

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

C Number: C61541C
Lock Date: 03/03/1992
Cage Range: All
Date Range: All
Reasons For Removal: All
Removal Date Range: All
Treatment Groups: All
Study Gender: Both
PWG Approval Date: 03/01/1995

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 1	TRT#: 1	SEX: Male	DAY ON TEST: 729
	DOSE: 0 PPM	DISP: Terminal Sacrifice	HISTO: MB069G-1

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Gallbladder	* Mammary Gland	* Prostate	
---------------	-----------------	------------	--

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
		Hypertrophy	Focal, Minimal
* Islets, Pancreatic		Hyperplasia	Moderate
* Kidney	Renal Tubule	Hyperplasia	Mild
		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	Multiple
	[Hepatocellular Adenoma TGLS = 3-12,4-14,5-13]		
* Preputial Gland		Dilatation	Moderate
		Inflammation	Chronic Active, Moderate
	[Dilatation TGLS = 1-9]		
	[Inflammation TGLS = 1-9]		
* Seminal Vesicle		Dilatation	Moderate
	[Dilatation TGLS = 2-15]		
* Thymus		Atrophy	Moderate
Tooth		Developmental Malformation	
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 2	TRT#: 1	SEX: Male	DAY ON TEST: 730
	DOSE: 0 PPM	DISP: Terminal Sacrifice	HISTO: MB069G-2

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Gallbladder	* Mammary Gland	* Prostate
---------------	-----------------	------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Moderate
* Brain		Mineralization	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	Moderate
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
[Basophilic Focus TGLS = 5-16]			
[Hepatocellular Adenoma TGLS = 4-14,2-15,6-5]			
[Hepatocellular Carcinoma TGLS = 3-12,13]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Preputial Gland		Dilatation	Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	Follicular Cel	Adenoma	
[Adenoma TGLS = 7-2]			
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 3	TRT#: 1 DOSE: 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: MB069G-3
---------------------	--------------------------------------	---	---

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Gallbladder	* 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
* Pancreas	* Pituitary Gland	* Prostate	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland	* Parathyroid Gland	* Stomach, Glandular
-----------------	---------------------	----------------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Mild
* Kidney		Nephropathy	Mild
* Preputial Gland		Abscess	Marked
[Abscess TGLS = 2-9]			
* Salivary Glands		Inflammation	Chronic, Minimal
* Skin		Inflammation	Chronic Active, Mild
[Inflammation TGLS = 1-7]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 4	TRT#: 1	SEX: Male	DAY ON TEST: 456
	DOSE: 0 PPM	DISP: Scheduled Sacrifice	HISTO: MB069G-4

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Cyst	Mild
[Cyst TGLS = 2-12]			
* Liver	Centrilobular	Fatty Change	Mild
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Respirat Epith	Degeneration	Hyaline, Mild
	Respirat Epith	Inflammation	Chronic Active, Mild
	Respirat Epith	Metaplasia	Mild
* Pancreas		Inflammation	Chronic, Minimal
* Preputial Gland		Dilatation	Minimal
		Inflammation	Chronic, Minimal
[Dilatation TGLS = 1-9]			
* Salivary Glands		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 5	TRT#: 1	SEX: Male	DAY ON TEST: 729
	DOSE: 0 PPM	DISP: Terminal Sacrifice	HISTO: MB069G-5

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Gallbladder	* 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	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Mammary Gland
--------------------------	-----------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Mild
* Kidney		Nephropathy	Minimal
* Liver	Centrilobular	Eosinophilic Focus	Moderate
		Fatty Change	Minimal
		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 1-12,13]			
* Lung	Alveolar Epith	Alveolar/Bronchiolar Adenoma	Multiple
	Bronchiole	Hyperplasia	Minimal
		Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
		Infiltration Cellular	Lymphocyte, Minimal
[Alveolar/Bronchiolar Adenoma TGLS = 2-15]			
* Preputial Gland		Dilatation	Mild
		Inflammation	Chronic Active, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 6	TRT#: 1 DOSE: 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: MB069G-6
---------------------	--------------------------------------	---	---

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Gallbladder	* 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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy Mineralization	Minimal Focal, Mild Mild
* Brain		Hyperplasia	Moderate
* Islets, Pancreatic		Inflammation	Chronic, Minimal
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus Eosinophilic Focus	Mild
	[Clear Cell Focus TGLS = 5-17,4-14,3-15]		
* Lung		Alveolar/Bronchiolar Adenoma	
	[Alveolar/Bronchiolar Adenoma TGLS = 6-12]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Preputial Gland		Dilatation	Marked
	[Dilatation TGLS = 1-9]		
* Salivary Glands		Inflammation	Chronic, Minimal
* Seminal Vesicle		Dilatation	Mild
	[Dilatation TGLS = 2-13]		
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 7 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 456
DOSE: 0 PPM **DISP:** Scheduled Sacrifice **HISTO:** MB069G-7

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Gallbladder	* 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	* Pancreas	* Parathyroid Gland	* Prostate
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Minimal
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Inflammation	Chronic, Mild
		Nephropathy	Minimal
* Liver	Centrilobular	Fatty Change	Mild
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Respirat Epith	Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Dilatation	Mild
		Inflammation	Chronic, Mild
* Salivary Glands		Inflammation	Chronic, Minimal
* Thymus		Hyperplasia	Lymphoid, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 8	TRT#: 1	SEX: Male	DAY ON TEST: 730
	DOSE: 0 PPM	DISP: Terminal Sacrifice	HISTO: MB069G-8

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Heart	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Gallbladder	* Lymph Node, Mandibular
---------------	--------------------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Moderate
		Hypertrophy	Focal, Moderate
* Brain		Mineralization	Mild
* Epididymis		Granuloma Sperm	Mild
* Intestine Large, Cecum		Hyperplasia	Lymphoid, Marked
	[Hyperplasia TGLS = 5-14]		
* Kidney		Inflammation	Chronic, Minimal
		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	Multiple
	[Hepatocellular Adenoma TGLS = 2-12, 3-5]	Mixed Cell Focus	
* Lung	Alveolar Epith	Hyperplasia	Mild
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Respirat Epith	Hyperplasia	Glandular, Mild
* Preputial Gland		Dilatation	Mild
		Inflammation	Chronic Active, Mild
	[Dilatation TGLS = 1-9]		
* Seminal Vesicle		Dilatation	Mild
	[Dilatation TGLS = 4-13]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 8	TRT#: 1 DOSE: 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: MB069G-8
---------------------	--------------------------------------	---	---

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus	Atrophy	Mild
Tooth	Developmental Malformation	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 9	TRT#: 1 DOSE: 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 731 HISTO: MB069G-9
---------------------	--------------------------------------	---	---

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Gallbladder	* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
---------------	--------------------------	-----------------	---------------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy	Marked Focal, Mild
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus Eosinophilic Focus Hepatocellular Adenoma	
		[Clear Cell Focus TGLS = 3-14] [Hepatocellular Adenoma TGLS = 2-12]	
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Preputial Gland		Dilatation	Mild
* Skin		Foreign Body Inflammation	Mild Chronic Active, Marked
		[Inflammation TGLS = 1-15]	
Tooth		Developmental Malformation	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 10

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-10

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Prostate	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Mammary Gland	* Pancreas	* Parathyroid Gland
--------------------------	-----------------	------------	---------------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy Mineralization	Minimal Focal, Mild Minimal
* Brain		Inflammation	Chronic Active, Minimal
* Epididymis		Hyperplasia	Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney	Renal Tubule	Nephropathy	Minimal
* Liver		Basophilic Focus Clear Cell Focus Eosinophilic Focus Hepatocellular Adenoma	Minimal Mild Multiple
		[Basophilic Focus TGLS = 4-15]	
		[Hepatocellular Adenoma TGLS = 5-14, 2-12]	
* Lung	Alveolar Epith Interstitial	Alveolar/Bronchiolar Adenoma Hyperplasia Inflammation	Mild Chronic Active, Minimal
		[Alveolar/Bronchiolar Adenoma TGLS = 3-13]	
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Nose		Exudate	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Dilatation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 10

TRT#: 1
DOSE: 0 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO: MB069G-10

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands
* Seminal Vesicle
 [Dilatation TGLS = 1-16]
Tooth

Inflammation
Inflammation
Dilatation

Developmental Malformation

Chronic Active, Mild
Chronic, Minimal
Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 11

TRT#: 1

SEX: Male

DAY ON TEST: 629

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: MB069G-11

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Minimal
* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Carcinoma	Multiple
[Hepatocellular Carcinoma TGLS = 2-13, 3-14]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Preputial Gland		Dilatation	Mild
		Inflammation	Chronic Active, Moderate
* Prostate		Inflammation	Chronic, Minimal
* Skin	Subcut Tiss	Sarcoma	
[Sarcoma TGLS = 1-12]			
* Spleen		Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 12

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-12

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Mammary Gland	* Thymus
--------------------------	-----------------	----------

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Brain		Mineralization	Minimal
* Kidney		Nephropathy	Moderate
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	[Hepatocellular Adenoma TGLS = 5-12, 4-5]		
	[Hepatocellular Carcinoma TGLS = 6-13,14]		
* Lung		Alveolar/Bronchiolar Adenoma	Multiple
		Infiltration Cellular	Lymphocyte, Minimal
	[Alveolar/Bronchiolar Adenoma TGLS = 3-17.1, 2-16.1]		
* Lymph Node, Mesenteric		Hematopoietic Cell Proliferation	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Preputial Gland		Dilatation	Moderate
* Salivary Glands		Inflammation	Chronic, Minimal
* Spleen		Hemangiosarcoma	
		Hematopoietic Cell Proliferation	Moderate
	[Hemangiosarcoma TGLS = 1-15]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 13

TRT#: 1

SEX: Male

DAY ON TEST: 456

DOSE: 0 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-13

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Brain		Mineralization	Mild
* Kidney		Nephropathy	Minimal
* Liver	Centrilobular	Fatty Change	Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Preputial Gland		Dilatation	Minimal
* Salivary Glands		Inflammation	Chronic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 14

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-14

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Gallbladder	* Heart	* 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	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Esophagus	* Mammary Gland
-------------	-----------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy Mineralization	Minimal Focal, Minimal Minimal
* Brain			
* Intestine Large, Cecum		Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 2-12]			
* Kidney		Nephropathy	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Preputial Gland		Inflammation	Chronic Active, Marked
[Inflammation TGLS = 1-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 15

TRT#: 1

SEX: Male

DAY ON TEST: 497

DOSE: 0 PPM

DISP: Natural Death

HISTO: mb069g-15

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

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

AUTO PRECLUDES DIAG.

* Gallbladder

OBSERVATIONS

* Epididymis		Inflammation	Chronic Active, Mild
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
	[Hepatocellular Carcinoma TGLS = 1-5,2-12]		
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Preputial Gland		Dilatation	Moderate
		Inflammation	Chronic, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 16

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-16

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* Heart	* 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	* Prostate	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Minimal
* Epididymis		Inflammation	Chronic Active, Minimal
* Kidney		Nephropathy	Minimal
* Liver		Hemangiosarcoma	Multiple
		Hepatocellular Carcinoma	Multiple
		Necrosis	Mild
<p>Note: Necrosis is secondary to tumor. [Hemangiosarcoma TGLS = 4-13, 6-5] [Hepatocellular Carcinoma TGLS = 2-12, 3-14] [Necrosis TGLS = 4-13]</p>			
* Lung		Alveolar/Bronchiolar Adenoma	
		[Alveolar/Bronchiolar Adenoma TGLS = 5-15]	
* Lymph Node, Mesenteric		Hematopoietic Cell Proliferation	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Preputial Gland		Dilatation	Moderate
		Inflammation	Chronic Active, Moderate
* Salivary Glands		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 16

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-16

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 17

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-17

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Gallbladder	* 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	* Pancreas	* Parathyroid Gland	* Prostate
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
		Hypertrophy	Focal, Mild
* Brain		Mineralization	Minimal
* Intestine Small, Jejunum		Lymphoma Malignant Mixed	
	[Lymphoma Malignant Mixed TGLS = 2-13]		
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	Moderate
	[Clear Cell Focus TGLS = 6-14]	Hepatocellular Adenoma	
	[Hepatocellular Adenoma TGLS = 5-5]		
Lymph Node		Lymphoma Malignant Mixed	
	[Lymphoma Malignant Mixed TGLS = 3-12]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Preputial Gland		Dilatation	Mild
* Seminal Vesicle		Dilatation	Moderate
	[Dilatation TGLS = 1-15]		
* Spleen		Lymphoma Malignant Mixed	
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 17

TRT#: 1
DOSE: 0 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 730
HISTO: MB069G-17

ORGAN AND ACCOUNTABLE SITE STATUS

Tooth	Developmental Malformation
-------	----------------------------

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 18

TRT#: 1

SEX: Male

DAY ON TEST: 456

DOSE: 0 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-18

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	

MISSING

* Lymph Node, Mandibular	* Mammary Gland
--------------------------	-----------------

OBSERVATIONS

* Brain		Mineralization	Moderate
* Kidney		Nephropathy	Minimal
* Liver	Centrilobular	Fatty Change	Minimal
	[Hepatocellular Adenoma TGLS = 2-5]	Hepatocellular Adenoma	
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Preputial Gland		Dilatation	Mild
		Inflammation	Chronic, Mild
	[Dilatation TGLS = 1-9]		
* Salivary Glands		Inflammation	Chronic, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 19

TRT#: 1

SEX: Male

DAY ON TEST: 546

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: MB069G-19

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Pancreas	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea		

MISSING

* Gallbladder	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Thymus			

OBSERVATIONS

* Brain		Compression	Marked
* Islets, Pancreatic		Adenoma	
Note: IDENTIFIED AS PANCREATIC LYMPH NODE AT NECROPSY			
[Adenoma TGLS = 2-2]			
* Kidney		Nephropathy	Minimal
* Liver	Centrilobular	Fatty Change	Marked
* Lung		Congestion	Moderate
[Congestion TGLS = 1-6]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pituitary Gland	Pars Intermed	Carcinoma	
Note: SITED TO BRAIN AT NECROPSY			
[Carcinoma TGLS = 3-1]			
* Preputial Gland		Dilatation	Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 20

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-20

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Gallbladder	* Heart
* 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	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea		

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy Mineralization	Minimal Focal, Minimal Mild
* Brain		Nephropathy	Mild
* Kidney		Cytomegaly	Minimal
* Liver	Centrilobular Centrilobular	Fatty Change	Minimal
* Lung		Alveolar/Bronchiolar Adenoma Infiltration Cellular	Histiocyte, Mild
[Alveolar/Bronchiolar Adenoma TGLS = 4-12]			
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Preputial Gland		Dilatation	Moderate
[Dilatation TGLS = 2-9]			
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Inflammation	Chronic, Minimal
* Seminal Vesicle		Dilatation	Mild
[Dilatation TGLS = 3-13]			
* Skin	Epidermis	Hyperplasia	Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 20

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-20

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 21	TRT#: 1	SEX: Male	DAY ON TEST: 730
	DOSE: 0 PPM	DISP: Terminal Sacrifice	HISTO: MB069G-21

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Gallbladder	* Mammary Gland
---------------	-----------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Brain		Mineralization	Minimal
* Kidney		Metaplasia	Osseous, Mild
		Nephropathy	Minimal
* Liver	Centrilobular	Cytomegaly	Minimal
* Lung		Infiltration Cellular	Lymphocyte, Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Seminal Vesicle		Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 22

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-22

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Gallbladder	* 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	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea			

MISSING

* Mammary Gland	* Prostate
-----------------	------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Brain		Mineralization	Minimal
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
	Centrilobular	Cytomegaly	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
	[Alveolar/Bronchiolar Adenoma TGLS = 2-12]		
* Preputial Gland		Dilatation	Marked
* Salivary Glands		Inflammation	Chronic, Minimal
* Seminal Vesicle		Dilatation	Moderate
	[Dilatation TGLS = 1-13]		
Tooth		Developmental Malformation	
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 23	TRT#: 1	SEX: Male	DAY ON TEST: 730
	DOSE: 0 PPM	DISP: Terminal Sacrifice	HISTO: MB069G-23

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy	Minimal Focal, Minimal
* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 2-12]			
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Preputial Gland		Dilatation	Minimal
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Inflammation	Chronic, Minimal
* Seminal Vesicle		Dilatation	Mild
[Dilatation TGLS = 1-9]			
Tooth		Developmental Malformation	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 24	TRT#: 1	SEX: Male	DAY ON TEST: 456
	DOSE: 0 PPM	DISP: Scheduled Sacrifice	HISTO: MB069G-24

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular	* Mammary Gland
--------------------------	-----------------

OBSERVATIONS

* Brain		Mineralization	Minimal
* Kidney		Nephropathy	Mild
* Liver	Centrilobular	Fatty Change	Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Preputial Gland		Dilatation	Moderate
		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 25

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-25

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Gallbladder	* 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	* Pancreas
* Pituitary Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

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

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
		Hypertrophy	Focal, Minimal
* Brain		Mineralization	Mild
* Kidney		Cyst	Minimal
		Metaplasia	Osseous, Minimal
		Nephropathy	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Preputial Gland		Dilatation	Marked
* Prostate		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 26

TRT#: 1

SEX: Male

DAY ON TEST: 456

DOSE: 0 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-26

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Gallbladder	* 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	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea			

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Brain		Mineralization	Mild
* Kidney		Inflammation	Chronic, Minimal
* Liver	Centrilobular	Fatty Change	Minimal
		Hepatocellular Adenoma	
	[Hepatocellular Adenoma TGLS = 1-5]		
* Lung		Alveolar/Bronchiolar Adenoma	
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 27	TRT#: 1	SEX: Male	DAY ON TEST: 730
	DOSE: 0 PPM	DISP: Terminal Sacrifice	HISTO: MB069G-27

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Epididymis	* Esophagus	* Gallbladder
* 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	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Mammary Gland
--------------------------	-----------------

OBSERVATIONS

* Brain	Mineralization	Mild
* Kidney	Nephropathy	Mild
* Lung	Alveolar/Bronchiolar Adenoma	
* Preputial Gland	Dilatation	Mild
	Inflammation	Chronic Active, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 28

TRT#: 1

SEX: Male

DAY ON TEST: 609

DOSE: 0 PPM

DISP: Natural Death

HISTO: MB069G-28

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea			

MISSING

* Mammary Gland

AUTO PRECLUDES DIAG.

* Intestine Small, Duodenum * Intestine Small, Ileum

OBSERVATIONS

* Adrenal Cortex		Lymphoma Malignant Lymphocytic	
* Brain		Lymphoma Malignant Lymphocytic	
* Epididymis		Lymphoma Malignant Lymphocytic	
* Heart		Lymphoma Malignant Lymphocytic	
* Kidney		Inflammation	Chronic, Minimal
* Liver		Hepatocellular Carcinoma	
		Lymphoma Malignant Lymphocytic	
	[Hepatocellular Carcinoma TGLS = 4-15]		
	[Lymphoma Malignant Lymphocytic TGLS = 4-15]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
		Lymphoma Malignant Lymphocytic	
Lymph Node	Bronchial	Lymphoma Malignant Lymphocytic	
	Iliac	Lymphoma Malignant Lymphocytic	
	Inguinal	Lymphoma Malignant Lymphocytic	
	Mediastinal	Lymphoma Malignant Lymphocytic	
	Popliteal	Lymphoma Malignant Lymphocytic	
	[Lymphoma Malignant Lymphocytic TGLS = 7-17]		
	[Lymphoma Malignant Lymphocytic TGLS = 6-12]		
	[Lymphoma Malignant Lymphocytic TGLS = 8-13]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 28	TRT#: 1	SEX: Male	DAY ON TEST: 609
	DOSE: 0 PPM	DISP: Natural Death	HISTO: MB069G-28

ORGAN AND ACCOUNTABLE SITE STATUS

[Lymphoma Malignant Lymphocytic TGLS = 5-16]		
[Lymphoma Malignant Lymphocytic TGLS = 1-14]		
* Lymph Node, Mandibular	Lymphoma Malignant Lymphocytic	
[Lymphoma Malignant Lymphocytic TGLS = 2-2,2.1]		
* Lymph Node, Mesenteric	Lymphoma Malignant Lymphocytic	
[Lymphoma Malignant Lymphocytic TGLS = 9-7]		
* Nose	Lymphoma Malignant Lymphocytic	
* Preputial Gland	Dilatation	Mild
	Inflammation	Chronic Active, Mild
* Prostate	Lymphoma Malignant Lymphocytic	
* Skin	Lymphoma Malignant Lymphocytic	
* Spleen	Lymphoma Malignant Lymphocytic	
[Lymphoma Malignant Lymphocytic TGLS = 3-5]		
* Thymus	Lymphoma Malignant Lymphocytic	
* Urinary Bladder	Lymphoma Malignant Lymphocytic	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 29

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-29

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Gallbladder	* 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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Mild
* Brain		Mineralization	Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Preputial Gland		Dilatation	Moderate
		Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 30

TRT#: 1

SEX: Male

DAY ON TEST: 689

DOSE: 0 PPM

DISP: Natural Death

HISTO: MB069G-30

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Pancreas	* Prostate	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Trachea
* Urinary Bladder			

MISSING

* Gallbladder	* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Thymus	

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	[Hepatocellular Carcinoma TGLS = 1-12]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Lymph Node, Mesenteric		Hematopoietic Cell Proliferation	Mild
		Hemorrhage	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Salivary Glands		Inflammation	Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation	Marked
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 31	TRT#: 1	SEX: Male	DAY ON TEST: 730
	DOSE: 0 PPM	DISP: Terminal Sacrifice	HISTO: MB069G-31

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Prostate	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
		Hypertrophy	Focal, Minimal
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Focal, Minimal
		Hepatocellular Adenoma	
	[Hepatocellular Adenoma TGLS = 1-12]		
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Preputial Gland		Dilatation	Mild
* Seminal Vesicle		Dilatation	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 32

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-32

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Gallbladder	* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	Tissue NOS
* Trachea	* Urinary Bladder		

MISSING

* Esophagus	* Mammary Gland
-------------	-----------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
	[Alveolar/Bronchiolar Adenoma TGLS = 2-12]		
* Preputial Gland		Dilatation	Marked
	[Dilatation TGLS = 1-9]		
* Salivary Glands		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 33

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-33

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Gallbladder	* 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	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Brain		Mineralization	Mild
* Kidney		Nephropathy	Mild
* Liver		Hematopoietic Cell Proliferation	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
		Inflammation	Chronic Active, Minimal
[Hepatocellular Adenoma TGLS = 2-15, 3-14]			
[Hepatocellular Carcinoma TGLS = 4-12,13]			
* Lymph Node, Mesenteric		Hematopoietic Cell Proliferation	Mild
		Hemorrhage	Marked
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Preputial Gland		Dilatation	Mild
		Inflammation	Chronic Active, Marked
* Salivary Glands		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 34

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-34

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Gallbladder	* 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	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy Mineralization	Minimal Focal, Mild Moderate
* Brain		Nephropathy	Mild
* Kidney		Hepatocellular Adenoma	
* Liver			
[Hepatocellular Adenoma TGLS = 2-12]			
* Lung		Alveolar/Bronchiolar Adenoma Infiltration Cellular Hemorrhage	Lymphocyte, Minimal Moderate
* Lymph Node, Mesenteric			
[Hemorrhage TGLS = 3-7]			
* Pancreas	Acinar Cell	Atrophy Dilatation Inflammation	Marked Moderate Chronic Active, Marked
* Preputial Gland			
[Inflammation TGLS = 1-9]			
* Salivary Glands		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 35

TRT#: 1

SEX: Male

DAY ON TEST: 227

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: MB069G-00035

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland	* Parathyroid Gland	* Pituitary Gland
-----------------	---------------------	-------------------

OBSERVATIONS

* Kidney		Inflammation	Chronic, Minimal
* Liver		Mitotic Alteration	Minimal
* Preputial Gland		Dilatation	Moderate
* Skin	Subcut Tiss	Sarcoma	
Note: SEVERAL AREAS SUGGEST LIPOSARCOMA [Sarcoma TGLS = 1-12]			
* Spleen		Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 36

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-36

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Gallbladder	* Mammary Gland
---------------	-----------------

OBSERVATIONS

* Adrenal Cortex	Capsule	Lymphoma Malignant Mixed	
* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Brain		Mineralization	Mild
* Intestine Small, Duodenum		Lymphoma Malignant Mixed	
		[Lymphoma Malignant Mixed TGLS = 4-13]	
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver		Hematopoietic Cell Proliferation	Minimal
		Hepatocellular Adenoma	
		[Hepatocellular Adenoma TGLS = 5-5]	
* Lung		Alveolar/Bronchiolar Adenoma	Multiple
		Alveolar/Bronchiolar Carcinoma	
		[Alveolar/Bronchiolar Adenoma TGLS = 2-12]	
		[Alveolar/Bronchiolar Carcinoma TGLS = 1-12]	
Lymph Node	Lumbar	Lymphoma Malignant Mixed	
		[Lymphoma Malignant Mixed TGLS = 6-14]	
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Dilatation	Moderate
		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 36	TRT#: 1 DOSE: 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: mb069g-36
----------------------	--------------------------------------	---	--

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Hematopoietic Cell Proliferation TGLS = 3-5]	Hematopoietic Cell Proliferation	Moderate
* Thymus	Lymphoma Malignant Mixed	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 37

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-37

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Lymph Node, Mandibular	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea			

MISSING

* Gallbladder	* Mammary Gland
---------------	-----------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular Extra Adr Tiss	Hyperplasia Inflammation Mineralization Lymphoma Malignant Mixed	Minimal Chronic Active, Moderate Moderate
* Brain			
* Intestine Small, Ileum			
[Lymphoma Malignant Mixed TGLS = 8-19]			
* Islets, Pancreatic		Hyperplasia Inflammation Hepatocellular Adenoma Hepatocellular Carcinoma	Mild Chronic Active, Marked Multiple
* Kidney			
* Liver			
[Hepatocellular Adenoma TGLS = 5,9-5, 4-17]			
[Hepatocellular Carcinoma TGLS = 3-12]			
* Lung		Hepatocellular Carcinoma Inflammation	Metastatic (Liver) Chronic Active, Mild
Lymph Node	Mediastinal Pancreatic	Lymphoma Malignant Mixed Lymphoma Malignant Mixed	
[Lymphoma Malignant Mixed TGLS = 7-18]			
[Lymphoma Malignant Mixed TGLS = 10-16]			
* Lymph Node, Mesenteric		Lymphoma Malignant Mixed	
[Lymphoma Malignant Mixed TGLS = 6-14]			
* Preputial Gland		Dilatation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 37	TRT#: 1 DOSE: 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: mb069g-37
----------------------	--------------------------------------	---	--

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate	Inflammation	Chronic Active, Moderate
* Spleen [Hematopoietic Cell Proliferation TGLS = 1-5,13]	Hematopoietic Cell Proliferation	Moderate
* Thymus	Atrophy	Mild
Tooth	Developmental Malformation	
* Urinary Bladder [Inflammation TGLS = 2-15]	Inflammation	Chronic Active, Marked

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 38

TRT#: 1

SEX: Male

DAY ON TEST: 456

DOSE: 0 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-38

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Gallbladder	* 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	* Pancreas	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea		

MISSING

* Blood Vessel	* Mammary Gland	* Parathyroid Gland
----------------	-----------------	---------------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Cyst	Minimal
		Nephropathy	Minimal
* Liver	Centrilobular	Fatty Change	Minimal
		Hepatocellular Adenoma	
	[Hepatocellular Adenoma TGLS = 1-5]		
* Nose	Respirat Epith	Hyperplasia	Glandular, Mild
* Preputial Gland		Dilatation	Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 39

TRT#: 1

SEX: Male

DAY ON TEST: 693

DOSE: 0 PPM

DISP: Natural Death

HISTO: MB069G-39

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Gallbladder	* Mammary Gland	* Parathyroid Gland
---------------	-----------------	---------------------

OBSERVATIONS

* Brain		Mineralization	Mild
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 2-12]			
* Lymph Node, Mesenteric		Hemorrhage	Moderate
* Pancreas	Acinar Cell	Atrophy	Mild
* Preputial Gland		Dilatation	Marked
[Dilatation TGLS = 1-9]			
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 40

TRT#: 1

SEX: Male

DAY ON TEST: 579

DOSE: 0 PPM

DISP: Natural Death

HISTO: MB069G-40

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Mammary Gland
--------------------------	-----------------

OBSERVATIONS

* Epididymis		Inflammation	Chronic Active, Mild
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
		Nephropathy	Minimal
* Lung		Lymphoma Malignant Mixed	
Lymph Node	Mediastinal	Lymphoma Malignant Mixed	
	[Lymphoma Malignant Mixed TGLS = 3-3]		
* Lymph Node, Mesenteric		Lymphoma Malignant Mixed	
	[Lymphoma Malignant Mixed TGLS = 3-3]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pancreas		Inflammation	Chronic, Minimal
	[Inflammation TGLS = 1-12]		
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Lymphoma Malignant Mixed	
	[Lymphoma Malignant Mixed TGLS = 4-5]		
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 41

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-41

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Gallbladder	* 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	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland * Thymus

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Brain		Mineralization	Mild
Harderian Gland		Adenoma	
[Adenoma TGLS = 3-12]			
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
[Clear Cell Focus TGLS = 1-5]		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 2-13]			
* Preputial Gland		Inflammation	Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 42	TRT#: 1	SEX: Male	DAY ON TEST: 729
	DOSE: 0 PPM	DISP: Terminal Sacrifice	HISTO: MB069G-42

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Gallbladder	* 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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland	* Preputial Gland	* Prostate	
-----------------	-------------------	------------	--

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Brain		Mineralization	Mild
* Kidney		Nephropathy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 43

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-43

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Brain		Mineralization	Mild
* Gallbladder		Inflammation	Chronic Active, Mild
* Kidney		Inflammation	Chronic, Minimal
		Nephropathy	Minimal
* Liver		Inflammation	Chronic Active, Minimal
		Necrosis	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Hyperplasia	Moderate
	[Alveolar/Bronchiolar Adenoma TGLS = 2-6]		
* Preputial Gland		Dilatation	Mild
		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
Tooth		Developmental Malformation	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 44

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-44

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	Eye
* Gallbladder	* 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	* Pituitary Gland
* Prostate	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Testes	* Thymus	* Thyroid Gland
* Trachea			

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
Harderian Gland		Adenoma	
[Adenoma TGLS = 7-12]			
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	Minimal
		Fatty Change	Focal, Minimal
		Hepatocellular Adenoma	Multiple
[Eosinophilic Focus TGLS = 4-13]			
[Hepatocellular Adenoma TGLS = 3-5,5-14]			
* Preputial Gland		Dilatation	Minimal
		Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 1-9]			
* Salivary Glands		Inflammation	Chronic, Minimal
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 45	TRT#: 1 DOSE: 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: mb069g-45
----------------------	--------------------------------------	---	--

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Gallbladder	* 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	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Adrenal Cortex	* Adrenal Medulla	* Mammary Gland
------------------	-------------------	-----------------

INSUFFICIENT TISSUE

* Pituitary Gland

OBSERVATIONS

* Brain	Mineralization	Moderate
* Kidney	Nephropathy	Mild
* Liver	Eosinophilic Focus	Mild
	Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 3-12,13]		
* Lung	Alveolar/Bronchiolar Adenoma	
[Alveolar/Bronchiolar Adenoma TGLS = 4-6]		
* Preputial Gland	Dilatation	Marked
[Dilatation TGLS = 1-9,9.1]		
* Spleen	Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLS = 2-5]		
* Thyroid Gland	Follicular Cel	Hyperplasia
		Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 46	TRT#: 1	SEX: Male	DAY ON TEST: 729
	DOSE: 0 PPM	DISP: Terminal Sacrifice	HISTO: MB069G-46

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Gallbladder	* Mammary Gland
---------------	-----------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Preputial Gland		Inflammation	Chronic Active, Minimal
[Inflammation TGLS = 1-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 47

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-47

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Gallbladder	* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
---------------	--------------------------	-----------------	---------------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy Mineralization	Minimal Focal, Minimal Mild
* Brain		Nephropathy	Minimal
* Kidney		Hepatocellular Adenoma	
* Liver			
Note: Gross nodule not apparent in original and 2 recut slides. [Hepatocellular Adenoma TGLS = 3-13]			
* Lung	Alveolar Epith Interstitialium	Alveolar/Bronchiolar Adenoma Hyperplasia Inflammation	Multiple Moderate Chronic Active, Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Preputial Gland		Dilatation Inflammation	Moderate Chronic Active, Minimal
[Dilatation TGLS = 1-9]			
* Prostate		Inflammation	Chronic, Minimal
* Stomach, Glandular		Inflammation	Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 48

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-48

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Nose	* Pancreas
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland	* Parathyroid Gland	* Thymus
-----------------	---------------------	----------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
		Hypertrophy	Focal, Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Focal, Minimal
		Hepatocellular Adenoma	Multiple
	[Hepatocellular Adenoma TGLS = 2-12,4-13]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Dilatation	Marked
		Inflammation	Chronic Active, Minimal
	[Dilatation TGLS = 1-14]		
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 49	TRT#: 1	SEX: Male	DAY ON TEST: 456
	DOSE: 0 PPM	DISP: Scheduled Sacrifice	HISTO: MB069G-49

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver	Centrilobular	Fatty Change	Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Preputial Gland		Dilatation	Moderate
* Prostate		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 50

TRT#: 1

SEX: Male

DAY ON TEST: 450

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: MB069G-50

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Esophagus
* Intestine Large, Rectum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Skin			

MISSING

* Intestine Large, Colon	* Mammary Gland	* Parathyroid Gland	* Thyroid Gland
* Trachea			

OBSERVATIONS

* Blood Vessel	Aorta	Lymphoma Malignant Lymphocytic
* Bone Marrow		Lymphoma Malignant Lymphocytic
* Brain		Lymphoma Malignant Lymphocytic
* Epididymis		Lymphoma Malignant Lymphocytic
* Gallbladder		Lymphoma Malignant Lymphocytic
* Heart		Lymphoma Malignant Lymphocytic
* Intestine Large, Cecum		Lymphoma Malignant Lymphocytic
* Intestine Small, Duodenum		Lymphoma Malignant Lymphocytic
* Kidney		Lymphoma Malignant Lymphocytic
	[Lymphoma Malignant Lymphocytic TGLS = 7-8]	
* Liver		Lymphoma Malignant Lymphocytic
* Lung		Lymphoma Malignant Lymphocytic
Lymph Node	Bronchial	Lymphoma Malignant Lymphocytic
	Iliac	Lymphoma Malignant Lymphocytic
	Inguinal	Lymphoma Malignant Lymphocytic
	Mediastinal	Lymphoma Malignant Lymphocytic
	[Lymphoma Malignant Lymphocytic TGLS = 6-15]	
	[Lymphoma Malignant Lymphocytic TGLS = 10-13]	
	[Lymphoma Malignant Lymphocytic TGLS = 1-14]	
	[Lymphoma Malignant Lymphocytic TGLS = 9-12]	
* Lymph Node, Mandibular		Lymphoma Malignant Lymphocytic
	[Lymphoma Malignant Lymphocytic TGLS = 2-2]	
* Lymph Node, Mesenteric		Lymphoma Malignant Lymphocytic

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 50	TRT#: 1 DOSE: 0 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 450 HISTO: MB069G-50
----------------------	--------------------------------------	---	--

ORGAN AND ACCOUNTABLE SITE STATUS

[Lymphoma Malignant Lymphocytic TGLS = 5-7]		
Mesentery	Lymphoma Malignant Lymphocytic	
* Nose	Lymphoma Malignant Lymphocytic	
* Pancreas	Lymphoma Malignant Lymphocytic	
* Pituitary Gland	Lymphoma Malignant Lymphocytic	
* Preputial Gland	Dilatation	Moderate
* Prostate	Lymphoma Malignant Lymphocytic	
* Salivary Glands	Inflammation	Chronic, Minimal
	Lymphoma Malignant Lymphocytic	
* Seminal Vesicle	Lymphoma Malignant Lymphocytic	
* Spleen	Lymphoma Malignant Lymphocytic	
[Lymphoma Malignant Lymphocytic TGLS = 3-5]		
* Stomach, Forestomach	Lymphoma Malignant Lymphocytic	
* Stomach, Glandular	Lymphoma Malignant Lymphocytic	
* Testes	Lymphoma Malignant Lymphocytic	
* Thymus	Lymphoma Malignant Lymphocytic	
[Lymphoma Malignant Lymphocytic TGLS = 8-3]		
* Urinary Bladder	Lymphoma Malignant Lymphocytic	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 51

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-51

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Gallbladder	* 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	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Hypertrophy	Focal, Mild
* Brain	Mineralization	Minimal
* Kidney	Nephropathy	Mild
* Liver	Hepatocellular Adenoma	

[Hepatocellular Adenoma TGLS = 1-12]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 52	TRT#: 1	SEX: Male	DAY ON TEST: 729
	DOSE: 0 PPM	DISP: Terminal Sacrifice	HISTO: MB069G-52

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Gallbladder	* Mammary Gland
---------------	-----------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Minimal
* Kidney		Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
	[Alveolar/Bronchiolar Adenoma TGLS = 1-12]	Infiltration Cellular	Lymphocyte, Minimal
* Preputial Gland		Dilatation	Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 53

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-53

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Gallbladder * Thymus

OBSERVATIONS

* Kidney		Inflammation	Chronic, Minimal
		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	[Hepatocellular Adenoma TGLS = 4-14,5-15]		
	[Hepatocellular Carcinoma TGLS = 6-12,13]		
* Lymph Node, Mesenteric		Hematopoietic Cell Proliferation	Mild
		Hemorrhage	Mild
	[Hemorrhage TGLS = 3-17]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[Hematopoietic Cell Proliferation TGLS = 2-5]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
Zymbal's Gland		Hypertrophy	Marked
	Note: Hypertrophy is actually dilatation (not available).		
	[Hypertrophy TGLS = 7-16]		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 54

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-54

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* 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	* Pancreas
* Pituitary Gland	* Prostate	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Esophagus	* Gallbladder	* Mammary Gland	* Parathyroid Gland
-------------	---------------	-----------------	---------------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy Mineralization	Minimal Focal, Minimal Minimal
* Brain		Inflammation	Chronic, Minimal
* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	Multiple
[Hepatocellular Adenoma TGLS = 5-15]			
* Lymph Node, Mesenteric		Hemorrhage	Mild
[Hemorrhage TGLS = 3-14]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Preputial Gland		Dilatation	Minimal
		Inflammation	Chronic Active, Minimal
* Salivary Glands		Inflammation	Chronic, Minimal
* Seminal Vesicle		Dilatation	Mild
[Dilatation TGLS = 4-9,17]			
* Spleen		Inflammation	Chronic Active, Mild
* Thymus		Lymphoma Malignant Lymphocytic	
[Lymphoma Malignant Lymphocytic TGLS = 1-12]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 55	TRT#: 1	SEX: Male	DAY ON TEST: 729
	DOSE: 0 PPM	DISP: Terminal Sacrifice	HISTO: mb069g-55

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Gallbladder	* 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
* Pancreas	* Pituitary Gland	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

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

OBSERVATIONS

* Adrenal Cortex	Hypertrophy	Focal, Mild
* Brain	Mineralization	Mild
* Kidney	Cyst	Minimal
	Inflammation	Chronic Active, Minimal
	Nephropathy	Minimal
* Preputial Gland	Dilatation	Minimal
	Inflammation	Chronic Active, Mild
* Prostate	Inflammation	Chronic, Minimal
* Salivary Glands	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 56

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-56

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Gallbladder	* 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
* Pancreas	* Prostate	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea		

MISSING

* Mammary Gland	* Parathyroid Gland	* Pituitary Gland	* Thymus
-----------------	---------------------	-------------------	----------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Hypertrophy	Focal, Minimal
* Kidney		Mineralization	Mild
		Inflammation	Chronic, Minimal
		Nephropathy	Mild
* Preputial Gland		Dilatation	Moderate
[Dilatation TGLS = 1-9]			
* Salivary Glands		Inflammation	Chronic, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 57

TRT#: 1

SEX: Male

DAY ON TEST: 456

DOSE: 0 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-57

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Gallbladder	* 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	* Pituitary Gland	* Prostate	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Brain		Mineralization	Mild
* Kidney		Inflammation	Chronic, Minimal
		Nephropathy	Minimal
* Liver		Eosinophilic Focus	Mild
	Centrilobular	Fatty Change	Minimal
* Preputial Gland		Dilatation	Moderate
		Inflammation	Chronic, Minimal
* Salivary Glands		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 58

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-58

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Gallbladder	* 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	* Prostate	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Hypertrophy	Focal, Mild
Harderian Gland		Mineralization	Mild
[Adenoma TGLS = 6-16]		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
		Fatty Change	Focal, Minimal
		Hepatocellular Adenoma	
[Eosinophilic Focus TGLS = 4-15]			
[Fatty Change TGLS = 2-14]			
[Hepatocellular Adenoma TGLS = 5-12]			
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Preputial Gland		Dilatation	Marked
		Inflammation	Chronic Active, Minimal
[Dilatation TGLS = 1-9]			
* Salivary Glands		Inflammation	Chronic, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 58

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-58

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 59	TRT#: 1 DOSE: 0 PPM	SEX: Male DISP: Scheduled Sacrifice	DAY ON TEST: 456 HISTO: MB069G-59
----------------------	--------------------------------------	--	--

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Epididymis	* Esophagus	* Gallbladder
* 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
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Brain		Mineralization	Mild
* Liver		Basophilic Focus	Mild
	Centrilobular	Fatty Change	Mild
[Basophilic Focus TGLS = 1-12]			
* Preputial Gland		Dilatation	Moderate
		Inflammation	Chronic, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 60	TRT#: 1	SEX: Male	DAY ON TEST: 730
	DOSE: 0 PPM	DISP: Terminal Sacrifice	HISTO: mb069g-60

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* 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	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea		

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Mild
* Epididymis		Inflammation	Chronic Active, Minimal
* Kidney		Nephropathy	Mild
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Preputial Gland		Dilatation	Marked
[Dilatation TGLS = 1-9]			
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Inflammation	Chronic, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 61	TRT#: 3	SEX: Male	DAY ON TEST: 396
	DOSE: 750 PPM	DISP: Natural Death	HISTO: MB069G-61

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Gallbladder
* 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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland

OBSERVATIONS

* Epididymis		Inflammation	Chronic Active, Minimal
* Liver	Centrilobular	Fatty Change	Mild
		Hepatocellular Carcinoma	
	[Hepatocellular Carcinoma TGLS = 1-12]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
* Salivary Glands		Inflammation	Chronic, Minimal
* Thymus		Necrosis	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 62	TRT#: 3	SEX: Male	DAY ON TEST: 729
	DOSE: 750 PPM	DISP: Terminal Sacrifice	HISTO: mb069g-62

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Gallbladder	* Mammary Gland	* Parathyroid Gland	* Thymus
---------------	-----------------	---------------------	----------

OBSERVATIONS

* Adrenal Cortex	Hypertrophy	Focal, Mild
* Brain	Mineralization	Mild
* Kidney	Inflammation	Chronic, Minimal
* Liver	Basophilic Focus	
	Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 3-12,13]		
* Lung	Hepatocellular Carcinoma	Metastatic (Liver)
* Lymph Node, Mesenteric	Hemorrhage	Mild
* Preputial Gland	Dilatation	Mild
	Inflammation	Chronic, Mild
* Prostate	Inflammation	Chronic, Minimal
* Salivary Glands	Inflammation	Chronic, Moderate
* Spleen	Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLS = 4-5]		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 63	TRT#: 3	SEX: Male	DAY ON TEST: 456
	DOSE: 750 PPM	DISP: Scheduled Sacrifice	HISTO: MB069G-63

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Epididymis	* Esophagus	* Gallbladder
* 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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Brain		Mineralization	Minimal
* Liver	Centrilobular	Fatty Change	Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Preputial Gland		Dilatation	Moderate
* Skin		Inflammation	Chronic Active, Minimal
* Spleen		Hyperplasia	Reticulum Cell, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 64	TRT#: 3	SEX: Male	DAY ON TEST: 456
	DOSE: 750 PPM	DISP: Scheduled Sacrifice	HISTO: MB069G-64

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Liver	Centrilobular	Fatty Change	Minimal
		Hepatocellular Adenoma	
	[Hepatocellular Adenoma TGLS = 1-5]		
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Preputial Gland		Dilatation	Mild
		Inflammation	Chronic, Mild
* Salivary Glands		Inflammation	Chronic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 65

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-65

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	Mild
		Hepatocellular Adenoma	Multiple
[Hepatocellular Adenoma TGLS = 2,3-5]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Dilatation	Moderate
		Inflammation	Chronic Active, Mild
[Dilatation TGLS = 1-9]			
* Salivary Glands		Inflammation	Chronic, Minimal
* Stomach, Glandular		Dilatation	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 66	TRT#: 3	SEX: Male	DAY ON TEST: 697
	DOSE: 750 PPM	DISP: Natural Death	HISTO: MB069G-66

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Gallbladder	* Mammary Gland
---------------	-----------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Inflammation	Chronic, Minimal
		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
		[Hepatocellular Adenoma TGLS = 2-5,5.1]	
* Lymph Node, Mesenteric		Hyperplasia	Histiocytic, Mild
* Preputial Gland		Dilatation	Mild
* Seminal Vesicle		Dilatation	Moderate
		[Dilatation TGLS = 4-12]	
* Thymus		Atrophy	Moderate
Tooth		Developmental Malformation	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 67

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-67

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Gallbladder	* 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
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Brain		Mineralization	Minimal
* Kidney		Metaplasia	Osseous, Minimal
		Nephropathy	Minimal
* Liver	Centrilobular	Fatty Change	Minimal
		Infarct	Marked
[Infarct TGLS = 2-12]			
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Preputial Gland		Dilatation	Marked
[Dilatation TGLS = 1-9]			
* Testes	Interstit Cell	Adenoma	
* Thymus		Cyst	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 68	TRT#: 3	SEX: Male	DAY ON TEST: 731
	DOSE: 750 PPM	DISP: Terminal Sacrifice	HISTO: mb069g-68

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Gallbladder	* Mammary Gland
---------------	-----------------

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Preputial Gland		Dilatation	Mild
		Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 69 **TRT#:** 3 **SEX:** Male **DAY ON TEST:** 731
DOSE: 750 PPM **DISP:** Terminal Sacrifice **HISTO:** mb069-69

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Gallbladder	* 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	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Esophagus	* Mammary Gland
-------------	-----------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Adenoma Hypertrophy Mineralization Inflammation Nephropathy Clear Cell Focus Eosinophilic Focus Fatty Change Hepatocellular Adenoma	Focal, Marked Mild Chronic Active, Minimal Mild Focal, Minimal
* Brain			
* Epididymis			
* Kidney			
* Liver			
[Clear Cell Focus TGLS = 3-12]			
[Fatty Change TGLS = 3-12]			
[Hepatocellular Adenoma TGLS = 2-13]			
* Lung		Infiltration Cellular Inflammation	Lymphocyte, Mild Chronic Active, Mild
[Inflammation TGLS = 4-14,5-15]			
* Preputial Gland		Dilatation Inflammation	Mild Chronic Active, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 69

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: mb069-69

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 70

TRT#: 3

SEX: Male

DAY ON TEST: 603

DOSE: 750 PPM

DISP: Natural Death

HISTO: MB069G-70

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Pancreas	* Pituitary Gland	* Preputial Gland
* Prostate	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Trachea	

MISSING

* Mammary Gland	* Parathyroid Gland	* Thymus
-----------------	---------------------	----------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Mild
* Gallbladder		Degeneration	Hyaline, Mild
		Inflammation	Chronic, Minimal
* Kidney		Inflammation	Chronic, Minimal
		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 1-5]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Salivary Glands		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
		Inflammation	Chronic Active, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:07
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 71

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-71

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Gallbladder	* 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	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

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

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy Mineralization Adenoma	Minimal Focal, Minimal Minimal
* Brain Harderian Gland			
[Adenoma TGLS = 3-14]			
* Kidney		Cyst	Mild
* Liver		Hepatocellular Adenoma Inflammation	Chronic Active, Minimal
[Hepatocellular Adenoma TGLS = 1-13]			
* Lung	Alveolar Epith	Alveolar/Bronchiolar Adenoma Hyperplasia	Mild
[Alveolar/Bronchiolar Adenoma TGLS = 2-12]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pancreas	Acinar Cell	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Preputial Gland		Dilatation	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 72

TRT#: 3

SEX: Male

DAY ON TEST: 456

DOSE: 750 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-72

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea			

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Inflammation	Chronic, Mild
* Liver	Centrilobular	Fatty Change	Mild
* Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Lymphocyte, Minimal
* Preputial Gland		Dilatation	Moderate
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Inflammation	Chronic, Minimal
* Thymus		Hyperplasia	Lymphoid, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 73

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-73

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* Heart	* 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	* Prostate	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mesenteric	* Mammary Gland	* Thymus
--------------------------	-----------------	----------

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Lung	Alveolar Epith	Hyperplasia Inflammation	Marked Chronic Active, Moderate
[Hyperplasia TGLS = 3-6]			
[Inflammation TGLS = 3-6]			
* Nose	Olfactory Epi	Degeneration Dilatation	Hyaline, Minimal Moderate
* Preputial Gland			
[Dilatation TGLS = 1-12]			
* Salivary Glands		Inflammation	Chronic, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 74	TRT#: 3	SEX: Male	DAY ON TEST: 730
	DOSE: 750 PPM	DISP: Terminal Sacrifice	HISTO: MB069G-74

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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
* Pancreas	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

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

OBSERVATIONS

* Kidney	Metaplasia	Osseous, Minimal
	Nephropathy	Minimal
* Liver	Inflammation	Chronic Active, Minimal
* Lymph Node, Mesenteric	Granuloma	Minimal
	Hyperplasia	Lymphoid, Mild
* Preputial Gland	Dilatation	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 75	TRT#: 3	SEX: Male	DAY ON TEST: 730
	DOSE: 750 PPM	DISP: Terminal Sacrifice	HISTO: MB069G-75

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland	* Thymus
-----------------	----------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Kidney		Inflammation	Chronic, Minimal
		Nephropathy	Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Preputial Gland		Inflammation	Chronic Active, Moderate
* Prostate		Inflammation	Chronic, Minimal
* Skin	Epidermis	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 76

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-76

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Skin	* Stomach, Forestomach	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Adrenal Cortex	* Adrenal Medulla	* Mammary Gland
------------------	-------------------	-----------------

OBSERVATIONS

* Brain		Mineralization	Minimal
* Kidney		Cyst	Mild
		Inflammation	Chronic, Minimal
		Nephropathy	Mild
* Liver		Eosinophilic Focus	Mild
[Eosinophilic Focus TGLS = 2-5]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Respirat Epith	Proliferation Connective Tissue	Moderate
* Preputial Gland		Inflammation	Chronic Active, Marked
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Inflammation	Chronic, Minimal
* Seminal Vesicle		Dilatation	Minimal
[Dilatation TGLS = 1-12]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
Tooth		Developmental Malformation	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 77	TRT#: 3	SEX: Male	DAY ON TEST: 716
	DOSE: 750 PPM	DISP: Moribund Sacrifice	HISTO: MB069G-77

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Epididymis
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Nose	* Pancreas	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Trachea

MISSING

* Esophagus	* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
* Thymus			

INSUFFICIENT TISSUE

* Adrenal Cortex	* Adrenal Medulla
------------------	-------------------

OBSERVATIONS

* Brain		Mineralization	Minimal
* Gallbladder		Dilatation	Mild
[Dilatation TGLS = 3-5]			
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Moderate
* Liver		Cyst	Marked
		Hepatocellular Carcinoma	
		Infarct	Mild
		Necrosis	Moderate
[Cyst TGLS = 5-5]			
[Hepatocellular Carcinoma TGLS = 4-5]			
[Infarct TGLS = 4-5]			
Lymph Node	Mediastinal	Histiocytic Sarcoma	
[Histiocytic Sarcoma TGLS = 6-12]			
* Lymph Node, Mesenteric		Hemorrhage	Mild
		Histiocytic Sarcoma	
[Histiocytic Sarcoma TGLS = 8-13]			
* Preputial Gland		Dilatation	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 77	TRT#: 3 DOSE: 750 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 716 HISTO: MB069G-77
----------------------	--	---	--

ORGAN AND ACCOUNTABLE SITE STATUS

[Dilatation TGLS = 2-9,9.1] * Spleen		Hematopoietic Cell Proliferation Histiocytic Sarcoma	Marked
[Hematopoietic Cell Proliferation TGLS = 9-5] * Thyroid Gland * Urinary Bladder	Follicular Cel	Hyperplasia Infiltration Cellular	Focal, Mild Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 78	TRT#: 3	SEX: Male	DAY ON TEST: 731
	DOSE: 750 PPM	DISP: Terminal Sacrifice	HISTO: MB069G-78

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Pituitary Gland	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland	* Parathyroid Gland	* Thymus
-----------------	---------------------	----------

OBSERVATIONS

* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	[Hepatocellular Adenoma TGLS = 8-17,9-18]		
	[Hepatocellular Carcinoma TGLS = 7-13,14]		
* Lung		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Lymphocyte, Minimal
	[Alveolar/Bronchiolar Adenoma TGLS = 10-6]		
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLS = 3-12]		
* Preputial Gland		Inflammation	Chronic Active, Mild
	[Inflammation TGLS = 1-15]		
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Inflammation	Chronic, Minimal
* Seminal Vesicle		Dilatation	Moderate
	[Dilatation TGLS = 2-16]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
Tooth		Developmental Malformation	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 78

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-78

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 79

TRT#: 3

SEX: Male

DAY ON TEST: 725

DOSE: 750 PPM

DISP: Natural Death

HISTO: MB069G-79

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Pancreas
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
--------------------------	-----------------	---------------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
		Hypertrophy	Focal, Mild
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Nephropathy	Mild
* Liver		Eosinophilic Focus	Moderate
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
		[Hepatocellular Adenoma TGLS = 2-5]	
		[Hepatocellular Carcinoma TGLS = 1-12]	
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 80

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-80

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy	Minimal Focal, Mild
* Kidney		Inflammation Nephropathy	Chronic, Minimal Minimal
* Liver		Hepatocellular Adenoma	Multiple
[Hepatocellular Adenoma TGLS = 4-15, 2-12]			
Mesentery	Fat	Necrosis	Marked
[Necrosis TGLS = 5-16]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic Active, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
* Urinary Bladder		Dilatation	Mild
[Dilatation TGLS = 1-13]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 81

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-81

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Adrenal Medulla	* Gallbladder	* Mammary Gland
-------------------	---------------	-----------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
		Hypertrophy	Focal, Mild
* Brain		Mineralization	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Hepatocellular Adenoma	Multiple
		[Clear Cell Focus TGLS = 2-5,5.1]	
		[Hepatocellular Adenoma TGLS = 1,2-5,5.1]	
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Lymph Node, Mesenteric		Hematopoietic Cell Proliferation	Minimal
		Hemorrhage	Mild
* Preputial Gland		Inflammation	Chronic Active, Mild
* Thyroid Gland	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 82	TRT#: 3	SEX: Male	DAY ON TEST: 731
	DOSE: 750 PPM	DISP: Terminal Sacrifice	HISTO: MB069G-82

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lymph Node, Mandibular	* Nose
* Pancreas	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Intestine Large, Colon	* Mammary Gland	* Parathyroid Gland	* Pituitary Gland
--------------------------	-----------------	---------------------	-------------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Epididymis		Hypertrophy	Focal, Minimal
* Intestine Small, Ileum		Inflammation	Chronic Active, Minimal
		Hyperplasia	Plasma Cell, Mild
		Lymphoma Malignant Mixed	
		[Hyperplasia TGLS = 2-12]	
		[Lymphoma Malignant Mixed TGLS = 2-12, 3-17]	
* Kidney		Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
		[Alveolar/Bronchiolar Adenoma TGLS = 6-15]	
* Lymph Node, Mesenteric		Lymphoma Malignant Mixed	
		[Lymphoma Malignant Mixed TGLS = 4-14]	
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic, Minimal
* Spleen		Lymphoma Malignant Mixed	
		[Lymphoma Malignant Mixed TGLS = 1-5]	
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 83	TRT#: 3	SEX: Male	DAY ON TEST: 729
	DOSE: 750 PPM	DISP: Terminal Sacrifice	HISTO: MB069G-83

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Mammary Gland
--------------------------	-----------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
		Hypertrophy	Focal, Minimal
* Brain		Mineralization	Minimal
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
	[Hepatocellular Adenoma TGLS = 1-5]		
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 84	TRT#: 3	SEX: Male	DAY ON TEST: 474
	DOSE: 750 PPM	DISP: Natural Death	HISTO: mb069g-84

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Brain	Mineralization	Mild
* Kidney	Nephropathy	Minimal
* Liver	Hepatocellular Adenoma	
	Necrosis	Mild
[Hepatocellular Adenoma TGLS = 1-12]		
* Lung	Alveolar/Bronchiolar Adenoma	
	Alveolar/Bronchiolar Carcinoma	
[Alveolar/Bronchiolar Carcinoma TGLS = 2-6]		
* Nose	Olfactory Epi	Hyaline, Mild
* Preputial Gland	Dilatation	Mild
* Spleen	Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 85	TRT#: 3	SEX: Male	DAY ON TEST: 731
	DOSE: 750 PPM	DISP: Terminal Sacrifice	HISTO: MB069G-85

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Hypertrophy	Focal, Mild
* Brain	Mineralization	Minimal
* Islets, Pancreatic	Hyperplasia	Minimal
* Kidney	Nephropathy	Mild
* Liver	Basophilic Focus	
[Basophilic Focus TGLS = 3-12]		
* Lymph Node, Mesenteric	Hemorrhage	Minimal
* Preputial Gland	Inflammation	Chronic Active, Mild
* Prostate	Inflammation	Chronic, Minimal
* Seminal Vesicle	Dilatation	Mild
[Dilatation TGLS = 2-13]		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 86	TRT#: 3	SEX: Male	DAY ON TEST: 729
	DOSE: 750 PPM	DISP: Terminal Sacrifice	HISTO: MB069G-86

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
[Alveolar/Bronchiolar Adenoma TGLS = 2-13.1]			
* Lymph Node, Mesenteric		Hematopoietic Cell Proliferation	Minimal
		Hemorrhage	Mild
* Salivary Glands		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Histiocytic Sarcoma	
[Histiocytic Sarcoma TGLS = 1-12]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 87

TRT#: 3

SEX: Male

DAY ON TEST: 456

DOSE: 750 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-87

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Inflammation	Chronic, Minimal
		Nephropathy	Mild
* Liver	Centrilobular	Fatty Change	Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Respirat Epith	Degeneration	Hyaline, Minimal
* Preputial Gland		Dilatation	Moderate
		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Inflammation	Chronic, Minimal
* Thymus		Hyperplasia	Lymphoid, Mild
Tooth		Developmental Malformation	

[Developmental Malformation TGLS = 1-10]

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 88

TRT#: 3

SEX: Male

DAY ON TEST: 559

DOSE: 750 PPM

DISP: Moribund Sacrifice

HISTO: MB069G-88

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland * Thymus

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Kidney	Capsule	Fibrosis	Mild
	Renal Tubule	Necrosis	Mild
* Liver		Hemangiosarcoma	
		Hepatocellular Adenoma	
		Necrosis	Moderate
		[Hemangiosarcoma TGLS = 7-5]	
		[Hepatocellular Adenoma TGLS = 8-12]	
		[Necrosis TGLS = 6-5]	
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Preputial Gland		Dilatation	Marked
* Skin	Subcut Tiss	Edema	Moderate
		[Edema TGLS = 2-7]	
* Spleen		Hematopoietic Cell Proliferation	Marked
		[Hematopoietic Cell Proliferation TGLS = 5-5]	
* Stomach, Glandular		Necrosis	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 89	TRT#: 3	SEX: Male	DAY ON TEST: 730
	DOSE: 750 PPM	DISP: Terminal Sacrifice	HISTO: mb069g-89

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Gallbladder	* 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	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy	Minimal Focal, Mild
* Brain		Mineralization	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 2-16]			
* Lymph Node, Mesenteric		Hematopoietic Cell Proliferation	Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Inflammation	Chronic, Minimal
* Seminal Vesicle		Dilatation	Mild
[Dilatation TGLS = 1-12]			
Tooth		Developmental Malformation	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 90	TRT#: 3	SEX: Male	DAY ON TEST: 724
	DOSE: 750 PPM	DISP: Accidentally Killed	HISTO: MB069G-90

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland	* Thymus
-----------------	----------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Kidney		Nephropathy	Moderate
* Preputial Gland		Dilatation	Moderate
* Salivary Glands		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 91

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-91

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lung	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Trachea			

MISSING

* Gallbladder	* Lymph Node, Mandibular	* Mammary Gland
---------------	--------------------------	-----------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy Mineralization	Minimal Focal, Minimal Mild
* Brain		Hyperplasia	Minimal
* Islets, Pancreatic		Inflammation	Chronic, Minimal
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus Hepatocellular Adenoma Inflammation Mixed Cell Focus	Multiple Chronic Active, Minimal
[Hepatocellular Adenoma TGLS = 3-12,4-15]			
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Preputial Gland		Dilatation	Marked
[Dilatation TGLS = 1-13]			
* Salivary Glands		Inflammation	Chronic, Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
Tooth		Developmental Malformation	
* Urinary Bladder		Dilatation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 91

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-91

ORGAN AND ACCOUNTABLE SITE STATUS

[Dilatation TGLS = 2-14]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 92 TRT#: 3 SEX: Male DAY ON TEST: 731
DOSE: 750 PPM DISP: Terminal Sacrifice HISTO: MB069G-92

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Kidney		Nephropathy	Minimal
* Liver	Centrilobular	Fatty Change	Minimal
		Fatty Change	Focal, Minimal
[Fatty Change TGLS = 1-12]			
* Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Preputial Gland		Dilatation	Minimal
		Inflammation	Chronic Active, Minimal
* Thyroid Gland	Follicular Cel	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 93	TRT#: 3	SEX: Male	DAY ON TEST: 729
	DOSE: 750 PPM	DISP: Terminal Sacrifice	HISTO: MB069G-93

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Nose	* Pancreas
* Pituitary Gland	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland	* Parathyroid Gland	* Thymus
-----------------	---------------------	----------

OBSERVATIONS

* Adrenal Cortex	Hypertrophy	Focal, Mild
* Islets, Pancreatic	Hyperplasia	Mild
* Kidney	Nephropathy	Minimal
* Liver	Eosinophilic Focus	Minimal
	Hepatocellular Adenoma	Multiple
[Hepatocellular Adenoma TGLS = 1-12,2-13]		
* Preputial Gland	Dilatation	Minimal
* Prostate	Inflammation	Chronic, Minimal
* Salivary Glands	Inflammation	Chronic, Minimal
* Spleen	Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 94

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-94

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Mild
* Kidney		Nephropathy	Mild
* Liver	Centrilobular	Fatty Change	Minimal
		Fatty Change	Focal, Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Preputial Gland		Dilatation	Mild
		Inflammation	Chronic Active, Mild
[Dilatation TGLS = 1-9]			
* Prostate		Inflammation	Chronic, Minimal
* Seminal Vesicle		Dilatation	Mild
[Dilatation TGLS = 2-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 95

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-95

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Islets, Pancreatic		Hyperplasia	Moderate
* Kidney		Nephropathy	Mild
* Liver		Eosinophilic Focus	Minimal
		Hepatocellular Adenoma	
	[Eosinophilic Focus TGLS = 1-13]		
	[Hepatocellular Adenoma TGLS = 2-12]		
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Preputial Gland		Dilatation	Mild
		Inflammation	Chronic Active, Minimal
* Salivary Glands		Inflammation	Chronic, Minimal
* Thyroid Gland	Follicle	Cyst	Mild
	Follicular Cel	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 96

TRT#: 3

SEX: Male

DAY ON TEST: 456

DOSE: 750 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-96

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Gallbladder	* Mammary Gland
---------------	-----------------

OBSERVATIONS

* Brain		Mineralization	Minimal
* Kidney		Nephropathy	Minimal
* Liver	Centrilobular	Fatty Change	Mild
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Respirat Epith	Degeneration	Hyaline, Minimal
* Preputial Gland		Dilatation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 97

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-97

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Gallbladder	* 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	* Pituitary Gland	* Prostate
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Testes	* Thymus	* Trachea	* Urinary Bladder

MISSING

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

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Minimal
Harderian Gland		Adenoma	
[Adenoma TGLS = 6-17]			
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	Minimal
[Hepatocellular Adenoma TGLS = 4-12,5-16]		Hepatocellular Adenoma	Multiple
Mesentery	Fat	Necrosis	Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pancreas	Acinar Cell	Atrophy	Marked
[Cyst TGLS = 3-15]	Duct	Cyst	Marked
* Preputial Gland		Dilatation	Mild
[Dilatation TGLS = 1-13]		Inflammation	Chronic Active, Mild
* Salivary Glands		Inflammation	Chronic, Minimal
Skeletal Muscle		Inflammation	Chronic, Minimal
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 97

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-97

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 98

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-98

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Gallbladder	* Mammary Gland	* Parathyroid Gland
---------------	-----------------	---------------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Kidney		Inflammation	Chronic, Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
	Centrilobular	Fatty Change	Minimal
		Hepatocellular Adenoma	Multiple
[Hepatocellular Adenoma TGLS = 2-12]			
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Preputial Gland		Dilatation	Mild
* Salivary Glands		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 99

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-99

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland * Thymus

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy Nephropathy Inflammation	Minimal Focal, Minimal Mild Chronic Active, Minimal
* Kidney		Alveolar/Bronchiolar Adenoma	
* Liver		Infiltration Cellular	Lymphocyte, Mild
* Lung		Abscess Dilatation Inflammation	Marked Moderate Chronic Active, Minimal
* Preputial Gland			
[Abscess TGLS = 1-12]			
* Skin	Subcut Tiss	Abscess	Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 100

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-100

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Gallbladder	* Heart
* 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
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Brain		Mineralization	Minimal
* Kidney		Nephropathy	Minimal
* Liver	Centrilobular	Fatty Change	Minimal
* Lung		Alveolar/Bronchiolar Carcinoma	
	[Alveolar/Bronchiolar Carcinoma TGLS = 2-6]		
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Preputial Gland		Dilatation	Minimal
		Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Chronic, Minimal
* Skin	Epidermis	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 101	TRT#: 3	SEX: Male	DAY ON TEST: 566
	DOSE: 750 PPM	DISP: Moribund Sacrifice	HISTO: MB069G-101

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Gallbladder	* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Minimal
* Liver		Mitotic Alteration	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Prostate		Inflammation	Chronic, Minimal
* Skin	Subcut Tiss	Sarcoma	
[Sarcoma TGLS = 1-12]			
* Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 102

TRT#: 3

SEX: Male

DAY ON TEST: 456

DOSE: 750 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-102

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* Heart	* 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
* Pituitary Gland	* Prostate	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	

MISSING

* Lymph Node, Mandibular	* Mammary Gland
--------------------------	-----------------

OBSERVATIONS

* Kidney		Inflammation	Chronic, Mild
* Liver	Centrilobular	Fatty Change	Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Preputial Gland		Dilatation	Mild
* Salivary Glands		Inflammation	Chronic, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 103

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-103

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Gallbladder

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy Adenoma	Minimal Focal, Minimal
Harderian Gland			
[Adenoma TGLS = 3-13]			
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
[Alveolar/Bronchiolar Adenoma TGLS = 2-6]			
* Salivary Glands		Inflammation	Chronic, Minimal
* Skin		Inflammation	Chronic Active, Mild
[Inflammation TGLS = 1-12]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 104

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-104

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

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

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Brain		Mineralization	Minimal
* Kidney		Inflammation	Chronic, Minimal
		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
		[Hepatocellular Adenoma TGLS = 2-12]	
		[Hepatocellular Carcinoma TGLS = 1-13,14]	
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Preputial Gland		Dilatation	Mild
* Salivary Glands		Inflammation	Chronic, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 105 **TRT#:** 3 **SEX:** Male **DAY ON TEST:** 633
DOSE: 750 PPM **DISP:** Moribund Sacrifice **HISTO:** MB069G-105

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland * Thymus

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Kidney		Nephropathy	Mild
		Pigmentation	Moderate
* Liver		Hepatoblastoma	
		Infarct	Mild
		[Hepatoblastoma TGLS = 4-12,13]	
		[Infarct TGLS = 4-12,13]	
* Preputial Gland		Dilatation	Moderate
* Spleen		Hematopoietic Cell Proliferation	Marked
		[Hematopoietic Cell Proliferation TGLS = 1-5]	
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 106	TRT#: 3 DOSE: 750 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 731 HISTO: mb069g-106
-----------------------	--	---	---

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland	* Prostate	* Thymus
-----------------	------------	----------

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Centrilobular	Fatty Change	Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Preputial Gland		Dilatation	Minimal
		Inflammation	Chronic Active, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 107

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-107

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea			

MISSING

* Gallbladder	* Mammary Gland	* Thymus
---------------	-----------------	----------

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	Moderate
		Hepatocellular Adenoma	Multiple
	[Eosinophilic Focus TGLS = 3-14]		
	[Hepatocellular Adenoma TGLS = 2-12,4-14,5-15]		
* Lung	Interstitium	Inflammation	Chronic Active, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Preputial Gland		Dilatation	Minimal
		Inflammation	Chronic Active, Minimal
* Salivary Glands		Inflammation	Chronic, Minimal
* Seminal Vesicle		Dilatation	Mild
	[Dilatation TGLS = 1-13]		
Tooth		Developmental Malformation	
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 108

TRT#: 3
DOSE: 750 PPM

SEX: Male
DISP: Natural Death

DAY ON TEST: 8
HISTO: MB069G-108

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland	* Thymus
-----------------	----------

OBSERVATIONS

* Bone Marrow	Congestion	Marked
---------------	------------	--------

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 109

TRT#: 3
DOSE: 750 PPM

SEX: Male
DISP: Scheduled Sacrifice

DAY ON TEST: 456
HISTO: MB069G-109

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Epididymis	* Esophagus	* Gallbladder
* 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	* Prostate	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea

MISSING

* Mammary Gland

OBSERVATIONS

* Brain		Mineralization	Minimal
* Kidney		Inflammation	Chronic, Minimal
* Liver	Centrilobular	Fatty Change	Mild
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Preputial Gland		Dilatation	Minimal
* Salivary Glands		Inflammation	Chronic, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 110

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-110

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Prostate	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Hepatocellular Adenoma	
Note: Liver trim notes are in error. [Clear Cell Focus TGLS = 2-5.1] [Hepatocellular Adenoma TGLS = 1-12]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Preputial Gland		Dilatation	Minimal
* Salivary Glands		Inflammation	Chronic, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 111

TRT#: 3
DOSE: 750 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 731
HISTO: mb069g-111

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Gallbladder	* Mammary Gland
---------------	-----------------

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	Mild
		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Preputial Gland		Dilatation	Mild
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
Tooth		Developmental Malformation	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 112

TRT#: 3

SEX: Male

DAY ON TEST: 622

DOSE: 750 PPM

DISP: Natural Death

HISTO: MB069G-112

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

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

OBSERVATIONS

* Kidney		Hepatocellular Carcinoma Nephropathy	Metastatic (Liver) Minimal
* Liver		Hepatocellular Adenoma Hepatocellular Carcinoma Pigmentation	Mild
	[Hepatocellular Adenoma TGLS = 2-5]		
	[Hepatocellular Carcinoma TGLS = 4-12]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
	[Hepatocellular Carcinoma TGLS = 3-6]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pancreas	Artery	Inflammation	Chronic Active, Moderate
* Preputial Gland		Dilatation	Moderate
* Spleen		Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 113

TRT#: 3
DOSE: 750 PPM

SEX: Male
DISP: Scheduled Sacrifice

DAY ON TEST: 456
HISTO: MB069G-113

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Epididymis	* Esophagus	* Gallbladder
* 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	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea			

MISSING

* Mammary Gland

OBSERVATIONS

* Brain		Mineralization	Minimal
* Kidney		Nephropathy	Minimal
* Liver	Centrilobular	Fatty Change	Mild
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Preputial Gland		Dilatation	Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 114	TRT#: 3	SEX: Male	DAY ON TEST: 731
	DOSE: 750 PPM	DISP: Terminal Sacrifice	HISTO: mb069g-114

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland	* Thymus
-----------------	----------

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Brain		Mineralization	Minimal
* Epididymis		Inflammation	Chronic Active, Minimal
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	Multiple
[Hepatocellular Adenoma TGLS = 1,2-12]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Preputial Gland		Dilatation	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 115

TRT#: 3

SEX: Male

DAY ON TEST: 456

DOSE: 750 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-115

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea		

MISSING

* Intestine Large, Colon	* Mammary Gland
--------------------------	-----------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Kidney		Inflammation	Chronic, Mild
		Nephropathy	Minimal
* Liver	Centrilobular	Fatty Change	Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Preputial Gland		Inflammation	Chronic, Minimal
* Salivary Glands		Inflammation	Chronic, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 116	TRT#: 3	SEX: Male	DAY ON TEST: 730
	DOSE: 750 PPM	DISP: Terminal Sacrifice	HISTO: mb069g-116

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Mammary Gland
--------------------------	-----------------

OBSERVATIONS

* Kidney		Metaplasia	Osseous, Minimal
		Nephropathy	Minimal
* Preputial Gland		Dilatation	Marked
[Dilatation TGLS = 1-12]			
* Salivary Glands		Inflammation	Chronic, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 117

TRT#: 3
DOSE: 750 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO: mb069g-117

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Gallbladder	* 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	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

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

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
		Hypertrophy	Focal, Minimal
* Brain		Mineralization	Minimal
* Kidney		Nephropathy	Minimal
* Liver	Centrilobular	Fatty Change	Minimal
* Lung	Interstitium	Inflammation	Chronic Active, Mild
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Preputial Gland		Dilatation	Marked
		Inflammation	Chronic Active, Mild

[Dilatation TGLS = 1-12]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 118

TRT#: 3

SEX: Male

DAY ON TEST: 456

DOSE: 750 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-118

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Brain	* Mammary Gland
---------	-----------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Inflammation	Chronic, Minimal
* Liver	Centrilobular	Fatty Change	Mild
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Preputial Gland		Dilatation	Moderate
		Inflammation	Chronic, Minimal

[Dilatation TGLS = 1-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 119

TRT#: 3
DOSE: 750 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO: mb069g-119

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland * Thymus

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy Adenoma	Minimal Focal, Minimal
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Inflammation Nephropathy	Chronic, Minimal Mild
* Liver		Eosinophilic Focus Fatty Change Hepatocellular Adenoma	Focal, Minimal
[Hepatocellular Adenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Preputial Gland		Dilatation Inflammation	Mild Chronic Active, Minimal
* Salivary Glands		Inflammation	Chronic, Minimal
* Stomach, Forestomach		Hyperplasia Inflammation	Minimal Chronic Active, Minimal
Tooth		Developmental Malformation	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 120

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-120

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Nose	* Pancreas	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
--------------------------	-----------------	---------------------

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Brain		Mineralization	Mild
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 1-12]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Marked
* Preputial Gland		Dilatation	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 121	TRT#: 5	SEX: Male	DAY ON TEST: 731
	DOSE: 1500 PPM	DISP: Terminal Sacrifice	HISTO: MB069G-121

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Minimal
* Kidney		Nephropathy	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Preputial Gland		Dilatation	Marked
[Dilatation TGLS = 2-9]			
* Thymus		Ectopic Parathyroid Gland	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 122

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-122

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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
* Pituitary Gland	* Preputial Gland	* Prostate	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mesenteric	* Mammary Gland
--------------------------	-----------------

OBSERVATIONS

* Heart	Fibrosis	Minimal
* Kidney	Inflammation	Chronic, Minimal
	Nephropathy	Mild
* Liver	Hepatocellular Adenoma	
	Hepatocellular Carcinoma	
	[Hepatocellular Adenoma TGLS = 2-12]	
	[Hepatocellular Carcinoma TGLS = 1-13,14]	
* Lung	Hepatocellular Carcinoma	Metastatic (Liver)
* Salivary Glands	Inflammation	Chronic, Minimal
* Thyroid Gland	Follicular Cel Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 123

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-123

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Mild
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Preputial Gland		Dilatation	Moderate
* Prostate		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Mild
		Ectopic Parathyroid Gland	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 124

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-124

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy Mineralization	Minimal Focal, Minimal Minimal
* Brain		Hyperplasia	Minimal
* Islets, Pancreatic		Nephropathy	Minimal
* Kidney		Hepatocellular Adenoma	
* Liver			
[Hepatocellular Adenoma TGLS = 1-12]			
* Lung		Infiltration Cellular	Lymphocyte, Mild
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Preputial Gland		Dilatation	Mild
* Salivary Glands		Inflammation	Chronic, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 125	TRT#: 5	SEX: Male	DAY ON TEST: 729
	DOSE: 1500 PPM	DISP: Terminal Sacrifice	HISTO: mb069g-125

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Gallbladder	* Mammary Gland
---------------	-----------------

OBSERVATIONS

* Brain	Mineralization	Minimal
* Kidney	Nephropathy	Minimal
* Lung	Alveolar/Bronchiolar Adenoma	Multiple
[Alveolar/Bronchiolar Adenoma TGLS = 2-12,3-13]		
* Lymph Node, Mesenteric	Hemorrhage	Minimal
* Preputial Gland	Dilatation	Marked
[Dilatation TGLS = 1-9]		
* Prostate	Inflammation	Chronic, Minimal
* Salivary Glands	Inflammation	Chronic, Minimal
* Thyroid Gland	Follicular Cel Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 126

TRT#: 5

SEX: Male

DAY ON TEST: 9

DOSE: 1500 PPM

DISP: Moribund Sacrifice

HISTO: MB069G-126

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Preputial Gland		Dilatation	Mild
* Stomach, Glandular		Necrosis	Minimal
* Testes	Seminif Tub	Degeneration	Minimal
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 127

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-127

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy	Mild Focal, Minimal
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus Hepatocellular Adenoma	Moderate
		[Eosinophilic Focus TGLS = 3-14]	
		[Hepatocellular Adenoma TGLS = 2-12]	
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Preputial Gland		Dilatation	Minimal
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 128	TRT#: 5	SEX: Male	DAY ON TEST: 730
	DOSE: 1500 PPM	DISP: Terminal Sacrifice	HISTO: mb069g-128

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Liver		Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 1-12]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 129

TRT#: 5

SEX: Male

DAY ON TEST: 456

DOSE: 1500 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-129

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Liver	Centrilobular	Cytomegaly	Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Preputial Gland		Dilatation	Marked
		Inflammation	Chronic, Minimal
* Skin		Inflammation	Chronic Active, Minimal

[Inflammation TGLS = 1,2-12]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 130	TRT#: 5	SEX: Male	DAY ON TEST: 730
	DOSE: 1500 PPM	DISP: Terminal Sacrifice	HISTO: mb069g-130

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Preputial Gland		Dilatation	Marked
[Dilatation TGLS = 2-9]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 131

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-131

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Gallbladder	* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy Mineralization	Minimal Focal, Minimal Minimal
* Brain		Adenoma	
Harderian Gland			
[Adenoma TGLS = 2-13]			
* Kidney		Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Adenoma Infiltration Cellular	Lymphocyte, Minimal
[Alveolar/Bronchiolar Adenoma TGLS = 1-12]			
* Preputial Gland		Dilatation	Marked
* Salivary Glands		Inflammation	Chronic, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 132	TRT#: 5	SEX: Male	DAY ON TEST: 729
	DOSE: 1500 PPM	DISP: Terminal Sacrifice	HISTO: mb069g-132

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Lung	[Alveolar/Bronchiolar Carcinoma TGLS = 2-12]	Alveolar/Bronchiolar Carcinoma	
* Preputial Gland	[Inflammation TGLS = 1-13]	Inflammation	Chronic Active, Marked
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 133

TRT#: 5

SEX: Male

DAY ON TEST: 456

DOSE: 1500 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-133

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

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

OBSERVATIONS

* Kidney	Inflammation	Chronic, Minimal
	Nephropathy	Minimal
	Mixed Cell Focus	Mild
* Liver [Mixed Cell Focus TGLS = 3-12]		
* Lung	Infiltration Cellular	Lymphocyte, Minimal
* Lymph Node, Mandibular	Hyperplasia	Lymphoid, Marked
* Pancreas	Inflammation	Chronic, Minimal
* Preputial Gland	Dilatation	Mild
* Spleen [Hyperplasia TGLS = 2-5]	Hyperplasia	Lymphoid, Moderate
* Stomach, Glandular	Developmental Malformation	

PRIMARY CAUSE OF DEATH

-

Animal Note: HEPATOCYTES IN MUCOSA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 134

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-134

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Kidney		Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Carcinoma	
		Infiltration Cellular	Lymphocyte, Minimal
[Alveolar/Bronchiolar Carcinoma TGLS = 3-12]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 2-14]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Preputial Gland		Dilatation	Minimal
		Inflammation	Chronic Active, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
Tooth		Developmental Malformation	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 135

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-135

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pituitary Gland	* Prostate
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy	Minimal Focal, Minimal
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
	[Hepatocellular Adenoma TGLS = 2-12]		
* Preputial Gland		Dilatation Inflammation	Moderate Chronic Active, Marked
	[Dilatation TGLS = 1-14]		
* Salivary Glands		Inflammation	Chronic, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 136

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-136

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Trachea	

MISSING

* Mammary Gland	* Parathyroid Gland	* Thymus
-----------------	---------------------	----------

OBSERVATIONS

* Heart	Atrium	Thrombosis	Marked
	Ventricle	Thrombosis	Moderate
	[Thrombosis TGLS = 2,3-4]		
	[Thrombosis TGLS = 2-4]		
* Kidney		Nephropathy	Moderate
* Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	[Hepatocellular Adenoma TGLS = 5-5]		
	[Hepatocellular Carcinoma TGLS = 4-12,13]		
* Lung	Pleura	Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Preputial Gland		Dilatation	Moderate
		Inflammation	Chronic Active, Mild
* Skin	Epidermis	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 137

TRT#: 5

SEX: Male

DAY ON TEST: 718

DOSE: 1500 PPM

DISP: Natural Death

HISTO: MB069G-137

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Gallbladder	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Islets, Pancreatic	* Nose
* Pancreas	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Adrenal Medulla	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Parathyroid Gland	* Pituitary Gland	* Thymus	

AUTO PRECLUDES DIAG.

* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
-----------------------------	--------------------------	----------------------------

OBSERVATIONS

* Brain		Mineralization	Minimal
* Heart		Fibrosis	Mild
* Kidney	Bilateral	Hydronephrosis	Mild
		Nephropathy	Moderate
* Liver		Hepatocellular Carcinoma	
	[Hepatocellular Carcinoma TGLS = 2-12]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
	[Hepatocellular Carcinoma TGLS = 8-6]		
* Preputial Gland		Dilatation	Marked
	[Dilatation TGLS = 3-9]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Seminif Tub	Degeneration	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 138

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-138

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular	* Mammary Gland
--------------------------	-----------------

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	Multiple
[Hepatocellular Adenoma TGLS = 5-12,4-14]			
* Lung	Alveolar Epith	Hyperplasia	Mild
[Hyperplasia TGLS = 3-6]			
* Lymph Node, Mesenteric		Hemorrhage	Minimal
		Hyperplasia	Lymphoid, Marked
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Preputial Gland		Inflammation	Chronic Active, Marked
[Inflammation TGLS = 2-9]			
* Skin	Subcut Tiss	Inflammation	Chronic Active, Mild
* Stomach, Forestomach		Hyperplasia	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 139

TRT#: 5

SEX: Male

DAY ON TEST: 456

DOSE: 1500 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-139

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea		

MISSING

* Mammary Gland

OBSERVATIONS

* Brain		Mineralization	Minimal
* Epididymis		Inflammation	Chronic Active, Minimal
* Kidney		Inflammation	Chronic, Minimal
* Liver	Centrilobular	Fatty Change	Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Respirat Epith	Degeneration	Hyaline, Minimal
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Inflammation	Chronic, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 140

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb-69g-140

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* 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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea		

MISSING

* Mammary Gland	* Prostate	* Thymus
-----------------	------------	----------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Epididymis		Inflammation	Chronic Active, Minimal
* Kidney		Nephropathy	Moderate
* Preputial Gland		Dilatation	Marked
		Inflammation	Chronic Active, Marked
[Dilatation TGLS = 1-12]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach		Hyperplasia	Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 141

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-141

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* 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
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Trachea

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Epididymis		Inflammation	Chronic Active, Minimal
* Kidney		Inflammation	Chronic Active, Marked
[Inflammation TGLS = 10-8]			
* Liver		Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 8-13]			
* Lung		Alveolar/Bronchiolar Adenoma	
[Alveolar/Bronchiolar Adenoma TGLS = 7-12]			
* Lymph Node, Mesenteric		Hemorrhage	Minimal
[Hemorrhage TGLS = 11-7]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Preputial Gland		Dilatation	Marked
[Dilatation TGLS = 3-9]			
* Prostate		Inflammation	Chronic Active, Moderate
* Seminal Vesicle		Atrophy	Mild
[Atrophy TGLS = 5-9]			
* Skin		Inflammation	Chronic Active, Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thymus		Atrophy	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 141

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-141

ORGAN AND ACCOUNTABLE SITE STATUS

* Urinary Bladder
[Inflammation TGLS = 6-8]

Inflammation

Chronic Active, Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 142	TRT#: 5	SEX: Male	DAY ON TEST: 730
	DOSE: 1500 PPM	DISP: Terminal Sacrifice	HISTO: mb069g-142

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Gallbladder	* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland	* Thymus
-----------------	----------

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Moderate
* Brain		Mineralization	Minimal
* Kidney		Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
[Alveolar/Bronchiolar Adenoma TGLS = 2-6]			
* Preputial Gland		Dilatation	Mild
		Inflammation	Chronic Active, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 143

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-143

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Trachea

MISSING

* Mammary Gland

OBSERVATIONS

* Heart	Atrium	Thrombosis	Moderate
[Thrombosis TGLS = 4-4]			
* Intestine Small, Jejunum		Carcinoma	
[Carcinoma TGLS = 2-13]			
* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 3-14]		Inflammation	Chronic Active, Minimal
* Lung	Artery	Inflammation	Chronic Active, Marked
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Preputial Gland		Dilatation	Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thymus		Atrophy	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 144

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-144

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla
* Brain
* Heart
* Intestine Small, Duodenum
* Liver
* Pancreas
* Prostate
* Spleen
* Thymus

* Blood Vessel
* Epididymis
* Intestine Large, Cecum
* Intestine Small, Ileum
* Lung
* Parathyroid Gland
* Salivary Glands
* Stomach, Forestomach
* Trachea

* Bone
* Esophagus
* Intestine Large, Colon
* Intestine Small, Jejunum
* Lymph Node, Mandibular
* Pituitary Gland
* Seminal Vesicle
* Stomach, Glandular
* Urinary Bladder

* Bone Marrow
* Gallbladder
* Intestine Large, Rectum
* Islets, Pancreatic
* Lymph Node, Mesenteric
* Preputial Gland
* Skin
* Testes

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex
* Kidney
* Nose
* Thyroid Gland

Olfactory Epi
Follicular Cel

Hypertrophy
Nephropathy
Degeneration
Adenoma

Focal, Mild
Minimal
Hyaline, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 145	TRT#: 5	SEX: Male	DAY ON TEST: 730
	DOSE: 1500 PPM	DISP: Terminal Sacrifice	HISTO: mg069g-145

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Trachea		

MISSING

* Mammary Gland

OBSERVATIONS

Harderian Gland [Adenoma TGLS = 4-15]		Adenoma	
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver [Hepatocellular Adenoma TGLS = 1-13,2-12]		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
* Preputial Gland		Inflammation	Chronic Active, Marked
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Inflammation	Chronic, Minimal
* Seminal Vesicle [Dilatation TGLS = 3-14]		Dilatation	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 146

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-146

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Lymphocyte, Minimal
		[Alveolar/Bronchiolar Adenoma TGLS = 3-14]	
* Lymph Node, Mandibular		Pigmentation	Hemosiderin, Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Preputial Gland		Dilatation	Marked
		Inflammation	Chronic Active, Mild
		[Dilatation TGLS = 2-13]	
* Prostate		Inflammation	Chronic, Mild
* Salivary Glands		Inflammation	Chronic, Minimal
* Seminal Vesicle		Dilatation	Mild
		[Dilatation TGLS = 4-15]	
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
Tooth		Developmental Malformation	
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 147	TRT#: 5	SEX: Male	DAY ON TEST: 729
	DOSE: 1500 PPM	DISP: Terminal Sacrifice	HISTO: mb069g-147

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

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

OBSERVATIONS

* Epididymis		Inflammation	Chronic Active, Mild
* Liver		Inflammation	Chronic Active, Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
[Alveolar/Bronchiolar Adenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Preputial Gland		Inflammation	Chronic Active, Mild
Tooth		Developmental Malformation	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 148

TRT#: 5

SEX: Male

DAY ON TEST: 456

DOSE: 1500 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-148

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Gallbladder	* Mammary Gland
---------------	-----------------

OBSERVATIONS

* Kidney		Inflammation Nephropathy	Chronic, Minimal Minimal
* Liver		Mixed Cell Focus	
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Preputial Gland		Dilatation	Moderate
		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 149

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-149

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy Nephropathy	Minimal Focal, Mild Minimal
* Kidney		Alveolar/Bronchiolar Adenoma	
* Lung			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Preputial Gland		Dilatation Inflammation	Moderate Chronic Active, Marked
[Inflammation TGLS = 1-9]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 150

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-150

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Gallbladder	* Mammary Gland
---------------	-----------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver		Mixed Cell Focus	Moderate
[Mixed Cell Focus TGLS = 2-5]			
Mesentery		Hemorrhage	Marked
[Hemorrhage TGLS = 1-12]	Fat	Necrosis	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 151

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-151

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Heart	Artery	Inflammation	Chronic Active, Mild
Mesentery	Artery	Inflammation	Chronic Active, Marked
* Preputial Gland		Dilatation	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 152

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-152

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Brain		Cyst	
Note: Squamous cyst.			
* Kidney		Metaplasia	Osseous, Mild
		Nephropathy	Moderate
* Liver		Hepatocellular Carcinoma	
		Pigmentation	Minimal
[Hepatocellular Carcinoma TGLS = 2-12]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Preputial Gland		Dilatation	Mild
		Inflammation	Chronic Active, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Mild
		Ectopic Parathyroid Gland	
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 153	TRT#: 5	SEX: Male	DAY ON TEST: 456
	DOSE: 1500 PPM	DISP: Scheduled Sacrifice	HISTO: MB069G-153

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Kidney		Inflammation	Chronic, Minimal
* Liver	Centrilobular	Fatty Change	Minimal
		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 2-5]			
* Nose	Olfactory Epi Respirat Epith	Degeneration	Hyaline, Mild
		Degeneration	Hyaline, Minimal
* Prostate		Inflammation	Chronic, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 154

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-154

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Gallbladder	* Mammary Gland
---------------	-----------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy Nephropathy Basophilic Focus Clear Cell Focus Inflammation	Minimal Focal, Minimal Minimal Moderate Chronic Active, Minimal
			[Basophilic Focus TGLS = 4-15] [Clear Cell Focus TGLS = 3-14]
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Preputial Gland		Dilatation Inflammation	Marked Chronic Active, Minimal
			[Dilatation TGLS = 1-13]
* Salivary Glands		Inflammation	Chronic, Minimal
* Spleen		Hyperplasia	Lymphoid, Mild
			[Hyperplasia TGLS = 2-12]

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 155

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-155

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Pituitary Gland	* Prostate	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
		Infarct	Marked
	[Hepatocellular Adenoma TGLS = 5-12,2-16]		
	[Hepatocellular Carcinoma TGLS = 4-13]		
	[Infarct TGLS = 3-14]		
* Lung		Alveolar/Bronchiolar Adenoma	
* Lymph Node, Mesenteric		Lymphoma Malignant Mixed	
	[Lymphoma Malignant Mixed TGLS = 6-17]		
* Preputial Gland		Dilatation	Minimal
		Inflammation	Chronic Active, Minimal
* Salivary Glands		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 156

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-156

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Gallbladder	* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy Mineralization	Minimal Focal, Minimal Minimal
* Brain		Inflammation	Chronic, Minimal
* Kidney		Nephropathy	Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 157

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-157

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Gallbladder	* Mammary Gland
---------------	-----------------

OBSERVATIONS

Eye [Inflammation TGLS = 1-16]	Cornea	Inflammation	Chronic Active, Moderate
Harderian Gland [Adenoma TGLS = 2-16]		Adenoma Inflammation	Chronic Active, Moderate
* Kidney		Nephropathy	Mild
* Liver [Hepatocellular Adenoma TGLS = 5-18] [Hepatocellular Carcinoma TGLS = 4-12,13,14]		Hepatocellular Adenoma Hepatocellular Carcinoma	
* Lung [Inflammation TGLS = 6-19]		Inflammation	Chronic Active, Mild
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Preputial Gland		Dilatation	Mild
		Inflammation	Chronic Active, Minimal
* Spleen [Hematopoietic Cell Proliferation TGLS = 3-15]		Hematopoietic Cell Proliferation	Moderate
* Thymus		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 157

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-157

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

Follicular Cel

Hyperplasia

Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 158

TRT#: 5

SEX: Male

DAY ON TEST: 456

DOSE: 1500 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-158

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla
* Brain
* Heart
* Intestine Small, Duodenum
* Kidney
* Parathyroid Gland
* Seminal Vesicle
* Stomach, Glandular
* Trachea

* Blood Vessel
* Epididymis
* Intestine Large, Cecum
* Intestine Small, Ileum
* Lymph Node, Mandibular
* Pituitary Gland
* Skin
* Testes
* Urinary Bladder

* Bone
* Esophagus
* Intestine Large, Colon
* Intestine Small, Jejunum
* Lymph Node, Mesenteric
* Prostate
* Spleen
* Thymus

* Bone Marrow
* Gallbladder
* Intestine Large, Rectum
* Islets, Pancreatic
* Pancreas
* Salivary Glands
* Stomach, Forestomach
* Thyroid Gland

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex
* Liver
* Lung
* Nose

* Preputial Gland

Subcapsular
Centrilobular

Olfactory Epi
Respirat Epith

Hyperplasia
Fatty Change
Infiltration Cellular
Degeneration
Degeneration
Dilatation

Mild
Minimal
Lymphocyte, Minimal
Hyaline, Mild
Hyaline, Minimal
Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 159	TRT#: 5	SEX: Male	DAY ON TEST: 730
	DOSE: 1500 PPM	DISP: Terminal Sacrifice	HISTO: mb069g-159

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
[Alveolar/Bronchiolar Adenoma TGLS = 1-12]			
* Pancreas	Acinar Cell	Atrophy	Marked
* Preputial Gland		Dilatation	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	Follicle	Cyst	Mild
Tooth		Developmental Malformation	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 160

TRT#: 5

SEX: Male

DAY ON TEST: 456

DOSE: 1500 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-160

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Gallbladder	* Mammary Gland	* Spleen
---------------	-----------------	----------

OBSERVATIONS

* Kidney		Inflammation	Chronic, Minimal
* Liver	Centrilobular	Fatty Change	Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Respirat Epith	Degeneration	Hyaline, Mild
* Preputial Gland		Dilatation	Moderate
		Inflammation	Chronic, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 161

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-161

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy	Minimal Focal, Minimal
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
	[Hepatocellular Adenoma TGLS = 2-12]		
* Lung	Alveolar Epith	Alveolar/Bronchiolar Adenoma Hyperplasia	Mild
	[Alveolar/Bronchiolar Adenoma TGLS = 3-14]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 162

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-162

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland	* Spleen	* Thymus
-----------------	----------	----------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy	Minimal Focal, Mild
* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	
	[Hepatocellular Adenoma TGLS = 2-12,13]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Preputial Gland		Dilatation	Mild
* Thyroid Gland	Follicular Cel	Adenoma	Multiple

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 163	TRT#: 5	SEX: Male	DAY ON TEST: 730
	DOSE: 1500 PPM	DISP: Terminal Sacrifice	HISTO: mb069g-163

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy Nephropathy	Minimal Focal, Minimal Minimal
* Kidney			
* Lung	Alveolar Epith	Hyperplasia	Marked
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Preputial Gland		Dilatation	Mild
* Salivary Glands		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 164

TRT#: 5

SEX: Male

DAY ON TEST: 667

DOSE: 1500 PPM

DISP: Moribund Sacrifice

HISTO: MB069G-164

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Minimal
* Epididymis		Inflammation	Chronic Active, Moderate
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	Moderate
[Eosinophilic Focus TGLS = 1-5]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Preputial Gland		Dilatation	Moderate
		Inflammation	Chronic Active, Minimal
* Stomach, Forestomach		Necrosis	Minimal
* Testes	Seminif Tub	Degeneration	Minimal
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 165

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-165

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
		Hypertrophy	Focal, Minimal
* Kidney		Nephropathy	Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Preputial Gland		Dilatation	Mild
		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic, Minimal
Tooth		Developmental Malformation	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 166

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-166

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Gallbladder	* 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	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy Mineralization	Minimal Focal, Minimal Minimal
* Brain		Nephropathy	Minimal
* Kidney		Infiltration Cellular	Lymphocyte, Minimal
* Lung		Hemorrhage	Minimal
* Lymph Node, Mesenteric		Degeneration	Hyaline, Mild
* Nose	Olfactory Epi	Dilatation	Moderate
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic Active, Minimal
* Skin		Hyperplasia	Focal, Mild
* Thyroid Gland	Follicular Cel		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 167

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-167

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pituitary Gland	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Trachea	* Urinary Bladder	

MISSING

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

OBSERVATIONS

* Brain	Mineralization	Minimal
* Kidney	Nephropathy	Minimal
* Liver	Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 1-12]		
* Preputial Gland	Dilatation	Mild
	Inflammation	Chronic Active, Minimal
* Prostate	Inflammation	Chronic Active, Minimal
* Salivary Glands	Inflammation	Chronic, Minimal
* Thyroid Gland	Follicular Cel Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 168

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-168

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
		Infiltration Cellular	Lymphocyte, Minimal
	[Alveolar/Bronchiolar Adenoma TGLS = 2-12]		
* Preputial Gland		Dilatation	Minimal
		Inflammation	Chronic Active, Minimal
* Seminal Vesicle		Dilatation	Moderate
	[Dilatation TGLS = 1-9]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
Tooth		Developmental Malformation	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 169

TRT#: 5

SEX: Male

DAY ON TEST: 456

DOSE: 1500 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-169

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Kidney		Inflammation	Chronic, Minimal
* Liver	Centrilobular	Fatty Change	Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Preputial Gland		Dilatation	Moderate
* Salivary Glands		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 170

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-170

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung	* Lymph Node, Mandibular
* Pancreas	* Pituitary Gland	* Preputial Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	

MISSING

* Gallbladder	* Mammary Gland	* Parathyroid Gland
---------------	-----------------	---------------------

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
		[Eosinophilic Focus TGLS = 5-14.1, 6-15.1, 7-16]	
		[Hepatocellular Adenoma TGLS = 1-13]	
		[Hepatocellular Carcinoma TGLS = 2-12]	
* Lymph Node, Mesenteric		Hematopoietic Cell Proliferation	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Respirat Epith	Hyperplasia	Glandular, Mild
* Prostate		Inflammation	Chronic, Minimal
* Seminal Vesicle		Dilatation	Mild
		[Dilatation TGLS = 4-9]	
* Spleen		Hematopoietic Cell Proliferation	Moderate
Tooth		Developmental Malformation	
* Urinary Bladder		Dilatation	Moderate
		[Dilatation TGLS = 3-8]	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 170

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-170

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 171

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 1500 PPM

DISP: Natural Death

HISTO: MB069G-171

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Gallbladder
* 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	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland

OBSERVATIONS

* Epididymis	Spermatocele	Mild
* Kidney	Nephropathy	Mild
* Liver	Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 2-13]		
* Lung	Alveolar/Bronchiolar Adenoma	
[Alveolar/Bronchiolar Adenoma TGLS = 1-12]		
* Preputial Gland	Dilatation	Moderate
* Prostate	Inflammation	Chronic, Minimal
* Salivary Glands	Inflammation	Chronic, Minimal
* Skin	Inflammation	Chronic Active, Moderate
	Ulcer	Minimal
[Ulcer TGLS = 3-14]		
* Spleen	Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 172

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-172

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland * Thymus

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	[Hepatocellular Adenoma TGLS = 2-14.1]		
	[Hepatocellular Carcinoma TGLS = 1-12,13]		
* Lung		Alveolar/Bronchiolar Adenoma	
		Hepatocellular Carcinoma	Metastatic (Liver)
		Infiltration Cellular	Histiocyte, Minimal
	[Alveolar/Bronchiolar Adenoma TGLS = 3-15]		
* Salivary Glands		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 173

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-173

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Gallbladder	* Mammary Gland	* Prostate	* Thymus
---------------	-----------------	------------	----------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy Mineralization	Minimal Focal, Minimal Minimal
* Brain		Hyperplasia	Minimal
* Islets, Pancreatic		Hepatocellular Adenoma	Multiple
* Liver	[Hepatocellular Adenoma TGLS = 1-12,2-14]		
* Lung	Alveolar Epith	Hyperplasia	Marked
* Lymph Node, Mesenteric		Hemorrhage	Moderate
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Preputial Gland		Dilatation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 174

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-174

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Gallbladder	* Intestine Large, Rectum	* Lymph Node, Mandibular	* Mammary Gland
* Parathyroid Gland			

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy Mineralization Adenoma	Minimal Focal, Mild Minimal
* Brain Harderian Gland [Adenoma TGLS = 2-13]			
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus Eosinophilic Focus	
* Preputial Gland		Dilatation Inflammation	Mild Chronic Active, Mild
* Seminal Vesicle [Dilatation TGLS = 3-14]		Dilatation	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 175

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-175

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Islets, Pancreatic	* Liver	* Lymph Node, Mandibular
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Mild
* Intestine Small, Jejunum		Hyperplasia	Lymphoid, Marked
[Hyperplasia TGLS = 5-12]			
* Kidney		Nephropathy	Mild
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Lymph Node, Mesenteric		Hemorrhage	Mild
[Hemorrhage TGLS = 6-16]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Preputial Gland		Dilatation	Mild
		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Inflammation	Chronic, Minimal
* Seminal Vesicle		Dilatation	Mild
		Inflammation	Chronic Active, Moderate
[Dilatation TGLS = 4-15]			
[Inflammation TGLS = 3-15]			
* Urinary Bladder		Dilatation	Mild
[Dilatation TGLS = 2-14]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 176

TRT#: 5

SEX: Male

DAY ON TEST: 635

DOSE: 1500 PPM

DISP: Natural Death

HISTO: MB069G-176

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Gallbladder	* Mammary Gland	* Nose	* Parathyroid Gland
* Pituitary Gland	* Thymus		

OBSERVATIONS

* Adrenal Cortex		Adenoma	
* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 1-5]			
* Preputial Gland		Dilatation	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 177

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-177

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Intestine Small, Ileum		Hyperplasia	Lymphoid, Moderate
		Inflammation	Chronic Active, Minimal
	[Hyperplasia TGLS = 3-14]		
* Kidney		Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
	[Alveolar/Bronchiolar Adenoma TGLS = 2-12]		
* Preputial Gland		Dilatation	Marked
		Inflammation	Chronic Active, Mild
	[Dilatation TGLS = 1-13]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 178

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-178

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Gallbladder	* 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	* Pituitary Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Brain		Mineralization	Minimal
Harderian Gland		Adenoma	
[Adenoma TGLS = 3-13]			
* Kidney		Inflammation	Chronic, Minimal
		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 2-12]			
* Prostate		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 179

TRT#: 5

SEX: Male

DAY ON TEST: 456

DOSE: 1500 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-179

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pituitary Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland		* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Kidney		Inflammation	Chronic, Minimal
		Nephropathy	Minimal
* Liver	Centrilobular	Fatty Change	Minimal
		Hepatocellular Adenoma	
	[Hepatocellular Adenoma TGLS = 1-12]		
* Pancreas	Acinar Cell	Vacuolization Cytoplasmic	Mild
* Preputial Gland		Dilatation	Mild
		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 180

TRT#: 5

SEX: Male

DAY ON TEST: 456

DOSE: 1500 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-180

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Mammary Gland
--------------------------	-----------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Kidney		Inflammation	Chronic, Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Preputial Gland		Dilatation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 181	TRT#: 7	SEX: Male	DAY ON TEST: 730
	DOSE: 3000 PPM	DISP: Terminal Sacrifice	HISTO: MB069G-181

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Brain		Mineralization	Minimal
Harderian Gland		Adenoma	
[Adenoma TGLS = 1-12]			
* Lung		Alveolar/Bronchiolar Carcinoma	
[Alveolar/Bronchiolar Carcinoma TGLS = 4-14]			
* Lymph Node, Mesenteric		Histiocytic Sarcoma	
Mesentery		Histiocytic Sarcoma	
[Histiocytic Sarcoma TGLS = 3-15]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Preputial Gland		Dilatation	Minimal
* Thymus		Histiocytic Sarcoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 182

TRT#: 7

SEX: Male

DAY ON TEST: 456

DOSE: 3000 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-182

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Gallbladder	* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Brain		Mineralization	Minimal
* Kidney		Inflammation	Chronic, Mild
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 183

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-183

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla
* Brain
* Heart
* Intestine Small, Duodenum
* Liver
* Nose
* Seminal Vesicle
* Testes
* Urinary Bladder

* Blood Vessel
* Epididymis
* Intestine Large, Cecum
* Intestine Small, Ileum
* Lung
* Pancreas
* Spleen
* Thymus

* Bone
* Esophagus
* Intestine Large, Colon
* Intestine Small, Jejunum
* Lymph Node, Mandibular
* Pituitary Gland
* Stomach, Forestomach
* Thyroid Gland

* Bone Marrow
* Gallbladder
* Intestine Large, Rectum
* Islets, Pancreatic
* Lymph Node, Mesenteric
* Prostate
* Stomach, Glandular
* Trachea

MISSING

* Mammary Gland

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex
* Kidney

* Preputial Gland
* Salivary Glands
* Skin

Subcapsular

Epidermis

Hyperplasia
Inflammation
Nephropathy
Dilatation
Inflammation
Hyperplasia

Mild
Chronic, Minimal
Minimal
Minimal
Chronic, Minimal
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 184

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-184

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Trachea	* Urinary Bladder	

MISSING

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

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Kidney		Nephropathy	Minimal
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Preputial Gland		Dilatation	Mild
		Inflammation	Chronic Active, Mild
* Skin	Epidermis	Hyperplasia	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 185

TRT#: 7

SEX: Male

DAY ON TEST: 456

DOSE: 3000 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-185

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas	* Pituitary Gland	* Prostate
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea

MISSING

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

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Kidney		Inflammation	Chronic, Minimal
* Preputial Gland		Dilatation	Marked
* Salivary Glands		Inflammation	Chronic, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 186

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-186

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Gallbladder	* Mammary Gland
---------------	-----------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Minimal
Harderian Gland		Adenoma	
[Adenoma TGLS = 3-13]			
* Kidney		Nephropathy	Minimal
* Liver		Inflammation	Chronic Active, Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Preputial Gland		Dilatation	Marked
[Dilatation TGLS = 2-9]			
* Salivary Glands		Inflammation	Chronic, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 187

TRT#: 7

SEX: Male

DAY ON TEST: 456

DOSE: 3000 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-187

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
		Inflammation	Chronic Active, Minimal
[Hepatocellular Adenoma TGLS = 1-5]			
Mesentery	Fat	Necrosis	Mild
* Preputial Gland		Dilatation	Marked
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 188

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-188

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Intestine Small, Jejunum [Hyperplasia TGLS = 3-14]		Hyperplasia	Lymphoid, Mild
* Kidney		Nephropathy	Minimal
* Liver [Hepatocellular Adenoma TGLS = 1-12]		Eosinophilic Focus Hepatocellular Adenoma	
Lymph Node [Hyperplasia TGLS = 2-13]	Pancreatic	Hyperplasia	Lymphoid, Marked
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
* Urinary Bladder [Dilatation TGLS = 4-8]		Dilatation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 189

TRT#: 7

SEX: Male

DAY ON TEST: 652

DOSE: 3000 PPM

DISP: Natural Death

HISTO: MB069G-189

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Gallbladder	* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
---------------	--------------------------	-----------------	---------------------

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy	Minimal Focal, Mild
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 1-12]			
* Preputial Gland		Dilatation	Moderate
* Thymus		Atrophy	Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 190

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-190

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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
* Pancreas	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

MISSING

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

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
Harderian Gland		Adenoma	
[Adenoma TGLS = 3-12]			
* Kidney		Inflammation	Chronic, Minimal
		Nephropathy	Minimal
* Lung	Alveolar Epith	Hyperplasia	Marked
[Hyperplasia TGLS = 2-13]			
* Preputial Gland		Dilatation	Moderate
* Skin		Inflammation	Chronic Active, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 191

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-191

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 192

TRT#: 7

SEX: Male

DAY ON TEST: 9

DOSE: 3000 PPM

DISP: Natural Death

HISTO: MB069G-192

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Colon	* Intestine Large, Rectum	* Islets, Pancreatic	* Kidney
* Liver	* Lung	* Lymph Node, Mandibular	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland	* Pituitary Gland
-----------------	-------------------

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Seminal Vesicle	* Stomach, Glandular

OBSERVATIONS

* Bone Marrow	Congestion	Moderate
* Thymus	Atrophy	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 193

TRT#: 7

SEX: Male

DAY ON TEST: 500

DOSE: 3000 PPM

DISP: Natural Death

HISTO: mb069g-193

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Hepatocellular Adenoma	
	[Hepatocellular Adenoma TGLS = 1-5]		
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Preputial Gland		Dilatation	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 194

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-194

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea			

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy	Minimal Focal, Minimal
* Kidney		Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
	[Alveolar/Bronchiolar Adenoma TGLS = 2-12]		
* Preputial Gland		Inflammation	Chronic Active, Marked
	[Inflammation TGLS = 1-9,9.1]		
* Salivary Glands		Inflammation	Chronic, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 195

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-195

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Gallbladder	* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Brain		Mineralization	Minimal
* Kidney		Nephropathy	Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Preputial Gland		Dilatation	Moderate
[Dilatation TGLS = 1-9]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 196

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-196

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Bone Marrow
* Heart
* Intestine Small, Duodenum
* Liver
* Nose
* Preputial Gland
* Skin
* Testes
* Urinary Bladder

* Adrenal Medulla
* Epididymis
* Intestine Large, Cecum
* Intestine Small, Ileum
* Lung
* Pancreas
* Prostate
* Spleen
* Thymus

* Blood Vessel
* Esophagus
* Intestine Large, Colon
* Intestine Small, Jejunum
* Lymph Node, Mandibular
* Parathyroid Gland
* Salivary Glands
* Stomach, Forestomach
* Thyroid Gland

* Bone
* Gallbladder
* Intestine Large, Rectum
* Islets, Pancreatic
* Lymph Node, Mesenteric
* Pituitary Gland
* Seminal Vesicle
* Stomach, Glandular
* Trachea

MISSING

* Mammary Gland

OBSERVATIONS

* Brain	Mineralization	Minimal
* Kidney	Nephropathy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 197

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-197

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland * Thymus

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Liver		Eosinophilic Focus	Minimal
		Hepatocellular Adenoma	
	[Hepatocellular Adenoma TGLS = 2-12]		
* Lung		Alveolar/Bronchiolar Adenoma	
	[Alveolar/Bronchiolar Adenoma TGLS = 3-6]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Preputial Gland		Dilatation	Marked
	[Dilatation TGLS = 1-9]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 198

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-198

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Gallbladder	* Mammary Gland
---------------	-----------------

OBSERVATIONS

* Brain		Mineralization	Minimal
* Liver		Hepatocellular Carcinoma	
	[Hepatocellular Carcinoma TGLS = 1-12]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Preputial Gland		Dilatation	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 199

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-199

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland	* Thymus
-----------------	----------

OBSERVATIONS

* Kidney		Nephropathy	Moderate
* Liver		Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 3-12,13]			
* Lymph Node, Mandibular		Pigmentation	Hemosiderin, Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Preputial Gland		Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 200

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-200

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland	* Pituitary Gland	* Thymus
-----------------	-------------------	----------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy	Minimal Focal, Minimal
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 2-13]			
* Preputial Gland		Dilatation	Mild
* Prostate		Inflammation	Chronic, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
Tooth		Developmental Malformation	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 201

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-201

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Brain		Mineralization	Minimal
* Liver		Eosinophilic Focus	Minimal
		Hepatocellular Carcinoma	
		Inflammation	Chronic Active, Minimal
	[Hepatocellular Carcinoma TGLS = 4-12,13]		
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Preputial Gland		Dilatation	Marked
	[Dilatation TGLS = 2-9]		
* Salivary Glands		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
	[Hematopoietic Cell Proliferation TGLS = 3-5]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 202

TRT#: 7

SEX: Male

DAY ON TEST: 456

DOSE: 3000 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-202

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

MISSING

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

OBSERVATIONS

* Bone Marrow [Fibroma TGLS = 1-12]		Fibroma	Osseous
* Liver		Inflammation	Chronic Active, Minimal
* Preputial Gland		Dilatation	Minimal
		Inflammation	Chronic, Minimal
* Skin	Epidermis	Hyperplasia	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 203

TRT#: 7

SEX: Male

DAY ON TEST: 456

DOSE: 3000 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-203

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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
* Pancreas	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

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

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Kidney		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
		Foreign Body	Mild
* Preputial Gland		Dilatation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 204

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-204

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Gallbladder	* Mammary Gland
---------------	-----------------

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Carcinoma	
	[Hepatocellular Carcinoma TGLS = 4-12,13,14]		
* Lung		Alveolar/Bronchiolar Adenoma	
	[Alveolar/Bronchiolar Adenoma TGLS = 1-15]	Hepatocellular Carcinoma	Metastatic (Liver)
	[Hepatocellular Carcinoma TGLS = 3-17]		
* Lymph Node, Mandibular		Pigmentation	Hemosiderin, Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Preputial Gland		Dilatation	Mild
		Inflammation	Chronic Active, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 205

TRT#: 7

SEX: Male

DAY ON TEST: 401

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: MB069G-205

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

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

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Heart	Artery	Inflammation	Chronic Active, Marked
* Kidney	Artery	Inflammation	Chronic Active, Mild
* Lung	[Alveolar/Bronchiolar Adenoma TGLS = 2-12]	Alveolar/Bronchiolar Adenoma	
* Preputial Gland		Dilatation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 206

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-206

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Liver	* Lymph Node, Mandibular	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Gallbladder	* Mammary Gland
---------------	-----------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy	Minimal Focal, Mild
* Lung	[Alveolar/Bronchiolar Adenoma TGLS = 2-12]	Alveolar/Bronchiolar Adenoma	
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Seminal Vesicle	[Dilatation TGLS = 1-9]	Dilatation	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 207

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-207

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy	Minimal Focal, Mild
* Kidney		Nephropathy	Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Salivary Glands		Inflammation	Chronic, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 208

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-208

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Preputial Gland		Dilatation	Marked
[Dilatation TGLS = 1-9]			
* Prostate		Inflammation	Chronic, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 209

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-209

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Gallbladder	* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy Mineralization Nephropathy	Mild Focal, Minimal Minimal Minimal
* Brain			
* Kidney			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Preputial Gland		Abscess Dilatation Inflammation	Marked Marked Chronic Active, Moderate
[Abscess TGLS = 2-12]			
[Dilatation TGLS = 1-9]			
[Inflammation TGLS = 1-9]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 210

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-210

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland	* Thymus
-----------------	----------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Kidney		Inflammation	Chronic, Minimal
		Nephropathy	Minimal
* Lung		Infiltration Cellular	Lymphocyte, Mild
* Preputial Gland		Dilatation	Moderate
* Skin	Epidermis	Hyperplasia	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 211	TRT#: 7	SEX: Male	DAY ON TEST: 731
	DOSE: 3000 PPM	DISP: Terminal Sacrifice	HISTO: mb069g-211

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland

OBSERVATIONS

* Brain		Mineralization	Minimal
* Kidney		Nephropathy	Minimal
* Preputial Gland		Dilatation	Moderate
[Dilatation TGLS = 3-9]			
* Skin	Subcut Tiss	Histiocytic Sarcoma	
[Histiocytic Sarcoma TGLS = 1-12]			
* Spleen		Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 212

TRT#: 7

SEX: Male

DAY ON TEST: 456

DOSE: 3000 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-212

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

OBSERVATIONS

* Kidney	Inflammation	Chronic, Mild
* Liver	Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 1-12]		
* Lung	Infiltration Cellular	Lymphocyte, Minimal
* Preputial Gland	Dilatation	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 213

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-213

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Gallbladder	* Mammary Gland	* Parathyroid Gland
---------------	-----------------	---------------------

OBSERVATIONS

* Adrenal Cortex	Hypertrophy	Focal, Moderate
* Brain	Mineralization	Minimal
* Preputial Gland	Dilatation	Mild
* Prostate	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 214

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-214

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Intestine Large, Rectum	* Mammary Gland
---------------------------	-----------------

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Kidney		Nephropathy	Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Preputial Gland		Dilatation	Moderate
* Salivary Glands		Inflammation	Chronic, Minimal
* Skin	Epidermis	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 215

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-215

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Nose	* Pancreas
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea			

MISSING

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

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Kidney		Nephropathy	Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Preputial Gland		Dilatation	Moderate
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Inflammation	Chronic, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 216

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-216

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Hypertrophy	Focal, Mild
* Brain	Mineralization	Minimal
* Lymph Node, Mesenteric	Hematopoietic Cell Proliferation	Mild
	Hemorrhage	Mild
* Preputial Gland	Dilatation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 217

TRT#: 7

SEX: Male

DAY ON TEST: 456

DOSE: 3000 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-217

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Intestine Large, Rectum	* Pituitary Gland
---------------------------	-------------------

OBSERVATIONS

* Kidney		Inflammation	Chronic, Minimal
* Lung		Congestion	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Preputial Gland		Dilatation	Minimal
		Inflammation	Chronic, Minimal
* Skin		Inflammation	Chronic Active, Minimal
Note: TGL-CLINICAL OBSERVATION			
* Testes	Seminif Tub	Degeneration	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 218

TRT#: 7

SEX: Male

DAY ON TEST: 537

DOSE: 3000 PPM

DISP: Natural Death

HISTO: MBO69G-218

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lung	* Lymph Node, Mandibular	* Pancreas	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea			

MISSING

* Adrenal Medulla	* Mammary Gland	* Pituitary Gland	
-------------------	-----------------	-------------------	--

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Lymph Node, Mesenteric	* Urinary Bladder		

OBSERVATIONS

* Heart	Artery	Inflammation	Chronic Active, Moderate
* Kidney		Infarct	Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
		Exudate	Mild
		Dilatation	Moderate
* Preputial Gland			
[Dilatation TGLS = 7-9]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thymus		Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 219

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-219

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Gallbladder	* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Minimal
* Kidney		Inflammation	Chronic, Minimal
		Nephropathy	Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Preputial Gland		Dilatation	Moderate
		Inflammation	Chronic Active, Mild
[Dilatation TGLS = 1-9]			
[Inflammation TGLS = 1-9]			
* Prostate		Inflammation	Chronic, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 220

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-220

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
	[Alveolar/Bronchiolar Adenoma TGLS = 2-13]		
* Preputial Gland		Dilatation	Moderate
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Inflammation	Chronic, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 221

TRT#: 7

SEX: Male

DAY ON TEST: 726

DOSE: 3000 PPM

DISP: Natural Death

HISTO: MBO69G-221

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Preputial Gland	* Prostate
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Testes	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland	* Pituitary Gland	* Thymus
-----------------	-------------------	----------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Kidney		Inflammation	Chronic, Minimal
		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 2-13]			
* Salivary Glands		Inflammation	Chronic, Minimal
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 222

TRT#: 7

SEX: Male

DAY ON TEST: 697

DOSE: 3000 PPM

DISP: Natural Death

HISTO: MBO69G-222

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Pituitary Gland	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea			

MISSING

* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland	* Thymus
--------------------------	-----------------	---------------------	----------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Epididymis		Granuloma Sperm	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	
		Infarct	Mild
[Hepatocellular Carcinoma TGLS = 1-14]			
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pancreas		Inflammation	Chronic, Minimal
* Preputial Gland		Dilatation	Mild
* Prostate		Inflammation	Acute, Minimal
* Skin	Prepuce	Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 4-12]			
Tooth		Developmental Malformation	
* Urinary Bladder		Dilatation	Moderate
		Inflammation	Acute, Marked
[Dilatation TGLS = 2-13]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 223

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-223

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Gallbladder	* 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	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Brain		Mineralization	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	Multiple
[Hepatocellular Adenoma TGLS = 2-12,3-13]			
* Preputial Gland		Dilatation	Mild
[Dilatation TGLS = 1-9]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 224

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-224

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Gallbladder	* 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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Brain		Hypertrophy	Focal, Minimal
* Kidney		Mineralization	Minimal
Lymph Node		Nephropathy	Minimal
* Preputial Gland		Hemorrhage	Minimal
* Prostate		Dilatation	Minimal
* Thyroid Gland	Follicular Cel	Inflammation	Chronic, Minimal
		Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 225

TRT#: 7

SEX: Male

DAY ON TEST: 456

DOSE: 3000 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-225

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Kidney		Inflammation	Chronic, Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Preputial Gland		Dilatation	Moderate
		Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-9]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 226

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-226

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 1-12]			
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Salivary Glands		Inflammation	Chronic, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 227

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-227

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Mammary Gland
--------------------------	-----------------

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Mild
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 1-12]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Preputial Gland		Dilatation	Moderate
		Inflammation	Chronic Active, Minimal
* Thyroid Gland	Follicular Cel	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:08
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 228	TRT#: 7	SEX: Male	DAY ON TEST: 730
	DOSE: 3000 PPM	DISP: Terminal Sacrifice	HISTO: MB069G-228

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular	* Mammary Gland
--------------------------	-----------------

OBSERVATIONS

* Adrenal Cortex		Adenoma	
* Brain		Mineralization	Minimal
* Heart		Fibrosis	Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
	[Alveolar/Bronchiolar Adenoma TGLS = 1-12]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Preputial Gland		Inflammation	Chronic Active, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 229

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-229

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy Nephropathy	Mild Focal, Mild
* Kidney		Degeneration	Minimal
* Nose	Olfactory Epi	Dilatation	Hyaline, Mild
* Preputial Gland		Inflammation	Minimal
* Prostate		Hyperplasia	Chronic Active, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
			Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 230

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 230

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Lymph Node, Mandibular	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea			

MISSING

* Intestine Small, Ileum	* Mammary Gland
--------------------------	-----------------

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Brain		Mineralization	Minimal
* Lung		Alveolar/Bronchiolar Carcinoma	
[Alveolar/Bronchiolar Carcinoma TGLS = 2-12]			
* Lymph Node, Mesenteric		Angiectasis	Moderate
* Preputial Gland		Dilatation	Moderate
[Dilatation TGLS = 1-9]			
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Inflammation	Chronic, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 231

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-231

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pituitary Gland	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	Mild
[Eosinophilic Focus TGLS = 2-12]			
* Preputial Gland		Dilatation	Marked
[Dilatation TGLS = 1-9]			
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Inflammation	Chronic, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 232

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-232

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy	Minimal Focal, Mild
* Kidney		Hydronephrosis Inflammation Nephropathy	Mild Chronic, Minimal Minimal
* Liver		Basophilic Focus	
* Nose	Olfactory Epi Respirat Epith	Degeneration Hyperplasia	Hyaline, Mild Glandular, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
* Urinary Bladder		Dilatation	Mild

[Dilatation TGLS = 2-8]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 233

TRT#: 7

SEX: Male

DAY ON TEST: 456

DOSE: 3000 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-233

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Respirat Epith	Degeneration	Hyaline, Minimal
* Preputial Gland		Dilatation	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 234

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-234

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Gallbladder	* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
---------------	--------------------------	-----------------	---------------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Kidney		Hypertrophy	Focal, Minimal
* Preputial Gland		Nephropathy	Minimal
* Thyroid Gland	Follicular Cel	Dilatation	Moderate
		Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 235	TRT#: 7	SEX: Male	DAY ON TEST: 731
	DOSE: 3000 PPM	DISP: Terminal Sacrifice	HISTO: MB069G-235

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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
* Pancreas	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

MISSING

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

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
		Hypertrophy	Focal, Minimal
* Kidney		Nephropathy	Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Thyroid Gland	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 236

TRT#: 7

SEX: Male

DAY ON TEST: 456

DOSE: 3000 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-236

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Kidney		Inflammation	Chronic, Minimal
* Liver	Centrilobular	Fatty Change	Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Preputial Gland		Dilatation	Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 237

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-237

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy Mineralization Nephropathy	Mild Focal, Minimal Minimal Minimal
* Brain		Alveolar/Bronchiolar Adenoma	Multiple
* Kidney	Alveolar Epith Interstitial	Hyperplasia Inflammation	Marked Chronic Active, Minimal
* Lung	[Alveolar/Bronchiolar Adenoma TGLS = 3-12]		
* Nose	Olfactory Epi	Degeneration Dilatation Inflammation	Hyaline, Minimal Mild Chronic Active, Moderate
* Preputial Gland			
	[Dilatation TGLS = 2-9.1] [Inflammation TGLS = 1-9]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 238

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-238

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pituitary Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

MISSING

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

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Cyst	Marked
		Hepatocellular Adenoma	
[Cyst TGLS = 2-12]			
[Hepatocellular Adenoma TGLS = 2-12]			
* Preputial Gland		Dilatation	Marked
[Dilatation TGLS = 1-9]			
* Prostate		Inflammation	Chronic, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 239

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-239

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Gallbladder	* Mammary Gland
---------------	-----------------

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Brain		Mineralization	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	[Hepatocellular Adenoma TGLS = 2-13]		
	[Hepatocellular Carcinoma TGLS = 1-12]		
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Preputial Gland		Dilatation	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 240

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-240

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* 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	* Pituitary Gland
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Kidney		Inflammation Nephropathy Infarct	Chronic, Minimal Minimal Marked
* Liver [Infarct TGLS = 2-12]			
* Preputial Gland [Dilatation TGLS = 1-9]		Dilatation Inflammation	Moderate Chronic Active, Mild
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Inflammation	Chronic, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 241

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 736
HISTO: mb069g-241

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Lymph Node, Mesenteric

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Clitoral Gland		Dilatation	Mild
* Kidney	Renal Tubule	Regeneration	Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Ovary		Granulosa Cell Tumor Benign	
* Pituitary Gland	Pars Distalis	Adenoma	
* Salivary Glands		Inflammation	Chronic, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 242

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 734
HISTO: mb069g-242

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* 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	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Clitoral Gland	* Thymus
------------------	----------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Kidney	Renal Tubule	Regeneration	Minimal
* Liver		Hepatocellular Adenoma	
		Necrosis	Mild
	[Hepatocellular Adenoma TGLS = 6-16]		
	[Necrosis TGLS = 5-15]		
* Lung		Alveolar/Bronchiolar Adenoma	
* Lymph Node, Mesenteric		Lymphoma Malignant Mixed	
	[Lymphoma Malignant Mixed TGLS = 4-14]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Skin	Subcut Tiss	Sarcoma	
	[Sarcoma TGLS = 1-11]		
* Spleen		Hematopoietic Cell Proliferation	Marked
	[Hematopoietic Cell Proliferation TGLS = 2-12]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
* Uterus		Dilatation	Marked
	[Dilatation TGLS = 3-13]		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 243

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 713
HISTO: MB069G-243

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* 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	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Stomach, Forestomach	* Thyroid Gland	* Trachea

MISSING

* Clitoral Gland	* Parathyroid Gland
------------------	---------------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Brain		Mineralization	Mild
* Liver	Centrilobular	Necrosis	Mild
[Necrosis TGLS = 3-5]			
* Lymph Node, Mesenteric		Hematopoietic Cell Proliferation	Mild
		Hemorrhage	Mild
Mesentery	Fat	Necrosis	Marked
[Necrosis TGLS = 4-13]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
* Salivary Glands		Inflammation	Chronic, Minimal
* Skin	Subcut Tiss	Hemangiosarcoma	
[Hemangiosarcoma TGLS = 1-11]			
* Spleen		Hematopoietic Cell Proliferation	Marked
* Stomach, Glandular		Necrosis	Mild
[Necrosis TGLS = 6-4]			
* Thymus		Atrophy	Moderate
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Dilatation	Marked
[Dilatation TGLS = 5-8]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 244

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 735
HISTO: mb069g-244

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mandibular	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Uterus			

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Bone		Dysplasia	Mild
* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
* Brain		Mineralization	Minimal
* Clitoral Gland		Pigmentation	Minimal
[Pigmentation TGLS = 1-16]			
* Liver		Eosinophilic Focus	Moderate
		Hematopoietic Cell Proliferation	Moderate
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
[Eosinophilic Focus TGLS = 9-13]			
[Hematopoietic Cell Proliferation TGLS = 5-5]			
[Hepatocellular Adenoma TGLS = 10-12,7-15,11-18,12-19]			
[Hepatocellular Carcinoma TGLS = 6-14]			
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Lymph Node, Mesenteric		Lymphoma Malignant Mixed	
[Lymphoma Malignant Mixed TGLS = 3-21,4-11]			
Mesentery		Inflammation	Chronic Active, Moderate
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Salivary Glands		Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 244	TRT#: 2 DOSE: 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO: mb069g-244
-----------------------	--------------------------------------	---	---

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Hematopoietic Cell Proliferation TGLS = 2-5]	Hematopoietic Cell Proliferation	Marked
* Urinary Bladder	Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 245

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 734
HISTO: mb069g-245

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Esophagus
* Gallbladder	* 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, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Thymus
* Trachea			

MISSING

* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex		Cytoplasmic Alteration	Focal, Mild
	Subcapsular	Hyperplasia	Minimal
* Bone		Dysplasia	Mild
* Brain		Compression	Mild
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	
		Inflammation	Chronic Active, Minimal
		[Eosinophilic Focus TGLS = 4-15]	
		[Hepatocellular Adenoma TGLS = 3-13]	
* Lymph Node, Mandibular		Hemorrhage	Minimal
Mesentery	Fat	Necrosis	Moderate
		[Necrosis TGLS = 2-12]	
* Pancreas	Acinar Cell	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		[Adenoma TGLS = 5-3]	
* Spleen		Hyperplasia	Lymphoid, Mild
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Marked
		Inflammation	Chronic Active, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 245

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 734
HISTO: mb069g-245

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Dilatation
Hyperplasia

Marked
Cystic, Mild

[Dilatation TGLS = 1-11]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 246

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 734
HISTO: mb069g-246

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Intestine Small, Ileum

OBSERVATIONS

* Clitoral Gland		Dilatation	Minimal
* Kidney	Renal Tubule	Regeneration	Minimal
* Liver		Eosinophilic Focus	
[Eosinophilic Focus TGLS = 2-5]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
* Uterus		Dilatation	Marked
		Polyp Stromal	
[Dilatation TGLS = 1-11]			
[Polyp Stromal TGLS = 1-11]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 247

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Scheduled Sacrifice

DAY ON TEST: 457
HISTO: MB069G-247

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Brain
* Esophagus	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* 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

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone		Dysplasia	Mild
* Clitoral Gland		Dilatation	Moderate
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Respirat Epith	Degeneration	Hyaline, Minimal
* Uterus		Dilatation	Moderate
		Hyperplasia	Cystic, Minimal

[Dilatation TGLS = 1-8]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 248

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 734
HISTO: mb069g-248

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea			

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Mild
		Inflammation	Chronic Active, Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Salivary Glands		Inflammation	Chronic, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Mild

[Hyperplasia TGLS = 1-11]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 249

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 695
HISTO: MB069G-249

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea

MISSING

* Clitoral Gland	* Ovary	* Thymus
------------------	---------	----------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
Oviduct		Cyst	Moderate
		Inflammation	Chronic Active, Mild
[Inflammation TGLS = 2-8, 1-8]			
* Spleen		Pigmentation	Hemosiderin, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Dilatation	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 250

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Natural Death

DAY ON TEST: 530
HISTO: MB069G-250

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Gallbladder	* Pituitary Gland	* Thymus
---------------	-------------------	----------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Bone Marrow		Histiocytic Sarcoma	
* Brain		Hemorrhage	Minimal
* Clitoral Gland		Dilatation	Mild
		Inflammation	Chronic Active, Minimal
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
[Degeneration TGLS = 8-8]			
* Liver		Histiocytic Sarcoma	
		Inflammation	Chronic Active, Mild
[Histiocytic Sarcoma TGLS = 3,9-5,5.1]			
[Inflammation TGLS = 10-5,5.1]			
* Lung		Histiocytic Sarcoma	
Lymph Node		Histiocytic Sarcoma	
[Histiocytic Sarcoma TGLS = 7-11]			
* Lymph Node, Mandibular		Hemorrhage	Mild
* Lymph Node, Mesenteric		Hemorrhage	Mild
		Histiocytic Sarcoma	
[Histiocytic Sarcoma TGLS = 6-7]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Spleen		Hematopoietic Cell Proliferation	Marked
[Hematopoietic Cell Proliferation TGLS = 4-5,5.1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 250

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Natural Death

DAY ON TEST: 530
HISTO: MB069G-250

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular
[Necrosis TGLS = 5-4]

Necrosis

Minimal

* Uterus

Histiocytic Sarcoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 251

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 659
HISTO: MB069G-251

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	Oviduct	* Parathyroid Gland	* Salivary Glands
* Thyroid Gland	* Trachea		

INSUFFICIENT TISSUE

* Adrenal Medulla * Thymus

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
* Clitoral Gland		Dilatation	Moderate
* Gallbladder		Inflammation	Chronic Active, Mild
* Heart		Inflammation	Chronic Active, Mild
* Kidney		Glomerulosclerosis	Mild
* Liver		Hematopoietic Cell Proliferation	Mild
		Inflammation	Chronic Active, Marked
[Inflammation TGLS = 2-5]			
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Mammary Gland		Inflammation	Chronic Active, Mild
Mesentery		Inflammation	Chronic Active, Mild
[Inflammation TGLS = 3-5,7]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Ovary		Abscess	Marked
		Inflammation	Chronic Active, Marked
[Abscess TGLS = 4-11]			
* Pancreas		Inflammation	Chronic Active, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Skin	Subcut Tiss	Abscess	Marked
		Inflammation	Chronic Active, Mild
[Abscess TGLS = 1-12]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 251

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 659
HISTO: MB069G-251

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hematopoietic Cell Proliferation	Marked
	Capsule	Inflammation	Chronic Active, Marked
[Inflammation TGLS = 3-5,7]			
* Stomach, Forestomach		Inflammation	Chronic Active, Mild
* Stomach, Glandular		Inflammation	Chronic Active, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 252

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 736
HISTO: mb069g-252

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* 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	* Pancreas	* Parathyroid Gland
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain	Meninges	Inflammation	Chronic, Minimal
* Clitoral Gland		Dilatation	Moderate
* Kidney		Metaplasia	Osseous, Mild
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Ovary		Adenoma	
Note: Papillary configuration.			
[Adenoma TGLS = 2-11]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3]			
* Salivary Glands		Inflammation	Chronic, Minimal
* Skin		Inflammation	Chronic Active, Mild
[Inflammation TGLS = 1-12]			
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 253

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 736
HISTO: mb069g-253

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* 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
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Clitoral Gland		Dilatation	Moderate
* Kidney		Inflammation	Chronic, Minimal
	Renal Tubule	Regeneration	Minimal
* Liver		Hepatocellular Adenoma	
	[Hepatocellular Adenoma TGLS = 2-13]		
* Lung		Alveolar/Bronchiolar Carcinoma	
		Infiltration Cellular	Lymphocyte, Minimal
	[Alveolar/Bronchiolar Carcinoma TGLS = 3-6]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pancreas	Acinar Cell	Atrophy	Marked
	Duct	Cyst	Marked
		Inflammation	Chronic Active, Mild
	[Cyst TGLS = 1-11]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Salivary Glands		Inflammation	Chronic, Minimal
* Uterus		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 254

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Scheduled Sacrifice

DAY ON TEST: 457
HISTO: MB069G-254

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea			

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Kidney		Inflammation	Chronic, Mild
* Liver		Inflammation	Chronic Active, Mild
* Lung		Infiltration Cellular	Lymphocyte, Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Respirat Epith	Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Salivary Glands		Inflammation	Chronic, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
* Uterus		Hyperplasia	Cystic, Mild

[Hyperplasia TGLS = 1-8]

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 255

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 735
HISTO: mb069g-255

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* 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	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
--------------------------	---------------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Clitoral Gland		Dilatation	Moderate
* Kidney	Renal Tubule	Regeneration	Minimal
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 4-15]			
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Ovary		Cyst	Mild
[Cyst TGLS = 3-14]			
* Pituitary Gland	Pars Distalis	Adenoma	
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
* Uterus		Hyperplasia	Cystic, Marked
[Hyperplasia TGLS = 1-12,2-13]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 256

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 722
HISTO: MB069G-256

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea		

MISSING

* Gallbladder	* Thymus
---------------	----------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia Lymphoma Malignant Mixed	Mild
* Clitoral Gland		Dilatation	Mild
* Liver		Lymphoma Malignant Mixed	
[Lymphoma Malignant Mixed TGLS = 3-5]			
* Nose		Lymphoma Malignant Mixed	
* Ovary		Lymphoma Malignant Mixed	
[Lymphoma Malignant Mixed TGLS = 1-11]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-3,3.1]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 2-8,8.1]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 257

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Natural Death

DAY ON TEST: 9
HISTO: MB069G-257

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Esophagus	* Lymph Node, Mandibular	* Pituitary Gland	* Thymus
-------------	--------------------------	-------------------	----------

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 258	TRT#: 2 DOSE: 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO: MB069G-258
-----------------------	--------------------------------------	---	---

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Pituitary Gland
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	

MISSING

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

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Kidney		Inflammation	Chronic, Mild
* Salivary Glands		Inflammation	Chronic, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Moderate

[Hyperplasia TGLS = 1,2-11,12]

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 259

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 591
HISTO: MB069G-259

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Esophagus
* Gallbladder	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Parathyroid Gland	* Pituitary Gland
* Skin	* Thyroid Gland		

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone		Lymphoma Malignant Lymphocytic	
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Moderate
* Heart		Lymphoma Malignant Lymphocytic	
* Intestine Large, Cecum		Lymphoma Malignant Lymphocytic	
* Intestine Large, Rectum		Lymphoma Malignant Lymphocytic	
* Kidney		Lymphoma Malignant Lymphocytic	
* Liver		Lymphoma Malignant Lymphocytic	
	[Lymphoma Malignant Lymphocytic TGLS = 7-5]		
* Lung	Mediastinum	Lymphoma Malignant Lymphocytic	
		Lymphoma Malignant Lymphocytic	
	[Lymphoma Malignant Lymphocytic TGLS = 11-12]		
	[Lymphoma Malignant Lymphocytic TGLS = 11-12]		
Lymph Node	Iliac	Lymphoma Malignant Lymphocytic	
	Mediastinal	Lymphoma Malignant Lymphocytic	
	[Lymphoma Malignant Lymphocytic TGLS = 9-13]		
	[Lymphoma Malignant Lymphocytic TGLS = 8-11]		
* Lymph Node, Mandibular		Lymphoma Malignant Lymphocytic	
	[Lymphoma Malignant Lymphocytic TGLS = 1-2]		
* Lymph Node, Mesenteric		Lymphoma Malignant Lymphocytic	
	[Lymphoma Malignant Lymphocytic TGLS = 10-7]		
* Mammary Gland		Lymphoma Malignant Lymphocytic	
* Nose		Lymphoma Malignant Lymphocytic	
* Ovary		Lymphoma Malignant Lymphocytic	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 259

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 591
HISTO: MB069G-259

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Lymphoma Malignant Lymphocytic	
* Salivary Glands	Lymphoma Malignant Lymphocytic	
Skeletal Muscle	Lymphoma Malignant Lymphocytic	
* Spleen	Hematopoietic Cell Proliferation	Moderate
	Lymphoma Malignant Lymphocytic	
[Lymphoma Malignant Lymphocytic TGLS = 5-5]		
* Stomach, Forestomach	Hyperplasia	Mild
	Lymphoma Malignant Lymphocytic	
* Stomach, Glandular	Lymphoma Malignant Lymphocytic	
* Thymus	Lymphoma Malignant Lymphocytic	
* Trachea	Lymphoma Malignant Lymphocytic	
* Urinary Bladder	Lymphoma Malignant Lymphocytic	
[Lymphoma Malignant Lymphocytic TGLS = 2-8]		
* Uterus	Lymphoma Malignant Lymphocytic	
[Lymphoma Malignant Lymphocytic TGLS = 4-8, 3-8]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 260

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Scheduled Sacrifice

DAY ON TEST: 457
HISTO: MB069G-260

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea			

MISSING

* Ovary

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Kidney	Renal Tubule	Regeneration	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Lymphocyte, Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Respirat Epith	Degeneration	Hyaline, Minimal
* Pancreas		Inflammation	Chronic, Minimal
* Skin		Inflammation	Chronic Active, Minimal
	[Inflammation TGLS = 1-11]		
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
* Uterus		Hyperplasia	Cystic, Mild
	[Hyperplasia TGLS = 2-8]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 261

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-261

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea			

MISSING

* Gallbladder

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Mild
* Clitoral Gland		Dilatation	Mild
Harderian Gland		Adenoma	
[Adenoma TGLS = 3-11]			
* Kidney	Renal Tubule	Inflammation	Chronic, Minimal
		Regeneration	Minimal
* Liver		Hepatocellular Adenoma	
		Inflammation	Chronic Active, Minimal
[Hepatocellular Adenoma TGLS = 2-12]			
* Lung		Infiltration Cellular	Lymphocyte, Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Hemosiderin, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Marked
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
* Salivary Glands		Inflammation	Chronic, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Dilatation	Marked
		Hyperplasia	Cystic, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 261

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 736
HISTO: mb069g-261

ORGAN AND ACCOUNTABLE SITE STATUS

[Dilatation TGLS = 1-8,8.1]

[Hyperplasia TGLS = 1-8,8.1]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 262

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-262

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Esophagus
* Gallbladder	* 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	* Pituitary Gland	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		

MISSING

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

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Moderate
* Bone		Dysplasia	Mild
* Brain		Mineralization	Mild
* Clitoral Gland		Dilatation	Mild
* Kidney		Inflammation	Chronic, Minimal
	Renal Tubule	Regeneration	Minimal
* Liver		Angiectasis	Mild
	[Angiectasis TGLS = 2-11]		
* Lung		Infiltration Cellular	Lymphocyte, Minimal
	Note: Artifactual hemorrhage		
* Salivary Glands		Inflammation	Chronic, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Mild
	[Hyperplasia TGLS = 1-8,8.1]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 263

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Scheduled Sacrifice

DAY ON TEST: 457
HISTO: MB069G-263

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* 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
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea			

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Clitoral Gland		Dilatation	Mild
* Kidney		Inflammation	Chronic, Minimal
* Liver		Inflammation	Chronic Active, Mild
* Lung		Infiltration Cellular	Lymphocyte, Mild
* Nose	Olfactory Epi Respirat Epith	Degeneration	Hyaline, Mild
* Pancreas		Degeneration	Hyaline, Minimal
* Urinary Bladder		Inflammation	Chronic, Minimal
* Uterus		Infiltration Cellular	Lymphocyte, Minimal
		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 264

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 734
HISTO: mb069g-264

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Brain
* Esophagus	* Gallbladder	* 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
* Pituitary Gland	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Bone		Dysplasia	Minimal
* Clitoral Gland		Dilatation	Mild
* Kidney	Renal Tubule	Regeneration	Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Salivary Glands		Inflammation	Chronic, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
		Inflammation	Chronic Active, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Moderate

[Hyperplasia TGLS = 1-8,8.1]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 265

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Scheduled Sacrifice

DAY ON TEST: 457
HISTO: MB069G-265

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* 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	* Pituitary Gland
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Clitoral Gland		Dilatation	Moderate
* Kidney	Renal Tubule	Regeneration	Minimal
* Liver		Inflammation	Chronic Active, Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Respirat Epith	Degeneration	Hyaline, Minimal
* Pancreas		Inflammation	Chronic, Minimal
* Salivary Glands		Inflammation	Chronic, Minimal
* Thyroid Gland	Follicular Cel	Adenoma	
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
* Uterus		Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 266

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Natural Death

DAY ON TEST: 544
HISTO: MB069G-266

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mandibular	* Mammary Gland	* Ovary	* Pancreas
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Parathyroid Gland	* Thymus
---------------------	----------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
		Lymphoma Malignant Lymphocytic	
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Mild
		Inflammation	Chronic Active, Minimal
* Intestine Small, Duodenum		Lymphoma Malignant Lymphocytic	
* Intestine Small, Ileum		Lymphoma Malignant Lymphocytic	
* Intestine Small, Jejunum		Lymphoma Malignant Lymphocytic	
* Liver		Lymphoma Malignant Lymphocytic	
	[Lymphoma Malignant Lymphocytic TGLS = 1-5]		
* Lung		Lymphoma Malignant Lymphocytic	
* Lymph Node, Mesenteric		Lymphoma Malignant Lymphocytic	
	[Lymphoma Malignant Lymphocytic TGLS = 3-7]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Lymphoma Malignant Lymphocytic	
	[Hematopoietic Cell Proliferation TGLS = 2-5]		
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 267

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 735
HISTO: mb069g-267

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea		

MISSING

* Gallbladder

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Clitoral Gland		Dilatation	Moderate
* Kidney	Renal Tubule	Regeneration	Minimal
* Salivary Glands		Inflammation	Chronic, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Dilatation	Marked
		Hyperplasia	Cystic, Mild

[Dilatation TGLS = 1-8]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 268

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-268

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* 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	* Pituitary Gland	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea			

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Moderate
* Clitoral Gland		Dilatation	Moderate
* Kidney	Renal Tubule	Regeneration	Minimal
* Liver		Hepatocellular Adenoma	Multiple
[Hepatocellular Adenoma TGLS = 2-11,3-12]			
* Lung		Infiltration Cellular	Lymphocyte, Minimal
Mesentery	Fat	Necrosis	Mild
* Salivary Glands		Inflammation	Chronic, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
* Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 1-8,8.1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 269

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 734
HISTO: mb069g-269

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone Marrow
* Esophagus	* Gallbladder	* 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
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	

OBSERVATIONS

* Bone		Dysplasia	Mild
* Brain		Mineralization	Mild
* Clitoral Gland		Dilatation	Mild
Harderian Gland		Hyperplasia	Focal, Mild
[Hyperplasia TGLS = 4-11]			
* Kidney	Renal Tubule	Infarct	Minimal
		Regeneration	Mild
* Liver		Hepatocellular Adenoma	Multiple
[Hepatocellular Adenoma TGLS = 2,3-12]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicle	Cyst	Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 1-8]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 270	TRT#: 2	SEX: Female	DAY ON TEST: 734
	DOSE: 0 PPM	DISP: Terminal Sacrifice	HISTO: mb069g-270

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Thymus	* Thyroid Gland	* Trachea	

MISSING

* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Minimal
* Kidney	Renal Tubule	Regeneration	Minimal
* Stomach, Glandular		Dysplasia	Moderate
		Inflammation	Chronic Active, Mild
	[Dysplasia TGLS = 2-11,11.1]		
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Mild
	[Hyperplasia TGLS = 1-8]		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 271

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 735
HISTO: mb069g-271

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea			

MISSING

* Gallbladder

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Clitoral Gland		Dilatation	Moderate
* Kidney	Renal Tubule	Regeneration	Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Ovary		Cyst	Marked
[Cyst TGLS = 3-8]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Salivary Glands		Inflammation	Chronic, Minimal
* Skin		Inflammation	Chronic Active, Moderate
		Ulcer	Mild
[Inflammation TGLS = 1-12]			
[Ulcer TGLS = 1-12]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Urinary Bladder		Dilatation	Marked
[Dilatation TGLS = 4-11]			
* Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 2-8]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 272

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Scheduled Sacrifice

DAY ON TEST: 457
HISTO: MB069G-272

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Skin
* Spleen	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Clitoral Gland		Dilatation	Moderate
* Intestine Large, Cecum		Lymphoma Malignant Mixed	
* Intestine Small, Jejunum	Peyers Patch	Lymphoma Malignant Mixed	
	[Lymphoma Malignant Mixed TGLS = 4-4]		
* Kidney		Lymphoma Malignant Mixed	
* Liver		Hepatocellular Adenoma	
	[Hepatocellular Adenoma TGLS = 3-5]	Inflammation	Chronic Active, Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Lymphocyte, Mild
* Lymph Node, Mesenteric		Lymphoma Malignant Mixed	
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLS = 1-11]		
* Nose	Respirat Epith	Degeneration	Hyaline, Mild
* Salivary Glands		Inflammation	Chronic, Minimal
* Stomach, Glandular		Dilatation	Minimal
* Uterus		Dilatation	Marked
	[Dilatation TGLS = 2-8]	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 273

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Scheduled Sacrifice

DAY ON TEST: 457
HISTO: MB069G-273

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* 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	* Pituitary Gland
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Brain		Mineralization	Mild
* Clitoral Gland		Dilatation	Mild
* Kidney		Inflammation	Chronic, Minimal
* Liver		Basophilic Focus	
[Basophilic Focus TGLS = 2-5]			
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Salivary Glands		Inflammation	Chronic, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
* Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 1-8]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 274

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 735
HISTO: mb069g-274

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* 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	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea			

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Clitoral Gland		Dilatation	Moderate
* Kidney		Inflammation	Chronic, Minimal
	Renal Tubule	Regeneration	Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Salivary Glands		Inflammation	Chronic, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Mild
		Polyp Stromal	

[Hyperplasia TGLS = 1-8]

[Polyp Stromal TGLS = 1-8]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 275

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Natural Death

DAY ON TEST: 565
HISTO: MB069G-275

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* 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	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Minimal
* Liver		Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 1-11]			
* Nose	Olfactory Epi Respirat Epith	Degeneration	Hyaline, Mild
		Hyperplasia	Glandular, Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 2-8]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 276

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 735
HISTO: mb069g-276

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* 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
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Mild
* Kidney	Renal Tubule	Regeneration	Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
Mesentery	Fat	Necrosis	Marked
[Necrosis TGLS = 3-11]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Salivary Glands		Inflammation	Chronic, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 1,2-8]		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 277

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Scheduled Sacrifice

DAY ON TEST: 457
HISTO: MB069G-277

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* 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	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Moderate
* Kidney		Inflammation	Chronic, Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi Respirat Epith	Degeneration	Hyaline, Minimal
		Degeneration	Hyaline, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Mild

[Hyperplasia TGLS = 1-8]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 278

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 731
HISTO: mb069g-278

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* 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	* Pancreas
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea			

MISSING

* Parathyroid Gland	* Thyroid Gland
---------------------	-----------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Mild
* Clitoral Gland		Dilatation	Mild
* Kidney		Inflammation	Chronic, Minimal
	Renal Tubule	Regeneration	Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Ovary		Cyst	Marked
[Cyst TGLS = 2-11]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
* Salivary Glands		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 1-8]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 279

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 735
HISTO: mb069g-279

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Bone		Dysplasia	Minimal
* Brain		Mineralization	Mild
* Clitoral Gland		Dilatation	Moderate
* Liver		Hepatocellular Adenoma	Multiple
		Necrosis	Minimal
[Hepatocellular Adenoma TGLS = 2-11,3-12]			
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Salivary Glands		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
* Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 1-8]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 280

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-280

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Pituitary Gland	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea			

MISSING

* Parathyroid Gland

INSUFFICIENT TISSUE

* Thyroid Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Minimal
* Clitoral Gland		Pigmentation	Minimal
[Pigmentation TGLS = 1-8]			
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Salivary Glands		Inflammation	Chronic, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 2-8]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 281

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 735
HISTO: mb069g-281

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Brain
* Esophagus	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Bone		Dysplasia	Minimal
* Clitoral Gland		Dilatation	Mild
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Salivary Glands		Inflammation	Chronic, Minimal
* Thymus		Hyperplasia	Lymphoid, Minimal
* Uterus		Hyperplasia	Cystic, Mild

[Hyperplasia TGLS = 1-8]

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 282	TRT#: 2 DOSE: 0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO: MB069G-282
-----------------------	--------------------------------------	---	---

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* 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
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Clitoral Gland		Dilatation	Mild
* Kidney		Inflammation	Chronic, Minimal
* Liver		Hepatocellular Adenoma	
		Inflammation	Chronic Active, Minimal
	[Hepatocellular Adenoma TGLS = 2-11]		
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
* Uterus		Hyperplasia	Cystic, Moderate
	[Hyperplasia TGLS = 1-8]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 283	TRT#: 2	SEX: Female	DAY ON TEST: 582
	DOSE: 0 PPM	DISP: Natural Death	HISTO: mb069g-283

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* 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, Mesenteric	* Mammary Gland	* Ovary	Oviduct
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Mild
* Liver		Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 1-11]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Salivary Glands		Inflammation	Chronic, Minimal
* Thymus		Atrophy	Moderate
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 284

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 734
HISTO: MB069G-284

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	

MISSING

* Mammary Gland	* Thymus
-----------------	----------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone		Dysplasia	Mild
* Brain		Mineralization	Mild
* Clitoral Gland		Dilatation	Moderate
* Lung		Infiltration Cellular	Lymphocyte, Minimal
Mesentery	Fat	Necrosis	Marked
[Necrosis TGLS = 2-11]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Salivary Glands		Inflammation	Chronic, Moderate
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Dilatation	Marked
		Hyperplasia	Cystic, Minimal
[Dilatation TGLS = 1-8,8.1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 285

TRT#: 2

SEX: Female

DAY ON TEST: 651

DOSE: 0 PPM

DISP: Natural Death

HISTO: MB069G-285

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Intestine Small, Duodenum	* Parathyroid Gland
-----------------------------	---------------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
* Clitoral Gland		Dilatation	Mild
Lymph Node	Iliac	Inflammation	Chronic Active, Mild
[Inflammation TGLS = 2-11]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Ovary		Inflammation	Chronic Active, Moderate
* Spleen		Hematopoietic Cell Proliferation	Marked
* Thymus		Atrophy	Mild
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 1-12]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 286

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Natural Death

DAY ON TEST: 732
HISTO: mb069g-286

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Ileum	* Islets, Pancreatic	* Liver
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular Extra Adr Tiss	Hyperplasia Lymphoma Malignant Mixed	Minimal
* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Brain		Compression	Moderate
* Intestine Small, Duodenum		Lymphoma Malignant Mixed	
	[Lymphoma Malignant Mixed TGLS = 4-13,5-14]		
* Intestine Small, Jejunum		Lymphoma Malignant Mixed	
	[Lymphoma Malignant Mixed TGLS = 6-15]		
* Kidney	Perirenal Tiss	Lymphoma Malignant Mixed Lymphoma Malignant Mixed	
	Renal Tubule	Regeneration	Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node	Lumbar Mediastinal Pancreatic	Lymphoma Malignant Mixed Lymphoma Malignant Mixed Lymphoma Malignant Mixed	
	[Lymphoma Malignant Mixed TGLS = 2-11]		
	[Lymphoma Malignant Mixed TGLS = 3-12]		
	[Lymphoma Malignant Mixed TGLS = 8-3]		
* Lymph Node, Mandibular		Lymphoma Malignant Mixed	
* Lymph Node, Mesenteric		Lymphoma Malignant Mixed	
	[Lymphoma Malignant Mixed TGLS = 7-16]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 286

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Natural Death

DAY ON TEST: 732
HISTO: mb069g-286

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery		Lymphoma Malignant Mixed	
* Nose	Respirat Epith	Hyperplasia	Glandular, Mild
* Ovary	Periovarn Tiss	Lymphoma Malignant Mixed	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 9-3]			
* Salivary Glands		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Marked
[Hematopoietic Cell Proliferation TGLS = 10-17]			
* Thymus		Atrophy	Mild
* Uterus		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 287

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 735
HISTO: MB069G-287

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Intermed	Hyperplasia	Minimal
[Angiectasis TGLS = 2-3]			
* Thyroid Gland	Follicle	Cyst	Minimal
	Follicular Cel	Hyperplasia	Focal, Moderate
* Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 1-8,8.1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 288

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 570
HISTO: MB069G-288

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Clitoral Gland	* Gallbladder	* 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
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Uterus	

MISSING

* Esophagus	* Parathyroid Gland
-------------	---------------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Compression	Marked
		Mineralization	Minimal
* Kidney		Inflammation	Chronic, Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pituitary Gland	Pars Intermed	Adenoma	
[Adenoma TGLS = 1-3]			
* Salivary Glands		Inflammation	Chronic, Mild
* Stomach, Forestomach		Inflammation	Chronic Active, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 289

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 736
HISTO: MB069G-289

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Uterus			

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Minimal
* Liver		Eosinophilic Focus	Mild
* Lung		Infiltration Cellular	Lymphocyte, Mild
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Ovary		Cyst	Mild
[Cyst TGLS = 1-8.1]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 290

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Natural Death

DAY ON TEST: 497
HISTO: mb069g-290

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Jejunum	* Kidney	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pituitary Gland	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea

MISSING

* Clitoral Gland	* Parathyroid Gland
------------------	---------------------

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Small, Duodenum	* Intestine Small, Ileum
---------------	-----------------------------	--------------------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Brain		Mineralization	Minimal
* Islets, Pancreatic		Adenoma	
* Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 2-5]			
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Pancreas		Inflammation	Chronic, Mild
* Salivary Glands		Inflammation	Chronic, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 1-8]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 291

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 734
HISTO: MB069G-291

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* 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	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Moderate
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Mild
* Liver		Hematopoietic Cell Proliferation	Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Ovary		Cyst	Marked
[Cyst TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-3]			
* Spleen		Histiocytic Sarcoma	
[Histiocytic Sarcoma TGLS = 4-5,11]			
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 2-8]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 292

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Scheduled Sacrifice

DAY ON TEST: 457
HISTO: MB069G-292

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Brain		Mineralization	Mild
* Clitoral Gland		Dilatation	Mild
* Kidney		Inflammation	Chronic, Minimal
* Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 4-5]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Respirat Epith	Degeneration	Hyaline, Minimal
* Ovary		Cyst	Mild
* Salivary Glands		Inflammation	Chronic, Minimal
* Skin		Inflammation	Chronic Active, Minimal
[Inflammation TGLS = 1-7]			
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 3-8]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 293

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 272
HISTO: MB069G-293

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Parathyroid Gland	* Pituitary Gland	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Clitoral Gland		Dilatation	Mild
* Heart		Inflammation	Chronic Active, Minimal
* Kidney		Amyloid Deposition	Marked
[Amyloid Deposition TGLS = 4-8]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
* Pancreas	Acinar Cell	Depletion Secretory	Moderate
[Depletion Secretory TGLS = 2-2]			
* Salivary Glands		Inflammation	Chronic, Minimal
* Skin	Fat, Subcut Tiss	Atrophy	Moderate
		Developmental Malformation	
Note: FOCAL HYPERTRICHOSIS			
[Atrophy TGLS = 6-7]			
[Developmental Malformation TGLS = 5-11]			
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 294

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 736
HISTO: mb069g-294

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Brain
* Esophagus	* Gallbladder	* 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
* Pituitary Gland	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea

MISSING

* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Bone		Dysplasia	Minimal
* Kidney	Renal Tubule	Regeneration	Minimal
* Liver		Eosinophilic Focus	Minimal
		Hepatocellular Adenoma	Multiple
[Hepatocellular Adenoma TGLS = 2,3,4-11]			
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Salivary Glands		Inflammation	Chronic, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Moderate

[Hyperplasia TGLS = 1-8]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 295

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Scheduled Sacrifice

DAY ON TEST: 457
HISTO: MB069G-295

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Parathyroid Gland	* Pituitary Gland	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea			

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Brain		Mineralization	Mild
* Clitoral Gland		Dilatation	Mild
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pancreas		Inflammation	Chronic, Mild
* Salivary Glands		Inflammation	Chronic, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Moderate

[Hyperplasia TGLS = 1-8]

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 296

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 735
HISTO: MB069G-296

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Brain
* Esophagus	* Gallbladder	* 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	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Bone		Dysplasia	Minimal
* Clitoral Gland		Dilatation	Minimal
* Liver		Inflammation	Chronic Active, Minimal
* Ovary		Adenoma	
[Adenoma TGLS = 2-8]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
* Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 1-8]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 297

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 735
HISTO: MB069G-297

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Islets, Pancreatic	* Kidney	* Liver
* Lung	* Ovary	* Pancreas	* Parathyroid Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Clitoral Gland		Dilatation	Moderate
* Intestine Small, Jejunum		Lymphoma Malignant Mixed	
[Lymphoma Malignant Mixed TGLS = 4-11]			
* Lymph Node, Mandibular		Lymphoma Malignant Mixed	
[Lymphoma Malignant Mixed TGLS = 6-17]			
* Lymph Node, Mesenteric		Lymphoma Malignant Mixed	
[Lymphoma Malignant Mixed TGLS = 3-13]			
Mesentery		Lymphoma Malignant Mixed	
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Salivary Glands		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Lymphoma Malignant Mixed	
* Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 1,2-14,15]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 298

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 735
HISTO: MB069G-298

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Moderate
* Liver		Hepatocellular Carcinoma	
		Inflammation	Chronic Active, Minimal
	[Hepatocellular Carcinoma TGLS = 1-11]		
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Uterus		Dilatation	Marked
	[Dilatation TGLS = 2,3-12]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 299

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 735
HISTO: mb069g-299

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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
* Ovary	* Pancreas	* Parathyroid Gland	* Stomach, Forestomach
* Stomach, Glandular	* Trachea		

MISSING

* Gallbladder * Thymus

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Bone		Dysplasia	Moderate
* Clitoral Gland		Pigmentation	Mild
[Pigmentation TGLS = 2-13]			
* Kidney		Inflammation	Chronic, Minimal
	Renal Tubule	Regeneration	Minimal
* Liver		Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 3-11]			
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Salivary Glands		Inflammation	Chronic, Mild
* Skin	Epidermis	Hyperplasia	Moderate
	Subcut Tiss	Inflammation	Chronic Active, Moderate
	Subcut Tiss	Pigmentation	Mild
[Inflammation TGLS = 1-12]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	Follicle	Cyst	Moderate
	Follicular Cel	Hyperplasia	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Dilatation	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 299

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 735
HISTO: mb069g-299

ORGAN AND ACCOUNTABLE SITE STATUS

[Dilatation TGLS = 4-14]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 300

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 736
HISTO: MB069G-300

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Liver	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		

MISSING

* Clitoral Gland	* Lymph Node, Mandibular	* Parathyroid Gland
------------------	--------------------------	---------------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Mild

[Hyperplasia TGLS = 1-12]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 301

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-301

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Islets, Pancreatic	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Spleen	* Stomach, Forestomach	* Thymus
* Trachea			

MISSING

* Intestine Small, Jejunum

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Clitoral Gland		Dilatation	Marked
* Kidney		Inflammation	Chronic, Minimal
	Renal Tubule	Regeneration	Minimal
* Lung		Hemorrhage	Mild
[Hemorrhage TGLS = 2-6]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Salivary Glands		Inflammation	Chronic, Minimal
* Skin	Subcut Tiss	Sarcoma	
[Sarcoma TGLS = 1-11]			
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
		Inflammation	Chronic Active, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 302

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-302

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Kidney	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Trachea

MISSING

* Gallbladder	* Parathyroid Gland	* Thymus
---------------	---------------------	----------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Mild
* Lung		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Lymphocyte, Minimal
	[Alveolar/Bronchiolar Adenoma TGLS = 4-6]		
Mesentery	Fat	Necrosis	Minimal
	[Necrosis TGLS = 5-12]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Ovary		Adenoma	
	[Adenoma TGLS = 3-8]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Salivary Glands		Inflammation	Chronic, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hemorrhage	Mild
		Hyperplasia	Cystic, Mild
	[Hemorrhage TGLS = 2-8]		
	[Hyperplasia TGLS = 1,2-8]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 303

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-303

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Gallbladder	* Heart	* 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
* Pancreas	* Parathyroid Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	

OBSERVATIONS

* Adrenal Cortex		Hematopoietic Cell Proliferation	Moderate
	Subcapsular	Hyperplasia	Mild
* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
* Clitoral Gland		Dilatation	Minimal
Harderian Gland		Adenoma	
	[Adenoma TGLS = 6-12]		
* Kidney		Inflammation	Chronic, Minimal
		Squamous Cell Carcinoma	Metastatic (Uncertain Primary Site)
* Liver		Hematopoietic Cell Proliferation	Mild
	Note: GROSS LESION NOT IN ORIGINAL OR RECUT.		
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Lymph Node, Mesenteric		Squamous Cell Carcinoma	Metastatic (Uncertain Primary Site)
	[Squamous Cell Carcinoma TGLS = 8-7,14]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Ovary		Cyst	Marked
	[Cyst TGLS = 3-8]		
* Pituitary Gland	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Moderate
	[Cyst TGLS = 7-3]		
* Salivary Glands		Inflammation	Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation	Marked
	[Hematopoietic Cell Proliferation TGLS = 1-11]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 303

TRT#: 4
DOSE: 750 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 735
HISTO: MB069G-303

ORGAN AND ACCOUNTABLE SITE STATUS

* Urinary Bladder
* Uterus

Infiltration Cellular
Dilatation
Squamous Cell Carcinoma

Lymphocyte, Moderate
Marked
Metastatic (Uncertain Primary Site)

[Dilatation TGLS = 4-8]

[Squamous Cell Carcinoma TGLS = 5-13]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 304

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-304

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Brain
* Esophagus	* Gallbladder	* 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	* Pancreas	* Parathyroid Gland	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea			

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Bone		Dysplasia	Mild
* Clitoral Gland		Dilatation	Mild
* Kidney		Inflammation	Chronic, Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Ovary		Adenoma	
[Adenoma TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Salivary Glands		Inflammation	Chronic, Minimal
* Thyroid Gland	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
* Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 2-8]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 305

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-305

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Mild
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Ovary		Cyst	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Salivary Glands		Inflammation	Chronic, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Dilatation	Mild
		Hyperplasia	Cystic, Mild

[Dilatation TGLS = 1-8]

[Hyperplasia TGLS = 1-8]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 306

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-306

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea		

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Minimal
* Lung		Infiltration Cellular	Lymphocyte, Mild
* Ovary		Cyst	Moderate
[Cyst TGLS = 1-8]			
* Pituitary Gl			
Note: NOT IN ORIGINAL, RECUT, OR WET TISSUE.			
* Salivary Glands		Inflammation	Chronic, Minimal
* Spleen		Hyperplasia	Lymphoid, Mild
* Thymus		Hyperplasia	Lymphoid, Moderate
* Thyroid Gland	Follicular Cel	Adenoma	
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 2-8]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 307

TRT#: 4

SEX: Female

DAY ON TEST: 457

DOSE: 750 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-307

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* 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	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		

MISSING

* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Kidney		Inflammation	Chronic, Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Respirat Epith	Degeneration	Hyaline, Minimal
* Salivary Glands		Inflammation	Chronic, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Dilatation	Moderate
		Hyperplasia	Cystic, Mild

[Dilatation TGLS = 1-8]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 308

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-308

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Brain
* Esophagus	* Gallbladder	* 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	* Salivary Glands	* Skin	* Stomach, Forestomach
* Trachea			

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Bone		Dysplasia	Minimal
* Clitoral Gland		Dilatation	Minimal
		Inflammation	Chronic Active, Minimal
* Kidney		Inflammation	Chronic, Minimal
	Renal Tubule	Regeneration	Mild
* Liver		Hepatocellular Adenoma	
	[Hepatocellular Adenoma TGLS = 1-11]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 2-3]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Moderate
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 309

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-309

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* 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	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea		

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Clitoral Gland		Dilatation	Moderate
* Kidney	Renal Tubule	Regeneration	Minimal
* Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 2-11]			
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Salivary Glands		Inflammation	Chronic, Minimal
* Spleen		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 1-8,8.1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 310

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-310

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Thymus	* Trachea		

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Clitoral Gland		Dilatation	Mild
* Kidney	Renal Tubule	Regeneration	Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 311

TRT#: 4

SEX: Female

DAY ON TEST: 672

DOSE: 750 PPM

DISP: Natural Death

HISTO: MB069G-311

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Islets, Pancreatic	* Mammary Gland	* Pancreas
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea		

MISSING

* Parathyroid Gland	* Thymus
---------------------	----------

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

OBSERVATIONS

* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Mild
* Kidney		Histiocytic Sarcoma	
* Liver		Histiocytic Sarcoma	
[Histiocytic Sarcoma TGLS = 2-5]			
* Lung		Histiocytic Sarcoma	
Lymph Node	Mediastinal	Histiocytic Sarcoma	
[Histiocytic Sarcoma TGLS = 3-3]			
* Lymph Node, Mandibular		Histiocytic Sarcoma	
* Lymph Node, Mesenteric		Histiocytic Sarcoma	
[Histiocytic Sarcoma TGLS = 5-7]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Ovary		Histiocytic Sarcoma	
[Histiocytic Sarcoma TGLS = 4-8]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Histiocytic Sarcoma	
[Hematopoietic Cell Proliferation TGLS = 1-5]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 311

TRT#: 4
DOSE: 750 PPM

SEX: Female
DISP: Natural Death

DAY ON TEST: 672
HISTO: MB069G-311

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Histiocytic Sarcoma
Hyperplasia

Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 312

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-312

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Islets, Pancreatic	* Kidney	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea			

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Clitoral Gland		Dilatation	Mild
* Intestine Small, Jejunum		Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 2-11]			
* Ovary		Cyst	Minimal
* Salivary Glands		Inflammation	Chronic, Minimal
* Skin		Inflammation	Chronic Active, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Codeine
 CAS Number: 76-57-3

Date Report Requested: 10/21/2014
 Time Report Requested: 15:51:09
 First Dose M/F: NA / NA
 Lab: MBA

ANIMAL ID: 313

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-313

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* 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	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Clitoral Gland		Dilatation	Mild
* Liver		Eosinophilic Focus	
		Lymphoma Malignant Mixed	
[Eosinophilic Focus TGLS = 4-12]			
[Lymphoma Malignant Mixed TGLS = 2-11]			
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
[Angiectasis TGLS = 3-3]			
* Salivary Glands		Inflammation	Chronic, Minimal
* Spleen		Lymphoma Malignant Mixed	
* Thymus		Hyperplasia	Lymphoid, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 1-8]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 314

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-314

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Clitoral Gland		Dilatation	Mild
* Intestine Small, Jejunum		Lymphoma Malignant Mixed	
[Lymphoma Malignant Mixed TGLS = 6-13]			
* Kidney	Renal Tubule	Regeneration	Mild
* Liver		Lymphoma Malignant Mixed	
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Lymph Node, Mesenteric		Lymphoma Malignant Mixed	
[Lymphoma Malignant Mixed TGLS = 8-7]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-3,3.1]			
* Salivary Glands		Inflammation	Chronic, Minimal
* Skin			
Note: Mass not in original or recut and not apparent in wet tissues.			
* Spleen		Lymphoma Malignant Mixed	
[Lymphoma Malignant Mixed TGLS = 2,3-11]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Dilatation	Marked
		Hyperplasia	Cystic, Moderate
		Inflammation	Chronic Active, Mild
[Dilatation TGLS = 4-8,8.1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 314

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-314

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 5-8,8.1]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 315

TRT#: 4

SEX: Female

DAY ON TEST: 457

DOSE: 750 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-315

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* 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	* Parathyroid Gland	* Pituitary Gland	* Skin
* Spleen	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea			

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Clitoral Gland		Dilatation	Moderate
* Kidney		Inflammation	Chronic, Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Pancreas		Inflammation	Chronic, Minimal
* Salivary Glands		Inflammation	Chronic, Mild
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
* Uterus		Dilatation	Moderate
		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 316

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-316

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Pituitary Gland	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea			

MISSING

* Gallbladder	* Parathyroid Gland
---------------	---------------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Clitoral Gland		Dilatation	Moderate
* Kidney	Renal Tubule	Regeneration	Minimal
* Liver		Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 1-11]			
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Lymph Node, Mandibular		Hemorrhage	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Salivary Glands		Inflammation	Chronic, Minimal
* Thymus		Hyperplasia	Lymphoid, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 2-8]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 317

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-317

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* 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
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Moderate
Harderian Gland	Bilateral	Adenoma	
[Adenoma TGLS = 6-12]			
* Kidney		Inflammation	Chronic, Minimal
	Renal Tubule	Regeneration	Mild
* Liver		Eosinophilic Focus	Marked
[Eosinophilic Focus TGLS = 5-11]			
* Lung		Alveolar/Bronchiolar Adenoma	
[Alveolar/Bronchiolar Adenoma TGLS = 4-14]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
* Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 2-8]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 318

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-318

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* 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	* Pituitary Gland	* Skin	* Stomach, Forestomach
* Thymus	* Thyroid Gland	* Trachea	

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Mild
* Kidney	Renal Tubule	Regeneration	Minimal
* Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 4-13]			
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Salivary Glands		Inflammation	Chronic, Minimal
* Spleen		Lymphoma Malignant Mixed	
[Lymphoma Malignant Mixed TGLS = 3-12]			
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Mild
		Leiomyosarcoma	
[Hyperplasia TGLS = 1-8,8.1]			
[Leiomyosarcoma TGLS = 2-11]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 319

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-319

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	

MISSING

* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Minimal
* Kidney		Inflammation	Chronic, Minimal
	Renal Tubule	Regeneration	Minimal
* Liver		Eosinophilic Focus	Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Ovary		Cyst	Marked
[Cyst TGLS = 2-8]			
* Salivary Glands		Inflammation	Chronic, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
		Inflammation	Chronic Active, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Dilatation	Marked
[Dilatation TGLS = 1-11]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 320

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-320

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* 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
* Skin	* Stomach, Forestomach	* Thymus	* Trachea

MISSING

* Parathyroid Gland	* Pituitary Gland
---------------------	-------------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Moderate
		Pigmentation	Mild
[Pigmentation TGLS = 1-8,8.1]			
* Kidney	Renal Tubule	Inflammation	Chronic, Minimal
		Regeneration	Minimal
* Liver		Eosinophilic Focus	Mild
* Lung		Infiltration Cellular	Lymphocyte, Minimal
Mesentery	Fat	Necrosis	Marked
[Necrosis TGLS = 2-11]			
* Salivary Glands		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 3-8,8.1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 321

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-321

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea			

MISSING

* Gallbladder

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Clitoral Gland		Dilatation	Moderate
* Kidney	Renal Tubule	Regeneration	Mild
* Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 4-11]			
* Ovary		Cyst	Marked
[Cyst TGLS = 3-8]			
* Salivary Glands		Inflammation	Chronic, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus	Lymphatic	Ectasia	Marked
		Hyperplasia	Cystic, Marked
[Ectasia TGLS = 2-12]			
[Hyperplasia TGLS = 1-8,2-12]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 322

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-322

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* 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	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	

MISSING

* Clitoral Gland	* Thymus
------------------	----------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Kidney	Renal Tubule	Regeneration	Minimal
* Liver		Cyst	Mild
[Cyst TGLS = 4-11]			
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Ovary			
Note: Cyst apparently disrupted.			
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Salivary Glands		Inflammation	Chronic, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Marked
		Inflammation	Chronic Active, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
* Uterus		Dilatation	Marked
		Hyperplasia	Cystic, Mild
[Dilatation TGLS = 2-8]			
[Hyperplasia TGLS = 3-8]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 323	TRT#: 4	SEX: Female	DAY ON TEST: 479
	DOSE: 750 PPM	DISP: Moribund Sacrifice	HISTO: mb069g-323

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Gallbladder	* 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
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea		

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
* Clitoral Gland		Dilatation	Mild
* Heart		Mineralization	Minimal
* Int Lg Cecum			
Note: Edema present. Term not available.			
* Liver		Hematopoietic Cell Proliferation	Moderate
		Necrosis	Marked
[Necrosis TGLS = 3-5]			
* Lung			
Note: Leukocytosis present. Term not available.			
* Lymph Node, Mesenteric		Hematopoietic Cell Proliferation	Moderate
		Hemorrhage	Mild
[Hematopoietic Cell Proliferation TGLS = 4-7]			
[Hemorrhage TGLS = 4-7]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Ovary		Cyst	Mild
[Cyst TGLS = 5-8]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[Hematopoietic Cell Proliferation TGLS = 1-5]			
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 323

TRT#: 4

SEX: Female

DAY ON TEST: 479

DOSE: 750 PPM

DISP: Moribund Sacrifice

HISTO: mb069g-323

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Hyperplasia

Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 324

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-324

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* 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	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Trachea			

MISSING

* Lymph Node, Mesenteric	* Thymus
--------------------------	----------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Clitoral Gland		Inflammation	Chronic Active, Moderate
* Kidney	Renal Tubule	Regeneration	Mild
* Liver		Inflammation	Chronic Active, Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 1-7]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Ovary		Cyst	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Dilatation	Marked
		Hyperplasia	Cystic, Mild
[Dilatation TGLS = 2-8]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 325

TRT#: 4

SEX: Female

DAY ON TEST: 633

DOSE: 750 PPM

DISP: Moribund Sacrifice

HISTO: MB069G-325

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Skin	* Stomach, Forestomach	* Trachea	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Clitoral Gland		Dilatation	Mild
* Kidney		Lymphoma Malignant Mixed	
[Lymphoma Malignant Mixed TGLS = 5-8, 10-8]			
* Liver		Lymphoma Malignant Mixed	
[Lymphoma Malignant Mixed TGLS = 6-5]			
* Lung		Lymphoma Malignant Mixed	
Lymph Node	Iliac	Lymphoma Malignant Mixed	
[Lymphoma Malignant Mixed TGLS = 3-11]			
* Lymph Node, Mandibular		Lymphoma Malignant Mixed	
[Lymphoma Malignant Mixed TGLS = 1-2]			
* Lymph Node, Mesenteric		Lymphoma Malignant Mixed	
[Lymphoma Malignant Mixed TGLS = 9-7]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Ovary		Lymphoma Malignant Mixed	
* Pancreas		Lymphoma Malignant Mixed	
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Salivary Glands		Lymphoma Malignant Mixed	
* Spleen		Lymphoma Malignant Mixed	
[Lymphoma Malignant Mixed TGLS = 4-5]			
* Stomach, Glandular		Lymphoma Malignant Mixed	
* Thymus		Lymphoma Malignant Mixed	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 325

TRT#: 4
DOSE: 750 PPM

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 633
HISTO: MB069G-325

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
* Urinary Bladder		Lymphoma Malignant Mixed	
* Uterus		Hyperplasia	Cystic, Minimal
[Hyperplasia TGLS = 2-8]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 326

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-326

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Brain
* Esophagus	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone		Dysplasia	Moderate
* Clitoral Gland		Dilatation	Mild
* Kidney	Renal Tubule	Regeneration	Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Skin	Subcut Tiss	Sarcoma	
Note: Very pleomorphic [Sarcoma TGLS = 1-11]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 2-8,8.1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 327

TRT#: 4

SEX: Female

DAY ON TEST: 647

DOSE: 750 PPM

DISP: Moribund Sacrifice

HISTO: MB069G-327

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Trachea			

MISSING

* Gallbladder

OBSERVATIONS

* Adrenal Cortex		Hematopoietic Cell Proliferation	Minimal
	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
		Necrosis	Moderate
	[Hepatocellular Carcinoma TGLS = 3-5]		
* Lung	Alveolar Epith	Hyperplasia	Moderate
	[Hyperplasia TGLS = 4-12]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Skin	Subcut Tiss	Fibrosarcoma	
	[Fibrosarcoma TGLS = 1-11]		
* Spleen		Hematopoietic Cell Proliferation	Marked
	[Hematopoietic Cell Proliferation TGLS = 2-5]		
* Thymus		Atrophy	Marked
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 327

TRT#: 4

SEX: Female

DAY ON TEST: 647

DOSE: 750 PPM

DISP: Moribund Sacrifice

HISTO: MB069G-327

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 328

TRT#: 4

SEX: Female

DAY ON TEST: 677

DOSE: 750 PPM

DISP: Natural Death

HISTO: MB069G-328

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Trachea
* Urinary Bladder			

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
---------------	--------------------------	-----------------------------	--------------------------

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Moderate
	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Moderate
* Heart		Thrombosis	Moderate
[Thrombosis TGLS = 3-4]			
* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 5-5]			
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Lymph Node, Mesenteric		Fibrosis	Marked
[Fibrosis TGLS = 1-7]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Ovary		Cyst	Mild
* Pituitary Gland	Pars Intermed	Adenoma	
[Adenoma TGLS = 2-3,3.1]			
* Spleen		Fibrosis	Mild
		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach		Hyperplasia	Marked
* Stomach, Glandular		Necrosis	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 328

TRT#: 4
DOSE: 750 PPM

SEX: Female
DISP: Natural Death

DAY ON TEST: 677
HISTO: MB069G-328

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus
[Hyperplasia TGLS = 4-8]

Hyperplasia

Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 329

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-329

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* 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	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Mild
Harderian Gland		Adenoma	
[Adenoma TGLS = 2-12]			
* Kidney	Renal Tubule	Inflammation	Chronic, Minimal
		Regeneration	Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 1-11]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Salivary Glands		Inflammation	Chronic, Mild
* Thymus		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 330

TRT#: 4

SEX: Female

DAY ON TEST: 457

DOSE: 750 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-330

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 331

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-331

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* 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	* Ovary	* Pancreas
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mesenteric	* Parathyroid Gland	* Thymus
--------------------------	---------------------	----------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Clitoral Gland		Dilatation	Mild
* Kidney	Renal Tubule	Regeneration	Minimal
* Liver		Hematopoietic Cell Proliferation	Minimal
		Hepatocellular Adenoma	Multiple
[Hepatocellular Adenoma TGLS = 4,5-12]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3.1]			
* Skin	Subcut Tiss	Fibrosarcoma	
[Fibrosarcoma TGLS = 3-11]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Uterus		Hemorrhage	Moderate
		Hyperplasia	Cystic, Mild
[Hemorrhage TGLS = 2-8]			
[Hyperplasia TGLS = 2-8]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 332

TRT#: 4

SEX: Female

DAY ON TEST: 539

DOSE: 750 PPM

DISP: Moribund Sacrifice

HISTO: MB069G-332

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Clitoral Gland	* Parathyroid Gland
------------------	---------------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Thymus		Atrophy	Mild
* Uterus		Hyperplasia	Cystic, Minimal

[Hyperplasia TGLS = 4-8]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 333

TRT#: 4

SEX: Female

DAY ON TEST: 457

DOSE: 750 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-333

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Clitoral Gland		Dilatation	Mild
* Lung		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Lymphocyte, Minimal
[Alveolar/Bronchiolar Adenoma TGLS = 3-11]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Respirat Epith	Degeneration	Hyaline, Mild
	Respirat Epith	Inflammation	Chronic Active, Minimal
* Salivary Glands		Inflammation	Chronic, Minimal
* Thymus		Hyperplasia	Lymphoid, Mild
* Uterus		Dilatation	Marked
		Hyperplasia	Cystic, Mild
[Dilatation TGLS = 1-12]			
[Hyperplasia TGLS = 2-8]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 334

TRT#: 4

SEX: Female

DAY ON TEST: 359

DOSE: 750 PPM

DISP: Moribund Sacrifice

HISTO: MB069G-334

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Heart		Osteosarcoma	Metastatic (Skin)
* Liver		Hematopoietic Cell Proliferation	Minimal
* Lung	Mediastinum	Osteosarcoma	Metastatic (Skin)
		Osteosarcoma	Metastatic (Skin)
[Osteosarcoma TGLS = 2-6]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Skin	Epidermis	Hyperplasia	Minimal
	Subcut Tiss	Osteosarcoma	
[Osteosarcoma TGLS = 3-12]			
* Spleen		Hematopoietic Cell Proliferation	Marked
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 335

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-335

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Gallbladder	* 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	* Skin	* Spleen
* Stomach, Forestomach	* Thymus	* Trachea	

MISSING

* Adrenal Medulla	* Parathyroid Gland
-------------------	---------------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Clitoral Gland		Dilatation	Moderate
		Inflammation	Chronic Active, Minimal
* Heart	Artery	Inflammation	Chronic Active, Mild
* Kidney	Renal Tubule	Regeneration	Minimal
* Liver		Inflammation	Chronic Active, Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 1-11]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Salivary Glands		Inflammation	Chronic, Minimal
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Dilatation	Marked
[Dilatation TGLS = 2-8]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 336

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-336

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Brain
* Esophagus	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Ovary
* Pancreas	* Pituitary Gland	* Stomach, Forestomach	* Trachea

MISSING

* Clitoral Gland	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Parathyroid Gland
* Salivary Glands	* Thymus		

OBSERVATIONS

* Adren Medulla			
Note: A moderate sized nest of ganglion cells.			
* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Bone		Dysplasia	Minimal
* Kidney	Renal Tubule	Regeneration	Mild
* Liver		Eosinophilic Focus	Moderate
		Hematopoietic Cell Proliferation	Minimal
[Eosinophilic Focus TGLS = 5-13]			
* Lung		Infiltration Cellular	Lymphocyte, Mild
Mesentery		Fibrosarcoma	
[Fibrosarcoma TGLS = 1-11,12]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Skin		Inflammation	Chronic Active, Marked
* Spleen		Hematopoietic Cell Proliferation	Marked
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Dilatation	Moderate
		Hyperplasia	Cystic, Mild
[Dilatation TGLS = 2-14]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 336

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-336

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 337

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-337

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* 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
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Clitoral Gland		Dilatation	Mild
* Kidney	Renal Tubule	Regeneration	Mild
* Lung		Alveolar/Bronchiolar Carcinoma	
		Infiltration Cellular	Lymphocyte, Minimal
	[Alveolar/Bronchiolar Carcinoma TGLS = 2-11]		
* Pituitary Gland	Pars Distalis	Adenoma	
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
		Inflammation	Chronic Active, Minimal
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 338

TRT#: 4

SEX: Female

DAY ON TEST: 457

DOSE: 750 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-338

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Gallbladder	* 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	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Uterus		

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Clitoral Gland		Dilatation	Moderate
* Kidney		Inflammation	Chronic, Minimal
* Liver		Inflammation	Chronic Active, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pancreas		Inflammation	Chronic, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 339

TRT#: 4

SEX: Female

DAY ON TEST: 616

DOSE: 750 PPM

DISP: Moribund Sacrifice

HISTO: MB069G-339

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	Eye	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea			

MISSING

* Gallbladder

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Clitoral Gland		Dilatation	Mild
Harderian Gland		Carcinoma	
[Carcinoma TGLS = 1-9,11]			
* Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 4-5]			
* Lung		Carcinoma	Metastatic (Harderian Gland)
* Lymph Node, Mesenteric		Cyst	Moderate
* Salivary Glands		Inflammation	Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation	Marked
[Hematopoietic Cell Proliferation TGLS = 3-5]			
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Marked
[Hyperplasia TGLS = 2-8]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 340	TRT#: 4	SEX: Female	DAY ON TEST: 734
	DOSE: 750 PPM	DISP: Terminal Sacrifice	HISTO: mb069g-340

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Pituitary Gland	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		

MISSING

* Gallbladder	* Parathyroid Gland
---------------	---------------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Clitoral Gland		Dilatation	Minimal
* Kidney	Renal Tubule	Regeneration	Minimal
Mesentery	Fat	Necrosis	Marked
[Necrosis TGLS = 1-11]			
* Salivary Glands		Inflammation	Chronic, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 341 **TRT#:** 4 **SEX:** Female **DAY ON TEST:** 457
DOSE: 750 PPM **DISP:** Scheduled Sacrifice **HISTO:** MB069G-341

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* 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	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Moderate
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Moderate
* Kidney		Inflammation	Chronic, Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Mammary Gland		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Respirat Epith	Degeneration	Hyaline, Minimal
* Salivary Glands		Inflammation	Chronic, Moderate
* Thymus		Hyperplasia	Lymphoid, Moderate
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 342

TRT#: 4

SEX: Female

DAY ON TEST: 664

DOSE: 750 PPM

DISP: Natural Death

HISTO: MB069G-342

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* 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	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	Tissue NOS	* Trachea

MISSING

* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Heart		Fibrosis	Minimal
* Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 2-11]			
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Ovary		Cyst	Moderate
[Cyst TGLS = 3-8]			
Oviduct		Dilatation	Moderate
		Inflammation	Chronic Active, Moderate
[Dilatation TGLS = 4-8]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[Hematopoietic Cell Proliferation TGLS = 6-5]			
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
[Infiltration Cellular TGLS = 1-8]			
* Uterus		Hemangiosarcoma	
[Hemangiosarcoma TGLS = 5-12]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 343

TRT#: 4

SEX: Female

DAY ON TEST: 388

DOSE: 750 PPM

DISP: Moribund Sacrifice

HISTO: MB069G-343

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Clitoral Gland		Dilatation	Mild
* Liver		Mitotic Alteration	Mild
	Hepatocyte	Necrosis	Mild
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Skin	Subcut Tiss	Liposarcoma	
	[Liposarcoma TGLS = 1-11]		
* Spleen		Hematopoietic Cell Proliferation	Mild
		Infiltration Cellular	Plasma Cell, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 344

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-344

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood	* Blood Vessel
* Bone Marrow	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea			

MISSING

* Thymus

OBSERVATIONS

* Bone		Dysplasia	Minimal
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Moderate
* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Carcinoma	
		Inflammation	Chronic Active, Minimal
	[Hepatocellular Carcinoma TGLS = 2-11]		
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Ovary		Adenoma	
	Note: Papillary configuration.		
* Salivary Glands		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[Hematopoietic Cell Proliferation TGLS = 1-5]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
		Inflammation	Chronic Active, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
* Uterus		Hyperplasia	Cystic, Marked
	[Hyperplasia TGLS = 3-8,8.1]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 344

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-344

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 345

TRT#: 4

SEX: Female

DAY ON TEST: 512

DOSE: 750 PPM

DISP: Moribund Sacrifice

HISTO: MB069G-345

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Compression	Mild
		Degeneration	Mild
* Clitoral Gland		Dilatation	Mild
* Kidney		Inflammation	Chronic, Minimal
* Ovary		Cyst	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-3]			
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 346

TRT#: 4

SEX: Female

DAY ON TEST: 8

DOSE: 750 PPM

DISP: Natural Death

HISTO: MB069G-346

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Gallbladder	* Heart
* Intestine Large, Colon	* Intestine Large, Rectum	* Islets, Pancreatic	* Kidney
* Liver	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Uterus	

MISSING

* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Lymph Node, Mandibular
* Parathyroid Gland	* Pituitary Gland	* Urinary Bladder	

AUTO PRECLUDES DIAG.

* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
-----------------------------	--------------------------	----------------------------

OBSERVATIONS

* Thymus	Atrophy	Marked
----------	---------	--------

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 347

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-347

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* 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	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Clitoral Gland		Dilatation	Mild
* Kidney	Renal Tubule	Regeneration	Minimal
* Liver		Hepatocellular Adenoma	
		Inflammation	Chronic Active, Minimal
	[Hepatocellular Adenoma TGLS = 2-11]		
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 3-3]		
* Salivary Glands		Inflammation	Chronic, Minimal
* Spleen		Hyperplasia	Lymphoid, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 348

TRT#: 4

SEX: Female

DAY ON TEST: 8

DOSE: 750 PPM

DISP: Moribund Sacrifice

HISTO: MB069G-348

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Liver	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Clitoral Gland	* Lymph Node, Mandibular
------------------	--------------------------

OBSERVATIONS

* Bone Marrow	Congestion	Moderate
* Thymus	Atrophy	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 349

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-349

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* 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	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Clitoral Gland		Dilatation	Moderate
* Heart		Fibrosis	Minimal
* Islets, Pancreatic		Adenoma	
* Kidney	Renal Tubule	Inflammation	Chronic, Minimal
		Regeneration	Minimal
* Liver		Hepatocellular Carcinoma	
		[Hepatocellular Carcinoma TGLS = 2-11,12]	
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Salivary Glands		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 350	TRT#: 4	SEX: Female	DAY ON TEST: 348
	DOSE: 750 PPM	DISP: Natural Death	HISTO: MB069G-350

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, Jejunum
* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Skin	* Spleen
* Stomach, Forestomach	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Small, Ileum
---------------	--------------------------

OBSERVATIONS

* Blood Vessel	Aorta	Lymphoma Malignant Lymphocytic	
* Heart		Lymphoma Malignant Lymphocytic	
* Liver		Lymphoma Malignant Lymphocytic	
* Lung		Congestion	Mild
	Mediastinum	Lymphoma Malignant Lymphocytic	
		Lymphoma Malignant Lymphocytic	
[Congestion TGLS = 2-6]			
* Salivary Glands		Inflammation	Chronic, Minimal
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
* Thymus		Lymphoma Malignant Lymphocytic	
[Lymphoma Malignant Lymphocytic TGLS = 1-3]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 351

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-351

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Mild
* Kidney	Renal Tubule	Regeneration	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Salivary Glands		Inflammation	Chronic, Minimal
* Thymus		Hyperplasia	Lymphoid, Minimal
* Uterus		Hyperplasia	Cystic, Marked

[Hyperplasia TGLS = 1-12,2-11]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 352

TRT#: 4

SEX: Female

DAY ON TEST: 625

DOSE: 750 PPM

DISP: Natural Death

HISTO: MB069G-352

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Clitoral Gland		Dilatation	Moderate
		Pigmentation	Mild
	[Pigmentation TGLS = 1-8,8.1]		
* Heart		Thrombosis	Minimal
* Liver		Histiocytic Sarcoma	
	[Histiocytic Sarcoma TGLS = 4-5]		
* Lung		Histiocytic Sarcoma	
* Lymph Node, Mesenteric		Histiocytic Sarcoma	
* Spleen		Hematopoietic Cell Proliferation	Marked
	[Hematopoietic Cell Proliferation TGLS = 3-5]		
* Thymus		Atrophy	Marked
		Ectopic Parathyroid Gland	
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 353	TRT#: 4	SEX: Female	DAY ON TEST: 457
	DOSE: 750 PPM	DISP: Scheduled Sacrifice	HISTO: MB069G-353

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* 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	* Parathyroid Gland
* Pituitary Gland	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Moderate
* Kidney		Inflammation	Chronic, Minimal
* Liver		Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 2-5]			
* Nose	Olfactory Epi Respirat Epith	Degeneration	Hyaline, Minimal
		Degeneration	Hyaline, Minimal
* Pancreas		Inflammation	Chronic, Minimal
* Salivary Glands		Inflammation	Chronic, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Dilatation	Mild
		Hyperplasia	Cystic, Minimal
[Dilatation TGLS = 1-8]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 354

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-354

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* 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	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Trachea		

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Mild
* Kidney		Inflammation	Chronic, Minimal
	Renal Tubule	Regeneration	Minimal
* Liver		Hepatocellular Adenoma	
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
* Salivary Glands		Inflammation	Chronic, Minimal
* Thyroid Gland	Follicular Cel	Adenoma	
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Dilatation	Marked
		Hyperplasia	Cystic, Mild
[Dilatation TGLS = 2-8]			
[Hyperplasia TGLS = 1-8]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 355

TRT#: 4

SEX: Female

DAY ON TEST: 457

DOSE: 750 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-355

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* 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	* Pituitary Gland
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Clitoral Gland		Dilatation	Moderate
* Kidney		Inflammation	Chronic, Minimal
	Renal Tubule	Regeneration	Minimal
* Liver		Hepatocellular Adenoma	
		Inflammation	Chronic Active, Minimal
	[Hepatocellular Adenoma TGLS = 3-12]		
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Respirat Epith	Degeneration	Hyaline, Minimal
* Pancreas		Inflammation	Chronic, Minimal
* Salivary Glands		Inflammation	Chronic, Mild
* Skin		Inflammation	Chronic Active, Minimal
* Uterus		Hyperplasia	Cystic, Moderate
	[Hyperplasia TGLS = 2-8]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 356

TRT#: 4

SEX: Female

DAY ON TEST: 457

DOSE: 750 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-356

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		

MISSING

* Gallbladder

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone		Dysplasia	Minimal
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Moderate
* Kidney		Cyst	
		Inflammation	Chronic, Minimal
* Liver		Inflammation	Chronic Active, Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Respirat Epith	Degeneration	Hyaline, Minimal
* Ovary		Cyst	Marked
			[Cyst TGLS = 1-8]
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 357

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-357

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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
* Mammary Gland	* Ovary	* Parathyroid Gland	* Skin
* Stomach, Forestomach	* Thymus	* Trachea	

MISSING

* Gallbladder	* Pituitary Gland
---------------	-------------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	Minimal
		Hepatocellular Carcinoma	
		Inflammation	Chronic Active, Mild
[Eosinophilic Focus TGLS = 8-14]			
[Hepatocellular Carcinoma TGLS = 7-11,12]			
[Inflammation TGLS = 6-5]			
Mesentery		Hemangioma	
	Fat	Necrosis	Moderate
[Hemangioma TGLS = 1-15]			
[Necrosis TGLS = 2-15]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pancreas	Acinar Cell	Atrophy	Marked
	Duct	Cyst	Marked
[Cyst TGLS = 5-16]			
* Salivary Glands		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Marked
* Stomach, Glandular		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 357	TRT#: 4 DOSE: 750 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO: mb069g-357
-----------------------	--	---	---

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Moderate
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Dilatation	Moderate
[Dilatation TGLS = 4-8]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 358

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-358

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* Heart	* 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
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea			

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Minimal
* Kidney	Renal Tubule	Regeneration	Minimal
* Liver		Inflammation	Chronic Active, Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Lymph Node, Mesenteric		Cyst	Marked
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 1-11]			
* Pituitary Gland	Pars Distalis	Adenoma	
* Salivary Glands		Inflammation	Chronic, Minimal
* Spleen		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
		Inflammation	Chronic Active, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 359

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 750 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-359

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Esophagus
* Gallbladder	* 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
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Bone Marrow		Atrophy	Mild
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Moderate
* Kidney	Renal Tubule	Regeneration	Minimal
* Liver		Eosinophilic Focus	Minimal
		Inflammation	Chronic Active, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Mild

[Hyperplasia TGLS = 1-8]

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 360

TRT#: 4
DOSE: 750 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 735
HISTO: mb069g-360

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea

MISSING

* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone		Osteosarcoma	
[Osteosarcoma TGLS = 1-11]			
* Brain		Mineralization	Minimal
* Islets, Pancreatic		Adenoma	
* Kidney		Inflammation	Chronic, Minimal
	Renal Tubule	Regeneration	Mild
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Thyroid Gland	Follicle	Cyst	Mild
	Follicular Cel	Hyperplasia	Focal, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 361

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-361

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Gallbladder	* 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	* Pancreas	* Parathyroid Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea			

MISSING

* Esophagus

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Clitoral Gland		Dilatation	Mild
* Kidney	Renal Tubule	Regeneration	Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Ovary		Cyst	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			
* Salivary Glands		Inflammation	Chronic, Minimal
* Spleen		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Focal, Moderate
[Adenoma TGLS = 4-2,2.1]			
[Hyperplasia TGLS = 4-2,2.1]			
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Dilatation	Marked
		Hemangioma	
[Dilatation TGLS = 1,2-8,12]			
[Hemangioma TGLS = 3-11]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 361

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-361

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 362

TRT#: 6

SEX: Female

DAY ON TEST: 457

DOSE: 1500 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-362

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* 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	* Parathyroid Gland
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Clitoral Gland		Dilatation	Moderate
* Kidney		Inflammation	Chronic, Mild
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Respirat Epith	Degeneration	Hyaline, Mild
* Ovary		Cyst	Moderate
[Cyst TGLS = 3-11]			
* Pancreas		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Salivary Glands		Inflammation	Chronic, Mild
* Skin		Inflammation	Chronic Active, Minimal
[Inflammation TGLS = 1-12]			
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
* Uterus		Hyperplasia	Cystic, Minimal
[Hyperplasia TGLS = 2-8]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 363

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-363

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* 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	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Clitoral Gland	* Nose	* Pituitary Gland
------------------	--------	-------------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Kidney		Inflammation	Chronic, Minimal
	Renal Tubule	Regeneration	Minimal
* Liver		Inflammation	Chronic Active, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
		Inflammation	Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 364

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-364

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea		

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Clitoral Gland		Dilatation	Mild
* Kidney	Renal Tubule	Regeneration	Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Thymus		Hyperplasia	Lymphoid, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 1-8,8.1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 365

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-365

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Brain
* Esophagus	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea			

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Bone		Dysplasia	Mild
* Clitoral Gland		Dilatation	Mild
* Kidney	Renal Tubule	Regeneration	Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Dilatation	Moderate
		Hyperplasia	Cystic, Moderate

[Dilatation TGLS = 2-8]

[Hyperplasia TGLS = 1-8]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 366

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-366

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Gallbladder	* 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	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Esophagus	* Parathyroid Gland
-------------	---------------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Clitoral Gland		Dilatation	Moderate
* Kidney	Renal Tubule	Regeneration	Minimal
* Liver		Cyst	Moderate
		Eosinophilic Focus	Moderate
	Bile Duct	Hyperplasia	Mild
[Cyst TGLS = 3-11]			
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pituitary Gland	Craniophar Dct	Hyperplasia	Mild
* Salivary Glands		Inflammation	Chronic, Minimal
* Skin		Inflammation	Chronic Active, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicle	Cyst	Minimal
	Follicular Cel	Hyperplasia	Focal, Mild
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 367

TRT#: 6

SEX: Female

DAY ON TEST: 457

DOSE: 1500 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-367

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* 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	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Clitoral Gland		Dilatation	Mild
* Kidney		Inflammation	Chronic, Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Respirat Epith	Degeneration	Hyaline, Mild
* Salivary Glands		Inflammation	Chronic, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 368

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-368

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	

MISSING

* Parathyroid Gland	* Thymus
---------------------	----------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Moderate
* Kidney	Renal Tubule	Regeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3,3.1]			
* Salivary Glands		Inflammation	Chronic, Minimal
* Thyroid Gland	Follicle	Cyst	Moderate
	Follicular Cel	Hyperplasia	Focal, Minimal
		Inflammation	Chronic Active, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Minimal
		Polyp Stromal	
[Polyp Stromal TGLS = 1-8,8.1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 369

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-369

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* 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	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Kidney	Renal Tubule	Regeneration	Minimal
* Liver		Hepatocellular Carcinoma	
	[Hepatocellular Carcinoma TGLS = 1-12]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 370

TRT#: 6

SEX: Female

DAY ON TEST: 457

DOSE: 1500 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-370

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* 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
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea			

MISSING

* Clitoral Gland	* Parathyroid Gland
------------------	---------------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Kidney		Inflammation	Chronic, Minimal
* Liver		Inflammation	Chronic Active, Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Respirat Epith	Degeneration	Hyaline, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 371

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-371

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Esophagus
* Gallbladder	* 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

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone		Dysplasia	Mild
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Moderate
* Kidney	Renal Tubule	Regeneration	Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Moderate

[Hyperplasia TGLS = 1,2-11]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 372

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-372

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Clitoral Gland		Dilatation	Mild
* Kidney	Renal Tubule	Regeneration	Minimal
* Liver		Inflammation	Chronic Active, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 3-13]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Ovary	Periovarn Tiss	Infiltration Cellular	Lymphocyte, Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Salivary Glands		Inflammation	Chronic, Minimal
* Spleen		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
Ureter		Infiltration Cellular	Lymphocyte, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 373

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-373

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea		

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Clitoral Gland		Dilatation	Moderate
		Inflammation	Chronic Active, Minimal
* Kidney	Renal Tubule	Regeneration	Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Salivary Glands		Inflammation	Chronic, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Dilatation	Marked

[Dilatation TGLS = 1-11]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 374

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-374

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Esophagus
* Gallbladder	* 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
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea			

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Blood Vessel	Aorta	Inflammation	Chronic Active, Mild
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Moderate
* Kidney		Nephropathy	Moderate
	[Nephropathy TGLS = 1-8]		
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
		Infarct	Marked
		Inflammation	Chronic Active, Minimal
		Mixed Cell Focus	
	[Hepatocellular Adenoma TGLS = 3-12]		
	[Hepatocellular Carcinoma TGLS = 4-11]		
	[Infarct TGLS = 4,5-11]		
	[Mixed Cell Focus TGLS = 2-14]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pituitary Gland	Pars Intermed	Adenoma	
	Pars Distalis	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland	Follicle	Cyst	Minimal
	Follicular Cel	Hyperplasia	Focal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 374

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-374

ORGAN AND ACCOUNTABLE SITE STATUS

* Urinary Bladder

Infiltration Cellular

Lymphocyte, Minimal

* Uterus

Hyperplasia

Cystic, Moderate

[Hyperplasia TGLS = 6-8]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:09
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 375

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-375

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* 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	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Trachea		

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Moderate
* Kidney	Renal Tubule	Regeneration	Minimal
* Liver		Clear Cell Focus	
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Ovary		Cyst	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Thymus		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Marked

[Hyperplasia TGLS = 1-8]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 376

TRT#: 6

SEX: Female

DAY ON TEST: 457

DOSE: 1500 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-376

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* 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	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea			

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Mild
* Kidney		Inflammation	Chronic, Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Respirat Epith	Degeneration	Hyaline, Minimal
	Respirat Epith	Inflammation	Chronic Active, Mild
* Pancreas		Inflammation	Chronic, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Mild

[Hyperplasia TGLS = 2-8]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 377

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-377

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* 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	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Mild
* Kidney		Inflammation	Chronic, Minimal
	Renal Tubule	Regeneration	Minimal
* Liver		Hepatocellular Adenoma	
	[Hepatocellular Adenoma TGLS = 2-11]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Salivary Glands		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
		Inflammation	Chronic Active, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Mild
	[Hyperplasia TGLS = 1-8,8.1]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 378

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: MB069G-378

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone		Dysplasia	Mild
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Mild
Eye		Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 5-11]			
Harderian Gland		Inflammation	Chronic Active, Marked
[Inflammation TGLS = 6-11]			
* Islets, Pancreatic		Adenoma	
* Liver		Basophilic Focus	Moderate
[Basophilic Focus TGLS = 2-13]			
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Ovary		Cyst	Marked
[Cyst TGLS = 4-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-3]			
* Salivary Glands		Inflammation	Chronic, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 3-8]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 379

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-379

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	

MISSING

* Clitoral Gland	* Gallbladder
------------------	---------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone		Dysplasia	Minimal
* Kidney	Renal Tubule	Regeneration	Minimal
* Liver		Hemangiosarcoma	
		Hepatocellular Adenoma	
		[Hemangiosarcoma TGLS = 2-12]	
		[Hepatocellular Adenoma TGLS = 1-11]	
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Hyperplasia	Lymphoid, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Moderate
		[Hyperplasia TGLS = 4-13]	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 380

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-380

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Gallbladder	* 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
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Trachea		

MISSING

* Lymph Node, Mandibular	* Thymus
--------------------------	----------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Moderate
* Clitoral Gland		Dilatation	Moderate
		Inflammation	Chronic Active, Minimal
* Kidney	Renal Tubule	Regeneration	Minimal
* Liver		Hepatocellular Adenoma	
		Inflammation	Chronic Active, Minimal
	[Hepatocellular Adenoma TGLS = 3-11]		
* Lung		Alveolar/Bronchiolar Adenoma	
	[Alveolar/Bronchiolar Adenoma TGLS = 4-6]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Thyroid Gland	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Focal, Minimal
		Inflammation	Chronic Active, Minimal
	[Adenoma TGLS = 5-2,2.1]		
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Dilatation	Mild
		Hyperplasia	Cystic, Mild
	[Dilatation TGLS = 2-13]		
	[Hyperplasia TGLS = 2-13]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 380

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-380

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 381

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-381

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Brain
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Gallbladder

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Bone		Fracture	
Note: Fractured is healed, i.e. callus.			
* Clitoral Gland		Dilatation	Mild
		Inflammation	Chronic Active, Minimal
* Intestine Small, Duodenum		Ulcer	Mild
* Kidney	Renal Tubule	Karyomegaly	Mild
		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
[Hepatocellular Adenoma TGLS = 8-19]			
[Hepatocellular Carcinoma TGLS = 7-11,12,13]			
* Lymph Node, Mesenteric		Hematopoietic Cell Proliferation	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Ovary		Infiltration Cellular	Histiocyte, Moderate
* Skin	Epidermis	Hyperplasia	Mild
		Inflammation	Chronic Active, Marked
[Inflammation TGLS = 1-14,2-15]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
* Uterus		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 381

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-381

ORGAN AND ACCOUNTABLE SITE STATUS

[Atrophy TGLS = 4-16]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 382

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-382

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* 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, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea

OBSERVATIONS

* Adrenal Cortex		Adenoma	
	Subcapsular	Hyperplasia	Mild
* Clitoral Gland		Dilatation	Mild
		Inflammation	Chronic Active, Minimal
* Kidney	Renal Tubule	Regeneration	Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Marked
* Ovary		Cyst	Mild
		Infiltration Cellular	Histiocyte, Moderate
Note: TGL2 ncl-Possible cyst, but disrupted. [Cyst TGLS = 1-11]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 383

TRT#: 6

SEX: Female

DAY ON TEST: 724

DOSE: 1500 PPM

DISP: Moribund Sacrifice

HISTO: MB069G-383

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Skin	* Stomach, Forestomach	* Trachea	

MISSING

* Adrenal Cortex	* Adrenal Medulla	* Clitoral Gland
------------------	-------------------	------------------

OBSERVATIONS

* Brain	Mineralization	Minimal
* Liver	Lymphoma Malignant Mixed	
[Lymphoma Malignant Mixed TGLS = 2-5]		
* Lung	Alveolar/Bronchiolar Adenoma	
	Infiltration Cellular	Lymphocyte, Minimal
	Lymphoma Malignant Mixed	
[Alveolar/Bronchiolar Adenoma TGLS = 3-11]		
* Lymph Node, Mandibular	Lymphoma Malignant Mixed	
* Lymph Node, Mesenteric	Hematopoietic Cell Proliferation	Mild
	Hemorrhage	Mild
* Salivary Glands	Lymphoma Malignant Mixed	
* Spleen	Fibrosis	Mild
	Hematopoietic Cell Proliferation	Marked
[Hematopoietic Cell Proliferation TGLS = 1-5]		
* Stomach, Glandular	Necrosis	Mild
* Thymus	Atrophy	Mild
* Thyroid Gland	Follicular Cel	Focal, Minimal
* Urinary Bladder	Hyperplasia	Lymphocyte, Minimal
* Uterus	Infiltration Cellular	
	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 384

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-384

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* 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	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea			

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Mild
* Kidney		Inflammation	Chronic, Minimal
	Renal Tubule	Regeneration	Minimal
* Liver		Eosinophilic Focus	
		Lymphoma Malignant Mixed	
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Salivary Glands		Inflammation	Chronic, Minimal
* Spleen		Lymphoma Malignant Mixed	
		[Lymphoma Malignant Mixed TGLS = 1-5]	
* Thymus		Lymphoma Malignant Mixed	
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
		Inflammation	Chronic Active, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Marked
		[Hyperplasia TGLS = 2-8,8.1]	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 385

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-385

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* 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
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea		

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Moderate
* Kidney	Renal Tubule	Regeneration	Minimal
* Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 1-11]			
* Lung		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Lymphocyte, Mild
* Ovary		Cyst	Marked
[Cyst TGLS = 2-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
* Salivary Glands		Inflammation	Chronic, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 3-8]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 386 **TRT#:** 6 **SEX:** Female **DAY ON TEST:** 643
DOSE: 1500 PPM **DISP:** Moribund Sacrifice **HISTO:** MB069G-386

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lung	* Lymph Node, Mandibular
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Skin	* Stomach, Glandular	* Trachea	

MISSING

* Intestine Small, Ileum * Thymus

OBSERVATIONS

* Adrenal Cortex		Cyst	Mild
	Subcapsular	Hyperplasia	Mild
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Mild
* Liver		Atrophy	Moderate
		Cyst	Moderate
		Mineralization	Mild
[Cyst TGLS = 4-11]			
[Mineralization TGLS = 4-11]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Carcinoma	
[Carcinoma TGLS = 2-12]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Salivary Glands		Inflammation	Chronic, Minimal
* Spleen		Pigmentation	Hemosiderin, Mild
* Stomach, Forestomach		Hyperplasia	Moderate
		Inflammation	Chronic Active, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
* Uterus		Hyperplasia	Cystic, Marked
[Hyperplasia TGLS = 1-8]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 386

TRT#: 6

SEX: Female

DAY ON TEST: 643

DOSE: 1500 PPM

DISP: Moribund Sacrifice

HISTO: MB069G-386

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 387

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-387

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Moderate
* Kidney		Inflammation	Chronic, Minimal
	Renal Tubule	Regeneration	Minimal
* Liver		Eosinophilic Focus	Marked
[Eosinophilic Focus TGLS = 3-11]			
* Lung		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Lymphocyte, Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Ovary		Cyst	Marked
[Cyst TGLS = 1-12]			
* Pituitary Gland	Pars Intermed	Adenoma	
	Pars Distalis	Hyperplasia	Mild
* Salivary Glands		Inflammation	Chronic, Minimal
* Skin		Inflammation	Chronic Active, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
		Inflammation	Chronic Active, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 2-8]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 387

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-387

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 388

TRT#: 6

SEX: Female

DAY ON TEST: 457

DOSE: 1500 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-388

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* 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	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Clitoral Gland		Dilatation	Minimal
* Kidney		Inflammation	Chronic, Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Respirat Epith	Degeneration	Hyaline, Minimal
* Salivary Glands		Inflammation	Chronic, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 389

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-389

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* 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
* Ovary	* Pancreas	* Parathyroid Gland	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea			

MISSING

* Lymph Node, Mesenteric

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Brain		Compression	Marked
* Clitoral Gland		Dilatation	Mild
* Kidney	Renal Tubule	Regeneration	Minimal
* Liver		Hepatocellular Carcinoma	
		Infarct	Mild
[Hepatocellular Carcinoma TGLS = 4-11]			
* Mammary Gland		Hyperplasia	Marked
Mesentery	Fat	Necrosis	Marked
[Necrosis TGLS = 1-12]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-13]			
* Salivary Glands		Inflammation	Chronic, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Diffuse, Marked
		Inflammation	Chronic Active, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Dilatation	Marked
		Hyperplasia	Cystic, Marked
[Dilatation TGLS = 2-8,8.1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 389

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-389

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 2-8,8.1,3-14]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 390

TRT#: 6

SEX: Female

DAY ON TEST: 323

DOSE: 1500 PPM

DISP: Moribund Sacrifice

HISTO: MB069G-390

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	Ear	* Esophagus
* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Islets, Pancreatic	* Kidney	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea			

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Bone	Artery	Inflammation	Chronic Active, Moderate
* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
* Brain		Infiltration Cellular	Histiocyte, Mild
	Artery	Inflammation	Chronic Active, Mild
* Clitoral Gland		Dilatation	Mild
* Heart	Artery	Inflammation	Chronic Active, Marked
Lymph Node	Iliac	Hyperplasia	Lymphoid, Moderate
	Inguinal	Pigmentation	Minimal
[Hyperplasia TGLS = 3-13]			
[Pigmentation TGLS = 1-7]			
Mesentery	Artery	Inflammation	Chronic Active, Marked
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland		Inflammation	Chronic Active, Minimal
* Urinary Bladder	Artery	Inflammation	Chronic Active, Minimal
* Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 2-8]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 391

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-391

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* 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	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Moderate
		Pigmentation	Mild
[Pigmentation TGLS = 1-8,8.1]			
* Kidney	Renal Tubule	Regeneration	Minimal
* Liver		Hepatocellular Adenoma	Multiple
		Inflammation	Chronic Active, Minimal
[Hepatocellular Adenoma TGLS = 3-12,2-11]			
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Salivary Glands		Inflammation	Chronic, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 392

TRT#: 6

SEX: Female

DAY ON TEST: 727

DOSE: 1500 PPM

DISP: Moribund Sacrifice

HISTO: MB069G-392

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea		

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Mild
		Inflammation	Chronic Active, Minimal
* Liver		Lymphoma Malignant Mixed	
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Lymph Node, Mesenteric		Lymphoma Malignant Mixed	
* Salivary Glands		Inflammation	Chronic, Minimal
* Skin	Subcut Tiss	Sarcoma	
Note: MISTAKENLY SITED TO UTERUS AT NECROPSY.			
[Sarcoma TGLS = 2-11]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Lymphoma Malignant Mixed	
[Hematopoietic Cell Proliferation TGLS = 3-5]			
[Lymphoma Malignant Mixed TGLS = 3-5]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
* Urinary Bladder		Lymphoma Malignant Mixed	
* Uterus		Dilatation	Marked
[Dilatation TGLS = 1-8]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 393

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-393

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* 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	* Ovary	* Pancreas	* Parathyroid Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Intestine Small, Jejunum		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 2-13]			
* Kidney		Inflammation	Chronic, Minimal
	Renal Tubule	Regeneration	Minimal
* Liver		Eosinophilic Focus	Mild
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
[Hepatocellular Adenoma TGLS = 3-14]			
[Hepatocellular Carcinoma TGLS = 4-11]			
* Lung		Alveolar/Bronchiolar Adenoma	Multiple
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Salivary Glands		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
* Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 1-12]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 394

TRT#: 6

SEX: Female

DAY ON TEST: 457

DOSE: 1500 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-394

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Ovary	* Parathyroid Gland
* Pituitary Gland	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Uterus			

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Kidney		Inflammation	Chronic, Minimal
* Liver		Inflammation	Chronic Active, Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Nose	Olfactory Epi Respirat Epith	Degeneration	Hyaline, Mild
* Pancreas		Degeneration	Hyaline, Minimal
* Salivary Glands		Inflammation	Chronic, Minimal
* Urinary Bladder		Inflammation	Chronic, Mild
		Infiltration Cellular	Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 395

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-395

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea		

MISSING

* Gallbladder	* Parathyroid Gland
---------------	---------------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Clitoral Gland		Dilatation	Mild
* Kidney		Infarct	Mild
* Liver	Renal Tubule	Regeneration	Minimal
[Eosinophilic Focus TGLS = 3-13]		Eosinophilic Focus	Moderate
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
Mesentery	Fat	Necrosis	Marked
[Necrosis TGLS = 2-12]			
* Pituitary Gland	Pars Distalis	Adenoma	
* Salivary Glands		Inflammation	Chronic, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Moderate
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 1-11]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 396

TRT#: 6

SEX: Female

DAY ON TEST: 329

DOSE: 1500 PPM

DISP: Moribund Sacrifice

HISTO: MB069G-396

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Brain
* Esophagus	* Gallbladder	* 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	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mesenteric	* Ovary	* Uterus
--------------------------	---------	----------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone		Chondrosarcoma	
[Chondrosarcoma TGLS = 4-11]			
* Clitoral Gland		Dilatation	Mild
* Liver	Centrilobular	Inflammation	Chronic, Mild
	Centrilobular	Pigmentation	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
* Skin	Fat, Subcut Tiss	Atrophy	Moderate
[Atrophy TGLS = 2-7]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Mild
[Pigmentation TGLS = 3-5]			
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 397

TRT#: 6

SEX: Female

DAY ON TEST: 703

DOSE: 1500 PPM

DISP: Moribund Sacrifice

HISTO: mb069g-397

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Salivary Glands	Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Parathyroid Gland * Thymus

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Minimal
* Kidney		Inflammation	Chronic, Minimal
	Renal Tubule	Regeneration	Mild
* Liver		Eosinophilic Focus	
[Eosinophilic Focus TGLS = 5-5]			
* Lymph Node, Mandibular		Lymphoma Malignant Mixed	
* Lymph Node, Mesenteric		Lymphoma Malignant Mixed	
[Lymphoma Malignant Mixed TGLS = 4-11]			
* Pituitary Gland	Pars Distalis	Adenoma	
Skeletal Muscle		Hemangiosarcoma	
* Skin		Inflammation	Chronic Active, Mild
* Spleen		Hemangiosarcoma	
		Hematopoietic Cell Proliferation	Marked
[Hemangiosarcoma TGLS = 3-12]			
[Hematopoietic Cell Proliferation TGLS = 2-5]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 398

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-398

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* 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
* Pituitary Gland	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea			

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Moderate
* Kidney		Inflammation	Chronic, Minimal
	Renal Tubule	Regeneration	Minimal
* Liver		Inflammation	Chronic Active, Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Salivary Glands		Inflammation	Chronic, Minimal
* Skin		Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 2-12]			
* Spleen		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicle	Cyst	Minimal
	Follicular Cel	Hyperplasia	Focal, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 3-8]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 399

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-399

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Trachea

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Mild
* Clitoral Gland		Dilatation	Moderate
Harderian Gland		Adenoma	
[Adenoma TGLS = 4-13]			
* Lung		Infiltration Cellular	Lymphocyte, Minimal
Mesentery	Fat	Necrosis	Marked
[Necrosis TGLS = 1-11]			
* Ovary		Cyst	Marked
[Cyst TGLS = 3-12]			
* Thymus		Hyperplasia	Lymphoid, Marked
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Moderate
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 2-8]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 400

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-400

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* 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	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Mild
* Kidney	Renal Tubule	Regeneration	Mild
* Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 1-11]			
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Ovary		Cyst	Mild
[Cyst TGLS = 3,4-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
* Salivary Glands		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Moderate
[Hyperplasia TGLS = 5-2,2.1]			
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 2-8]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 401

TRT#: 6

SEX: Female

DAY ON TEST: 457

DOSE: 1500 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-401

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea			

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Clitoral Gland		Dilatation	Moderate
* Liver		Mixed Cell Focus	Mild
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Salivary Glands		Inflammation	Chronic, Minimal
* Thymus		Hyperplasia	Lymphoid, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
* Uterus		Hyperplasia	Cystic, Mild

[Hyperplasia TGLS = 1-8]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 402	TRT#: 6 DOSE: 1500 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: 8 HISTO: MB069G-402
-----------------------	---	--	---

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Lung	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mesenteric	* Parathyroid Gland	* Pituitary Gland
--------------------------	---------------------	-------------------

AUTO PRECLUDES DIAG.

* Intestine Small, Duodenum	* Intestine Small, Ileum
-----------------------------	--------------------------

OBSERVATIONS

* Bone Marrow	Congestion	Moderate
* Spleen	Atrophy	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 403	TRT#: 6	SEX: Female	DAY ON TEST: 734
	DOSE: 1500 PPM	DISP: Terminal Sacrifice	HISTO: mb069g-403

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Bone		Dysplasia	Mild
* Kidney		Inflammation	Chronic, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 404

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-404

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Clitoral Gland		Dilatation	Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Ovary		Cyst	Marked
[Cyst TGLS = 2,3-8]			
* Pancreas		Inflammation	Chronic Active, Mild
* Spleen		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
* Uterus		Hyperplasia	Cystic, Marked
[Hyperplasia TGLS = 1-8]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 405

TRT#: 6

SEX: Female

DAY ON TEST: 727

DOSE: 1500 PPM

DISP: Natural Death

HISTO: MB069G-405

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

AUTO PRECLUDES DIAG.

* Intestine Small, Duodenum

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Clitoral Gland		Dilatation	Moderate
* Kidney		Lymphoma Malignant Mixed	
[Lymphoma Malignant Mixed TGLS = 1-11]			
* Liver		Eosinophilic Focus	
		Inflammation	Chronic Active, Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node	Mediastinal	Lymphoma Malignant Mixed	
	Renal	Lymphoma Malignant Mixed	
[Lymphoma Malignant Mixed TGLS = 7-15]			
[Lymphoma Malignant Mixed TGLS = 3-13]			
* Lymph Node, Mandibular		Lymphoma Malignant Mixed	
[Lymphoma Malignant Mixed TGLS = 2-2]			
* Lymph Node, Mesenteric		Lymphoma Malignant Mixed	
[Lymphoma Malignant Mixed TGLS = 5-12]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Ovary		Lymphoma Malignant Mixed	
* Salivary Glands		Inflammation	Chronic, Minimal
* Spleen		Lymphoma Malignant Mixed	
* Thymus		Ectopic Thyroid	
		Lymphoma Malignant Mixed	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 405

TRT#: 6

SEX: Female

DAY ON TEST: 727

DOSE: 1500 PPM

DISP: Natural Death

HISTO: MB069G-405

ORGAN AND ACCOUNTABLE SITE STATUS

[Lymphoma Malignant Mixed TGLS = 4-14]

* Thyroid Gland

Follicular Cel

Hyperplasia

Focal, Minimal

* Uterus

Dilatation

Marked

[Dilatation TGLS = 6-8]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 406

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-406

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Clitoral Gland		Dilatation	Mild
Eye		Atrophy	Marked
[Atrophy TGLS = 6-12]			
Harderian Gland		Inflammation	Chronic Active, Marked
* Liver		Fatty Change	Focal, Mild
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
[Fatty Change TGLS = 3-13]			
[Hepatocellular Adenoma TGLS = 2-5]			
[Hepatocellular Carcinoma TGLS = 1-11]			
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Salivary Glands		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
[Hematopoietic Cell Proliferation TGLS = 7,8-5]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
* Uterus		Dilatation	Marked
[Dilatation TGLS = 4,5-8,8.1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 407

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-407

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	

MISSING

* Intestine Large, Rectum

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Bone		Dysplasia	Minimal
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Moderate
* Liver		Eosinophilic Focus	Minimal
		Hepatocellular Adenoma	
		Inflammation	Chronic Active, Minimal
		Necrosis	Minimal
[Hepatocellular Adenoma TGLS = 3-11]			
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus	Cervix	Inflammation	Chronic Active, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 408

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-408

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Blood Vessel

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy	Minimal Focal, Minimal
* Clitoral Gland		Dilatation	Minimal
* Lung		Alveolar/Bronchiolar Adenoma Infiltration Cellular	Lymphocyte, Minimal
	[Alveolar/Bronchiolar Adenoma TGLS = 2-6,6.1]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 3-3]		
* Salivary Glands		Inflammation	Chronic, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia Inflammation	Focal, Marked Chronic Active, Mild
* Uterus		Hyperplasia	Cystic, Mild
	[Hyperplasia TGLS = 1-8]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 409

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-409

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* 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	* Pituitary Gland	* Skin
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
--------------------------	---------------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Clitoral Gland		Dilatation	Moderate
* Kidney	Renal Tubule	Regeneration	Minimal
* Liver		Inflammation	Chronic Active, Minimal
		Mixed Cell Focus	
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Lymph Node, Mesenteric		Lymphoma Malignant Mixed	
* Ovary		Cyst	Minimal
* Salivary Glands		Inflammation	Chronic, Mild
* Spleen		Lymphoma Malignant Mixed	
	[Lymphoma Malignant Mixed TGLS = 2-5]		
* Stomach, Forestomach		Hyperplasia	Moderate
		Inflammation	Chronic Active, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
* Uterus		Hyperplasia	Cystic, Marked
		Polyp Stromal	
	[Hyperplasia TGLS = 1-8]		
	[Polyp Stromal TGLS = 1-8]		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 410	TRT#: 6 DOSE: 1500 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 736 HISTO: mb069g-410
-----------------------	---	---	---

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* 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	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea			

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Clitoral Gland		Dilatation	Moderate
* Kidney		Infarct	Minimal
* Liver		Necrosis	Minimal
* Pituitary Gland [Adenoma TGLS = 1-12]	Pars Distalis	Adenoma	
* Salivary Glands		Inflammation	Chronic, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 411

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-411

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Pituitary Gland	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Uterus			

MISSING

* Clitoral Gland	* Parathyroid Gland
------------------	---------------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Skin		Inflammation	Chronic Active, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 412

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-412

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone Marrow	* Esophagus	* Gallbladder
* 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	* Ovary
* Pancreas	* Parathyroid Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea		

MISSING

* Lymph Node, Mesenteric

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Mild
* Bone		Dysplasia	Minimal
* Brain		Compression	Marked
[Compression TGLS = 6-1]			
* Clitoral Gland		Dilatation	Mild
* Kidney	Renal Tubule	Regeneration	Minimal
* Mammary Gland		Carcinoma	
		Hyperplasia	Minimal
[Carcinoma TGLS = 1-11]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pituitary Gland	Pars Distalis	Carcinoma	
Note: Invasion of brain parenchyma in slide 1.			
[Carcinoma TGLS = 5-1,13]			
* Salivary Glands		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thymus		Atrophy	Mild
* Thyroid Gland	Follicle	Cyst	Mild
	Follicular Cel	Hyperplasia	Focal, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Dilatation	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 412

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-412

ORGAN AND ACCOUNTABLE SITE STATUS

[Dilatation TGLS = 2-12]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 413

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-413

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* 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	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Clitoral Gland		Dilatation	Mild
* Kidney	Renal Tubule	Regeneration	Minimal
* Liver		Eosinophilic Focus	Marked
		Hepatocellular Adenoma	Multiple
	[Hepatocellular Adenoma TGLS = 6-16,4-11,5-15]		
* Lung		Infiltration Cellular	Lymphocyte, Minimal
Mesentery	Fat	Necrosis	Marked
	[Necrosis TGLS = 3-14]		
* Ovary		Cyst	Minimal
	[Cyst TGLS = 2-13]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 414

TRT#: 6

SEX: Female

DAY ON TEST: 457

DOSE: 1500 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-414

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* 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	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Clitoral Gland		Dilatation	Mild
* Kidney		Inflammation	Chronic, Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Respirat Epith	Degeneration	Hyaline, Minimal
* Salivary Glands		Inflammation	Chronic, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Mild

[Hyperplasia TGLS = 1-8]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 415

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-415

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Esophagus
* Gallbladder	* 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
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea		

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Bone		Dysplasia	Mild
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Moderate
		Pigmentation	Mild
[Pigmentation TGLS = 1-8]			
* Kidney	Renal Tubule	Regeneration	Mild
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Salivary Glands		Inflammation	Chronic, Minimal
* Thymus		Hyperplasia	Lymphoid, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Marked

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 416

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-416

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea			

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Clitoral Gland		Dilatation	Mild
* Liver		Inflammation	Chronic Active, Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Ovary		Cyst	Mild
		Hemorrhage	Mild
[Cyst TGLS = 1-11]			
* Salivary Glands		Inflammation	Chronic, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 417

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-417

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Kidney	Renal Tubule	Regeneration	Minimal
* Liver		Hepatocellular Adenoma	
		Inflammation	Chronic Active, Minimal
[Hepatocellular Adenoma TGLS = 2-11]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
* Pancreas	Acinar Cell	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Mild
[Hematopoietic Cell Proliferation TGLS = 1-12]			
* Thymus		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
		Inflammation	Chronic Active, Minimal
* Uterus		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 418

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-418

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Uterus	

MISSING

* Gallbladder

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Compression	Mild
* Kidney	Renal Tubule	Regeneration	Minimal
* Liver		Inflammation	Chronic Active, Minimal
* Lung		Alveolar/Bronchiolar Carcinoma	
[Alveolar/Bronchiolar Carcinoma TGLS = 1-11]			
Mesentery	Fat	Necrosis	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Intermed	Adenoma	
[Adenoma TGLS = 2-3]			
* Spleen		Hyperplasia	Lymphoid, Mild
* Thymus		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Marked
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 419

TRT#: 6

SEX: Female

DAY ON TEST: 457

DOSE: 1500 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-419

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Parathyroid Gland	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Clitoral Gland		Dilatation	Marked
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Respirat Epith	Degeneration	Hyaline, Minimal
* Ovary		Cyst	Mild
* Pancreas		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Salivary Glands		Inflammation	Chronic, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
* Uterus		Dilatation	Moderate
		Hyperplasia	Cystic, Mild

[Dilatation TGLS = 1-8]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 420

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 1500 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-420

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea			

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-3]			
* Salivary Glands		Inflammation	Chronic, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Marked
[Hyperplasia TGLS = 1-8,8.1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 421

TRT#: 8

SEX: Female

DAY ON TEST: 711

DOSE: 3000 PPM

DISP: Natural Death

HISTO: MB069G-421

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Mammary Gland	* Pancreas	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Uterus	

MISSING

* Adrenal Medulla	* Blood Vessel	* Gallbladder	* Parathyroid Gland
* Thymus			

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Minimal
		Inflammation	Chronic Active, Mild
* Kidney		Inflammation	Chronic, Minimal
* Liver		Necrosis	Marked
* Lung		Alveolar/Bronchiolar Adenoma	
	[Alveolar/Bronchiolar Adenoma TGLS = 1-11]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Ovary		Cystadenoma	
	[Cystadenoma TGLS = 2-12]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 422

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-422

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* 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	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Clitoral Gland		Dilatation	Mild
		Inflammation	Chronic Active, Minimal
* Kidney		Inflammation	Chronic, Minimal
	Renal Tubule	Regeneration	Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
* Uterus		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 423

TRT#: 8

SEX: Female

DAY ON TEST: 680

DOSE: 3000 PPM

DISP: Natural Death

HISTO: mb069g-423

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic	* Liver
* Lung	* Mammary Gland	* Ovary	* Pancreas
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Clitoral Gland		Dilatation	Moderate
		Pigmentation	Mild
[Dilatation TGLS = 2-8]			
[Pigmentation TGLS = 2-8]			
* Intestine Small, Jejunum		Hemorrhage	Marked
		Lymphoma Malignant Mixed	
[Hemorrhage TGLS = 10-13, 9-4]			
[Lymphoma Malignant Mixed TGLS = 10-13]			
* Kidney		Hemorrhage	Marked
		Lymphoma Malignant Mixed	
[Hemorrhage TGLS = 6-8]			
[Lymphoma Malignant Mixed TGLS = 6-8]			
Lymph Node	Iliac	Lymphoma Malignant Mixed	
	Mediastinal	Lymphoma Malignant Mixed	
	Renal	Lymphoma Malignant Mixed	
[Lymphoma Malignant Mixed TGLS = 5-12]			
[Lymphoma Malignant Mixed TGLS = 4-11]			
[Lymphoma Malignant Mixed TGLS = 7-3,3.1]			
* Lymph Node, Mandibular		Lymphoma Malignant Mixed	
* Lymph Node, Mesenteric		Lymphoma Malignant Mixed	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 423	TRT#: 8 DOSE: 3000 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: 680 HISTO: mb069g-423
-----------------------	---	--	---

ORGAN AND ACCOUNTABLE SITE STATUS

[Lymphoma Malignant Mixed TGLS = 8-14]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation Lymphoma Malignant Mixed	Moderate
[Hematopoietic Cell Proliferation TGLS = 3-5]			
[Lymphoma Malignant Mixed TGLS = 3-5]			
* Thymus		Atrophy	Marked
* Thyroid Gland	Follicle Follicular Cel	Cyst Hyperplasia	Moderate Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 424

TRT#: 8

SEX: Female

DAY ON TEST: 619

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: MB069G-424

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Mammary Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Clitoral Gland	* Parathyroid Gland
------------------	---------------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Intestine Small, Duodenum		Lymphoma Malignant Mixed	
[Lymphoma Malignant Mixed TGLS = 5-12]			
* Kidney		Lymphoma Malignant Mixed	
* Liver		Lymphoma Malignant Mixed	
[Lymphoma Malignant Mixed TGLS = 3-5]			
* Lymph Node, Mesenteric		Lymphoma Malignant Mixed	
[Lymphoma Malignant Mixed TGLS = 4-11]			
Mesentery		Lymphoma Malignant Mixed	
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Ovary		Lymphoma Malignant Mixed	
* Pancreas		Lymphoma Malignant Mixed	
* Spleen		Lymphoma Malignant Mixed	
[Lymphoma Malignant Mixed TGLS = 1-5]			
* Thymus		Lymphoma Malignant Mixed	
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
* Uterus		Dilatation	Marked
[Dilatation TGLS = 2-8]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 425

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-425

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Skin	* Spleen
* Stomach, Forestomach	* Thymus	* Trachea	

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Clitoral Gland		Dilatation	Mild
* Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 2-11]			
* Lung		Infiltration Cellular	Lymphocyte, Minimal
Note: Agonal hemorrhage - no lesion.			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
[Hyperplasia TGLS = 4-3]			
* Salivary Glands		Inflammation	Chronic, Minimal
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
* Thyroid Gland	Follicle	Cyst	Mild
	Follicular Cel	Hyperplasia	Focal, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
* Uterus		Hyperplasia	Cystic, Marked
[Hyperplasia TGLS = 3-8]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 426

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-426

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Trachea		

MISSING

* Gallbladder	* Parathyroid Gland	* Thymus
---------------	---------------------	----------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Clitoral Gland		Dilatation	Mild
		Inflammation	Chronic Active, Minimal
* Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Lymphocyte, Minimal
[Hyperplasia TGLS = 2-12]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Minimal
* Salivary Glands		Inflammation	Chronic, Minimal
* Thyroid Gland	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 427	TRT#: 8	SEX: Female	DAY ON TEST: 457
	DOSE: 3000 PPM	DISP: Scheduled Sacrifice	HISTO: MB069G-427

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Clitoral Gland		Dilatation	Mild
* Kidney		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Respirat Epith	Degeneration	Hyaline, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
* Uterus		Dilatation	Moderate

[Dilatation TGLS = 1-8]

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 428

TRT#: 8

SEX: Female

DAY ON TEST: 556

DOSE: 3000 PPM

DISP: Natural Death

HISTO: MB069G-428

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Uterus		

MISSING

* Gallbladder

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
		Lymphoma Malignant Mixed	
* Clitoral Gland		Dilatation	Mild
* Kidney		Lymphoma Malignant Mixed	
	[Lymphoma Malignant Mixed TGLS = 3-8]		
* Liver		Lymphoma Malignant Mixed	
	[Lymphoma Malignant Mixed TGLS = 9-5, 8-5]		
* Lung		Lymphoma Malignant Mixed	
Lymph Node	Bronchial	Lymphoma Malignant Mixed	
	Iliac	Lymphoma Malignant Mixed	
	Renal	Lymphoma Malignant Mixed	
	[Lymphoma Malignant Mixed TGLS = 4-11]		
	[Lymphoma Malignant Mixed TGLS = 5-3]		
	[Lymphoma Malignant Mixed TGLS = 6-12]		
* Lymph Node, Mandibular		Lymphoma Malignant Mixed	
	[Lymphoma Malignant Mixed TGLS = 1-2]		
* Lymph Node, Mesenteric		Lymphoma Malignant Mixed	
	[Lymphoma Malignant Mixed TGLS = 7-7]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Ovary		Lymphoma Malignant Mixed	
* Pancreas		Lymphoma Malignant Mixed	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 428

TRT#: 8

SEX: Female

DAY ON TEST: 556

DOSE: 3000 PPM

DISP: Natural Death

HISTO: MB069G-428

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands

Lymphoma Malignant Mixed

* Spleen

Lymphoma Malignant Mixed

[Lymphoma Malignant Mixed TGLS = 2-5]

* Thymus

Lymphoma Malignant Mixed

* Thyroid Gland

Follicular Cel

Hyperplasia

Focal, Mild

* Urinary Bladder

Lymphoma Malignant Mixed

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 429

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-429

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* 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	* Stomach, Forestomach	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Clitoral Gland		Dilatation	Moderate
* Kidney		Infarct	Mild
* Liver		Eosinophilic Focus	Moderate
[Eosinophilic Focus TGLS = 2-11]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Glandular		Cyst	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 430

TRT#: 8

SEX: Female

DAY ON TEST: 598

DOSE: 3000 PPM

DISP: Natural Death

HISTO: MB069G-430

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic	* Mammary Gland
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea			

MISSING

* Parathyroid Gland	* Thymus
---------------------	----------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Intestine Small, Jejunum		Histiocytic Sarcoma	
* Kidney		Histiocytic Sarcoma	
* Liver		Histiocytic Sarcoma	
[Histiocytic Sarcoma TGLS = 3-5]			
* Lung		Histiocytic Sarcoma	
Lymph Node	Mediastinal	Histiocytic Sarcoma	
* Lymph Node, Mandibular		Histiocytic Sarcoma	
* Lymph Node, Mesenteric		Histiocytic Sarcoma	
[Histiocytic Sarcoma TGLS = 2-7]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Ovary		Histiocytic Sarcoma	
* Pancreas		Histiocytic Sarcoma	
* Salivary Glands		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
[Histiocytic Sarcoma TGLS = 1-11]			
* Thyroid Gland		Histiocytic Sarcoma	
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Histiocytic Sarcoma	
		Hyperplasia	Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 430

TRT#: 8

SEX: Female

DAY ON TEST: 598

DOSE: 3000 PPM

DISP: Natural Death

HISTO: MB069G-430

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 431

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-431

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Compression	Moderate
[Compression TGLS = 4-1]			
* Clitoral Gland		Dilatation	Mild
* Eye	Cornea	Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 3-12]			
* Harderian Gland		Inflammation	Chronic Active, Mild
* Liver		Hepatocellular Adenoma	
		Inflammation	Chronic Active, Minimal
[Hepatocellular Adenoma TGLS = 2-11]			
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
* Salivary Glands		Inflammation	Chronic, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 432

TRT#: 8

SEX: Female

DAY ON TEST: 457

DOSE: 3000 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-432

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea			

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Clitoral Gland		Dilatation	Moderate
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Ovary		Cyst	Marked
[Cyst TGLS = 3-8]			
* Salivary Glands		Inflammation	Chronic, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Dilatation	Marked
		Hyperplasia	Cystic, Mild
[Dilatation TGLS = 1-8]			
[Hyperplasia TGLS = 2-8]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 433

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-433

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* 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	* Pancreas	* Parathyroid Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Clitoral Gland		Dilatation	Mild
* Kidney		Lymphoma Malignant Mixed	
* Lung		Lymphoma Malignant Mixed	
Lymph Node	Renal	Lymphoma Malignant Mixed	
[Lymphoma Malignant Mixed TGLS = 5-11]			
* Lymph Node, Mesenteric		Lymphoma Malignant Mixed	
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Ovary		Cyst	Minimal
[Cyst TGLS = 1-8,8.1]			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Intermed	Hyperplasia	Moderate
* Salivary Glands		Inflammation	Chronic, Minimal
* Spleen		Lymphoma Malignant Mixed	
[Lymphoma Malignant Mixed TGLS = 3-5]			
* Thymus		Hyperplasia	Lymphoid, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 2-8,8.1]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 434

TRT#: 8

SEX: Female

DAY ON TEST: 506

DOSE: 3000 PPM

DISP: Natural Death

HISTO: mb069g-434

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Liver	* Lymph Node, Mandibular	* Mammary Gland	* Ovary
Oviduct	* Pancreas	* Pituitary Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	

MISSING

* Clitoral Gland	* Lymph Node, Mesenteric	* Parathyroid Gland
------------------	--------------------------	---------------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Skin	Subcut Tiss	Hemangiosarcoma	
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thymus		Atrophy	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
		Inflammation	Chronic Active, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Minimal

[Hyperplasia TGLS = 3-8]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 435

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-435

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* 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
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		

MISSING

* Gallbladder

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone		Dysplasia	Minimal
* Clitoral Gland		Dilatation	Mild
Eye		Inflammation	Chronic Active, Minimal
[Inflammation TGLS = 4-13]		Inflammation	Chronic Active, Moderate
Harderian Gland		Adenoma	
[Adenoma TGLS = 5-13]			
* Kidney	Renal Tubule	Regeneration	Mild
* Liver		Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 2-12]		Inflammation	Chronic Active, Minimal
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Salivary Glands		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
[Hematopoietic Cell Proliferation TGLS = 1-11]			
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 3-8,8.1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 435

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-435

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 436

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-436

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Clitoral Gland		Dilatation	Mild
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Minimal
* Salivary Glands		Inflammation	Chronic, Minimal
* Spleen		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Marked
* Uterus		Hyperplasia	Cystic, Marked

[Hyperplasia TGLS = 1-8]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 437

TRT#: 8

SEX: Female

DAY ON TEST: 457

DOSE: 3000 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-437

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Clitoral Gland		Dilatation	Moderate
* Kidney		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Respirat Epith	Degeneration	Hyaline, Minimal
* Salivary Glands		Inflammation	Chronic, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Moderate

[Hyperplasia TGLS = 1-8]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 438

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-438

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Parathyroid Gland	* Pituitary Gland	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Clitoral Gland		Dilatation	Mild
		Inflammation	Chronic Active, Moderate
* Kidney	Renal Tubule	Regeneration	Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pancreas	Acinar Cell	Atrophy	Moderate
	Duct	Cyst	Mild
[Cyst TGLS = 1-2]			
* Salivary Glands		Inflammation	Chronic, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
* Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 2-8]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 439 **TRT#:** 8 **SEX:** Female **DAY ON TEST:** 711
DOSE: 3000 PPM **DISP:** Natural Death **HISTO:** MB069G-439

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Brain
* Esophagus	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	

MISSING

* Parathyroid Gland * Thymus

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia Inflammation	Mild Chronic Active, Marked
* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Clitoral Gland		Dilatation	Moderate
* Kidney	Perirenal Tiss	Inflammation Inflammation	Chronic Active, Moderate Chronic, Minimal
* Liver		Basophilic Focus Hematopoietic Cell Proliferation	Minimal Mild
* Lung		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node	Mediastinal	Hyperplasia	Plasma Cell, Marked
	[Hyperplasia TGLS = 1-3,3.1]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Ovary		Abscess	Marked
	[Abscess TGLS = 3-11]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Marked
	Capsule	Inflammation	Chronic Active, Moderate
	[Hematopoietic Cell Proliferation TGLS = 2-5]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 439

TRT#: 8

SEX: Female

DAY ON TEST: 711

DOSE: 3000 PPM

DISP: Natural Death

HISTO: MB069G-439

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 440	TRT#: 8	SEX: Female	DAY ON TEST: 736
	DOSE: 3000 PPM	DISP: Terminal Sacrifice	HISTO: mb069g-440

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Trachea		

MISSING

* Parathyroid Gland	* Thymus
---------------------	----------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Clitoral Gland		Dilatation	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Dilatation	Marked
		Hyperplasia	Cystic, Mild

[Dilatation TGLS = 1,2-8,8.1]

[Hyperplasia TGLS = 1-8,8.1]

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 441

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-441

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* 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
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Clitoral Gland		Dilatation	Mild
* Kidney		Inflammation	Chronic, Minimal
* Liver		Hepatocellular Adenoma	Multiple
[Hepatocellular Adenoma TGLS = 2-11]			
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Salivary Glands		Inflammation	Chronic, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
* Uterus		Dilatation	Moderate
		Hyperplasia	Cystic, Mild
[Dilatation TGLS = 1-8]			
[Hyperplasia TGLS = 1-8]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 442

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-442

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* 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	* Thymus
* Trachea			

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Clitoral Gland		Dilatation	Moderate
* Kidney		Inflammation	Chronic, Minimal
	Renal Tubule	Regeneration	Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Stomach, Forestomach		Inflammation	Chronic Active, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Mild

[Hyperplasia TGLS = 1-8,8.1]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 443

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-443

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Gallbladder	* Parathyroid Gland
---------------	---------------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Clitoral Gland		Dilatation	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
	[Hepatocellular Adenoma TGLS = 3-14]		
	[Hepatocellular Carcinoma TGLS = 1,2-11,12,13]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pancreas	Acinar Cell	Atrophy	Marked
	Duct	Cyst	Marked
	[Cyst TGLS = 4-2,2.1]		
* Pituitary Gland	Pars Intermed	Adenoma	
* Salivary Glands		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Ectopic Parathyroid Gland	
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 444

TRT#: 8

SEX: Female

DAY ON TEST: 631

DOSE: 3000 PPM

DISP: Natural Death

HISTO: MB069G-444

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Uterus			

MISSING

* Intestine Large, Rectum	* Lymph Node, Mandibular	* Parathyroid Gland	* Pituitary Gland
---------------------------	--------------------------	---------------------	-------------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia Inflammation	Mild Chronic Active, Moderate
* Clitoral Gland		Dilatation	Mild
* Gallbladder		Inflammation	Chronic Active, Mild
* Kidney	Capsule	Inflammation	Chronic Active, Mild
* Liver	Kupffer Cell	Hematopoietic Cell Proliferation Hypertrophy	Minimal Marked
* Mammary Gland		Inflammation	Chronic Active, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Ovary		Abscess Inflammation	Marked Chronic Active, Moderate
[Abscess TGLS = 4-11]			
* Pancreas		Inflammation	Chronic Active, Moderate
* Salivary Glands		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Marked
[Hematopoietic Cell Proliferation TGLS = 2-5]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
* Urinary Bladder		Inflammation	Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 445

TRT#: 8

SEX: Female

DAY ON TEST: 457

DOSE: 3000 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-445

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* 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, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Clitoral Gland		Dilatation	Moderate
* Kidney		Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Respirat Epith	Degeneration	Hyaline, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Uterus		Hyperplasia	Cystic, Marked

[Hyperplasia TGLS = 1-8]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 446

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-446

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* 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	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Moderate
* Kidney	Renal Tubule	Regeneration	Mild
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Skin	Subcut Tiss	Inflammation	Chronic Active, Moderate
	Subcut Tiss	Sarcoma	
	[Inflammation TGLS = 3-13]		
	[Sarcoma TGLS = 2-11]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
* Uterus		Hyperplasia	Cystic, Moderate
	[Hyperplasia TGLS = 4-8]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 447

TRT#: 8

SEX: Female

DAY ON TEST: 457

DOSE: 3000 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-447

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* 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			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Respirat Epith	Degeneration	Hyaline, Mild
* Uterus		Hyperplasia	Cystic, Mild

[Hyperplasia TGLS = 1-8]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 448

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-448

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* 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	* Pituitary Gland	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Clitoral Gland		Dilatation	Mild
		Inflammation	Chronic Active, Minimal
* Kidney	Renal Tubule	Regeneration	Mild
* Liver		Mixed Cell Focus	
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Skin		Inflammation	Chronic Active, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Marked

[Hyperplasia TGLS = 2-8]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 449

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-449

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Esophagus	* Gallbladder	* 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	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea			

OBSERVATIONS

* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Mild
* Kidney	Renal Tubule	Regeneration	Minimal
* Liver		Mitotic Alteration	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Marked
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Minimal

[Hyperplasia TGLS = 2-8]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 450 **TRT#:** 8 **SEX:** Female **DAY ON TEST:** 734
DOSE: 3000 PPM **DISP:** Terminal Sacrifice **HISTO:** mb069g-450

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Skin
* Spleen	* Stomach, Forestomach	* Thymus	* Trachea

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Mild
		Inflammation	Chronic Active, Minimal
* Kidney		Inflammation	Chronic, Minimal
	Renal Tubule	Regeneration	Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Salivary Glands		Inflammation	Chronic, Minimal
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Dilatation	Moderate

[Dilatation TGLS = 2-8,8.1]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 451	TRT#: 8	SEX: Female	DAY ON TEST: 720
	DOSE: 3000 PPM	DISP: Natural Death	HISTO: MB069G-451

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* 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	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea			

MISSING

* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Liver		Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 1-11]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Spleen		Pigmentation	Hemosiderin, Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 452

TRT#: 8

SEX: Female

DAY ON TEST: 728

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: MB069G-452

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Trachea		

OBSERVATIONS

* Adrenal Cortex	Extra Adr Tiss	Adenocarcinoma	Metastatic (Pancreas)
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Mild
* Intestine Large, Rectum		Adenocarcinoma	Metastatic (Pancreas)
* Kidney		Adenocarcinoma	Metastatic (Pancreas)
		Atrophy	Marked
		Hydronephrosis	Minimal
[Adenocarcinoma TGLS = 6,8-11]			
[Atrophy TGLS = 7-8,11]			
[Hydronephrosis TGLS = 5-8]			
* Liver		Necrosis	Moderate
* Lung		Adenocarcinoma	Metastatic (Pancreas)
* Lymph Node, Mesenteric		Adenocarcinoma	Metastatic (Pancreas)
[Adenocarcinoma TGLS = 9-14]			
Mesentery		Adenocarcinoma	Metastatic (Pancreas)
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Ovary		Adenocarcinoma	Metastatic (Pancreas)
		Cyst	Marked
[Cyst TGLS = 10-12]			
* Pancreas	Acinar Cell	Adenocarcinoma	
[Adenocarcinoma TGLS = 3,4-15]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Skeletal Muscle		Adenocarcinoma	Metastatic (Pancreas)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 452

TRT#: 8

SEX: Female

DAY ON TEST: 728

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: MB069G-452

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Atrophy	Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
* Urinary Bladder		Adenocarcinoma	Metastatic (Pancreas)
* Uterus		Adenocarcinoma	Metastatic (Pancreas)
		Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

Animal Note: INGUINAL LYMPH NODE NOT IDENTIFIED AT TRIM.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 453

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-453

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Brain
* Esophagus	* Gallbladder	* 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	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Trachea		

MISSING

* Pituitary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Bone		Dysplasia	Minimal
* Clitoral Gland		Dilatation	Mild
* Kidney	Renal Tubule	Regeneration	Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Salivary Glands		Inflammation	Chronic, Minimal
* Thymus		Hyperplasia	Lymphoid, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 454

TRT#: 8

SEX: Female

DAY ON TEST: 727

DOSE: 3000 PPM

DISP: Natural Death

HISTO: MB069G-454

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Uterus	

MISSING

* Clitoral Gland	* Gallbladder	* Thymus
------------------	---------------	----------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Liver		Lymphoma Malignant Mixed	
		Lymphoma Malignant Mixed	
	[Lymphoma Malignant Mixed TGLS = 2-5]		
* Lung		Lymphoma Malignant Mixed	
* Lymph Node, Mesenteric		Lymphoma Malignant Mixed	
	[Lymphoma Malignant Mixed TGLS = 3-7]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Ovary		Cyst	Mild
	Note: CYST FILLED WITH BLOOD.		
* Spleen		Lymphoma Malignant Mixed	
	[Lymphoma Malignant Mixed TGLS = 1-5]		
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 455

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-455

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* 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	* Stomach, Forestomach
* Thymus	* Trachea		

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Clitoral Gland		Dilatation	Mild
* Kidney		Inflammation	Chronic, Minimal
	Renal Tubule	Regeneration	Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Salivary Glands		Inflammation	Chronic, Minimal
* Skin	Epidermis	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
	Subcut Tiss	Sarcoma	
	[Sarcoma TGLS = 2-11]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
	[Hematopoietic Cell Proliferation TGLS = 3-5]		
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
		Inflammation	Chronic Active, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Dilatation	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 456

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-456

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
Lymph Node	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Clitoral Gland		Dilatation	Mild
* Kidney		Inflammation	Chronic, Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
Lymph Node			
Note: Nodule is normal lymph node.			
* Salivary Glands		Inflammation	Chronic, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Marked
[Hyperplasia TGLS = 1-8,8.1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 457

TRT#: 8

SEX: Female

DAY ON TEST: 457

DOSE: 3000 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-457

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Spleen

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Brain		Mineralization	Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Respirat Epith	Degeneration	Hyaline, Minimal
	Respirat Epith	Inflammation	Chronic Active, Minimal
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 458

TRT#: 8

SEX: Female

DAY ON TEST: 8

DOSE: 3000 PPM

DISP: Natural Death

HISTO: MB069G-458

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Bone Marrow
* Heart
* Islets, Pancreatic
* Lymph Node, Mandibular
* Pancreas
* Spleen
* Urinary Bladder

* Adrenal Medulla
* Brain
* Intestine Large, Colon
* Kidney
* Mammary Gland
* Parathyroid Gland
* Stomach, Forestomach
* Uterus

* Blood Vessel
* Clitoral Gland
* Intestine Large, Rectum
* Liver
* Nose
* Salivary Glands
* Thyroid Gland

* Bone
* Esophagus
* Intestine Small, Jejunum
* Lung
* Ovary
* Skin
* Trachea

MISSING

* Intestine Large, Cecum

* Lymph Node, Mesenteric

* Pituitary Gland

AUTO PRECLUDES DIAG.

* Gallbladder

* Intestine Small, Duodenum

* Intestine Small, Ileum

* Stomach, Glandular

OBSERVATIONS

* Thymus

Atrophy

Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 459

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-459

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Gallbladder	* 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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea			

MISSING

* Esophagus

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Mild
* Kidney		Inflammation	Chronic, Minimal
	Renal Tubule	Regeneration	Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 2-11]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Ovary		Adenoma	
Note: Papillary configuration.			
[Adenoma TGLS = 3-8,8.1]			
* Spleen		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 5-5]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Marked
[Hyperplasia TGLS = 4-8,8.1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 459

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-459

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 460

TRT#: 8

SEX: Female

DAY ON TEST: 457

DOSE: 3000 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-460

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Liver	* 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

MISSING

* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Respirat Epith	Degeneration	Hyaline, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Mild

[Hyperplasia TGLS = 1-8]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 461

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-461

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea		

MISSING

* Esophagus	* Gallbladder
-------------	---------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Clitoral Gland		Dilatation	Mild
* Kidney		Infarct	Minimal
	Renal Tubule	Regeneration	Minimal
* Liver		Eosinophilic Focus	
[Eosinophilic Focus TGLS = 4-11]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 3-12]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Ovary		Adenoma	
Note: Papillary configuration.			
[Adenoma TGLS = 1-8,8.1]			
* Salivary Glands		Inflammation	Chronic, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 2-8,8.1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 462

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-462

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* 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
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea		

MISSING

* Pituitary Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Clitoral Gland		Dilatation	Moderate
Eye		Inflammation	Chronic Active, Marked
[Inflammation TGLS = 2-11]			
* Kidney		Inflammation	Chronic, Minimal
	Renal Tubule	Regeneration	Minimal
* Liver		Inflammation	Chronic Active, Minimal
* Lung			
Note: Gross focus not visible at trim.			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Ovary		Cyst	Mild
[Cyst TGLS = 1-8]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 463 **TRT#:** 8 **SEX:** Female **DAY ON TEST:** 722
DOSE: 3000 PPM **DISP:** Natural Death **HISTO:** MB069G-463

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Uterus	

MISSING

* Gallbladder	* Thymus
---------------	----------

AUTO PRECLUDES DIAG.

* Intestine Small, Duodenum	* Intestine Small, Ileum
-----------------------------	--------------------------

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Moderate
	Subcapsular	Hyperplasia	Mild
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Moderate
* Kidney		Inflammation	Chronic, Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Congestion	Moderate
		Hepatocellular Carcinoma	
		Infarct	Marked
		[Hepatocellular Carcinoma TGLS = 2-11]	
		[Infarct TGLS = 2-11]	
* Lung		Alveolar/Bronchiolar Adenoma	
		Hepatocellular Carcinoma	Metastatic (Liver)
		[Alveolar/Bronchiolar Adenoma TGLS = 3-12]	
		[Hepatocellular Carcinoma TGLS = 4-13, 5,7-14]	
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Salivary Glands		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		[Hematopoietic Cell Proliferation TGLS = 1-5]	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 463

TRT#: 8
DOSE: 3000 PPM

SEX: Female
DISP: Natural Death

DAY ON TEST: 722
HISTO: MB069G-463

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 464

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-464

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Brain
* Esophagus	* Gallbladder	* 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	* Pituitary Gland	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea			

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Bone		Dysplasia	Minimal
* Clitoral Gland		Dilatation	Minimal
* Kidney	Renal Tubule	Regeneration	Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Salivary Glands		Inflammation	Chronic, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Marked
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Dilatation	Marked

[Dilatation TGLS = 1,2-8]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 466

TRT#: 8

SEX: Female

DAY ON TEST: 397

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: MB069G-466

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Kidney	Renal Tubule	Degeneration	Hyaline, Moderate
Lymph Node		Teratoma Malignant	Metastatic (Uncertain Primary Site)
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
* Ovary		Teratoma Malignant	
[Teratoma Malignant TGLS = 2-11]			
* Stomach, Forestomach		Hyperplasia	Moderate
		Inflammation	Chronic Active, Mild
* Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 1-8]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 467

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Natural Death

HISTO: mb069g-467

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* 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	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Trachea

MISSING

* Clitoral Gland	* Thymus
------------------	----------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia Inflammation	Mild Chronic Active, Moderate
[Inflammation TGLS = 5-3]			
* Brain		Mineralization	Minimal
* Kidney	Glomerulus	Inflammation	Chronic, Mild
* Liver		Hematopoietic Cell Proliferation	Mild
Note: Leukocytosis present.			
* Lung			
Note: Leukocytosis present.			
* Lymph Node, Mesenteric		Inflammation	Chronic Active, Mild
Mesentery		Inflammation	Chronic Active, Marked
[Inflammation TGLS = 1-2]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Ovary		Abscess Inflammation	Marked Chronic Active, Marked
[Abscess TGLS = 2-12]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[Hematopoietic Cell Proliferation TGLS = 3-5]			
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 467

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Natural Death

HISTO: mb069g-467

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Hyperplasia

Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 468

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-468

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Clitoral Gland		Dilatation	Moderate
* Kidney		Inflammation	Chronic, Minimal
	Renal Tubule	Regeneration	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Ovary	Periovarn Tiss	Infiltration Cellular	Lymphocyte, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
* Skin		Inflammation	Chronic Active, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Moderate
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Dilatation	Marked
		Hyperplasia	Cystic, Mild
[Dilatation TGLS = 2-8]			
[Hyperplasia TGLS = 1-8]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 469

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-469

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Islets, Pancreatic	* Liver	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Skin
* Spleen	* Stomach, Glandular	* Trachea	

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Clitoral Gland		Dilatation	Moderate
* Intestine Small, Jejunum		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 4-13]			
* Kidney	Renal Tubule	Regeneration	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
[Alveolar/Bronchiolar Adenoma TGLS = 2-6]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
* Lymph Node, Mesenteric		Lymphoma Malignant Mixed	
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
* Salivary Glands		Inflammation	Chronic, Minimal
* Stomach, Forestomach		Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 1-11,11.1]			
[Squamous Cell Carcinoma TGLS = 1-11,11.1]			
* Thymus		Hyperplasia	Lymphoid, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 470

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-470

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone Marrow	* Brain	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Bone		Dysplasia	Minimal
* Clitoral Gland		Dilatation	Moderate
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Ovary		Cyst	Mild
[Cyst TGLS = 2-11]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Moderate
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Marked
[Hyperplasia TGLS = 1-8]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 471	TRT#: 8	SEX: Female	DAY ON TEST: 734
	DOSE: 3000 PPM	DISP: Terminal Sacrifice	HISTO: mb069g-471

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Clitoral Gland		Dilatation	Mild
		Inflammation	Chronic Active, Mild
* Kidney	Renal Tubule	Regeneration	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Salivary Glands		Inflammation	Chronic, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
* Uterus		Hyperplasia	Cystic, Moderate

[Hyperplasia TGLS = 2-8]

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 472

TRT#: 8

SEX: Female

DAY ON TEST: 8

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: mbo69g-4722

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Pituitary Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Skin	Fat, Subcut Tiss	Atrophy	Moderate
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 473

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-473

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* 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	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Clitoral Gland		Dilatation	Mild
		Inflammation	Chronic Active, Minimal
* Kidney		Inflammation	Chronic, Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Moderate
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 474

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-474

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Mammary Gland	* Pancreas	* Stomach, Forestomach	* Stomach, Glandular
* Trachea			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Clitoral Gland		Dilatation	Moderate
Harderian Gland		Adenoma	
[Adenoma TGLS = 10-12]			
* Liver		Lymphoma Malignant Mixed	
* Lung		Lymphoma Malignant Mixed	
Lymph Node	Lumbar	Lymphoma Malignant Mixed	
	Mediastinal	Lymphoma Malignant Mixed	
	Renal	Lymphoma Malignant Mixed	
[Lymphoma Malignant Mixed TGLS = 9-3]			
[Lymphoma Malignant Mixed TGLS = 4-13]			
[Lymphoma Malignant Mixed TGLS = 3-14]			
* Lymph Node, Mandibular		Lymphoma Malignant Mixed	
[Lymphoma Malignant Mixed TGLS = 1-11]			
* Lymph Node, Mesenteric		Lymphoma Malignant Mixed	
[Lymphoma Malignant Mixed TGLS = 7-17]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Ovary		Cyst	Moderate
		Lymphoma Malignant Mixed	
[Cyst TGLS = 6-15]			
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 474	TRT#: 8 DOSE: 3000 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: mb069g-474
-----------------------	---	---	---

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands		Lymphoma Malignant Mixed	
* Skin		Inflammation	Chronic Active, Mild
[Inflammation TGLS = 8-16]			
* Spleen		Lymphoma Malignant Mixed	
[Lymphoma Malignant Mixed TGLS = 2-5]			
* Thymus		Lymphoma Malignant Mixed	
* Thyroid Gland	Follicle	Cyst	Moderate
	Follicular Cel	Hyperplasia	Focal, Moderate
* Urinary Bladder		Lymphoma Malignant Mixed	
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 475

TRT#: 8

SEX: Female

DAY ON TEST: 457

DOSE: 3000 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-475

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* 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	* Pituitary Gland	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Moderate
* Clitoral Gland		Dilatation	Mild
* Kidney		Inflammation	Chronic, Minimal
* Liver		Inflammation	Chronic Active, Minimal
* Lung		Infiltration Cellular	Lymphocyte, Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Respirat Epith	Degeneration	Hyaline, Minimal
* Salivary Glands		Inflammation	Chronic, Minimal
* Thymus		Hyperplasia	Lymphoid, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 476

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-476

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* 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	* Ovary	* Pancreas	* Parathyroid Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Mild
* Kidney	Renal Tubule	Regeneration	Minimal
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Salivary Glands		Inflammation	Chronic, Minimal
* Spleen		Hyperplasia	Lymphoid, Minimal
* Thymus		Hyperplasia	Lymphoid, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
		Inflammation	Chronic Active, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Mild

[Hyperplasia TGLS = 1-8]

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 477

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-477

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone Marrow	* Brain
* Esophagus	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Bone		Dysplasia	Moderate
* Clitoral Gland		Dilatation	Moderate
* Kidney	Renal Tubule	Regeneration	Minimal
* Liver		Angiectasis	Minimal
[Angiectasis TGLS = 4-13]			
* Lung		Infiltration Cellular	Lymphocyte, Minimal
* Mammary Gland		Carcinoma	
[Carcinoma TGLS = 1-11]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
[Angiectasis TGLS = 3-3]			
* Salivary Glands		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
* Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 2-8]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 478

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-478

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Thymus	* Trachea	

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Clitoral Gland		Dilatation	Mild
		Inflammation	Chronic Active, Minimal
* Liver		Inflammation	Chronic Active, Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Lymphocyte, Minimal
[Alveolar/Bronchiolar Adenoma TGLS = 8-15.1,15.2]			
Lymph Node	Lumbar	Lymphoma Malignant Mixed	
	Mediastinal	Lymphoma Malignant Mixed	
	Renal	Lymphoma Malignant Mixed	
[Lymphoma Malignant Mixed TGLS = 9-16]			
[Lymphoma Malignant Mixed TGLS = 10-17]			
[Lymphoma Malignant Mixed TGLS = 7-3]			
* Lymph Node, Mandibular		Lymphoma Malignant Mixed	
[Lymphoma Malignant Mixed TGLS = 3-12,4-2]			
* Lymph Node, Mesenteric		Lymphoma Malignant Mixed	
[Lymphoma Malignant Mixed TGLS = 12-18]			
* Mammary Gland		Carcinoma	
[Carcinoma TGLS = 2-11]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pancreas		Inflammation	Chronic Active, Marked
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
[Angiectasis TGLS = 13-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 478	TRT#: 8 DOSE: 3000 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: mb069g-478
-----------------------	---	---	---

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Lymphoma Malignant Mixed TGLS = 5-13]	Lymphoma Malignant Mixed	
* Stomach, Glandular	Inflammation	Chronic Active, Mild
* Thymus Note: TGL 6 ncl - Note-enlarged lymph node adjacent to thymus.		
* Thyroid Gland Follicular Cel	Hyperplasia Inflammation	Focal, Minimal Chronic Active, Mild
* Urinary Bladder	Infiltration Cellular	Lymphocyte, Minimal
* Uterus [Hyperplasia TGLS = 11-8]	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 479

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: mb069g-479

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone Marrow	* Esophagus	* Gallbladder
* 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
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Spleen	* Stomach, Glandular	* Thymus
* Trachea			

MISSING

* Adrenal Medulla

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Bone		Dysplasia	Minimal
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Moderate
* Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 3-12]			
* Pituitary Gland	Pars Distalis	Adenoma	
* Salivary Glands		Inflammation	Chronic, Minimal
* Skin		Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 1-11]			
* Stomach, Forestomach		Inflammation	Acute, Minimal
* Thyroid Gland	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Focal, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 2-8]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05068-10
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Codeine
CAS Number: 76-57-3

Date Report Requested: 10/21/2014
Time Report Requested: 15:51:10
First Dose M/F: NA / NA
Lab: MBA

ANIMAL ID: 480

TRT#: 8

SEX: Female

DAY ON TEST: 457

DOSE: 3000 PPM

DISP: Scheduled Sacrifice

HISTO: MB069G-480

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Gallbladder	* 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	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea			

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Brain		Mineralization	Minimal
* Clitoral Gland		Dilatation	Mild
* Kidney		Inflammation	Chronic, Minimal
* Liver		Inflammation	Chronic Active, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Respirat Epith	Degeneration	Hyaline, Minimal
* Salivary Glands		Inflammation	Chronic, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Minimal
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

**** END OF REPORT ****

* PROTOCOL REQUIRED TISSUE