	Duct	Dilatation	Mild
[Dilatation TGLS = 4-9]			
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Mild
		Pigmentation	Focal, Minimal
* Liver		Basophilic Focus	
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1,2-13,14]		Galactocele	Mild
* Nose		Fungus	Moderate
		Inflammation	Chronic Active, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
* Uterus		Cyst	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:47
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 753

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 1178

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Zymbal's Gland			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Clitoral Gland		Hyperplasia	Mild
[Hyperplasia TGLS = 1-9]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 2-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:47

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 754

TRT#: 6

SEX: Female

DAY ON TEST: 583

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 1179

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Zymbal's Gland

MISSING

* Parathyroid Gland	* Thymus
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OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Clitoral Gland	Duct	Dilatation	Mild
* Kidney		Mineralization	Focal, Mild
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Fatty Change	Focal, Mild
		Inflammation	Chronic, Focal, Minimal
* Lung		Infiltration Cellular	Lymphocyte, Focal, Mild
Lymph Node	Mediastinal	Hemorrhage	Minimal
[Hemorrhage TGLS = 1-14]			
* Mammary Gland		Galactocele	Mild
* Nose		Fungus	Mild
		Inflammation	Chronic Active, Moderate
* Ovary		Cyst	Mild
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 755	TRT#: 6	SEX: Female	DAY ON TEST: 730
	DOSE: 3000 PPM	DISP: Terminal Sacrifice	HISTO: 1180

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Zymbal's Gland	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Bone Marrow		Atrophy	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
		Pigmentation	Focal, Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 3-5]			
* Mammary Gland		Adenocarcinoma	
		Fibroadenoma	
[Adenocarcinoma TGLS = 2-14]			
[Fibroadenoma TGLS = 1-13]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild
* Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 761

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 1181

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Zymbal's Gland	

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Focal, Mild
* Adrenal Medulla		Hyperplasia	Moderate
* Kidney		Nephropathy	Mild
		Pigmentation	Focal, Minimal
[Nephropathy TGLS = 4-7]			
* Liver		Basophilic Focus	
* Lung		Hemorrhage	Focal, Minimal
* Ovary		Cyst	Moderate
[Cyst TGLS = 2-9]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
* Skin	Subcut Tiss	Fibrosarcoma	
[Fibrosarcoma TGLS = 1-13]			
* Stomach, Forestomach		Hyperplasia	Basal Cell, Focal, Minimal
* Uterus		Cyst	Minimal
		Polyp Stromal	
[Polyp Stromal TGLS = 3-9]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 762

TRT#: 6

SEX: Female

DAY ON TEST: 674

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 1182

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus
* Zymbal's Gland			

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Focal, Mild
		Vacuolization Cytoplasmic	Focal, Minimal
Ear	Pinna	Fibrosarcoma	
[Fibrosarcoma TGLS = 2-13]			
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Focal, Minimal
		Pigmentation	Focal, Mild
[Pigmentation TGLS = 3-7]			
* Liver		Basophilic Focus	
* Lung		Fibrosarcoma	Metastatic (Ear)
[Fibrosarcoma TGLS = 4-6]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-14]			
* Nose		Fungus	Mild
		Inflammation	Acute, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 763

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 1183

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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	* Lymph Node, Mesenteric	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Moderate
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 2-14]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Mammary Gland		Galactocele	Minimal
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
* Uterus		Cyst	Minimal
[Polyp Stromal TGLS = 3-15]		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:48

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 764

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 1184

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	* Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Atrophy	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Focal, Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
[Basophilic Focus TGLS = 5-5]			
[Clear Cell Focus TGLS = 5-5]			
[Hepatodiaphragmatic Nodule TGLS = 4-5]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13]			
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
[Hyperplasia TGLS = 6-3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 765

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 1185

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus	* Zymbal's Gland	

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Focal, Mild
* Clitoral Gland	Duct	Dilatation	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Focal, Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
[Basophilic Focus TGLS = 2-5]			
* Lung		Infiltration Cellular	Histiocyte, Focal, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13]			
* Nose		Inflammation	Acute, Minimal
* Ovary		Cyst	Mild
Vagina		Cyst	Marked
		Hyperplasia	Squamous, Focal, Moderate
[Cyst TGLS = 3-14]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 771

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 1186

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus	* Zymbal's Gland	

OBSERVATIONS

* Bone Marrow		Atrophy	Mild
* Clitoral Gland	Duct	Dilatation	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Focal, Minimal
		Nephropathy	Minimal
		Pigmentation	Focal, Minimal
[Mineralization TGLS = 2-7]			
[Nephropathy TGLS = 2-7]			
[Pigmentation TGLS = 2-7]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
[Basophilic Focus TGLS = 1-5]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 772

TRT#: 6

SEX: Female

DAY ON TEST: 532

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 1187

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	* Zymbal's Gland

OBSERVATIONS

* Brain		Hydrocephalus	Moderate
* Kidney		Nephropathy	Moderate
		Pigmentation	Focal, Mild
[Nephropathy TGLS = 2-7]			
* Mammary Gland	Duct	Dilatation	Mild
* Nose		Inflammation	Subacute, Mild
* Pituitary Gland	Pars Distalis	Carcinoma	
[Carcinoma TGLS = 3-3+12]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 773

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 1188

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus
* Zymbal's Gland			

OBSERVATIONS

* Adrenal Cortex	Angiectasis	Focal, Mild
* Bone	Hyperostosis	Moderate
* Liver	Basophilic Focus	
* Mammary Gland	Fibroadenoma	

[Fibroadenoma TGLS = 1-13]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 774	TRT#: 6	SEX: Female	DAY ON TEST: 617
	DOSE: 3000 PPM	DISP: Natural Death	HISTO: 1189

ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst TGLS = 2-9]			
* Pancreas	Acinus	Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
[Hyperplasia TGLS = 5-3]			
* Salivary Glands		Leukemia Mononuclear	
* Skin		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-5]			
* Stomach, Forestomach		Leukemia Mononuclear	
* Stomach, Glandular		Leukemia Mononuclear	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland		Leukemia Mononuclear	
* Trachea		Leukemia Mononuclear	
* Urinary Bladder		Leukemia Mononuclear	
* Uterus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 775

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 1190

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Urinary Bladder	* Zymbal's Gland		

MISSING

* Parathyroid Gland	* Thyroid Gland	* Trachea
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INSUFFICIENT TISSUE

* Esophagus

OBSERVATIONS

* Bone Marrow		Atrophy	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Focal, Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Dilatation	Focal, Minimal
* Lung		Infiltration Cellular	Histiocyte, Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 1-3]		
* Uterus		Cyst	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:48

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 781

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 1191

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus	* Zymbal's Gland	

MISSING

* Adrenal Medulla	* Parathyroid Gland	* Thymus
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OBSERVATIONS

* Clitoral Gland [Dilatation TGLS = 2-9]	Duct	Dilatation	Moderate
* Eye [Inflammation TGLS = 1-13]		Inflammation	Acute, Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Nose		Inflammation	Chronic Active, Mild
* Pituitary Gland [Adenoma TGLS = 4-3]	Pars Distalis Pars Distalis	Adenoma Cyst	Mild
* Stomach, Forestomach		Hyperplasia	Basal Cell, Focal, Minimal
* Vagina [Cyst TGLS = 3-14]		Cyst	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:48

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 782

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 1192

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Esophagus
- * Intestine Small, Duodenum
- * Lung
- * Nose
- * Skin
- * Zymbal's Gland

- * Bone
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Ovary
- * Stomach, Glandular

- * Brain
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mesenteric
- * Pancreas
- * Trachea

- * Clitoral Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Mammary Gland
- * Salivary Glands
- * Urinary Bladder

MISSING

- * Adrenal Medulla

- * Parathyroid Gland

- * Pituitary Gland

- * Thymus

OBSERVATIONS

- * Bone Marrow
- * Heart
- * Kidney
- * Liver

- Leukemia Mononuclear
- Cardiomyopathy
- Nephropathy
- Basophilic Focus
- Clear Cell Focus
- Leukemia Mononuclear

Minimal
Minimal

[Leukemia Mononuclear TGLS = 2-5]

- * Spleen
- * Stomach, Forestomach
- * Thyroid Gland
- * Uterus

C Cell

- Leukemia Mononuclear
- Acanthosis
- Hyperplasia
- Polyp Stromal

Focal, Minimal
Focal, Minimal

[Polyp Stromal TGLS = 1-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 783

TRT#: 6

SEX: Female

DAY ON TEST: 610

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 1193

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus	* Zymbal's Gland	

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Focal, Mild
		Vacuolization Cytoplasmic	Focal, Minimal
* Bone Marrow		Atrophy	Moderate
* Kidney		Mineralization	Focal, Mild
		Nephropathy	Mild
		Pigmentation	Focal, Mild
* Liver		Eosinophilic Focus	
* Lung		Infiltration Cellular	Lymphocyte, Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 784

TRT#: 6

SEX: Female

DAY ON TEST: 652

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 1194

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	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus	* Zymbal's Gland		

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Clitoral Gland	Duct	Dilatation	Mild
* Heart		Leukemia Mononuclear	
* Kidney		Nephropathy Pigmentation	Minimal Focal, Mild
* Liver		Fatty Change Leukemia Mononuclear	Diffuse, Moderate
[Leukemia Mononuclear TGLS = 4-5]			
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-14]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-14]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-14]			
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 1-15]			
* Nose		Inflammation	Chronic Active, Mild
* Ovary		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 784	TRT#: 6	SEX: Female	DAY ON TEST: 652
	DOSE: 3000 PPM	DISP: Moribund Sacrifice	HISTO: 1194

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Cyst	Mild
		Leukemia Mononuclear	
[Cyst TGLS = 5-3]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2+3-13]			

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 785

TRT#: 6

SEX: Female

DAY ON TEST: 587

DOSE: 3000 PPM

DISP: Natural Death

HISTO: 1195

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Zymbal's Gland	

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

OBSERVATIONS

* Kidney		Mineralization	Focal, Mild
		Pigmentation	Focal, Minimal
* Liver		Basophilic Focus	
* Nose		Inflammation	Subacute, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Uterus		Dilatation	Mild
[Leiomyosarcoma TGLS = 1-13]		Leiomyosarcoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 791

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 1196

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone Marrow	* Brain	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus	* Zymbal's Gland		

MISSING

* Adrenal Medulla

OBSERVATIONS

* Bone		Hyperostosis	Moderate
* Brain			
Note: SOME DEFORMITY IS PRESENT DUE TO PRESENCE OF			
Note: PITUITARY TUMOR.			
* Clitoral Gland	Duct	Dilatation	Mild
* Kidney		Mineralization	Focal, Minimal
		Nephropathy	Moderate
		Pigmentation	Focal, Minimal
[Nephropathy TGLS = 2-7]			
* Liver		Basophilic Focus	
		Inflammation	Chronic, Focal, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Tongue		Acanthosis	Focal, Minimal
[Acanthosis TGLS = 3-14]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 792

TRT#: 6

SEX: Female

DAY ON TEST: 726

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 1197

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Lymph Node, Mandibular
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Zymbal's Gland

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
		Pigmentation	Focal, Minimal
* Liver		Basophilic Focus	
		Fatty Change	Focal, Moderate
	Bile Duct	Hyperplasia	Focal, Minimal
	[Fatty Change TGLS = 1-5]		
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 2-13]		
* Nose		Inflammation	Chronic Active, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 3-3]		
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
* Uterus		Cyst	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 793

TRT#: 6

SEX: Female

DAY ON TEST: 629

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 1198

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	* Lymph Node, Mesenteric	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Zymbal's Gland	

MISSING

* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Focal, Mild
* Adrenal Medulla	Bilateral	Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Focal, Mild
		Pigmentation	Focal, Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Inflammation	Granulomatous, Focal, Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13]			
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Uterus		Dilatation	Mild
		Inflammation	Acute, Minimal
		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:48

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 794

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 1199

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Nose | * Ovary | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | * Zymbal's Gland | | |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|----------------------------------|---------------|------------------|----------------------|
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Kidney | | Mineralization | Focal, Minimal |
| | | Nephropathy | Minimal |
| | | Pigmentation | Focal, Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Inflammation | Chronic, Focal, Mild |
| [Clear Cell Focus TGLS = 2-14] | | | |
| * Mammary Gland | | Fibroadenoma | |
| | | Galactocele | Minimal |
| [Fibroadenoma TGLS = 1-13] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | Pars Distalis | Cyst | Mild |
| [Adenoma TGLS = 3-15] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 795

TRT#: 6

SEX: Female

DAY ON TEST: 669

DOSE: 3000 PPM

DISP: Natural Death

HISTO: 1200

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Esophagus
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	* Zymbal's Gland

MISSING

* Thymus

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Small, Ileum
--------------------------	--------------------------

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Focal, Mild
* Brain		Hemorrhage	Focal, Mild
* Clitoral Gland	Duct	Dilatation	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Congestion	Mild
		Mineralization	Focal, Minimal
		Nephropathy	Minimal
[Congestion TGLS = 1-7]			
* Liver		Basophilic Focus	
		Congestion	Mild
[Basophilic Focus TGLS = 4-13]			
* Lung		Congestion	Moderate
Lymph Node	Mediastinal	Hemorrhage	Moderate
[Hemorrhage TGLS = 5-14]			
* Lymph Node, Mandibular		Hemorrhage	Moderate
[Hemorrhage TGLS = 5-14]			
* Ovary		Congestion	Mild
* Pituitary Gland		Hemorrhage	Focal, Mild
[Hemorrhage TGLS = 2,3-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:48

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 795

TRT#: 6

SEX: Female

DAY ON TEST: 669

DOSE: 3000 PPM

DISP: Natural Death

HISTO: 1200

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 801

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 1201

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Zymbal's Gland		

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Mild
* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Atrophy	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Focal, Mild
		Inflammation	Chronic, Focal, Minimal
[Fatty Change TGLS = 3-5]			
* Lung		Infiltration Cellular	Histiocyte, Focal, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13]			
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Focal, Mild
[Adenoma TGLS = 2-3]			
* Uterus		Dilatation	Mild
[Dilatation TGLS = 4-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:48

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 802

TRT#: 6

SEX: Female

DAY ON TEST: 317

DOSE: 3000 PPM

DISP: Natural Death

HISTO: 1202

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | Eye | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Ovary |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | * Zymbal's Gland | | |

OBSERVATIONS

- | | | |
|------------------------------|----------------|------------------------|
| * Adrenal Medulla | Hyperplasia | Minimal |
| * Kidney | Mineralization | Focal, Minimal |
| * Liver | Congestion | Moderate |
| [Congestion TGLS = 2-5] | | |
| * Nose | Fungus | Moderate |
| [Inflammation TGLS = 5-10] | Inflammation | Chronic Active, Marked |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 803

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 1203

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus
* Zymbal's Gland			

OBSERVATIONS

* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 6-3]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Focal, Mild
		Nephropathy	Moderate
		Pigmentation	Focal, Minimal
[Nephropathy TGLS = 4-7]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Focal, Minimal
		Inflammation	Chronic, Focal, Mild
[Inflammation TGLS = 3-5]			
* Lung		Inflammation	Focal, Minimal
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-14,2-13]			
* Nose		Hemorrhage	Moderate
		Inflammation	Subacute, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
[Adenoma TGLS = 5-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 803

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 1203

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 804

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 1204

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus	* Zymbal's Gland		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland	Bilateral, Duct	Dilatation	Moderate
[Dilatation TGLS = 2,3-9]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
		Pigmentation	Focal, Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
[Eosinophilic Focus TGLS = 4-14]		Leukemia Mononuclear	
* Lung		Infiltration Cellular	Histiocyte, Focal, Minimal
		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
		Galactocele	Minimal
[Fibroadenoma TGLS = 1-13]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 804

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 1204

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 805	TRT#: 6	SEX: Female	DAY ON TEST: 730
	DOSE: 3000 PPM	DISP: Terminal Sacrifice	HISTO: 1205

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus	* Zymbal's Gland	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Focal, Mild
		Hyperplasia	Focal, Minimal
* Islets, Pancreatic		Adenoma	
* Kidney		Mineralization	Focal, Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Lung	Alveolar Epith	Hyperplasia	Focal, Mild
		Inflammation	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 811

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 1206

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	* Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
		Vacuolization Cytoplasmic	Focal, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
		Pigmentation	Focal, Minimal
* Liver		Basophilic Focus	
* Lung		Inflammation	Focal, Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13]			
* Nose		Fungus	Moderate
		Inflammation	Chronic Active, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Thyroid Gland	Follicular Cel	Adenoma	
[Adenoma TGLS = 3-3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 812

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 1207

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Zymbal's Gland			

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Focal, Minimal
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 2-9]			
Eye	Retina	Atrophy	Marked
	Lens	Cataract	Mild
[Cataract TGLS = 1-14]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Focal, Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
[Basophilic Focus TGLS = 4-5,13]			
* Mammary Gland		Galactocele	Mild
[Galactocele TGLS = 3-8]			
* Nose		Fungus	Mild
		Inflammation	Chronic Active, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
* Stomach, Forestomach		Hyperplasia	Basal Cell, Focal, Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:48

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 812

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 1207

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Polyp Stromal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:48

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 813

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 1208

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal 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 | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |
| * Zymbal's Gland | | | |

MISSING

- * Thymus

OBSERVATIONS

- | | | | |
|---|----------------|---|--|
| * Clitoral Gland
[Dilatation TGLS = 1-9] | Duct | Dilatation | Mild |
| * Kidney | | Mineralization
Nephropathy
Pigmentation
Basophilic Focus | Focal, Minimal
Mild
Focal, Minimal |
| * Liver
[Basophilic Focus TGLS = 2-13] | | | |
| * Lung | | Inflammation | Focal, Minimal |
| * Pituitary Gland
[Hyperplasia TGLS = 4-3] | Pars Distalis | Hyperplasia | Focal, Mild |
| * Thyroid Gland | Follicular Cel | Adenoma | |
| * Uterus
[Polyp Stromal TGLS = 3-9] | | Polyp Stromal | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 814

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 1209

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus	* Zymbal's Gland	

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Moderate
* Bone Marrow		Atrophy	Mild
* Islets, Pancreatic		Hyperplasia	Focal, Mild
* Kidney		Mineralization	Focal, Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Hyperplasia	Focal, Mild
[Hyperplasia TGLS = 3-5]			
* Mammary Gland		Fibroadenoma	
		Galactocele	Mild
[Fibroadenoma TGLS = 1-13]			
* Nose		Hemorrhage	Mild
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 815

TRT#: 6

SEX: Female

DAY ON TEST: 639

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 1210

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	* Mammary Gland	* Parathyroid Gland	* Salivary Glands
* Skin	* Trachea	* Urinary Bladder	* Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Intestine Large, Cecum		Leukemia Mononuclear	
* Kidney		Cyst	Moderate
		Mineralization	Focal, Mild
		Nephropathy	Moderate
		Pigmentation	Focal, Mild
[Cyst TGLS = 7-13]			
[Nephropathy TGLS = 6-7]			
* Liver		Cyst	
	Vein	Dilatation	Moderate
		Fatty Change	Diffuse, Moderate
		Leukemia Mononuclear	
[Cyst TGLS = 5-14]			
[Dilatation TGLS = 12-5,14]			
[Leukemia Mononuclear TGLS = 4-5]			
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-17,11-8,8-16]			
[Leukemia Mononuclear TGLS = 9-17,11-8,8-16]			
* Lymph Node, Mandibular		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 815	TRT#: 6	SEX: Female	DAY ON TEST: 639
	DOSE: 3000 PPM	DISP: Moribund Sacrifice	HISTO: 1210

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 9-17,11-8,8-16]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-17,11-8,8-16]			
* Nose		Leukemia Mononuclear	
* Ovary		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-9]			
* Pancreas	Acinus	Leukemia Mononuclear	
* Pituitary Gland		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-5]			
* Stomach, Forestomach		Acanthosis	Focal, Moderate
		Ulcer	Focal, Mild
* Stomach, Glandular		Erosion	Focal, Mild
		Ulcer	Focal, Moderate
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	
* Uterus		Cyst	Minimal
		Leukemia Mononuclear	

Note: CYST IS MULTIPLE.
[Cyst TGLS = 3-9]

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 821

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 1211

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Brain
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus
* Zymbal's Gland			

MISSING

* Thymus

OBSERVATIONS

* Bone		Hyperostosis	Moderate
* Clitoral Gland		Hyperplasia	Marked
[Hyperplasia TGLS = 2-9]			
* Kidney		Mineralization	Focal, Minimal
		Nephropathy	Minimal
		Basophilic Focus	
* Liver			
[Basophilic Focus TGLS = 3-5,14]			
* Mammary Gland		Fibroadenoma	
		Galactocele	Mild
[Fibroadenoma TGLS = 1-13]			
* Nose		Inflammation	Chronic Active, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 822

TRT#: 6

SEX: Female

DAY ON TEST: 533

DOSE: 3000 PPM

DISP: Natural Death

HISTO: 1212

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus	* Zymbal's Gland	

OBSERVATIONS

* Brain		Astrocytoma Nos Hemorrhage	Focal, Mild
[Astrocytoma Nos TGLS = 3-13]			
[Hemorrhage TGLS = 4-1]			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Congestion	Mild
* Lung		Congestion	Mild
		Inflammation	Focal, Mild
[Congestion TGLS = 1-6]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
* Skin			
Note: THE SKIN LESION (L-2) WAS NOT PRESENT AT TRIM.			
* Thymus		Congestion	Moderate

PRIMARY CAUSE OF DEATH

-
Animal Note: ALTHOUGH THE DISPOSITION SAID NATD,
Animal Note: OF DEATH AS ACCIDENTAL (HEAD INJURY).
Animal Note: THE PATHOLOGIST RECORDED THE PROBABLE CAUSE

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 823

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 1213

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	* Zymbal's Gland

MISSING

* Parathyroid Gland

OBSERVATIONS

* Kidney [Cyst TGLS = 2-7]		Cyst	Multiple, Moderate
* Liver [Fatty Change TGLS = 1-5]		Basophilic Focus Fatty Change	Focal, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:48

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 824

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 1214

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus	* Zymbal's Gland		

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Focal, Mild
		Hyperplasia	Focal, Mild
		Hypertrophy	Focal, Mild
* Bone Marrow		Atrophy	Mild
* Clitoral Gland	Duct	Dilatation	Mild
		Hyperplasia	Mild
	[Hyperplasia TGLS = 1-9]		
* Kidney		Pigmentation	Focal, Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Inflammation	Chronic, Focal, Minimal
	[Basophilic Focus TGLS = 3-5]		
* Lung		Inflammation	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 2-3]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 825

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 1215

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus	* Zymbal's Gland	

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Focal, Mild
		Hyperplasia	Focal, Minimal
		Vacuolization Cytoplasmic	Focal, Mild
* Bone Marrow		Atrophy	Mild
* Clitoral Gland	Duct	Dilatation	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Focal, Mild
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Focal, Mild
[Fatty Change TGLS = 3-13]			
* Lung		Inflammation	Focal, Mild
* Mammary Gland		Fibroadenoma	Multiple
		Galactocele	Mild
[Fibroadenoma TGLS = 1-15,4-14]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Thyroid Gland	C Cell	Hyperplasia	Focal, Moderate
* Uterus			

Note: THE "NODULE" SEEN AT TRIM IS THE CERVIX.

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 851

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1226

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
		Hypertrophy	Focal, Minimal
		Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear	
		Mineralization	Focal, Mild
		Nephropathy	Moderate
		Pigmentation	Focal, Mild
	[Nephropathy TGLS = 2-7]		
	[Pigmentation TGLS = 2-7]		
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Focal, Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-5,13]		
* Lung		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Focal, Mild
	[Adenoma TGLS = 3-3]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:48

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 851

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1226

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Leukemia Mononuclear

* Stomach, Forestomach

Hyperplasia

Basal Cell, Focal, Mild

* Uterus

Cyst

Mild

Note: CYST IS MULTIPLE.

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 852

TRT#: 8

SEX: Female

DAY ON TEST: 637

DOSE: 10000PPM

DISP: Moribund Sacrifice

HISTO: 1227

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus	* Zymbal's Gland	

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Kidney		Carcinoma	
		Mineralization	Focal, Minimal
		Nephropathy	Minimal
[Carcinoma TGLS = 2-13]			
* Liver		Basophilic Focus	
		Fatty Change	Focal, Mild
[Fatty Change TGLS = 3-5]			
* Mammary Gland		Inflammation	Chronic, Focal, Moderate
Mesentery	Fat	Necrosis	Focal, Mild
[Necrosis TGLS = 1-14]			
Pharynx	Palate	Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 5-15]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
[Hyperplasia TGLS = 4-3]			
* Stomach, Forestomach		Ulcer	Focal, Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:48

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 853

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1228

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Bone | * Brain | * Esophagus | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Glandular | * Trachea | * Urinary Bladder |
| * Zymbal's Gland | | | |

OBSERVATIONS

- | | | | |
|---------------------------------------|-------------|----------------------|----------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 9-3] | | | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 9-3] | | | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Clitoral Gland | Duct | Dilatation | Moderate |
| [Dilatation TGLS = 1-9] | | | |
| * Kidney | | Leukemia Mononuclear | |
| | | Mineralization | Focal, Minimal |
| | | Nephropathy | Mild |
| | | Pigmentation | Focal, Mild |
| | | Fatty Change | Focal, Minimal |
| * Liver | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 6,7-5] | | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 3-14] | | | |
| * Lymph Node, Mandibular | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 3-14] | | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 3-14] | | | |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLS = 2-13] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 853	TRT#: 8 DOSE: 10000PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 1228
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ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery [Leukemia Mononuclear TGLS = 8-15]	Fat	Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Cyst Leukemia Mononuclear	Mild
* Spleen [Leukemia Mononuclear TGLS = 4,5-5]		Leukemia Mononuclear	
* Stomach, Forestomach		Acanthosis Leukemia Mononuclear	Focal, Minimal
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild
* Uterus		Cyst	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 854

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1229

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus	* Zymbal's Gland	

OBSERVATIONS

* Bone Marrow		Atrophy	Moderate
* Kidney		Nephropathy	Minimal
		Pigmentation	Focal, Mild
[Nephropathy TGLS = 3-7]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
[Clear Cell Focus TGLS = 1-5]			
* Pancreas	Acinus	Atrophy	Focal, Mild
* Stomach, Forestomach		Hyperplasia	Basal Cell, Focal, Minimal
[Hyperplasia TGLS = 2-4]			
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 855

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1230

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Zymbal's Gland

OBSERVATIONS

* Clitoral Gland [Hyperplasia TGLS = 1-9]		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Hyperplasia	Focal, Moderate
* Kidney		Nephropathy	Mild
		Pigmentation	Focal, Mild
* Liver		Basophilic Focus	
		Degeneration	Cystic, Focal, Minimal
		Fatty Change	Focal, Minimal
* Mammary Gland		Galactocele	Mild
* Pituitary Gland [Adenoma TGLS = 2-3]	Pars Distalis	Adenoma	
* Thymus		Thymoma Benign	
* Uterus Note: CYST IS MULTIPLE.		Cyst	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 861

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1231

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus	* Zymbal's Gland		

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Clitoral Gland		Hyperplasia	Moderate
		Inflammation	Chronic, Moderate
[Hyperplasia TGLS = 1-9]			
[Inflammation TGLS = 1-9]			
* Kidney		Mineralization	Focal, Moderate
		Nephropathy	Moderate
[Nephropathy TGLS = 2-7]			
* Liver		Basophilic Focus	
		Fatty Change	Focal, Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-5]			
* Lung		Infiltration Cellular	Histiocyte, Focal, Minimal
* Lymph Node, Mandibular		Hemorrhage	Mild
[Hemorrhage TGLS = 5-2]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Galactocele	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
* Spleen		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Focal, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 862

TRT#: 8

SEX: Female

DAY ON TEST: 572

DOSE: 10000PPM

DISP: Moribund Sacrifice

HISTO: 1232

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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, Mesenteric	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	* Zymbal's Gland

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 2-13]			
* Heart		Cardiomyopathy	Minimal
		Cardiomyopathy	Mild
* Kidney		Mineralization	Focal, Mild
		Nephropathy	Minimal
		Pigmentation	Focal, Mild
[Pigmentation TGLS = 3-7]			
* Liver		Basophilic Focus	
		Fatty Change	Focal, Mild
		Inflammation	Chronic, Focal, Minimal
	Centrilobular	Necrosis	Mild
[Fatty Change TGLS = 4-5]			
* Lymph Node, Mandibular		Hyperplasia	Plasma Cell, Mild
* Mammary Gland		Galactoceles	Moderate
		Hyperplasia	Focal, Moderate
* Nose		Fungus	Moderate
		Inflammation	Chronic Active, Moderate
* Ovary	Bilateral	Cyst	Moderate
[Cyst TGLS = 1-9]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:48

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 862

TRT#: 8

SEX: Female

DAY ON TEST: 572

DOSE: 10000PPM

DISP: Moribund Sacrifice

HISTO: 1232

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland

Pars Distalis

Cyst

Focal, Mild

Pars Distalis

Hyperplasia

[Cyst TGLS = 6-3]

* Spleen

Hematopoietic Cell Proliferation

Moderate

* Thyroid Gland

C Cell

Hyperplasia

Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 863

TRT#: 8

SEX: Female

DAY ON TEST: 658

DOSE: 10000PPM

DISP: Moribund Sacrifice

HISTO: 1233

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus	* Zymbal's Gland	

MISSING

* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex		Necrosis	Focal, Moderate
		Vacuolization Cytoplasmic	Focal, Moderate
* Bone Marrow		Atrophy	Mild
* Brain		Hydrocephalus	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
		Pigmentation	Focal, Moderate
[Pigmentation TGLS = 2-7]			
* Liver		Fatty Change	Focal, Moderate
[Fatty Change TGLS = 1-5]			
* Lung		Inflammation	Focal, Mild
* Mammary Gland		Galactocele	Marked
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 864

TRT#: 8

SEX: Female

DAY ON TEST: 674

DOSE: 10000PPM

DISP: Moribund Sacrifice

HISTO: 1234

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus	* Zymbal's Gland	

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Focal, Moderate
		Congestion	Mild
		Vacuolization Cytoplasmic	Focal, Mild
		Adenoma	
* Clitoral Gland			
[Adenoma TGLS = 2-14]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
		Pigmentation	Focal, Mild
[Pigmentation TGLS = 3-7]			
* Liver		Basophilic Focus	
* Lung	Alveolar Epith	Hyperplasia	Focal, Mild
* Mammary Gland		Galactocele	Marked
[Galactocele TGLS = 1-13]			
* Nose		Fungus	Moderate
		Inflammation	Chronic Active, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:48

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 865

TRT#: 8

SEX: Female

DAY ON TEST: 560

DOSE: 10000PPM

DISP: Natural Death

HISTO: 1235

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Brain
- * Intestine Large, Rectum
- * Ovary
- * Stomach, Forestomach
- * Urinary Bladder

- * Adrenal Medulla
- * Clitoral Gland
- * Lymph Node, Mesenteric
- * Parathyroid Gland
- * Stomach, Glandular
- * Uterus

- * Bone
- * Esophagus
- * Mammary Gland
- * Pituitary Gland
- * Thyroid Gland
- * Zymbal's Gland

- * Bone Marrow
- * Intestine Large, Cecum
- * Nose
- * Skin
- * Trachea

AUTO PRECLUDES DIAG.

- * Intestine Large, Colon
- * Islets, Pancreatic

- * Intestine Small, Duodenum
- * Pancreas

- * Intestine Small, Ileum

- * Intestine Small, Jejunum

OBSERVATIONS

- * Heart
- * Kidney
- * Liver
- * Lung
- * Lymph Node, Mandibular
- * Salivary Glands
- * Spleen

[Leukemia Mononuclear TGLS = 1+2-5]

- * Thymus

- Leukemia Mononuclear
- Mineralization
- Pigmentation
- Leukemia Mononuclear
- Leukemia Mononuclear
- Leukemia Mononuclear
- Leukemia Mononuclear
- Leukemia Mononuclear

- Focal, Mild
- Focal, Mild

- Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:48

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 871

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1236

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	* Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Focal, Minimal
		Nephropathy	Mild
		Pigmentation	Focal, Mild
[Nephropathy TGLS = 4-7]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Mixed Cell Focus	
[Basophilic Focus TGLS = 3-5]			
[Clear Cell Focus TGLS = 3-5]			
[Mixed Cell Focus TGLS = 3-5]			
Lymph Node	Mediastinal	Hemorrhage	Mild
[Hemorrhage TGLS = 5-13]			
* Mammary Gland		Fibroadenoma	
		Galactocele	Mild
		Hyperplasia	Focal, Mild
[Fibroadenoma TGLS = 1-15]			
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 2-14]			
* Nose		Inflammation	Chronic Active, Mild
* Pituitary Gland	Pars Distalis	Adenoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 871

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1236

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 7,8-3]	Pars Distalis	Hyperplasia	Focal, Mild
* Stomach, Forestomach		Hyperplasia Inflammation	Basal Cell, Focal, Minimal Chronic, Focal, Minimal
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 872

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1237

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Zymbal's Gland		

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Focal, Mild
		Hypertrophy	Focal, Mild
* Clitoral Gland	Duct	Dilatation	Minimal
* Kidney		Mineralization	Focal, Minimal
		Nephropathy	Moderate
		Pigmentation	Focal, Mild
	[Nephropathy TGLS = 2-7]		
* Liver		Basophilic Focus	
		Inflammation	Chronic, Focal, Minimal
	[Basophilic Focus TGLS = 5,6-5,13,14]		
* Lung		Infiltration Cellular	Histiocyte, Focal, Minimal
		Inflammation	Focal, Minimal
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Mild
	[Infiltration Cellular TGLS = 4-13]		
* Mammary Gland		Fibroadenoma	
		Galactocele	Mild
	[Fibroadenoma TGLS = 1-16]		
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 3-3]		
* Stomach, Forestomach		Hyperplasia	Basal Cell, Focal, Mild
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:48

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 872

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1237

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Polyp Stromal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:48

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 873

TRT#: 8

SEX: Female

DAY ON TEST: 595

DOSE: 10000PPM

DISP: Moribund Sacrifice

HISTO: 1238

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Liver | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Zymbal's Gland | | |

OBSERVATIONS

- | | | | |
|-----------------------------|---------------|----------------|-----------------|
| * Adrenal Cortex | | Angiectasis | Focal, Mild |
| * Kidney | | Mineralization | Focal, Mild |
| | | Nephropathy | Minimal |
| | | Pigmentation | Focal, Mild |
| [Pigmentation TGLS = 3-7] | | | |
| * Lung | | Congestion | Mild |
| | | Inflammation | Focal, Mild |
| [Congestion TGLS = 5-6] | | | |
| * Pituitary Gland | Pars Distalis | Cyst | |
| | Pars Distalis | Hyperplasia | Focal, Moderate |
| [Hyperplasia TGLS = 6-3] | | | |
| * Skin | Subcut Tiss | Fibroma | |
| [Fibroma TGLS = 1-13] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Focal, Mild |
| * Uterus | | Cyst | Multiple, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 874

TRT#: 8

SEX: Female

DAY ON TEST: 658

DOSE: 10000PPM

DISP: Natural Death

HISTO: 1239

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone * Zymbal's Gland

MISSING

* Clitoral Gland * Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Focal, Moderate
* Adrenal Medulla		Hyperplasia	Moderate
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Esophagus		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Intestine Large, Cecum		Leukemia Mononuclear	
* Intestine Large, Colon		Leukemia Mononuclear	
* Intestine Large, Rectum		Leukemia Mononuclear	
* Intestine Small, Duodenum		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
* Intestine Small, Jejunum		Leukemia Mononuclear	
* Islets, Pancreatic		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Pigmentation	Focal, Mild
	[Pigmentation TGLS = 6-7]		
* Liver		Fatty Change	Focal, Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-5]		
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 9+12-6,17]		
Lymph Node	Inguinal	Leukemia Mononuclear	
	Lumbar	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 874

TRT#: 8

SEX: Female

DAY ON TEST: 658

DOSE: 10000PPM

DISP: Natural Death

HISTO: 1239

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 13-18,3-8,5-13,1-15,7-2]		
[Leukemia Mononuclear TGLS = 13-18,3-8,5-13,1-15,7-2]		
[Leukemia Mononuclear TGLS = 13-18,3-8,5-13,1-15,7-2]		
* Lymph Node, Mandibular	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 13-18,3-8,5-13,1-15,7-2]		
* Lymph Node, Mesenteric	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 13-18,3-8,5-13,1-15,7-2]		
* Mammary Gland	Leukemia Mononuclear	
* Nose	Leukemia Mononuclear	
* Ovary	Leukemia Mononuclear	
* Pancreas	Acinus	Leukemia Mononuclear
* Pituitary Gland	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-3]		
* Salivary Glands	Leukemia Mononuclear	
* Skin	Leukemia Mononuclear	
* Spleen	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-14]		
* Stomach, Forestomach	Hyperplasia	Basal Cell, Focal, Minimal
	Leukemia Mononuclear	
* Stomach, Glandular	Leukemia Mononuclear	
* Thymus	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-16]		
* Thyroid Gland	Leukemia Mononuclear	
* Trachea	Leukemia Mononuclear	
* Urinary Bladder	Leukemia Mononuclear	
* Uterus	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 11-9]		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 875

TRT#: 8

SEX: Female

DAY ON TEST: 554

DOSE: 10000PPM

DISP: Moribund Sacrifice

HISTO: 1240

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Uterus	* Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Focal, Mild
		Nephropathy	Minimal
		Pigmentation	Focal, Mild
[Pigmentation TGLS = 1-7]			
* Liver		Basophilic Focus	
		Fatty Change	Focal, Mild
		Fatty Change	Focal, Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-5]			
* Lung		Inflammation	Focal, Moderate
[Inflammation TGLS = 7-13]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4+5-5]			
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
* Urinary Bladder		Hemorrhage	Marked
[Hemorrhage TGLS = 6-7]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 881

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1241

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus
* Zymbal's Gland			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
		Vacuolization Cytoplasmic	Focal, Minimal
* Brain		Hydrocephalus	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Marked
	[Nephropathy TGLS = 5-7]	Pigmentation	Focal, Moderate
* Liver		Basophilic Focus	
		Fatty Change	Focal, Minimal
	[Basophilic Focus TGLS = 4-13,7-5]	Necrosis	Focal, Mild
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-15]	Galactocele	Moderate
	[Galactocele TGLS = 2-14]		
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 6-3]		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:48

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 882

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1242

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Zymbal's Gland

OBSERVATIONS

* Kidney		Mineralization	Focal, Mild
		Nephropathy	Mild
		Pigmentation	Focal, Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-5]		
* Lung		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Focal, Mild
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-5]		
* Stomach, Forestomach		Acanthosis	Focal, Mild
* Thymus		Leukemia Mononuclear	
* Uterus		Polyp Stromal	
	[Polyp Stromal TGLS = 1-9]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:48

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 883

TRT#: 8

SEX: Female

DAY ON TEST: 665

DOSE: 10000PPM

DISP: Moribund Sacrifice

HISTO: 1243

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
* Mammary Gland	* Parathyroid Gland	* Salivary Glands	* Skin
* Thyroid Gland	* Trachea	* Urinary Bladder	* Zymbal's Gland

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Clitoral Gland	Duct	Dilatation	Mild
* Heart		Leukemia Mononuclear	
* Islets, Pancreatic		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear Pigmentation	Focal, Moderate
* Liver		Fatty Change Leukemia Mononuclear	Focal, Minimal
	[Leukemia Mononuclear TGLS = 4-5]		
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-6]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-2,3-8]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-2,3-8]		
* Nose		Fungus Inflammation	Moderate Subacute, Moderate
* Ovary		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 883	TRT#: 8	SEX: Female	DAY ON TEST: 665
	DOSE: 10000PPM	DISP: Moribund Sacrifice	HISTO: 1243

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Atrophy	Focal, Mild
	Acinus	Ectopic Liver	Focal, Mild
	Acinus	Leukemia Mononuclear	
[Atrophy TGLS = 7-2]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
[Hyperplasia TGLS = 5-3]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-5]			
* Stomach, Forestomach		Leukemia Mononuclear	
* Stomach, Glandular		Leukemia Mononuclear	
* Uterus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:48

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 884

TRT#: 8

SEX: Female

DAY ON TEST: 639

DOSE: 10000PPM

DISP: Natural Death

HISTO: 1244

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------|--------------------------|---------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Heart |
| * Intestine Large, Colon | * Islets, Pancreatic | * Lymph Node, Mesenteric | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Thyroid Gland | * Trachea | * Uterus |
| * Zymbal's Gland | | | |

AUTO PRECLUDES DIAG.

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Intestine Large, Cecum | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Spleen | * Stomach, Glandular | * Urinary Bladder |

OBSERVATIONS

- | | | | |
|--|---------------|------------------|------------------------|
| * Kidney | | Mineralization | Focal, Mild |
| | | Pigmentation | Focal, Mild |
| * Liver | | Basophilic Focus | |
| | | Fatty Change | Focal, Mild |
| * Lung | | Congestion | Moderate |
| [Congestion TGLS = 7-6] | | | |
| * Lymph Node, Mandibular | | Hyperplasia | Plasma Cell, Mild |
| [Hyperplasia TGLS = 6-2] | | | |
| * Mammary Gland | | Fibroadenoma | |
| | | Inflammation | Acute, Focal, Moderate |
| [Fibroadenoma TGLS = 1-13] | | | |
| [Inflammation TGLS = 2-9,14] | | | |
| * Nose | | Fungus | Moderate |
| | | Inflammation | Acute, Moderate |
| * Pituitary Gland | Pars Distalis | Cyst | Moderate |
| [Cyst TGLS = 3-3] | | | |
| * Spleen | | | |
| Note: SOFT SPLEEN IS DUE TO AUTOLYSIS. | | | |
| * Thymus | | Hemorrhage | Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 884

TRT#: 8

SEX: Female

DAY ON TEST: 639

DOSE: 10000PPM

DISP: Natural Death

HISTO: 1244

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:48

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 885

TRT#: 8

SEX: Female

DAY ON TEST: 658

DOSE: 10000PPM

DISP: Moribund Sacrifice

HISTO: 1245

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus	* Zymbal's Gland		

OBSERVATIONS

* Kidney		Mineralization	Focal, Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Focal, Minimal
* Mammary Gland		Fibroadenoma	
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Stomach, Forestomach		Squamous Cell Papilloma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 891

TRT#: 8

SEX: Female

DAY ON TEST: 719

DOSE: 10000PPM

DISP: Moribund Sacrifice

HISTO: 1246

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Esophagus	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Mammary Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Zymbal's Gland		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Vacuolization Cytoplasmic	Focal, Mild
[Leukemia Mononuclear TGLS = 3-3]			
* Adrenal Medulla		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-3]			
* Bone		Hyperostosis	Moderate
* Bone Marrow		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-11]			
* Clitoral Gland	Duct	Dilatation	Mild
[Dilatation TGLS = 12-9]			
* Heart		Leukemia Mononuclear	
* Intestine Large, Cecum		Leukemia Mononuclear	
* Islets, Pancreatic		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear Mineralization Pigmentation	Focal, Minimal Focal, Mild
[Leukemia Mononuclear TGLS = 4-7]			
* Liver		Fatty Change Leukemia Mononuclear	Diffuse, Moderate
[Leukemia Mononuclear TGLS = 2-5]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-6]			
Lymph Node	Mediastinal	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 891	TRT#: 8	SEX: Female	DAY ON TEST: 719
	DOSE: 10000PPM	DISP: Moribund Sacrifice	HISTO: 1246

ORGAN AND ACCOUNTABLE SITE STATUS

Renal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-13,5-14,10-8,15,1-2]		
[Leukemia Mononuclear TGLS = 7-13,5-14,10-8,15,1-2]		
* Lymph Node, Mandibular	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-13,5-14,10-8,15,1-2]		
* Lymph Node, Mesenteric	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-13,5-14,10-8,15,1-2]		
* Nose	Leukemia Mononuclear	
* Ovary	Leukemia Mononuclear	
* Pancreas	Leukemia Mononuclear	
Acinus		
* Pituitary Gland	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-3]		
* Spleen	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 11-5]		
* Stomach, Forestomach	Hyperplasia	Basal Cell, Focal, Minimal
	Leukemia Mononuclear	
* Thymus	Leukemia Mononuclear	
* Urinary Bladder	Leukemia Mononuclear	
* Uterus	Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:48

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 892

TRT#: 8

SEX: Female

DAY ON TEST: 226

DOSE: 10000PPM

DISP: Natural Death

HISTO: 1247

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|---------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Brain |
| * Clitoral Gland | * Esophagus | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Ovary | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | * Uterus | * Zymbal's Gland |

AUTO PRECLUDES DIAG.

- * Intestine Small, Duodenum

OBSERVATIONS

- | | | | |
|---------------|------|------------------|----------------|
| * Bone Marrow | | Atrophy | Moderate |
| * Kidney | | Mineralization | Focal, Mild |
| * Liver | | Necrosis | Focal, Mild |
| * Pancreas | | Accessory Spleen | |
| | Duct | Hyperplasia | Focal, Minimal |

Note: [ACCESSORY SPLN] TGLs = 4-2.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:48

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 893

TRT#: 8

SEX: Female

DAY ON TEST: 649

DOSE: 10000PPM

DISP: Natural Death

HISTO: 1248

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	* Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
	[Pheochromocytoma Benign TGLS = 9-3]		
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Marked
	[Nephropathy TGLS = 5-7]	Pigmentation	Focal, Mild
* Liver		Fatty Change	Focal, Mild
	Centrilobular	Necrosis	Moderate
	[Necrosis TGLS = 4-5]		
* Lung		Congestion	Moderate
	[Congestion TGLS = 10-6]		
* Nose		Inflammation	Acute, Mild
Pharynx	Palate	Squamous Cell Papilloma	
	[Squamous Cell Papilloma TGLS = 8-14]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 6-3]		
* Spleen		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 894

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1249

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus	* Zymbal's Gland		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
		Hypertrophy	Focal, Minimal
		Vacuolization Cytoplasmic	Focal, Mild
[Vacuolization Cytoplasmic TGLS = 3-3]			
* Bone Marrow		Leukemia Mononuclear	
* Brain		Carcinoma	Metastatic (Pituitary Gland)
		Hydrocephalus	Mild
* Clitoral Gland		Leukemia Mononuclear	
		Squamous Cell Carcinoma	
[Squamous Cell Carcinoma TGLS = 2-9]			
* Kidney		Nephropathy	Marked
		Pigmentation	Focal, Moderate
[Nephropathy TGLS = 4-7]			
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Fatty Change	Focal, Mild
		Leukemia Mononuclear	
[Fatty Change TGLS = 7-14]			
* Lung		Alveolar/Bronchiolar Adenoma	
* Lymph Node, Mandibular		Hyperplasia	Plasma Cell, Mild
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Galactocele	Mild
[Galactocele TGLS = 1-8]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 894	TRT#: 8 DOSE: 10000PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 1249
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ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery [Necrosis TGLS = 5-13]	Fat	Necrosis	Focal, Moderate
* Nose		Fungus Inflammation	Mild Acute, Moderate
* Pancreas	Acinus	Atrophy	Focal, Mild
	Artery	Inflammation	Focal, Mild
* Pituitary Gland [Carcinoma TGLS = 6-3]	Pars Distalis	Carcinoma	
* Spleen		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 895

TRT#: 8

SEX: Female

DAY ON TEST: 555

DOSE: 10000PPM

DISP: Moribund Sacrifice

HISTO: 1250

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Zymbal's Gland

OBSERVATIONS

* Adrenal Medulla	Bilateral	Hyperplasia	Mild
* Bone Marrow		Atrophy	Mild
* Brain			
Note: THE BRAIN IS MARKEDLY COMPRESSED BY THE PITUITARY TUMOR.			
* Kidney		Mineralization	Focal, Mild
		Nephropathy	Moderate
		Pigmentation	Focal, Mild
[Nephropathy TGLS = 1-7]			
* Liver		Necrosis	Focal, Minimal
* Lung		Infiltration Cellular	Histiocyte, Focal, Minimal
* Mammary Gland		Galactocele	Moderate
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 3-13]			
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:48

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 901

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1251

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Brain | * Esophagus |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Mammary Gland |
| * Nose | * Ovary | * Pancreas | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Urinary Bladder | * Zymbal's Gland | | |

MISSING

- | | |
|---------------------|-------------------|
| * Parathyroid Gland | * Pituitary Gland |
|---------------------|-------------------|

OBSERVATIONS

- | | | | |
|--------------------------|--|---------------------------|----------------------------|
| * Adrenal Cortex | | Carcinoma | Metastatic (Thyroid Gland) |
| | | Vacuolization Cytoplasmic | Focal, Mild |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Clitoral Gland | Duct | Dilatation | Mild |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Mineralization | Focal, Minimal |
| | | Nephropathy | Minimal |
| | | Pigmentation | Focal, Moderate |
| * Liver | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 2,3-5,13] | | |
| * Lung | | Carcinoma | Metastatic (Thyroid Gland) |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 7-14] | | |
| * Lymph Node, Mandibular | | Carcinoma | Metastatic (Thyroid Gland) |
| | | Leukemia Mononuclear | |
| | [Carcinoma TGLS = 6-2] | | |
| | [Leukemia Mononuclear TGLS = 7-14] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 7-14] | | |
| * Spleen | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 901	TRT#: 8	SEX: Female	DAY ON TEST: 729
	DOSE: 10000PPM	DISP: Terminal Sacrifice	HISTO: 1251

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 1-5]			
* Thyroid Gland	C Cell	Carcinoma	
[Carcinoma TGLS = 8-3]			
* Trachea		Carcinoma	Metastatic (Thyroid Gland)
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 5-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 902

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1252

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	* Zymbal's Gland

OBSERVATIONS

* Bone Marrow		Atrophy	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
	[Nephropathy TGLS = 4-7]	Pigmentation	Focal, Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Inflammation	Chronic, Focal, Mild
		Mixed Cell Focus	
	[Clear Cell Focus TGLS = 3-5]		
	[Eosinophilic Focus TGLS = 3-5]		
	[Mixed Cell Focus TGLS = 3-5]		
Lymph Node	Mediastinal	Hemorrhage	Minimal
	[Hemorrhage TGLS = 6-13]		
* Mammary Gland		Fibroadenoma	
		Galactocele	Mild
* Nose		Fungus	Mild
		Inflammation	Chronic Active, Moderate
* Pancreas	Acinus	Atrophy	Focal, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 902	TRT#: 8	SEX: Female	DAY ON TEST: 729
	DOSE: 10000PPM	DISP: Terminal Sacrifice	HISTO: 1252

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
[Adenoma TGLS = 5-3]			
* Stomach, Forestomach		Hyperplasia	Basal Cell, Focal, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:48

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 903

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1253

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus	* Zymbal's Gland		

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Focal, Moderate
		Congestion	Mild
* Kidney		Nephropathy	Minimal
		Pigmentation	Focal, Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
[Clear Cell Focus TGLS = 3-5]			
* Lung		Infiltration Cellular	Histiocyte, Focal, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
[Hyperplasia TGLS = 4-3]			
* Thyroid Gland	Bilateral, C Cell	Adenoma	
[Adenoma TGLS = 2-3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:48

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 904

TRT#: 8

SEX: Female

DAY ON TEST: 296

DOSE: 10000PPM

DISP: Natural Death

HISTO: 1254

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Brain
* Intestine Large, Cecum
* Intestine Small, Jejunum
* Lymph Node, Mandibular
* Ovary
* Salivary Glands
* Stomach, Glandular
* Uterus

* Adrenal Medulla
* Clitoral Gland
* Intestine Large, Colon
* Islets, Pancreatic
* Lymph Node, Mesenteric
* Pancreas
* Skin
* Thyroid Gland
* Zymbal's Gland

* Bone
* Esophagus
* Intestine Large, Rectum
* Liver
* Mammary Gland
* Parathyroid Gland
* Spleen
* Trachea

* Bone Marrow
* Heart
* Intestine Small, Ileum
* Lung
* Nose
* Pituitary Gland
* Stomach, Forestomach
* Urinary Bladder

AUTO PRECLUDES DIAG.

* Intestine Small, Duodenum

OBSERVATIONS

* Kidney	Mineralization	Focal, Mild
* Thymus	Necrosis	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:48

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 905

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1255

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Zymbal's Gland | | | |

MISSING

- * Thymus

OBSERVATIONS

- | | | | |
|---|---------------|---------------------------|-------------------------|
| * Kidney | | Mineralization | Focal, Mild |
| | | Nephropathy | Minimal |
| | | Pigmentation | Focal, Minimal |
| [Pigmentation TGLS = 3-7] | | | |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Focal, Minimal |
| | | Inflammation | Chronic, Focal, Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Focal, Mild |
| | | Inflammation | Focal, Minimal |
| Lymph Node | Mediastinal | Hemorrhage | Mild |
| [Hemorrhage TGLS = 4-13] | | | |
| * Ovary | | Cyst | Moderate |
| [Cyst TGLS = 1-9] | | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Mild |
| * Skin | | Cyst Epithelial Inclusion | |
| [Cyst Epithelial Inclusion TGLS = 2-14] | | | |
| * Uterus | | Cyst | Mild |
| | | Polyp Stromal | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:48

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 905

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1255

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 911

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1256

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus
* Zymbal's Gland			

OBSERVATIONS

* Clitoral Gland	Duct	Dilatation	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Focal, Mild
		Nephropathy	Mild
		Pigmentation	Focal, Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Focal, Mild
[Clear Cell Focus TGLS = 1-5]			
* Lung		Infiltration Cellular	Histiocyte, Focal, Minimal
		Inflammation	Focal, Minimal
Lymph Node	Mediastinal	Hemorrhage	Minimal
	Renal	Hemorrhage	Mild
[Hemorrhage TGLS = 4-13,2-14]			
[Hemorrhage TGLS = 4-13,2-14]			
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
[Hyperplasia TGLS = 3-3]			
* Thymus		Hemorrhage	Mild
* Thyroid Gland	C Cell	Carcinoma	
[Carcinoma TGLS = 5-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 911

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1256

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 912

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1257

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Salivary Glands	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Zymbal's Gland			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Clitoral Gland		Hyperplasia	Moderate
[Hyperplasia TGLS = 3-9]			
* Kidney		Mineralization	Focal, Mild
		Nephropathy	Moderate
		Pigmentation	Focal, Mild
* Liver		Basophilic Focus	
* Lung		Alveolar/Bronchiolar Adenoma	
* Mammary Gland		Adenocarcinoma	
		Galactocele	Mild
[Adenocarcinoma TGLS = 2-13]			
[Galactocele TGLS = 1-8]			
* Nose		Inflammation	Subacute, Mild
* Ovary		Cyst	Moderate
[Cyst TGLS = 4-9]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
* Stomach, Forestomach		Hyperplasia	Basal Cell, Focal, Minimal
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 5-9]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 912

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1257

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 913

TRT#: 8

SEX: Female

DAY ON TEST: 618

DOSE: 10000PPM

DISP: Natural Death

HISTO: 1258

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone * Intestine Large, Colon * Intestine Small, Jejunum * Parathyroid Gland

MISSING

* Zymbal's Gland

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum

OBSERVATIONS

* Adrenal Cortex	Leukemia Mononuclear	
* Adrenal Medulla	Leukemia Mononuclear	
* Bone Marrow	Leukemia Mononuclear	
* Brain	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-1]		
* Clitoral Gland	Leukemia Mononuclear	
* Esophagus	Leukemia Mononuclear	
* Heart	Leukemia Mononuclear	
* Intestine Large, Cecum	Leukemia Mononuclear	
* Intestine Large, Rectum	Leukemia Mononuclear	
* Intestine Small, Duodenum	Leukemia Mononuclear	
* Islets, Pancreatic	Leukemia Mononuclear	
* Kidney	Leukemia Mononuclear	
	Mineralization	Focal, Moderate
	Pigmentation	Focal, Mild
* Liver	Fatty Change	Focal, Mild
	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-5]		
* Lung	Leukemia Mononuclear	
Lymph Node Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-2,4-13]		
* Lymph Node, Mandibular	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-2,4-13]		
* Lymph Node, Mesenteric	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 913	TRT#: 8	SEX: Female	DAY ON TEST: 618
	DOSE: 10000PPM	DISP: Natural Death	HISTO: 1258

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 3-2,4-13]			
* Mammary Gland		Adenoma Leukemia Mononuclear	
[Adenoma TGLS = 7-8]			
* Nose		Foreign Body Inflammation Leukemia Mononuclear	Mild Subacute, Mild
* Ovary		Leukemia Mononuclear	
* Pancreas	Acinus	Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia Leukemia Mononuclear	Focal, Moderate
[Hyperplasia TGLS = 5-3]			
* Salivary Glands		Leukemia Mononuclear	
* Skin		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-5]			
* Stomach, Forestomach		Leukemia Mononuclear	
* Stomach, Glandular		Leukemia Mononuclear	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland		Leukemia Mononuclear	
* Trachea		Leukemia Mononuclear	
* Urinary Bladder		Leukemia Mononuclear	
* Uterus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 914

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1259

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus
* Zymbal's Gland			

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Focal, Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Inflammation	Chronic, Focal, Minimal
[Eosinophilic Focus TGLS = 2-5]			
* Lung		Infiltration Cellular	Histiocyte, Focal, Minimal
* Mammary Gland		Galactocele	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Focal, Mild
[Adenoma TGLS = 1-3]			
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 915

TRT#: 8

SEX: Female

DAY ON TEST: 660

DOSE: 10000PPM

DISP: Moribund Sacrifice

HISTO: 1260

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Zymbal's Gland			

OBSERVATIONS

* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Kidney		Mineralization	Focal, Minimal
		Nephropathy	Mild
		Pigmentation	Focal, Mild
[Pigmentation TGLS = 9-7]			
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7+14-5]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 12-6]			
Lymph Node	Inguinal	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 13-8,6-16,10-17,11-14,1-2]			
[Leukemia Mononuclear TGLS = 13-8,6-16,10-17,11-14,1-2]			
[Leukemia Mononuclear TGLS = 13-8,6-16,10-17,11-14,1-2]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 13-8,6-16,10-17,11-14,1-2]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 13-8,6-16,10-17,11-14,1-2]			
* Nose		Inflammation	Chronic Active, Mild
* Ovary		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 915	TRT#: 8	SEX: Female	DAY ON TEST: 660
	DOSE: 10000PPM	DISP: Moribund Sacrifice	HISTO: 1260

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4+3-13]		
* Thymus		Leukemia Mononuclear	
* Urinary Bladder		Leukemia Mononuclear	
* Uterus		Polyp Stromal	
	[Polyp Stromal TGLS = 5-9]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 921

TRT#: 8

SEX: Female

DAY ON TEST: 484

DOSE: 10000PPM

DISP: Moribund Sacrifice

HISTO: 1261

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus	* Zymbal's Gland		

OBSERVATIONS

* Adrenal Cortex		Necrosis	Focal, Moderate
* Kidney		Mineralization	Focal, Mild
		Nephropathy	Minimal
		Pigmentation	Focal, Minimal
[Pigmentation TGLS = 2-7]			
* Liver		Fatty Change	Focal, Mild
* Lung		Congestion	Mild
[Congestion TGLS = 3-6]			
* Mammary Gland		Galactocele	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4+5-3]			
* Salivary Glands		Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-2]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 922

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1262

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Zymbal's Gland			

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Bone Marrow		Atrophy	Mild
* Clitoral Gland		Inflammation	Suppurative, Mild
[Inflammation TGLS = 1-9]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Focal, Minimal
		Nephropathy	Moderate
		Pigmentation	Focal, Moderate
[Nephropathy TGLS = 3-7]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
[Clear Cell Focus TGLS = 4-5]			
* Lung		Infiltration Cellular	Histiocyte, Focal, Minimal
		Inflammation	Focal, Minimal
* Mammary Gland		Galactocele	Mild
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
* Stomach, Forestomach		Hyperplasia	Basal Cell, Focal, Mild
Urethra		Cyst	Marked
[Cyst TGLS = 2-13]			
* Uterus		Cyst	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 922

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1262

ORGAN AND ACCOUNTABLE SITE STATUS

Polyp Stromal

[Polyp Stromal TGLS = 6-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 923

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1263

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Heart	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Focal, Minimal
		Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Intestine Large, Cecum		Leukemia Mononuclear	
* Intestine Small, Duodenum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Mineralization	Focal, Mild
		Nephropathy	Minimal
		Pigmentation	Focal, Minimal
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3,5-5,14]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 4-3]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-5]		
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
* Uterus		Cyst	Minimal
Vagina		Fibroma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 923

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1263

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroma TGLS = 1-13]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 924

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1264

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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	* Lung	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
		Hypertrophy	Focal, Minimal
* Clitoral Gland	Duct	Dilatation	Mild
* Kidney		Mineralization	Focal, Minimal
		Nephropathy	Minimal
		Pigmentation	Focal, Minimal
[Nephropathy TGLS = 3-7]			
[Pigmentation TGLS = 3-7]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Focal, Mild
[Clear Cell Focus TGLS = 2-5]			
* Lymph Node, Mandibular		Hemorrhage	Mild
* Mammary Gland		Galactocele	Minimal
* Ovary		Cyst	Mild
[Cyst TGLS = 1-9]			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Mild
[Hyperplasia TGLS = 4-3]			
* Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 925

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1265

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	* Zymbal's Gland

OBSERVATIONS

* Kidney		Mineralization	Focal, Mild
		Nephropathy	Moderate
		Pigmentation	Focal, Mild
[Nephropathy TGLS = 4-7]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Mixed Cell Focus	
[Mixed Cell Focus TGLS = 3-5,2-13]			
* Lung		Infiltration Cellular	Histiocyte, Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 931

TRT#: 8

SEX: Female

DAY ON TEST: 502

DOSE: 10000PPM

DISP: Moribund Sacrifice

HISTO: 1266

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	* Zymbal's Gland

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Atrophy	Moderate
* Brain		Hydrocephalus	Moderate
		Infiltration Cellular	Lymphocyte, Focal, Mild
[Hydrocephalus TGLS = 6-1]			
* Clitoral Gland	Duct	Dilatation	Mild
* Kidney		Mineralization	Focal, Mild
		Nephropathy	Mild
		Pigmentation	Focal, Moderate
[Pigmentation TGLS = 4-7]			
* Lung		Infiltration Cellular	Histiocyte, Focal, Minimal
		Inflammation	Focal, Mild
Lymph Node	Axillary	Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 1-13]			
* Mammary Gland		Adenoacanthoma	
[Adenoacanthoma TGLS = 2-14]			
* Pituitary Gland	Pars Distalis	Carcinoma	
[Carcinoma TGLS = 5-3]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 932

TRT#: 8

SEX: Female

DAY ON TEST: 663

DOSE: 10000PPM

DISP: Natural Death

HISTO: 1267

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Parathyroid Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus	* Zymbal's Gland		

MISSING

* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex [Leukemia Mononuclear TGLS = 6-3]		Leukemia Mononuclear	
* Adrenal Medulla [Leukemia Mononuclear TGLS = 6-3]		Leukemia Mononuclear Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Kidney [Pigmentation TGLS = 7-7]		Leukemia Mononuclear Nephropathy Pigmentation	Mild Focal, Moderate
* Liver [Leukemia Mononuclear TGLS = 5-5]		Leukemia Mononuclear	
* Lung [Leukemia Mononuclear TGLS = 14-6,17]		Leukemia Mononuclear	
Lymph Node	Axillary	Leukemia Mononuclear	
	Iliac	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-16,11-3,8-15,10-10,13-8]			
[Leukemia Mononuclear TGLS = 9-16,11-3,8-15,10-10,13-8]			
[Leukemia Mononuclear TGLS = 9-16,11-3,8-15,10-10,13-8]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 932

TRT#: 8

SEX: Female

DAY ON TEST: 663

DOSE: 10000PPM

DISP: Natural Death

HISTO: 1267

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 9-16,11-3,8-15,10-10,13-8]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-16,11-3,8-15,10-10,13-8]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-16,11-3,8-15,10-10,13-8]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13]			
* Nose		Leukemia Mononuclear	
* Ovary		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3,4-9]			
* Pancreas	Acinus	Atrophy	Focal, Moderate
	Acinus	Leukemia Mononuclear	
* Pituitary Gland		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 12-3]			
* Salivary Glands		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-14]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 933

TRT#: 8

SEX: Female

DAY ON TEST: 502

DOSE: 10000PPM

DISP: Moribund Sacrifice

HISTO: 1268

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Salivary Glands	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus	* Zymbal's Gland		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Brain		Hydrocephalus	Mild
[Hydrocephalus TGLS = 7-1]			
* Kidney		Mineralization	Focal, Minimal
		Nephropathy	Moderate
		Pigmentation	Focal, Mild
[Nephropathy TGLS = 2-7]			
* Liver		Basophilic Focus	
		Fatty Change	Focal, Mild
		Inflammation	Chronic, Focal, Mild
[Fatty Change TGLS = 6-5]			
Lymph Node	Renal	Hemorrhage	Moderate
[Hemorrhage TGLS = 3,4-13]			
* Ovary		Cyst	Mild
[Cyst TGLS = 1-9]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
* Stomach, Forestomach		Ulcer	Focal, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 934

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1269

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Urinary Bladder
* Uterus	* Zymbal's Gland		

MISSING

* Pituitary Gland

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Clitoral Gland		Inflammation	Suppurative, Mild
* Kidney		Nephropathy	Mild
		Pigmentation	Focal, Mild
[Nephropathy TGLS = 3-7]			
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 2-5.1]			
* Lung		Carcinoma	Metastatic (Thyroid Gland)
* Mammary Gland		Hyperplasia	Focal, Mild
Mesentery	Fat	Necrosis	Focal, Mild
[Necrosis TGLS = 4-13]			
* Pancreas	Acinus	Atrophy	Focal, Mild
* Stomach, Forestomach		Hyperplasia	Basal Cell, Focal, Minimal
* Thyroid Gland	C Cell	Carcinoma	
[Carcinoma TGLS = 1-3]			
* Trachea		Carcinoma	Metastatic (Thyroid Gland)

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:48

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 935

TRT#: 8

SEX: Female

DAY ON TEST: 176

DOSE: 10000PPM

DISP: Moribund Sacrifice

HISTO: 1270

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Liver |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Ovary |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | * Uterus | * Zymbal's Gland |

MISSING

- * Thymus

OBSERVATIONS

- | | | | |
|------------------------|-----------|----------------|--------------------------|
| * Kidney | | Mineralization | Focal, Mild |
| * Lung | Arteriole | Mineralization | Focal, Minimal |
| * Nose | | Fungus | Mild |
| | | Inflammation | Chronic Active, Moderate |
| * Stomach, Forestomach | | Ulcer | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 941

TRT#: 8

SEX: Female

DAY ON TEST: 702

DOSE: 10000PPM

DISP: Moribund Sacrifice

HISTO: 1271

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Zymbal's Gland		

OBSERVATIONS

* Bone Marrow		Atrophy	Minimal
* Kidney		Nephropathy	Mild
		Pigmentation	Focal, Minimal
* Liver		Inflammation	Chronic, Focal, Minimal
* Nose		Inflammation	Subacute, Mild
* Parathyroid Gland		Cyst	Mild
* Pituitary Gland	Pars Distalis	Cyst	Moderate
Skeletal Muscle	Back	Sarcoma	
[Sarcoma TGLS = 2-14]			
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 1-13]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 942	TRT#: 8	SEX: Female	DAY ON TEST: 85
	DOSE: 10000PPM	DISP: Natural Death	HISTO: 1272

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Thyroid Gland	* Zymbal's Gland
-----------------	------------------

AUTO PRECLUDES DIAG.

* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Pancreas	* Pituitary Gland
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus

OBSERVATIONS

* Kidney	Mineralization	Focal, Mild
* Lung	Congestion	Minimal

[Congestion TGLS = 1-6,7]

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 943

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1273

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Ovary	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Zymbal's Gland		

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Focal, Mild
* Kidney		Nephropathy	Minimal
		Pigmentation	Focal, Mild
* Liver		Basophilic Focus	
		Inflammation	Chronic, Focal, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13]			
* Nose		Inflammation	Chronic Active, Mild
* Pancreas	Acinus	Atrophy	Focal, Mild
* Uterus		Cyst	Multiple, Moderate
[Cyst TGLS = 2-9]		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 218

CAS Number: 28407-37-6

Date Report Requested: 10/16/2014

Time Report Requested: 01:29:48

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 944

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1274

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal 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	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	Vagina
* Zymbal's Gland			

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Focal, Mild
		Nephropathy	Mild
		Pigmentation	Focal, Mild
[Pigmentation TGLS = 2-7]			
* Liver		Basophilic Focus	
		Inflammation	Chronic, Focal, Minimal
* Nose		Inflammation	Chronic Active, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
[Adenoma TGLS = 3-3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 945

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1275

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal 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	* Lung	* Ovary	* Salivary Glands
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus
Vagina	* Zymbal's Gland		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
		Vacuolization Cytoplasmic	Focal, Mild
* Clitoral Gland	Duct	Dilatation	Mild
* Kidney		Nephropathy	Moderate
		Pigmentation	Focal, Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Inflammation	Chronic, Focal, Minimal
		Mixed Cell Focus	
[Basophilic Focus TGLS = 5-5]			
[Mixed Cell Focus TGLS = 5-5]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
* Lymph Node, Mesenteric		Hemorrhage	Moderate
* Mammary Gland		Galactoceles	Mild
[Galactoceles TGLS = 1-8]			
* Nose		Fungus	Moderate
		Inflammation	Chronic Active, Moderate
* Pancreas	Acinus	Atrophy	Diffuse, Marked
[Atrophy TGLS = 3-2]			
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05130-03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 218
CAS Number: 28407-37-6

Date Report Requested: 10/16/2014
Time Report Requested: 01:29:48
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 945

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 10000PPM

DISP: Terminal Sacrifice

HISTO: 1275

ORGAN AND ACCOUNTABLE SITE STATUS

Pars Distalis

Cyst

Mild

[Adenoma TGLS = 4-3]

* Stomach, Forestomach

Acanthosis

Focal, Mild

Hyperplasia

Basal Cell, Focal, Minimal

PRIMARY CAUSE OF DEATH

-

**** END OF REPORT ****

* PROTOCOL REQUIRED TISSUE