

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:53
First Dose M/F: NA / NA
Lab: LITRI

C Number: C61654
Lock Date: 10/14/1992
Cage Range: All
Date Range: All
Reasons For Removal: All
Removal Date Range: All
Treatment Groups: All
Study Gender: Both
PWG Approval Date: 07/21/1994

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 1	TRT#: 1 DOSE: 0.0MG/M3	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 740 HISTO: MZ34/T001
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx
* 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	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Intestine Small, Ileum	* Lymph Node, Bronchial	* Mammary Gland
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OBSERVATIONS

* Kidney	Nephropathy	Minimal
* Lymph Node, Mediastinal	Hyperplasia	Lymphoid, Moderate
* Preputial Gland	Ectasia	Marked

[Ectasia TGLS = 1-6]

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 2	TRT#: 1 DOSE: 0.0MG/M3	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 584 HISTO: MZ34/T002
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx
* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mediastinal	* Mammary Gland	* Thymus
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OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
* Kidney		Hydronephrosis	Mild
[Hydronephrosis TGLS = 3-3]			
* Lung	Interstitial	Infiltration Cellular	Minimal
Penis		Inflammation	Mild
Note: focal ulceration & hyperkeratosis			
* Skin	Prepuce	Inflammation	Marked
Note: focal ulcerative dermatitis			
[Inflammation TGLS = 1-11]			
Urethra		Concretion	Moderate
Note: proteinaceous concretion			
[Concretion TGLS = 4-9]			

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=preputial lesion

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 3	TRT#: 1 DOSE: 0.0MG/M3	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 586 HISTO: MZ34/T003
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Larynx	* Liver	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
Penis	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea		

MISSING

* Adrenal Medulla	* Intestine Large, Rectum	* Lymph Node, Bronchial	* Lymph Node, Mediastinal
* Mammary Gland			

OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Marked
* Heart		Cardiomyopathy	Mild
* Kidney		Hydronephrosis	Moderate
		Inflammation	Marked
Note: marked pyelonephritis w/ marked tissue loss, left kid.			
			[Hydronephrosis TGLS = 7-3,8-3]
			[Inflammation TGLS = 6-3]
Lymph Node	Iliac	Hyperplasia	Lymphoid, Mild
	Renal	Hyperplasia	Lymphoid, Moderate
			[Hyperplasia TGLS = 9-11,5-9]
			[Hyperplasia TGLS = 9-11,5-9]
* Preputial Gland		Inflammation	Chronic, Marked
			[Inflammation TGLS = 2-6]
* Skin	Prepuce	Inflammation	Moderate
Note: skin assoc w/ preputial gland inflammation			
* Spleen		Hematopoietic Cell Proliferation	Moderate
			[Hematopoietic Cell Proliferation TGLS = 4-3]
* Thymus		Degeneration	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:53
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 3	TRT#: 1 DOSE: 0.0MG/M3	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 586 HISTO: MZ34/T003
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ORGAN AND ACCOUNTABLE SITE STATUS

* Urinary Bladder	Crystals	Marked
[Crystals TGLS = 3-5]	Inflammation	Marked

PRIMARY CAUSE OF DEATH

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Animal Note: CO/MSAC=pyelonephritis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 4	TRT#: 1 DOSE: 0.0MG/M3	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 544 HISTO: MZ34/T004
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Kidney	* Larynx	* Liver	* Lymph Node, Bronchial
* 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

MISSING

* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Lung	Interstitial	Infiltration Cellular	Minimal
* Preputial Gland		Ectasia	Moderate
[Ectasia TGLS = 1-6]			
* Thymus		Degeneration	Moderate
* Urinary Bladder		Leiomyosarcoma	
Note: msalignant DXbased on hypercellularity & invasive growth			
[Leiomyosarcoma TGLS = 2-5]			

PRIMARY CAUSE OF DEATH

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Animal Note: CO/MSAC=undetermined, bladder tumor may have role

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 5	TRT#: 1 DOSE: 0.0MG/M3	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 561 HISTO: MZ34/T005
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Epididymis
* Esophagus	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Trachea			

MISSING

* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
* Brain	Medulla	Demyelination	Mild
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	
		Necrosis	Mild
Note: massive liver necrosis [Hepatocellular Carcinoma TGLS = 5-3,9]			
* Lung	Bronchus	Hyperplasia	Lymphoid, Minimal
Lymph Node	Iliac	Hyperplasia	Lymphoid, Moderate
	Inguinal	Hyperplasia	Lymphoid, Moderate
	Iliac	Pigmentation	Minimal
[Hyperplasia TGLS = 4-12,3-11] [Hyperplasia TGLS = 4-12,3-11]			
Penis		Inflammation	Mild
* Preputial Gland		Inflammation	Chronic, Marked
Note: marked inflammation around gland also [Inflammation TGLS = 2-6]			
* Skin	Prepuce	Inflammation	Marked
Note: marked ulcerative dermatitis w/ cellulitis			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:53
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 5	TRT#: 1 DOSE: 0.0MG/M3	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 561 HISTO: MZ34/T005
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ORGAN AND ACCOUNTABLE SITE STATUS

[Inflammation TGLS = 1-10]

* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Degeneration	Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Urinary Bladder		Inflammation	Minimal

Note: 1 focus of inflammation w/ dysplasia

PRIMARY CAUSE OF DEATH -

Animal Note: CO/MSAC=ulcerative dermatitis, prepuce w/ cellulitis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 6	TRT#: 3	SEX: Male	DAY ON TEST: 476
	DOSE: 0.0MG/M3LUNG TOX	DISP: Scheduled Sacrifice	HISTO: MZ034/T006

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Kidney	* Larynx	* Liver	* Lung
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland	* Stomach, Forestomach
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INSUFFICIENT TISSUE

* Lymph Node, Bronchial

OBSERVATIONS

* Lymph Node, Mesenteric	Hemorrhage Hyperplasia	Chronic, Mild Lymphoid, Mild
[Hemorrhage TGLS = 2-5]		
* Preputial Gland	Ectasia	Minimal
[Ectasia TGLS = 1-6]		
* Trachea	Inflammation	Focal, Minimal
Urethra	Calculus Micro Observation Only	
[Calculus Micro Observation Only TGLS = 3-9]		

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 8	TRT#: 1 DOSE: 0.0MG/M3	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 679 HISTO: MZ34/T008
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Kidney	* Larynx	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Trachea	* Urinary Bladder		

MISSING

* Intestine Large, Rectum	* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Mammary Gland
* Parathyroid Gland			

OBSERVATIONS

* Adrenal Cortex	Capsule	Adenoma	
* Islets, Pancreatic		Adenoma	
* Liver		Degeneration	Moderate
Note: va			
Note: vacuolar hepatocellular degeneration			
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Ectasia	Moderate
* Thymus		Degeneration	Marked
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=undetermined, functional islet cell adenoma??

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 9

TRT#: 1

SEX: Male

DAY ON TEST: 740

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T009

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Larynx	* 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
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

OBSERVATIONS

* Kidney		Infiltration Cellular	Lymphocyte, Mild
* Lung	Bronchus	Hyperplasia	Lymphoid, Mild
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mediastinal		Hyperplasia	Lymphoid, Mild
* Preputial Gland		Ectasia	Moderate
[Ectasia TGLS = 1-6,2-6]			
* Spleen		Hyperplasia	Lymphoid, Mild

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 10

TRT#: 1

SEX: Male

DAY ON TEST: 681

DOSE: 0.0MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/T010

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Nose	* Pancreas	Penis	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Trachea

MISSING

* Mammary Gland	* Parathyroid Gland	* Thymus
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OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
* Kidney		Inflammation	Mild
Note: lymphoid infiltrates mainly around vessels			
* Liver		Inflammation	Mild
Note: lymphoid infiltrates mainly around vessels			
* Lung	Bronchus	Hyperplasia	Lymphoid, Minimal
* Preputial Gland		Inflammation	Chronic, Marked
[Inflammation TGLS = 2-6,3-6]			
* Skin	Prepuce	Inflammation	Marked
[Inflammation TGLS = 1-9]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Urinary Bladder		Inflammation	Minimal
Note: focal lymphocytic inflammation			

PRIMARY CAUSE OF DEATH

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Animal Note: CO/MSAC=marked preputial dinflammation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 11

TRT#: 1

SEX: Male

DAY ON TEST: 737

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T011

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx
* Liver	* 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

* Intestine Large, Rectum	* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Kidney		Infiltration Cellular	Lymphocyte, Mild
* Lung		Alveolar/Bronchiolar Carcinoma	
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Mild
Note: AM hyperplasia in lobe w/ tumor			
Note: Ca DX based on cytology & intrapulmonary mets			
[Alveolar/Bronchiolar Carcinoma TGLS = 4-9]			
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Marked
[Hyperplasia TGLS = 5-4]			
* Lymph Node, Mesenteric		Hemangioma	
* Preputial Gland		Ectasia	Moderate
[Ectasia TGLS = 1,2-6]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 12

TRT#: 1

SEX: Male

DAY ON TEST: 740

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T012

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Kidney	* Larynx	* Liver	* Lymph Node, Bronchial
* 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

* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Lung	Alveolar Interstitial	Alveolar/Bronchiolar Carcinoma Hyperplasia Infiltration Cellular	Macrophage, Marked Minimal
	Note: AM hperplasia primarily in lobe w/ tumor		
	Note: Ca DX based on cytology, invasion, intrapulm. mets		
	[Alveolar/Bronchiolar Carcinoma TGLS = 2-9]		
* Preputial Gland		Inflammation	Chronic, Mild
	[Inflammation TGLS = 1-6]		
* Spleen		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 14

TRT#: 1

SEX: Male

DAY ON TEST: 557

DOSE: 0.0MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/T014

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Larynx	* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* 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

* Bone Marrow	Myeloid Cell	Hyperplasia	Marked
* Liver			
Note: fixation artifact on liver capsule			
* Lung	Alveolar Epith	Hyperplasia	Moderate
	Bronchus	Hyperplasia	Lymphoid, Mild
	Iliac	Hyperplasia	Lymphoid, Marked
	Inguinal	Hyperplasia	Lymphoid, Marked
			[Hyperplasia TGLS = 1-9,9-4,7-10]
			[Hyperplasia TGLS = 1-9,9-4,7-10]
* Nose	Olfactory Epi	Degeneration	Minimal
Penis		Concretion	Mild
		Inflammation	Minimal
Note: concretion is proteinaceous			
Note: focal ulcerstion w/ hyperkeratosis			
			[Inflammation TGLS = 4-12]
* Preputial Gland		Ectasia	Moderate
			[Ectasia TGLS = 3-6]
* Sem Ves			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:53
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 14	TRT#: 1 DOSE: 0.0MG/M3	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 557 HISTO: MZ34/T014
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: distended w/ fluid, not a lesion * Skin	Prepuce	Inflammation	Marked
Note: marked ulcerative dermatitis w/ cellulitis [Inflammation TGLS = 2-11]			

PRIMARY CAUSE OF DEATH -

Animal Note: CO/MSAC=preputial lesion

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 15

TRT#: 1

SEX: Male

DAY ON TEST: 740

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T015

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Larynx
* 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

* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Intestine Large, Cecum	Lymphoid Tiss	Hyperplasia	Lymphoid, Moderate
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	
[Eosinophilic Focus TGLS = 4-10]			
[Hepatocellular Adenoma TGLS = 3-9]			
* Lung	Bronchus	Hyperplasia	Lymphoid, Minimal
* Lymph Node, Bronchial		Hyperplasia	Plasma Cell, Mild
[Hyperplasia TGLS = 5-4]			
* Preputial Gland		Ectasia	Moderate
[Ectasia TGLS = 1,2-6]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 16

TRT#: 1

SEX: Male

DAY ON TEST: 480

DOSE: 0.0MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/T016

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Kidney	Pelvis	Hemangiosarcoma	
Note: DX based on anaplasia of lining cells esp. subjacent epith. [Hemangiosarcoma TGLS = 4-9]			
* Liver		Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 2-3,10]			
* Preputial Gland		Hyperplasia	Minimal
* Skin	Prepuce	Inflammation	Marked
Note: marked ulcerative dermatitis w/ cellulitis [Inflammation TGLS = 1-11]			
* Spleen		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=preputial lesion, liver tumor contributed

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 17

TRT#: 1

SEX: Male

DAY ON TEST: 741

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T017

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Brain
- * Heart
- * Intestine Small, Duodenum
- * Larynx
- * Nose
- * Prostate
- * Spleen
- * Thymus

- * Adrenal Medulla
- * Epididymis
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Liver
- * Pancreas
- * Salivary Glands
- * Stomach, Forestomach
- * Trachea

- * Bone
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Seminal Vesicle
- * Stomach, Glandular
- * Urinary Bladder

- * Bone Marrow
- * Gallbladder
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Lymph Node, Mesenteric
- * Pituitary Gland
- * Skin
- * Testes

MISSING

* Lymph Node, Bronchial

* Lymph Node, Mediastinal

* Mammary Gland

OBSERVATIONS

- * Kidney
- * Lung
- * Preputial Gland
[Ectasia TGLS = 1-6]
- * Thyroid Gland
Note: se slice 2A

Bronchus

Follicular Cel

Nephropathy
Hyperplasia
Ectasia

Hyperplasia

Minimal
Lymphoid, Minimal
Mild

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 18	TRT#: 3	SEX: Male	DAY ON TEST: 476
	DOSE: 0.0MG/M3LUNG TOX	DISP: Scheduled Sacrifice	HISTO: MZ34/T018

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Kidney	* Larynx	* Liver	* Lung
* Lymph Node, Bronchial	* 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

* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Preputial Gland	Ectasia	Mild
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PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 19

TRT#: 1

SEX: Male

DAY ON TEST: 740

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T019

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Kidney	* Larynx	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymsus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 3-9]			
* Lung		Alveolar/Bronchiolar Carcinoma	
	Alveolus	Hyperplasia	Macrophage, Moderate
	Interstitium	Infiltration Cellular	Minimal
Note: Ca DX based on pattern & intrapulmonary mets			
[Alveolar/Bronchiolar Carcinoma TGLS = 4-10]			
* Preputial Gland		Atrophy	Mild
		Ectasia	Mild
[Atrophy TGLS = 2-6]			
[Ectasia TGLS = 1-6]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 20

TRT#: 1

SEX: Male

DAY ON TEST: 584

DOSE: 0.0MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/T020

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	Lymph Node	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	

MISSING

* Intestine Large, Rectum	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex [Cyst TGLS = 7-8]		Cyst	
* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Kidney	Pelvis	Inflammation	Mild
* Liver [Hepatocellular Adenoma TGLS = 4-12, 6-9]		Hepatocellular Adenoma	Multiple
* Lung	Bronchus	Hyperplasia	Lymphoid, Minimal
* Preputial Gland [Ectasia TGLS = 1-6,2-6]		Ectasia	Marked
* Skin Note: ulcerative dermatitis w/ cellulitis [Inflammation TGLS = 3-11]	Prepuce	Inflammation	Marked
* Spleen		Hyperplasia	Lymphoid, Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
Urethra [Concretion TGLS = 5-10]		Concretion	Moderate
		Inflammation	Mild
* Urinary Bladder		Inflammation	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 20

TRT#: 1

SEX: Male

DAY ON TEST: 584

DOSE: 0.0MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/T020

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CO/MSAC=preputial lesion, liver tumor mets.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 21

TRT#: 1

SEX: Male

DAY ON TEST: 499

DOSE: 0.0MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/T021

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Larynx	* Liver	* Lymph Node, Bronchial	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Lung	Interstitium	Infiltration Cellular	Minimal
Lymph Node	Axillary	Fibrosarcoma	Metastatic (Skin)
	Inguinal	Hyperplasia	Lymphoid, Mild
[Fibrosarcoma TGLS = 8-11]			
[Hyperplasia TGLS = 4-6,1-10]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 4-6,1-10]			
* Preputial Gland		Inflammation	Chronic, Mild
[Inflammation TGLS = 2-6,3-6]			
* Skin		Fibrosarcoma	
Note: recuts(#12) show invasion of muscle & bone			
Note: infiltrating growth in skin=tissue origin skin subq			
Note: xrays show no direct bone involvement			
[Fibrosarcoma TGLS = 7-9]			
* Spleen		Hyperplasia	Lymphoid, Marked
[Hyperplasia TGLS = 5-3]			
* Thymus		Degeneration	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:53
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 21	TRT#: 1	SEX: Male	DAY ON TEST: 499
	DOSE: 0.0MG/M3	DISP: Moribund Sacrifice	HISTO: MZ34/T021

ORGAN AND ACCOUNTABLE SITE STATUS

Tissue NOS
Note: TNOS is SKIN,SUBQ

PRIMARY CAUSE OF DEATH -

Animal Note: CO/MSAC=fibrosarcoma, skin of right foreleg

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:53
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 22	TRT#: 1 DOSE: 0.0MG/M3	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 741 HISTO: MZ34/T022
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx
* 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	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Intestine Large, Rectum	* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Inflammation	Minimal
Note: scattered focal infiltrates			
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 1-6]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 24

TRT#: 1

SEX: Male

DAY ON TEST: 719

DOSE: 0.0MG/M3

DISP: Natural Death

HISTO: MZ34/T024

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Rectum	* Islets, Pancreatic	* Kidney	* Larynx
* Lymph Node, Bronchial	* 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

* Lymph Node, Mediastinal	* Mammary Gland
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AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum		

OBSERVATIONS

* Liver	Hepatocellular Adenoma Necrosis	Minimal
Note: massive liver necrosis in normal liver [Hepatocellular Adenoma TGLS = 2-10]		
* Lung	Alveolar/Bronchiolar Adenoma	
Note: autolysis complicates DX, based on pattern [Alveolar/Bronchiolar Adenoma TGLS = 3-9]		
* Preputial Gland	Inflammation	Chronic, Marked
[Inflammation TGLS = 1-6]		
* Thymus	Degeneration	Moderate

PRIMARY CAUSE OF DEATH

-

Animal Note: COD=uncertain, liver tumor ?

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 25

TRT#: 1

SEX: Male

DAY ON TEST: 406

DOSE: 0.0MG/M3

DISP: Natural Death

HISTO: MZ34/T025

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Heart	* Islets, Pancreatic
* Larynx	* Liver	* Lung	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Pancreas	* Parathyroid Gland	Penis
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	

MISSING

* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
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AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	

INSUFFICIENT TISSUE

* Pituitary Gland

OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Marked
* Kidney		Inflammation	Marked
Note: pyelonephritis, marked in right,mild in left [Inflammation TGLS = 4-13,3,8-3]			
Lymph Node	Iliac	Inflammation	Marked
[Inflammation TGLS = 3-14]			
* Nose	Olfactory Epi	Degeneration	Minimal
Penis			
Note: PENIS CONGESTED			
* Pituitary Gl			
Note: ONLY SMALL TISSUE @ TRIM APPARENTLY NORMAL			
* Spleen		Hematopoietic Cell Proliferation	Marked
[Hematopoietic Cell Proliferation TGLS = 7-3]			
Ureter		Inflammation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:53
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 25	TRT#: 1	SEX: Male	DAY ON TEST: 406
	DOSE: 0.0MG/M3	DISP: Natural Death	HISTO: MZ34/T025

ORGAN AND ACCOUNTABLE SITE STATUS

[Inflammation TGLS = 5-12]			
* Urinary Bladder		Calculus Micro Observation Only	
		Inflammation	Marked
[Calculus Micro Observation Only TGLS = 2-5,10]			

PRIMARY CAUSE OF DEATH

-

Animal Note: COD=pyelonephritis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 26

TRT#: 1

SEX: Male

DAY ON TEST: 536

DOSE: 0.0MG/M3

DISP: Natural Death

HISTO: MZ34/T026

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Larynx	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Bronchial	* Mammary Gland
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OBSERVATIONS

* Kidney Note: pyelonephritis, right kidney [Inflammation TGLS = 7-3]	Inflammation	Moderate
* Liver Note: DX based on vessel invasion Note: massive liver necrosis = asites [Hepatocellular Carcinoma TGLS = 4-9] [Necrosis TGLS = 3-3,6-10]	Hepatocellular Carcinoma Necrosis	Marked
* Preputial Gland [Ectasia TGLS = 1-6]	Ectasia	Minimal
* Seminal Vesicle [Hyperplasia TGLS = 8-11]	Hyperplasia	Mild
* Spleen	Hyperplasia	Lymphoid, Moderate
* Thymus	Degeneration	Marked

PRIMARY CAUSE OF DEATH

-

Animal Note: COD=massive liver necrosis/ascites

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 27

TRT#: 1

SEX: Male

DAY ON TEST: 740

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T27

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Kidney	* Larynx	* Lung	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 3-3]			
* Preputial Gland		Ectasia	Mild
[Ectasia TGLS = 2-6]			
* Skin	Pinna	Hyperkeratosis	Mild
[Hyperkeratosis TGLS = 1-9]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Moderate
Tooth		Developmental Malformation	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 29

TRT#: 1

SEX: Male

DAY ON TEST: 681

DOSE: 0.0MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/T029

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx
* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mediastinal	* Mammary Gland	* Thymus
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OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Kidney		Hydronephrosis	Moderate
[Hydronephrosis TGLS = 5-3]			
* Lung		Alveolar/Bronchiolar Adenoma	
* Lymph Node, Mesenteric		Inflammation	Moderate
[Inflammation TGLS = 3-5]			
Penis		Inflammation	Mild
[Inflammation TGLS = 2-9]			
* Preputial Gland		Inflammation	Chronic, Moderate
* Skin	Prepuce	Inflammation	Moderate
Note: inflammation primarily of prepuce & preutial gland			
[Inflammation TGLS = 1-9,10]			
* Spleen		Hyperplasia	Lymphoid, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=preputial lesions

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 30

TRT#: 3

SEX: Male

DAY ON TEST: 476

DOSE: 0.0MG/M3LUNG TOX

DISP: Scheduled Sacrifice

HISTO: MZ34/T030

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	* Islets, Pancreatic	* Kidney
* Larynx	* Liver	* Lymph Node, Bronchial	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland			

MISSING

* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland	* Stomach, Forestomach
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
* Lung	Bronchus	Hyperplasia	Lymphoid, Minimal
* Preputial Gland		Ectasia	Mild
[Ectasia TGLS = 1-6]			
* Trachea		Inflammation	Focal, Minimal
* Urinary Bladder		Calculus Micro Observation Only	
[Calculus Micro Observation Only TGLS = 2-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 31

TRT#: 1

SEX: Male

DAY ON TEST: 737

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T031

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* 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	* Larynx
* Liver	* 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

* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex	Capsule	Adenoma	
* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Lung	Bronchus	Hyperplasia	Lymphoid, Minimal
Lymph Node	Inguinal	Hyperplasia	Plasma Cell, Marked
[Hyperplasia TGLS = 4-9]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 4-9]			
* Preputial Gland		Atrophy	Mild
		Inflammation	Chronic, Marked
Note: inflammation w/ cellulitis			
[Atrophy TGLS = 1-6]			
[Inflammation TGLS = 2-6]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 32

TRT#: 1

SEX: Male

DAY ON TEST: 737

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T032

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Larynx	* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mediastinal	* Mammary Gland	* Thymus
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OBSERVATIONS

* Kidney		Infiltration Cellular	Lymphocyte, Minimal
* Lung	Bronchus	Hyperplasia	Lymphoid, Minimal
Note: TGL "1mm nodule" not found on recuts or wet tissue review			
* Pancreas	Acinus	Hyperplasia	Mild
* Preputial Gland		Ectasia	Moderate
		Inflammation	Chronic, Marked
Note: inflammation w/ cellulitis			
[Ectasia TGLS = 1-6]			
[Inflammation TGLS = 1-6]			
* Thyroid Gland	Follicular Cel	Adenoma	
Note: cystadenoma			
Note: DX based on dual pattern w/ adenomatous in papillary			
Note: anaplastic epithel. cells in papillary pattern			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 33

TRT#: 1

SEX: Male

DAY ON TEST: 741

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T033

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Nose	* Pancreas	* Parathyroid Gland
Penis	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Trachea		

MISSING

* Mammary Gland

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Bone Marrow	Erythroid Cell	Hyperplasia	Mild
* Intestine Small, Duodenum		Adenoma	
[Adenoma TGLS = 11-5]			
* Kidney	Pelvis	Inflammation	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatocellular Carcinoma	
		Necrosis	Mild
Note: DX based on lack of normal biliary system in nodules			
Note: massive liver necrosis, normal liver			
Note: Ca DX based on cytology & some on pattern			
[Basophilic Focus TGLS = 6-16]			
[Eosinophilic Focus TGLS = 4-14]			
[Hepatocellular Carcinoma TGLS = 5-10]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
Note: in pulmonary vessels			
Lymph Node	Iliac	Hyperplasia	Plasma Cell, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:53
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 33	TRT#: 1 DOSE: 0.0MG/M3	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 741 HISTO: MZ34/T033
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ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 9-13,10-12] [Hyperplasia TGLS = 9-13,10-12] * Lymph Node, Mesenteric	Renal	Hyperplasia	Plasma Cell, Moderate
* Skin Note: ulcerative dermatitis w/ cellulitis [Inflammation TGLS = 12-11]	Tail	Inflammation Inflammation	Moderate Marked
* Spleen [Hematopoietic Cell Proliferation TGLS = 3-9]		Hematopoietic Cell Proliferation	Moderate
* Thymus		Degeneration	Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Urinary Bladder Note: acute ulcerative, extends into muscle [Calculus Gross Observation TGLS = 8-5]		Calculus Gross Observation Inflammation	Marked

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 34

TRT#: 1

SEX: Male

DAY ON TEST: 740

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T034

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Larynx
* Lymph Node, Bronchial	* 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

* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Epididymis		Fibrous Histiocytoma	
[Fibrous Histiocytoma TGLS = 3-6]			
Harderian Gland		Adenoma	
[Adenoma TGLS = 2-9]			
* Kidney		Infiltration Cellular	Lymphocyte, Mild
* Liver		Infiltration Cellular	Lymphocyte, Mild
* Lung		Alveolar/Bronchiolar Carcinoma	
	Alveolus	Hyperplasia	Macrophage, Mild
Note: AMs filled w/ hemosiderin			
Note: Ca DX based on foci of anaplasia & invasion of bronchioles			
[Alveolar/Bronchiolar Carcinoma TGLS = 5-4]			
* Preputial Gland		Inflammation	Chronic, Marked
[Inflammation TGLS = 1-6]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 35

TRT#: 1

SEX: Male

DAY ON TEST: 605

DOSE: 0.0MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/T035

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Lymph Node, Bronchial
* 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

* Intestine Large, Colon	* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
		Hepatocholangiocarcinoma	
Note: TGL "cyst" is related to necrosis in tumor			
[Hepatocellular Adenoma TGLS = 7-3]			
[Hepatocholangiocarcinoma TGLS = 5-11,6-9]			
* Lung		Hepatocholangiocarcinoma	Metastatic (Liver)
	Bronchus	Hyperplasia	Lymphoid, Minimal
[Hepatocholangiocarcinoma TGLS = 8-4]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Marked
[Hyperplasia TGLS = 1-6]			
* Preputial Gland		Inflammation	Chronic, Moderate
[Inflammation TGLS = 3-6]			
* Skin	Prepuce	Inflammation	Marked
Note: focal ulcerative dermatitis			
[Inflammation TGLS = 2-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 35

TRT#: 1

SEX: Male

DAY ON TEST: 605

DOSE: 0.0MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/T035

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CO/MSAC=liver tumor

Animal Note: CO/MSAC=preputial lesions

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 36

TRT#: 1

SEX: Male

DAY ON TEST: 589

DOSE: 0.0MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/T036

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Lymph Node, Mandibular	* Nose	* Pituitary Gland	* Prostate
* Salivary Glands	* Skin	* Stomach, Forestomach	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Intestine Large, Rectum	* Lymph Node, Mesenteric	* Mammary Gland
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INSUFFICIENT TISSUE

* Parathyroid Gland	* Thymus
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OBSERVATIONS

* Adrenal Cortex [Fibrous Histiocytoma TGLS = 9-8]	Fibrous Histiocytoma	Metastatic (Liver)
* Adrenal Medulla [Fibrous Histiocytoma TGLS = 9-8]	Fibrous Histiocytoma	Metastatic (Liver)
* Epididymis	Fibrous Histiocytoma	Metastatic (Liver)
* Gallbladder	Fibrous Histiocytoma	Metastatic (Liver)
* Kidney Note: in capsule [Fibrous Histiocytoma TGLS = 10-9]	Fibrous Histiocytoma	Metastatic (Liver)
* Liver	Fibrous Histiocytoma Hepatocellular Carcinoma Necrosis	Mild

Note: liver primary because of massive involvemnet

Note: DX based on description of IARC Tumors of Mouse '79

Note: "fibrous tumor " producing collagen

Note: necrosis is individual cell, apoptosis

Note: many mets = extens.from LV or transcoelomic spread

[Fibrous Histiocytoma TGLS = 5-12,3]

[Hepatocellular Carcinoma TGLS = 6-13,7-11]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 36	TRT#: 1 DOSE: 0.0MG/M3	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 589 HISTO: MZ34/T036
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ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 8-10]			
* Lung	Interstitial	Fibrous Histiocytoma Infiltration Cellular	Metastatic (Liver) Minimal
Note: tumor in , around vessels of lung			
Lymph Node	Pancreatic	Fibrous Histiocytoma	Metastatic (Liver)
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Moderate
* Lymph Node, Mediastinal		Hyperplasia	Macrophage, Mild
Mesentery		Fibrous Histiocytoma	Metastatic (Liver)
[Fibrous Histiocytoma TGLS = 4-14]			
* Pancreas		Fibrous Histiocytoma	Metastatic (Liver)
* Preputial Gland		Ectasia	Moderate
[Ectasia TGLS = 1-6,2-6]			
* Seminal Vesicle		Fibrous Histiocytoma	Metastatic (Liver)
* Spleen		Hyperplasia	Lymphoid, Mild
* Stomach, Glandular		Fibrous Histiocytoma	Metastatic (Liver)
[Fibrous Histiocytoma TGLS = 3-15]			

PRIMARY CAUSE OF DEATH -

Animal Note: tissue labeled "ADRENAL" replace by neoplasm

Animal Note: CO/MSAC=fibrous histeocytoma, widespread

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 37

TRT#: 1

SEX: Male

DAY ON TEST: 508

DOSE: 0.0MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/T037

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Intestine Large, Rectum	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland
* Thymus			

OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
* Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 4-9]			
Lymph Node	Inguinal	Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 1-12]			
Penis		Concretion	Moderate
[Concretion TGLS = 2-11]			
* Preputial Gland		Inflammation	Chronic, Minimal
* Skin	Prepuce	Inflammation	Marked
Note: slides6,10=inflam skin near rectum,prep. gland			
Note: ulcerative dermatitis/cellulitis preputial area			
[Inflammation TGLS = 3-10]			

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=inflammation/cellulitis in preputial area

Animal Note: TGL"rectum"=anus, lesion in SKIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 38

TRT#: 1

SEX: Male

DAY ON TEST: 737

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T038

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Brain
* Intestine Large, Cecum
* Intestine Small, Ileum
* Lymph Node, Bronchial
* Pancreas
* Salivary Glands
* Stomach, Glandular
* Trachea

* Adrenal Medulla
* Epididymis
* Intestine Large, Colon
* Intestine Small, Jejunum
* Lymph Node, Mandibular
* Parathyroid Gland
* Seminal Vesicle
* Testes
* Urinary Bladder

* Bone
* Gallbladder
* Intestine Large, Rectum
* Islets, Pancreatic
* Lymph Node, Mesenteric
* Pituitary Gland
* Skin
* Thymus

* Bone Marrow
* Heart
* Intestine Small, Duodenum
* Lung
* Nose
* Prostate
* Stomach, Forestomach
* Thyroid Gland

MISSING

* Lymph Node, Mediastinal

* Mammary Gland

INSUFFICIENT TISSUE

* Esophagus

* Larynx

OBSERVATIONS

* Kidney

* Liver
[Hepatocellular Adenoma TGLS = 2-9]
* Preputial Gland
Note: rupture of gland w/ cellulitis
[Inflammation TGLS = 1-6]
* Spleen

Infiltration Cellular
Nephropathy
Hepatocellular Adenoma

Inflammation

Hyperplasia

Lymphocyte, Minimal
Minimal

Chronic, Marked

Lymphoid, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 39

TRT#: 1

SEX: Male

DAY ON TEST: 641

DOSE: 0.0MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/T039

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * 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 | * Larynx |
| * Liver | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Nose |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Prostate |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Testes | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

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

OBSERVATIONS

- | | | | |
|---|-----------------|------------------------------|------------------------------|
| * Adrenal Medulla
[Pheochromocytoma Complex TGLS = 2-8] | | Pheochromocytoma Complex | |
| * Kidney | | Nephropathy | Minimal |
| * Lung | Interstitialium | Alveolar/Bronchiolar Adenoma | Two |
| | | Infiltration Cellular | Minimal |
| | | Pheochromocytoma Complex | Metastatic (Adrenal Medulla) |
| Note: infiltrate includes minimal vasculitis, metas. related?
[Alveolar/Bronchiolar Adenoma TGLS = 4-10,5-9] | | | |
| * Preputial Gland
[Inflammation TGLS = 1-6] | | Inflammation | Chronic, Mild |
| * Seminal Vesicle
[Hyperplasia TGLS = 3-11] | | Hyperplasia | Mild |

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=ADRENAL PHEOCHROM CPLX

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 40

TRT#: 1

SEX: Male

DAY ON TEST: 662

DOSE: 0.0MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/T040

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx
* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Trachea		

MISSING

* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Thymus
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OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Marked
* Kidney	Pelvis	Inflammation	Mild
		Nephropathy	Minimal
			[Inflammation TGLS = 4-3]
* Lung		Inflammation	Chronic Active, Minimal
			Note: thrombus in one vein-related to cystitis?
Lymph Node	Iliac	Hyperplasia	Plasma Cell, Moderate
			[Hyperplasia TGLS = 5-9]
Penis		Concretion	Mild
			Note: proteinaceous concretion
			[Concretion TGLS = 2-12]
* Preputial Gland		Atrophy	Moderate
		Inflammation	Chronic, Minimal
* Skin	Prepuce	Inflammation	Mild
			Note: focal ulcerative dermatitis
			[Inflammation TGLS = 1-10]
* Spleen		Hyperplasia	Lymphoid, Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
Urethra		Concretion	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:53
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 40	TRT#: 1 DOSE: 0.0MG/M3	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 662 HISTO: MZ34/T040
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: proteinaceous concretion [Concretion TGLS = 3-11] * Urinary Bladder Note: severe inflammation, involves all layers of bladder	Inflammation	Marked
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PRIMARY CAUSE OF DEATH -

Animal Note: CO/MSAC=preputial lesion & cystitis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 41

TRT#: 3

SEX: Male

DAY ON TEST: 476

DOSE: 0.0MG/M3LUNG TOX

DISP: Scheduled Sacrifice

HISTO: MZ34/T041

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Brain
- * Heart
- * Intestine Small, Duodenum
- * Kidney
- * Lymph Node, Bronchial
- * Pancreas
- * Seminal Vesicle
- * Stomach, Glandular
- * Trachea

- * Adrenal Medulla
- * Epididymis
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Larynx
- * Lymph Node, Mandibular
- * Pituitary Gland
- * Skin
- * Testes
- * Urinary Bladder

- * Bone
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Liver
- * Lymph Node, Mesenteric
- * Prostate
- * Spleen
- * Thymus

- * Bone Marrow
- * Gallbladder
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Lung
- * Nose
- * Salivary Glands
- * Stomach, Forestomach
- * Thyroid Gland

MISSING

- * Lymph Node, Mediastinal

- * Mammary Gland

- * Parathyroid Gland

OBSERVATIONS

- * Preputial Gland

[Inflammation TGLS = 1-6]

Urethra

Inflammation

Chronic, Moderate

Calculus Micro Observation Only

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 42

TRT#: 1

SEX: Male

DAY ON TEST: 67

DOSE: 0.0MG/M3

DISP: Natural Death

HISTO: MZ34/T042

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Brain
* Heart
* Kidney
* Nose
* Preputial Gland
* Skin
* Thyroid Gland

* Adrenal Medulla
* Epididymis
* Intestine Large, Cecum
* Larynx
* Pancreas
* Prostate
* Stomach, Forestomach
* Urinary Bladder

* Bone
* Esophagus
* Intestine Large, Rectum
* Lung
* Parathyroid Gland
* Salivary Glands
* Stomach, Glandular

* Bone Marrow
* Gallbladder
* Islets, Pancreatic
* Lymph Node, Mesenteric
* Pituitary Gland
* Seminal Vesicle
* Testes

MISSING

* Lymph Node, Bronchial

* Lymph Node, Mandibular

* Lymph Node, Mediastinal

* Mammary Gland

AUTO PRECLUDES DIAG.

* Intestine Large, Colon

* Intestine Small, Duodenum

* Intestine Small, Ileum

* Intestine Small, Jejunum

INSUFFICIENT TISSUE

* Trachea

OBSERVATIONS

* Liver	Atrophy	Moderate
* Spleen	Atrophy	Moderate
* Thymus	Degeneration	Marked

PRIMARY CAUSE OF DEATH

-

Animal Note: undetermined cause of death; lesions due to cachexia

Animal Note: no corresponding lesion

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:53
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 44	TRT#: 1 DOSE: 0.0MG/M3	SEX: Male DISP: Scheduled Sacrifice	DAY ON TEST: 196 HISTO: MZ34-T044
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mediastinal
* Nose			

OBSERVATIONS

Lymph Node	Lumbar	Hyperplasia	Lymphoid, Moderate
	Lumbar	Pigmentation	Mild
[Hyperplasia TGLS = 1-5]			
[Pigmentation TGLS = 2-5]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 46

TRT#: 1

SEX: Male

DAY ON TEST: 212

DOSE: 0.0MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/T046

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Larynx	* Liver	* Lung	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland	* Thymus
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INSUFFICIENT TISSUE

* Lymph Node, Bronchial

OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Marked
* Kidney			
Note: nolesion corresponds of pelvic dilation			
Lymph Node	Inguinal	Hyperplasia	Plasma Cell, Marked
	Lumbar	Hyperplasia	Plasma Cell, Moderate
	Lumbar	Pigmentation	Mild
	[Hyperplasia TGLS = 8-14,6-15]		
	[Hyperplasia TGLS = 8-14,6-15]		
* Skin		Alopecia	Mild
		Inflammation	Marked
Note: ulcerative dermatitis-feet,scrotum,tail			
	[Alopecia TGLS = 4-12]		
	[Inflammation TGLS = 1-9,2-10,3-11,5-13]		
* Spleen		Hyperplasia	Lymphoid, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 46

TRT#: 1

SEX: Male

DAY ON TEST: 212

DOSE: 0.0MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/T046

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: ra

Animal Note: "lumbar"ln is gluteal ln

Animal Note: xray=no bone lesion;shows soft tissue swelling,foot,tail

Animal Note: "lumbar ln" is Gluteal LN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 47

TRT#: 1

SEX: Male

DAY ON TEST: 526

DOSE: 0.0MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/T047

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Trachea			

MISSING

* Intestine Large, Rectum	* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Mammary Gland
* Thymus			

OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
* Brain			
Note: cerebellar section missing			
* Kidney	Pelvis	Inflammation	Mild
Lymph Node	Iliac	Hyperplasia	Plasma Cell, Mild
	Inguinal	Hyperplasia	Lymphoid, Marked
[Hyperplasia TGLS = 5-11,2-10]			
[Hyperplasia TGLS = 5-11,2-10]			
* Preputial Gland		Inflammation	Chronic, Mild
[Inflammation TGLS = 3-6]			
* Skin	Prepuce	Inflammation	Marked
[Inflammation TGLS = 1-12]			
* Spleen		Hematopoietic Cell Proliferation	Mild
[Hematopoietic Cell Proliferation TGLS = 4-9,3]			
* Testes		Atrophy	Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Urinary Bladder		Inflammation	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:53
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 47

TRT#: 1

SEX: Male

DAY ON TEST: 526

DOSE: 0.0MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/T047

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: #10 considered inguinal ln, no tatto pigment present

Animal Note: CO/MSAC=preputial inflam&cellulitis & cystitis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 48

TRT#: 1

SEX: Male

DAY ON TEST: 552

DOSE: 0.0MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/T048

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Larynx	* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	

MISSING

* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Kidney		Hydronephrosis Nephropathy	Moderate Minimal
[Hydronephrosis TGLS = 3-3]			
* Lung	Bronchus	Hyperplasia	Lymphoid, Minimal
Lymph Node	Iliac	Hyperplasia	Plasma Cell, Mild
	Inguinal	Pigmentation	Minimal
[Hyperplasia TGLS = 4-9]			
* Preputial Gland		Ectasia	Minimal
[Ectasia TGLS = 1-6]			
* Spleen		Hyperplasia	Lymphoid, Marked
[Hyperplasia TGLS = 2-3]			
* Urinary Bladder		Inflammation	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: COMSAC=undetermined, no correlation w/ clin signs

Animal Note: 81

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 49

TRT#: 1

SEX: Male

DAY ON TEST: 620

DOSE: 0.0MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/T049

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Larynx	* Liver	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Mammary Gland	* Thymus
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OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Penis		Inflammation	Moderate
[Inflammation TGLS = 3-10]			
* Preputial Gland		Ectasia	Minimal
[Ectasia TGLS = 1-6]			
* Skin	Prepuce	Inflammation	Marked
Note: ulcerative dermatitis & cellulitis anal/preputial area			
[Inflammation TGLS = 4-9]			

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=dermatitis & cellulitis, prepuce & anal area

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 50

TRT#: 1

SEX: Male

DAY ON TEST: 740

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T050

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Kidney	* Larynx	* Lung	* Lymph Node, Bronchial
* 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

* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Liver		Hepatocellular Adenoma Mixed Cell Focus	
[Hepatocellular Adenoma TGLS = 2-9]			
* Preputial Gland		Inflammation	Chronic, Marked
Note: rupture of gland w/ cellulitis			
[Inflammation TGLS = 1-6]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:53
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 51

TRT#: 3

SEX: Male

DAY ON TEST: 196

DOSE: 0.0MG/M3LUNG TOX

DISP: Scheduled Sacrifice

HISTO: MZ34-T051

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney

* Lung

* Lymph Node, Bronchial

* Nose

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 52

TRT#: 1

SEX: Male

DAY ON TEST: 713

DOSE: 0.0MG/M3

DISP: Natural Death

HISTO: MZ34/T052

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Rectum	* Islets, Pancreatic	* Kidney	* Larynx
* Lymph Node, Bronchial	* 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

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum		

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Liver		Hepatocellular Carcinoma Necrosis	Moderate
	[Hepatocellular Carcinoma TGLS = 4-10,3] [Necrosis TGLS = 3-3]		
* Lung	Alveolus Bronchus	Alveolar/Bronchiolar Carcinoma Hyperplasia Hyperplasia	Macrophage, Mild Lymphoid, Minimal
	Note: DX based on loss norm. archd.,necrosis, size [Alveolar/Bronchiolar Carcinoma TGLS = 6-11,5-4]		
* Preputial Gland		Inflammation	Chronic, Moderate
	[Inflammation TGLS = 2-6]		
* Skin			
	Note: focal autolysis, PM artifact		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:53
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 52

TRT#: 1

SEX: Male

DAY ON TEST: 713

DOSE: 0.0MG/M3

DISP: Natural Death

HISTO: MZ34/T052

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

Animal Note: COD=liver tumor

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 53

TRT#: 1

SEX: Male

DAY ON TEST: 740

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T053

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Kidney	* Larynx	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* 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		
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OBSERVATIONS

* Lung	Bronchus	Hyperplasia	Lymphoid, Minimal
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
[Inflammation TGLS = 2-6]			
* Skin	Prepuce	Inflammation	Moderate
Note: primarily cellulitis of dermis			
[Inflammation TGLS = 1-9]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: mes ln congested,w/ haemosiderin, not consider lesion

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:53
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 54

TRT#: 1

SEX: Male

DAY ON TEST: 196

DOSE: 0.0MG/M3

DISP: Scheduled Sacrifice

HISTO: MZ34-T054

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney

* Lung

* Lymph Node, Mediastinal

* Nose

MISSING

* Lymph Node, Bronchial

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 56

TRT#: 1

SEX: Male

DAY ON TEST: 741

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T056

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Brain
* Heart
* Intestine Small, Duodenum
* Larynx
* Pancreas
* Seminal Vesicle
* Stomach, Glandular
* Urinary Bladder

* Adrenal Medulla
* Epididymis
* Intestine Large, Cecum
* Intestine Small, Ileum
* Lymph Node, Mandibular
* Parathyroid Gland
* Skin
* Testes

* Bone
* Esophagus
* Intestine Large, Colon
* Intestine Small, Jejunum
* Lymph Node, Mesenteric
* Prostate
* Spleen
* Thymus

* Bone Marrow
* Gallbladder
* Intestine Large, Rectum
* Islets, Pancreatic
* Nose
* Salivary Glands
* Stomach, Forestomach
* Trachea

MISSING

* Lymph Node, Bronchial

* Lymph Node, Mediastinal

* Mammary Gland

* Pituitary Gland

OBSERVATIONS

* Kidney
* Liver
Note: infarcted median lobe
[Infarct TGLS = 2-9]

Infiltration Cellular
Infarct

Lymphocyte, Mild
Marked

* Lung
Note: diff DX is adenoma, not enough piling or papillary forms
Note: recuts show lesion
[Hyperplasia TGLS = 3-4]
[Hyperplasia TGLS = 3-4]

Alveolar Epith
Bronchus

Hyperplasia
Hyperplasia

Marked
Lymphoid, Minimal

* Preputial Gland
[Ectasia TGLS = 1-6]

Ectasia

Moderate

* Thyroid Gland
Follicular Cel
Follicular Cel

Adenoma
Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 57

TRT#: 1

SEX: Male

DAY ON TEST: 741

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T057

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Kidney
* Larynx	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Testes	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Intestine Large, Rectum	* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Lung	Alveolus	Alveolar/Bronchiolar Carcinoma Hyperplasia	Macrophage, Mild
Note: AMs assoc. w/ tumor			
Note: Ca DX based on foci anaplasia, in middle & 1 end of mass [Alveolar/Bronchiolar Carcinoma TGLS = 2-9]			
* Preputial Gland		Ectasia	Moderate
[Ectasia TGLS = 1-6]			
* Stomach, Glandular		Inflammation	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
Tooth		Inflammation	Moderate
Note: suppurative inflamm. tooth & adjacent tissues			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 58

TRT#: 1

SEX: Male

DAY ON TEST: 196

DOSE: 0.0MG/M3

DISP: Scheduled Sacrifice

HISTO: MZ34-T058

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney

* Lung

* Nose

MISSING

* Lymph Node, Bronchial

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 59

TRT#: 1

SEX: Male

DAY ON TEST: 694

DOSE: 0.0MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/T059

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Larynx	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Kidney		Hydronephrosis	Mild
[Hydronephrosis TGLS = 7-3]			
* Liver		Hepatocellular Carcinoma	
Note: DX=size, anaplasia, includes large infarcted area			
[Hepatocellular Carcinoma TGLS = 9-3,9,10]			
* Lung	Bronchus	Hyperplasia	Lymphoid, Minimal
Lymph Node	Iliac	Hyperplasia	Plasma Cell, Marked
	Iliac	Pigmentation	Minimal
[Hyperplasia TGLS = 8-14]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 8-14]			
* Preputial Gland		Ectasia	Moderate
		Inflammation	Chronic, Moderate
[Ectasia TGLS = 4-6]			
[Inflammation TGLS = 3-6]			
* Sem Ves			
Note: SV merely distended w/ secretions, no lesion			
* Skin	Prepuce	Inflammation	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:53
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 59	TRT#: 1 DOSE: 0.0MG/M3	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 694 HISTO: MZ34/T059
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: preputial inflammation includes base of tail
[Inflammation TGLS = 1-15,2-13]

* Thyroid Gland	Follicular Cel Follicular Cel	Adenoma Hyperplasia	Mild
Note: DX based on piling up of follicular cells Urethra		Concretion	Moderate

Note: concretion is proteinaceous
[Concretion TGLS = 6-11]

PRIMARY CAUSE OF DEATH -

Animal Note: ulcerative dermatitis/cellulitis,prepuce/tail

Animal Note: liver tumor very large, contributed to poor clin.condition

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 60

TRT#: 1

SEX: Male

DAY ON TEST: 552

DOSE: 0.0MG/M3

DISP: Natural Death

HISTO: MZ34/T060

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Larynx
* 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

* Intestine Large, Rectum	* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Heart Note: transcoelomic mets	Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
* Liver Note: mesentery TGL=infarcted liver lobe [Infarct TGLS = 1-11]	Infarct	Marked
* Lung Note: AB Ca pattern epithelial, alveolar Note: Ca invades pleural cavity Note: not mesothelioma, too focal, no meso. cell dysplasia Note: Bronc.LN met, drains lung=malign. lung tumor [Alveolar/Bronchiolar Carcinoma TGLS = 9-9]	Alveolar/Bronchiolar Carcinoma	
* Lymph Node, Bronchial Mesentery Note: mesentery TGL=infarcted liver lobe	Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
* Thymus Note: orgsn THYMUS based on gross, no thymus on slide	Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
Tissue NOS Thoracic [Alveolar/Bronchiolar Carcinoma TGLS = 6-14,7-12,5-13,4-4,10]	Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 60

TRT#: 1

SEX: Male

DAY ON TEST: 552

DOSE: 0.0MG/M3

DISP: Natural Death

HISTO: MZ34/T060

ORGAN AND ACCOUNTABLE SITE STATUS

Tooth

Inflammation

Moderate

PRIMARY CAUSE OF DEATH

-

Animal Note: COD=Lung Tumor w/ mets & invasion of thorax

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 61

TRT#: 1

SEX: Male

DAY ON TEST: 591

DOSE: 0.0MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/T061

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* 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	* Thyroid Gland	* Trachea

MISSING

* Intestine Large, Rectum	* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Kidney	Pelvis	Inflammation	Mild
[Inflammation TGLS = 7-3]			
* Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 8-10]			
Lymph Node	Iliac	Hyperplasia	Plasma Cell, Marked
[Hyperplasia TGLS = 6-11]			
* Preputial Gland		Ectasia	Moderate
[Ectasia TGLS = 2-6]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLS = 3-3,9.4-3,9]			
* Urinary Bladder		Inflammation	Marked
Note: ulcerative W/ exudate and crystals in lumen			
[Inflammation TGLS = 5-5]			

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=cystitis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 62

TRT#: 1

SEX: Male

DAY ON TEST: 737

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T062

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Brain
* Heart
* Intestine Small, Ileum
* Larynx
* Pancreas
* Seminal Vesicle
* Stomach, Glandular
* Trachea

* Adrenal Medulla
* Epididymis
* Intestine Large, Cecum
* Intestine Small, Jejunum
* Lymph Node, Mandibular
* Pituitary Gland
* Skin
* Testes
* Urinary Bladder

* Bone
* Esophagus
* Intestine Large, Colon
* Islets, Pancreatic
* Lymph Node, Mesenteric
* Prostate
* Spleen
* Thymus

* Bone Marrow
* Gallbladder
* Intestine Small, Duodenum
* Kidney
* Nose
* Salivary Glands
* Stomach, Forestomach
* Thyroid Gland

MISSING

* Intestine Large, Rectum

* Lymph Node, Mediastinal

* Mammary Gland

* Parathyroid Gland

INSUFFICIENT TISSUE

* Lymph Node, Bronchial

OBSERVATIONS

* Liver
[Hepatocellular Adenoma TGLS = 8-3]

Hepatocellular Adenoma

* Lung
Bronchus

Hyperplasia

Lymphoid, Minimal

* Preputial Gland
[Ectasia TGLS = 1-6]

Ectasia

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 63

TRT#: 1

SEX: Male

DAY ON TEST: 681

DOSE: 0.0MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/T063

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx
* Liver	* Lung	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland
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INSUFFICIENT TISSUE

* Lymph Node, Bronchial

OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
* Kidney		Hydronephrosis	Moderate
[Hydronephrosis TGLS = 5-3]			
* Preputial Gland		Ectasia	Minimal
[Ectasia TGLS = 3-6]			
* Skin		Inflammation	Marked
Note: ulcerative dermatitis, tail and feet			
[Inflammation TGLS = 1-9,2-10]			
* Spleen		Hyperplasia	Lymphoid, Mild
* Thymus		Degeneration	Mild
Urethra		Concretion	Moderate
Note: proteinaceous			
[Concretion TGLS = 4-11]			

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=ulcerative dermatitis tail, feet

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:53
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 64	TRT#: 1 DOSE: 0.0MG/M3	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: MZ34/T064
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Kidney	* Larynx	* 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, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Liver Note: second adenoma on slide 3 [Hepatocellular Adenoma TGLS = 3-9]	Hepatocellular Adenoma	Multiple
* Lung Interstitialium [Alveolar/Bronchiolar Adenoma TGLS = 4-4]	Alveolar/Bronchiolar Adenoma Infiltration Cellular	Minimal
* Lymph Node, Bronchial [Hyperplasia TGLS = 1-6,5-4]	Hyperplasia	Lymphoid, Mild
* Lymph Node, Mandibular [Hyperplasia TGLS = 1-6,5-4]	Hyperplasia	Plasma Cell, Moderate
* Preputial Gland Note: inflammation w/ rupture of gland & cellulitis [Inflammation TGLS = 2-6]	Inflammation	Chronic, Marked

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 66

TRT#: 3

SEX: Male

DAY ON TEST: 434

DOSE: 0.0MG/M3LUNG TOX

DISP: Natural Death

HISTO: MZ34/T066

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Heart	* Islets, Pancreatic
* Kidney	* Larynx	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* 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

* Lymph Node, Mediastinal	* Mammary Gland
---------------------------	-----------------

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	

OBSERVATIONS

* Brain	Medulla	Degeneration	Focal, Mild
* Liver		Angiectasis	Moderate
		Hepatocellular Carcinoma	
Note: malignancy based on cytologic features [Hepatocellular Carcinoma TGLS = 4-10]			
* Lung	Bronchus	Hyperplasia	Lymphoid, Minimal
* Preputial Gland		Ectasia	Mild
[Ectasia TGLS = 3-6]			
* Skin		Fibrosis	Moderate
		Necrosis	Marked
Note: necrosis=tip of ear [Fibrosis TGLS = 1-12] [Necrosis TGLS = 2-11]			

PRIMARY CAUSE OF DEATH

-

Animal Note: pigment seen at gross=post mortem artifact

Animal Note: COD probably related to large liver tumor

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:53
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 67	TRT#: 1 DOSE: 0.0MG/M3	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 741 HISTO: MZ34/T067
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Kidney	* Larynx	* Liver	* Lymph Node, Bronchial
* 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

* Lymph Node, Mediastinal	* Mammary Gland
---------------------------	-----------------

OBSERVATIONS

* Lung	Alveolar Epith Bronchus	Hyperplasia Hyperplasia Ectasia	Minimal Lymphoid, Minimal Mild
* Preputial Gland [Ectasia TGLS = 1-6]			
Tooth		Inflammation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:53
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 68	TRT#: 3	SEX: Male	DAY ON TEST: 196
	DOSE: 0.0MG/M3LUNG TOX	DISP: Scheduled Sacrifice	HISTO: MZ34-T068

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL			
* Kidney	* Lung	* Lymph Node, Bronchial	

MISSING
* Lymph Node, Mediastinal

OBSERVATIONS			
* Nose	Olfactory Epi, Respirat Epith	Degeneration	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 69

TRT#: 1

SEX: Male

DAY ON TEST: 313

DOSE: 0.0MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/T069

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Trachea	

MISSING

* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Marked
* Gallbladder			
Note: on slide 3A			
* Kidney		Inflammation	Marked
Note: pyelonephritis, septic			
[Inflammation TGLS = 7-3,8-3]			
* Liver		Necrosis	Mild
Note: massive hepatic necrosis			
Lymph Node	Iliac	Hyperplasia	Plasma Cell, Marked
	Inguinal	Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 1-12,5-5,9-11]			
[Hyperplasia TGLS = 1-12,5-5,9-11]			
* Lymph Node, Mesenteric		Hyperplasia	Macrophage, Moderate
[Hyperplasia TGLS = 1-12,5-5,9-11]			
Penis		Concretion	Marked
Note: concretion is protein in sheath, has assoc.inflammation			
[Concretion TGLS = 2-13]			
* Preputial Gland		Ectasia	Mild
[Ectasia TGLS = 3-6]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:53
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 69	TRT#: 1 DOSE: 0.0MG/M3	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 313 HISTO: MZ34/T069
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ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Hematopoietic Cell Proliferation TGLS = 4-3]	Hematopoietic Cell Proliferation	Moderate
* Thymus	Degeneration	Marked
* Thyroid Gland Follicular Cel Note: DX based on dual pattern, piling up of cells [Adenoma TGLS = 10-2]	Adenoma	
Ureter [Inflammation TGLS = 6-9,10]	Inflammation	Marked
* Urinary Bladder	Inflammation	Marked

PRIMARY CAUSE OF DEATH -

Animal Note: marked cystitis & pyelonephitis is COD

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 70	TRT#: 1 DOSE: 0.0MG/M3	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 740 HISTO: MZ34/T070
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Bone Marrow	Erythroid Cell	Hyperplasia	Mild
* Kidney	Renal Tubule	Degeneration	Mild
* Liver		Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 2-9]			
* Lung		Alveolar/Bronchiolar Adenoma	
		Hepatocellular Carcinoma	Metastatic (Liver)
	Interstitialium	Infiltration Cellular	Minimal
Note: Adenoma DX based on lack of anaplasia			
Note: mets in vessels			
* Lymph Node, Mesenteric		Inflammation	Mild
[Inflammation TGLS = 3-5]			
* Preputial Gland		Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-6]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 71

TRT#: 1

SEX: Male

DAY ON TEST: 737

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T071

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Kidney	* Larynx	* Liver	* Lymph Node, Bronchial
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Lung	Bronchus Interstitialium	Hyperplasia Infiltration Cellular	Lymphoid, Minimal Minimal
* Lymph Node, Mandibular [Hyperplasia TGLS = 1-6]		Hyperplasia	Lymphoid, Mild
* Spleen		Hyperplasia	Lymphoid, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 73

TRT#: 1

SEX: Male

DAY ON TEST: 463

DOSE: 0.0MG/M3

DISP: Natural Death

HISTO: MZ34/T073

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * 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 | * Islets, Pancreatic |
| * Kidney | * Larynx | * Lung | * Lymph Node, Bronchial |
| * 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

- | | |
|---------------------------|-----------------|
| * Lymph Node, Mediastinal | * Mammary Gland |
|---------------------------|-----------------|

OBSERVATIONS

- | | | |
|---|---|----------|
| * Liver | Angiectasis
Hepatocellular Carcinoma | Moderate |
| Note: malignancy based on cytologic features
[Hepatocellular Carcinoma TGLS = 2-3,9] | | |
| * Parathyroid Gland | | |
| Note: PTHis on slide 2A | | |
| * Preputial Gland | Ectasia | Mild |
| [Ectasia TGLS = 1-6] | | |

PRIMARY CAUSE OF DEATH

-

Animal Note: COD is attributed to liver tumor

Animal Note: BLN is on 4A

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 74

TRT#: 1

SEX: Male

DAY ON TEST: 737

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T074

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Kidney	* Larynx	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mediastinal	* Mammary Gland	* Pituitary Gland
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OBSERVATIONS

* Liver		Basophilic Focus	
* Lung		Alveolar/Bronchiolar Adenoma	
	Bronchus	Hyperplasia	Lymphoid, Mild
	[Alveolar/Bronchiolar Adenoma TGLS = 2-9]		
* Nose	Olfactory Epi	Atrophy	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
	[Inflammation TGLS = 1-6]		
* Spleen		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 75

TRT#: 3

SEX: Male

DAY ON TEST: 476

DOSE: 0.0MG/M3LUNG TOX

DISP: Scheduled Sacrifice

HISTO: MZ34/T075

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * 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 | * Islets, Pancreatic |
| * Kidney | * Larynx | * Lymph Node, Bronchial | * Lymph Node, Mandibular |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Nose | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Testes | * Thymus | * Thyroid Gland |
| * Urinary Bladder | | | |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|------------------------|----------|------------------------|-------------------|
| * Liver | | Hepatocellular Adenoma | |
| * Lung | Bronchus | Hyperplasia | Lymphoid, Minimal |
| * Preputial Gland | | Ectasia | Mild |
| [Ectasia TGLS = 1-6] | | | |
| * Trachea | | Inflammation | Focal, Minimal |

PRIMARY CAUSE OF DEATH

-

Animal Note: MAND LN = NO CORRESPONDING LESION

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 76

TRT#: 1

SEX: Male

DAY ON TEST: 588

DOSE: 0.0MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/T076

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Larynx	* Liver	* Lung	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Bone Marrow Penis Note: TGL is prepuce	Myeloid Cell	Hyperplasia	Moderate
* Preputial Gland [Inflammation TGLS = 2-6]		Inflammation	Chronic, Marked
* Skin Note: ulcerative dermatitis, cellulitis, prepuce, not penis [Inflammation TGLS = 1-9]	Prepuce	Inflammation	Marked
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=ulcerative dermatitis, cellulitis,prepuce

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 77

TRT#: 1

SEX: Male

DAY ON TEST: 585

DOSE: 0.0MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/T077

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx
* 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	Urethra	* Urinary Bladder	

MISSING

* Lymph Node, Mediastinal	* Mammary Gland
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INSUFFICIENT TISSUE

* Lymph Node, Bronchial

OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Kidney		Hydronephrosis	Mild
[Hydronephrosis TGLS = 3-3]			
* Liver		Hepatocellular Adenoma	
* Preputial Gland		Ectasia	Mild
[Ectasia TGLS = 1-6]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
Urethra			
Note: TGL=section thru penis w/ urethra			

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=undetermined

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 78

TRT#: 1

SEX: Male

DAY ON TEST: 741

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T078

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Kidney
* Lung	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Intestine Large, Rectum	* Larynx	* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Liver		Hepatocellular Carcinoma	
		Lymphoma Malignant	
Note: lymphoma involvement focal & vessel, not sinusiod related			
[Hepatocellular Carcinoma TGLS = 3-3,10]			
Lymph Node	Pancreatic	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
[Lymphoma Malignant TGLS = 6-4,5-13,7-2,4-12]			
[Lymphoma Malignant TGLS = 6-4,5-13,7-2,4-12]			
* Lymph Node, Bronchial		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 6-4,7-2,4-12,5-13]			
* Lymph Node, Mediastinal		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 6-4,5-13,7-2,4-12]			
* Lymph Node, Mesenteric		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 6-4,5-13,7-2,4-12]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Atrophy	Mild
* Spleen		Lymphoma Malignant	
Note: affects white pulp			
[Lymphoma Malignant TGLS = 2-9]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:53
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 78	TRT#: 1	SEX: Male	DAY ON TEST: 741
	DOSE: 0.0MG/M3	DISP: Terminal Sacrifice	HISTO: MZ34/T078

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus	Degeneration	Moderate
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PRIMARY CAUSE OF DEATH -

Animal Note: panc. & renal In most effected

Animal Note: large cell, pleomorphic, no giant cells

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 79

TRT#: 1

SEX: Male

DAY ON TEST: 741

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T079

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Kidney
* Larynx	* Liver	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* 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

* Intestine Large, Rectum	* Lymph Node, Bronchial	* Mammary Gland
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OBSERVATIONS

* Preputial Gland [Hyperplasia TGLS = 1-6]		Hyperplasia	Moderate
* Spleen		Hyperplasia	Lymphoid, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 80

TRT#: 1

SEX: Male

DAY ON TEST: 631

DOSE: 0.0MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/T080

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx
* Liver	* Lymph Node, Bronchial	* 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

* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland	* Thymus
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OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Kidney		Hydronephrosis	Mild
		Infiltration Cellular	Lymphocyte, Mild
[Hydronephrosis TGLS = 4-3]			
* Lung	Bronchus	Hyperplasia	Lymphoid, Minimal
* Preputial Gland		Ectasia	Marked
[Ectasia TGLS = 2-6]			
* Skin			
Note: gross=short tail, skin etc normal			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=undetermined

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 161

TRT#: 5

SEX: Male

DAY ON TEST: 476

DOSE: 0.6MG/M3

DISP: Scheduled Sacrifice

HISTO: MZ34/U161

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Kidney	* Larynx	* Lymph Node, Mesenteric	* Pancreas
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 3-9,4-3]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Hyperplasia	Macrophage, Minimal
	Interstitium	Infiltration Cellular	Minimal
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Marked
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Minimal
		Hyperplasia	Lymphoid, Minimal
* Nose	Olfactory Epi	Atrophy	Minimal
* Preputial Gland		Ectasia	Marked
Note: TGL2=6a			
Note: one gland has minimal the other marked ectasia			
[Ectasia TGLS = 2-6,1-6]			
* Stomach, Forestomach		Hyperplasia	Focal, Minimal
* Stomach, Glandular		Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 162

TRT#: 5

SEX: Male

DAY ON TEST: 618

DOSE: 0.6MG/M3

DISP: Natural Death

HISTO: MZ34/U162

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Islets, Pancreatic
* Kidney	* Larynx	* Liver	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea

MISSING

* Gallbladder	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland
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AUTO PRECLUDES DIAG.

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

* Lung	Alveolar Epith Alveolus Interstitialium	Hyperplasia Hyperplasia Infiltration Cellular Inflammation	Minimal Macrophage, Mild Minimal Chronic Active, Minimal
Lymph Node [Hyperplasia TGLS = 4-5,1-10]	Alveolus Inguinal	Proteinosis Hyperplasia	Moderate Lymphoid, Mild
* Lymph Node, Bronchial [Hyperplasia TGLS = 4-5,1-10]		Hyperplasia	Macrophage, Minimal
* Lymph Node, Mesenteric [Hyperplasia TGLS = 4-5,1-10]		Hyperplasia	Lymphoid, Moderate
Penis Note: ulcerative dermatitis of skin on penis		Inflammation	Marked
* Preputial Gland [Ectasia TGLS = 2,3-6]		Ectasia	Moderate
* Skin Note: ulcerative dermatitis w/ cellulitis	Prepuce	Inflammation	Marked
* Spleen		Hyperplasia	Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:53
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 162	TRT#: 5 DOSE: 0.6MG/M3	SEX: Male DISP: Natural Death	DAY ON TEST: 618 HISTO: MZ34/U162
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ORGAN AND ACCOUNTABLE SITE STATUS

* Urinary Bladder Note: epithelial hyper.1 large focus [Hyperplasia TGLS = 5-5]	Hyperplasia	Mild
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PRIMARY CAUSE OF DEATH -

Animal Note: COD=undetermined
Animal Note: XRAYs=lumbar fracture buy no correspond lesion,PM?

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 163

TRT#: 5

SEX: Male

DAY ON TEST: 741

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U163

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Brain
* Heart
* Intestine Small, Duodenum
* Kidney
* Pancreas
* Salivary Glands
* Stomach, Forestomach
* Trachea

* Adrenal Medulla
* Epididymis
* Intestine Large, Cecum
* Intestine Small, Ileum
* Liver
* Parathyroid Gland
* Seminal Vesicle
* Stomach, Glandular
* Urinary Bladder

* Bone
* Esophagus
* Intestine Large, Colon
* Intestine Small, Jejunum
* Lymph Node, Mandibular
* Pituitary Gland
* Skin
* Testes

* Bone Marrow
* Gallbladder
* Intestine Large, Rectum
* Islets, Pancreatic
* Lymph Node, Mesenteric
* Prostate
* Spleen
* Thymus

MISSING

* Larynx

* Lymph Node, Mediastinal

* Mammary Gland

OBSERVATIONS

* Lung
[Hyperplasia TGLS = 3-4,3-4]
[Hyperplasia TGLS = 3-4,3-4]
* Nose
* Preputial Gland
[Ectasia TGLS = 1,3-6,1,2-6]
* Thyroid Gland

Alveolar Epith
Alveolus
Bronchus
Interstitialium

Alveolus

Olfactory Epi

Follicular Cel

Hyperplasia
Hyperplasia
Hyperplasia
Infiltration Cellular
Inflammation
Proteinosis
Hyperplasia
Hyperplasia

Atrophy
Ectasia

Hyperplasia

Mild
Macrophage, Moderate
Lymphoid, Mild
Moderate
Chronic Active, Moderate
Moderate
Lymphoid, Marked
Macrophage, Mild

Mild
Moderate

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 164

TRT#: 5

SEX: Male

DAY ON TEST: 674

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U164

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Larynx	* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	Penis	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Gallbladder	* Intestine Large, Rectum	* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex		Degeneration	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	
Note: large infarcted foci in tumor			
[Hepatocellular Carcinoma TGLS = 2,3-10.4-11,3]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Hyperplasia	Macrophage, Minimal
	Interstitium	Infiltration Cellular	Minimal
	Alveolus	Proteinosis	Moderate
[Hepatocellular Carcinoma TGLS = 6-4,12,13,14]			
* Nose	Olfactory Epi	Atrophy	Minimal
	Olfactory Epi	Degeneration	Minimal
* Preputial Gland		Ectasia	Mild
[Ectasia TGLS = 1-6]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Testes	Germinal Epith	Atrophy	Mild
* Thymus		Degeneration	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:53
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 164

TRT#: 5

SEX: Male

DAY ON TEST: 674

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U164

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=metastasizing hepatocellular carcinoma

Animal Note: w/ infiltrate of macrophages

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 165

TRT#: 5

SEX: Male

DAY ON TEST: 476

DOSE: 0.6MG/M3

DISP: Scheduled Sacrifice

HISTO: MZ34/U165

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Kidney
* Larynx	* 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

* Intestine Large, Rectum	* Lymph Node, Mediastinal	* Mammary Gland
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INSUFFICIENT TISSUE

* Lymph Node, Bronchial

OBSERVATIONS

* Lung	Alveolus Interstitialium	Hyperplasia Infiltration Cellular Inflammation	Macrophage, Mild Mild Chronic Active, Minimal
* Nose	Alveolus	Proteinosis	Moderate
* Preputial Gland	Olfactory Epi	Atrophy Ectasia	Minimal Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: no more BLN on recuts

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 166

TRT#: 5

SEX: Male

DAY ON TEST: 588

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U166

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Larynx	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* 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

* Bone Marrow	Myeloid Cell	Hyperplasia	Marked
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Minimal
	Interstitium	Infiltration Cellular	Minimal
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Moderate
Lymph Node	Inguinal	Hyperplasia	Plasma Cell, Moderate
			[Hyperplasia TGLS = 1-9]
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Minimal
			[Hyperplasia TGLS = 1-9]
* Preputial Gland		Ectasia	Mild
			[Ectasia TGLS = 3-6]
* Skin	Prepuce	Inflammation	Marked
			[Inflammation TGLS = 2-10]
* Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=ulcerative dermatitis w/ cellulitis, prepuce

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:53
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 167	TRT#: 7	SEX: Male	DAY ON TEST: 196
	DOSE: 0.6MG/M3LUNG TOX	DISP: Scheduled Sacrifice	HISTO: MZ34-U167

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney	* Nose
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MISSING

* Lymph Node, Mediastinal	
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OBSERVATIONS

* Lung	Alveolus	Hyperplasia	Macrophage, Minimal
	Interstitialium	Infiltration Cellular	Minimal
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Minimal
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal
		Hyperplasia	Macrophage, Minimal

PRIMARY CAUSE OF DEATH	-
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Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 168

TRT#: 5

SEX: Male

DAY ON TEST: 741

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U168

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Kidney
* Larynx	* Liver	* Lymph Node, Mediastinal	* 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

* Intestine Large, Rectum	* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Lung		Alveolar/Bronchiolar Carcinoma	
		Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Marked
Note: crystals w/ macs assoc. w/ tumor			
Note: Ca DX based on anaplasia, size invasion			
[Alveolar/Bronchiolar Carcinoma TGLS = 3-9]			
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 4-4]			
* Preputial Gland		Ectasia	Moderate
[Ectasia TGLS = 1,2-6]			
* Thymus		Degeneration	Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:53
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 168

TRT#: 5

DOSE: 0.6MG/M3

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 741

HISTO: MZ34/U168

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 169

TRT#: 5

SEX: Male

DAY ON TEST: 580

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U169

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* 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	* Larynx
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex		Necrosis	Marked
* Bone Marrow	Erythroid Cell	Hyperplasia	Mild
* Liver		Hepatocellular Carcinoma	
	[Hepatocellular Carcinoma TGLS = 4-9,3]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
	Alveolus	Hyperplasia	Macrophage, Mild
	Interstitialium	Infiltration Cellular	Minimal
	Alveolus	Proteinosis	Mild
	[Proteinosis TGLS = 9-4]		
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Minimal
* Preputial Gland		Ectasia	Mild
	[Ectasia TGLS = 1-6]		
* Sem Ves			
	Note: SV not filled w/ fluid, not considered a lesion		
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Testes	Germinal Epith	Atrophy	Mild
* Thymus		Degeneration	Moderate
	[Degeneration TGLS = 7-2]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 169

TRT#: 5

SEX: Male

DAY ON TEST: 580

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U169

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CO/MSAC=preputial lesions + hepatocellular Ca w/ mets

Animal Note: unilateral

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 170

TRT#: 5

DOSE: 0.6MG/M3

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 737

HISTO: MZ34/U170

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Kidney	* Larynx	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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INSUFFICIENT TISSUE

* Lymph Node, Mediastinal	* Thymus
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OBSERVATIONS

* Liver		Hepatocellular Carcinoma Necrosis	Minimal
Note: Ca DX based on trabecular pattern			
Note: small focus massive necrosis of normal liver			
[Hepatocellular Carcinoma TGLS = 1-9,10]			
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Mild
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitialium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Marked
[Alveolar/Bronchiolar Adenoma TGLS = 2-12]			
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Mild
		Hyperplasia	Macrophage, Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Nose	Olfactory Epi	Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:53
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 170

TRT#: 5
DOSE: 0.6MG/M3

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 737
HISTO: MZ34/U170

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen	Olfactory Epi	Degeneration	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Lymphoid, Mild
Note: see slide 2A		Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 171

TRT#: 5

SEX: Male

DAY ON TEST: 740

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U171

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Kidney	* Larynx	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitial	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Moderate
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
		Hyperplasia	Lymphoid, Moderate
	[Hyperplasia TGLS = 1-4,1-4]		
	[Hyperplasia TGLS = 1-4,1-4]		
* Nose	Olfactory Epi	Atrophy	Minimal
* Spleen		Hyperplasia	Lymphoid, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 173

TRT#: 5

SEX: Male

DAY ON TEST: 737

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U173

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Kidney	* Larynx	* 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

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Lung		Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Hyperplasia	Macrophage, Mild
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Marked
	[Proteinosis TGLS = 2-4]		
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
		Hyperplasia	Lymphoid, Minimal
* Nose	Olfactory Epi	Atrophy	Minimal
* Preputial Gland		Inflammation	Chronic, Moderate
	[Inflammation TGLS = 1-6]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 174

TRT#: 5

SEX: Male

DAY ON TEST: 476

DOSE: 0.6MG/M3

DISP: Scheduled Sacrifice

HISTO: MZ34/U174

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Kidney	* Liver	* Lymph Node, Mediastinal	* 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
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INSUFFICIENT TISSUE

* Larynx

OBSERVATIONS

* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Mild
	Interstitial	Infiltration Cellular	Moderate
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Marked
	[Proteinosis TGLS = 3-4]		
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Mild
		Hyperplasia	Macrophage, Minimal
	[Hyperplasia TGLS = 4-4,4-4]		
	[Hyperplasia TGLS = 4-4,4-4]		
* Preputial Gland		Ectasia	Marked
	[Ectasia TGLS = 1-6]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:53
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 175

TRT#: 7

SEX: Male

DAY ON TEST: 196

DOSE: 0.6MG/M3LUNG TOX

DISP: Scheduled Sacrifice

HISTO: MZ34-U175

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney

* Nose

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Lung

Alveolus
Interstitialium

Hyperplasia
Infiltration Cellular
Inflammation

Macrophage, Minimal
Minimal
Chronic Active, Minimal

Alveolus

Proteinosis
Hyperplasia

Minimal
Macrophage, Minimal

* Lymph Node, Bronchial

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 176

TRT#: 5

SEX: Male

DAY ON TEST: 740

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U176

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Kidney	* Larynx	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal * Skin

OBSERVATIONS

* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Mild
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitial	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Moderate
	[Proteinosis TGLS = 2-4]		
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Moderate
		Hyperplasia	Macrophage, Mild
	[Hyperplasia TGLS = 1-4,1-4]		
	[Hyperplasia TGLS = 1-4,1-4]		
* Nose	Olfactory Epi	Atrophy	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 177

TRT#: 5

SEX: Male

DAY ON TEST: 476

DOSE: 0.6MG/M3

DISP: Scheduled Sacrifice

HISTO: MZ34/U177

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Larynx
* 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	* Urinary Bladder	

MISSING

* Intestine Large, Colon	* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Intestine Large, Cecum		Hyperplasia	Lymphoid, Focal, Marked
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Minimal
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Moderate
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Mild
		Hyperplasia	Macrophage, Minimal
* Preputial Gland		Ectasia	Minimal
		Inflammation	Chronic, Minimal

[Ectasia TGLS = 1-6]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 178

TRT#: 5

SEX: Male

DAY ON TEST: 549

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U178

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Bone Marrow	Erythroid Cell	Hyperplasia	Mild
* Kidney		Infiltration Cellular	Lymphocyte, Mild
		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	Multiple
		Infarct	Marked
Note: infarcted median lobe			
[Hepatocellular Carcinoma TGLS = 3-9,4-11,3]			
[Infarct TGLS = 5-10]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Mild
	Interstitium	Infiltration Cellular	Minimal
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Mild
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
		Hyperplasia	Lymphoid, Minimal
* Preputial Gland		Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-6]			
* Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 178

TRT#: 5

SEX: Male

DAY ON TEST: 549

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U178

ORGAN AND ACCOUNTABLE SITE STATUS

[Hematopoietic Cell Proliferation TGLS = 2-3]

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=hepatocellular Ca

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:53
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 179	TRT#: 7	SEX: Male	DAY ON TEST: 196
	DOSE: 0.6MG/M3LUNG TOX	DISP: Scheduled Sacrifice	HISTO: MZ34-U179

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney * Lymph Node, Mediastinal

INSUFFICIENT TISSUE

* Lymph Node, Bronchial

OBSERVATIONS

* Lung	Alveolus	Hyperplasia	Macrophage, Minimal
	Interstitialium	Infiltration Cellular	Minimal
	Alveolus	Proteinosis	Minimal
Lymph Node	Lumbar	Hyperplasia	Lymphoid, Mild
	Lumbar	Pigmentation	Minimal
	[Hyperplasia TGLS = 2-5]		
	[Pigmentation TGLS = 1-5]		
* Nose	Olfactory Epi	Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 180

TRT#: 5

SEX: Male

DAY ON TEST: 620

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U180

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx
* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
* Kidney		Hydronephrosis	Minimal
		Nephropathy	Minimal
	[Hydronephrosis TGLS = 6-3]		
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Mild
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Mild
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
* Nose	Olfactory Epi	Atrophy	Minimal
Penis			
	Note: TGL=preputial skin, see "SKIN"		
* Preputial Gland		Ectasia	Moderate
		Inflammation	Chronic, Mild
	[Ectasia TGLS = 2-6]		
	[Inflammation TGLS = 3-6]		
* Skin	Prepuce	Inflammation	Marked
	Note: skin is from prepuce, not penis		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:53
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 180	TRT#: 5 DOSE: 0.6MG/M3	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 620 HISTO: MZ34/U180
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ORGAN AND ACCOUNTABLE SITE STATUS

[Inflammation TGLS = 1-9]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
Urethra		Concretion	Moderate
Note: proteinaceous			
[Concretion TGLS = 5-10]			

PRIMARY CAUSE OF DEATH

-

Animal Note: TGL"red mes.In"=congestion, not considered lesion

Animal Note: CO/MSAC=preputial lesion

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 181

TRT#: 5

SEX: Male

DAY ON TEST: 533

DOSE: 0.6MG/M3

DISP: Natural Death

HISTO: MZ34/U181

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Islets, Pancreatic	* Kidney	* Larynx	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mediastinal	* Mammary Gland
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AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	

OBSERVATIONS

* Liver		Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 1-9,3]			
* Lung	Alveolar Epith	Hepatocellular Carcinoma	Metastatic (Liver)
	Alveolus	Hyperplasia	Mild
	Interstitialium	Hyperplasia	Macrophage, Mild
		Infiltration Cellular	Mild
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Moderate
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal
		Hyperplasia	Macrophage, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Degeneration	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: COD=hepatocellular Ca + pneumonia

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 182

TRT#: 5

SEX: Male

DAY ON TEST: 740

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U182

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney	* Larynx
* 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

* Intestine Large, Rectum	* Mammary Gland
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INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Islets, Pancreatic		Hyperplasia	Mild
Note: DX based on spindloid cell proliferation in one islet			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitium	Infiltration Cellular	Minimal
		Inflammation	Chronic Active, Moderate
	Alveolus	Proteinosis	Moderate
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
		Hyperplasia	Lymphoid, Marked
	[Hyperplasia TGLS = 2-4,2-4]		
	[Hyperplasia TGLS = 2-4,2-4]		
* Preputial Gland		Inflammation	Chronic, Mild
	[Inflammation TGLS = 1-6]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:53
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 182

TRT#: 5

SEX: Male

DAY ON TEST: 740

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U182

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 183

TRT#: 5

SEX: Male

DAY ON TEST: 549

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U183

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Larynx
* Liver	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* 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

* Intestine Large, Colon	* Intestine Large, Rectum	* Mammary Gland	* Thymus
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INSUFFICIENT TISSUE

* Lymph Node, Bronchial

OBSERVATIONS

* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Hyperplasia	Macrophage, Mild
	Interstitial	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Moderate
* Preputial Gland		Ectasia	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=alveolitis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 184

TRT#: 5

SEX: Male

DAY ON TEST: 20

DOSE: 0.6MG/M3

DISP: Natural Death

HISTO: MZ34/U184

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Brain
* Islets, Pancreatic
* Lymph Node, Mandibular
* Preputial Gland
* Skin
* Thyroid Gland

* Adrenal Medulla
* Epididymis
* Kidney
* Nose
* Prostate
* Stomach, Forestomach
* Trachea

* Bone
* Esophagus
* Larynx
* Pancreas
* Salivary Glands
* Stomach, Glandular
* Urinary Bladder

* Bone Marrow
* Heart
* Lung
* Pituitary Gland
* Seminal Vesicle
* Testes

MISSING

* Lymph Node, Bronchial
* Parathyroid Gland

* Lymph Node, Mediastinal

* Lymph Node, Mesenteric

* Mammary Gland

AUTO PRECLUDES DIAG.

* Gallbladder
* Intestine Small, Duodenum

* Intestine Large, Cecum
* Intestine Small, Ileum

* Intestine Large, Colon
* Intestine Small, Jejunum

* Intestine Large, Rectum

OBSERVATIONS

* Liver
* Spleen
* Thymus

Atrophy
Atrophy
Atrophy

Moderate
Moderate
Moderate

PRIMARY CAUSE OF DEATH

-

Animal Note: COD=undetermined,lesions are of cachexia

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 185

TRT#: 5

SEX: Male

DAY ON TEST: 740

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U185

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx
* 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

* Bone		Hyperostosis	
* Kidney		Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Mild
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Moderate
	Alveolus	Proteinosis	Marked
	[Alveolar/Bronchiolar Adenoma TGLS = 5-10]		
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Marked
		Hyperplasia	Macrophage, Minimal
	[Hyperplasia TGLS = 4-4,4-4]		
	[Hyperplasia TGLS = 4-4,4-4]		
* Lymph Node, Mediastinal		Hyperplasia	Lymphoid, Moderate
	[Hyperplasia TGLS = 4-4]		
* Preputial Gland		Ectasia	Mild
	[Ectasia TGLS = 1-6]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:53
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 185	TRT#: 5 DOSE: 0.6MG/M3	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 740 HISTO: MZ34/U185
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ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Hyperplasia TGLS = 2-3]		Hyperplasia	Lymphoid, Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 186

TRT#: 5

SEX: Male

DAY ON TEST: 521

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U186

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Larynx	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Mild
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Moderate
Lymph Node	Inguinal	Hyperplasia	Plasma Cell, Moderate
[Hyperplasia TGLS = 2-9]			
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 2-9,2-9]			
[Hyperplasia TGLS = 2-9,2-9]			
* Preputial Gland		Ectasia	Moderate
[Ectasia TGLS = 3-6]			
* Skin	Prepuce	Inflammation	Marked
Note: ulcerative dermatitis & cellulitis			
[Inflammation TGLS = 1-10]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 186

TRT#: 5

SEX: Male

DAY ON TEST: 521

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U186

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=preputial lesions

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 188

TRT#: 5

DOSE: 0.6MG/M3

SEX: Male

DISP: Moribund Sacrifice

DAY ON TEST: 716

HISTO: MZ34/U188

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
* Liver		Hemangioma	
[Hemangioma TGLS = 3-3]			
* Lung	Alveolar Epith	Hyperplasia	Moderate
	Alveolus	Hyperplasia	Macrophage, Mild
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Marked
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal
		Hyperplasia	Macrophage, Mild
* Nose	Olfactory Epi	Atrophy	Minimal
	Olfactory Epi	Degeneration	Minimal
* Preputial Gland		Inflammation	Chronic, Marked
Note: rupture of gland w/ assoc. cellulitis			
[Inflammation TGLS = 1-6]			
* Skin	Tail	Hyperkeratosis	Moderate
	Prepuce	Inflammation	Moderate
Note: focal hyperkeratosis w/ mild inflammation in dermis			
[Hyperkeratosis TGLS = 2-9]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:53
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 188

TRT#: 5
DOSE: 0.6MG/M3

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 716
HISTO: MZ34/U188

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
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PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=preputial gland inflam. w/ cellulitis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 189

TRT#: 5

SEX: Male

DAY ON TEST: 559

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U189

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Larynx	* 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

* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Mammary Gland	
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OBSERVATIONS

* Bone Marrow	Erythroid Cell	Hyperplasia	Mild
* Liver		Hepatocellular Carcinoma	
		Necrosis	Marked
Note: massive hepatic necrosis in non-tumor liver			
Note: Ca DX based on pattern			
[Hepatocellular Carcinoma TGLS = 4-9]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Mild
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Moderate
Penis		Inflammation	Marked
Note: ulcerative dermatitis			
[Inflammation TGLS = 3-12]			
* Preputial Gland		Ectasia	Moderate
[Ectasia TGLS = 1-6]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:53
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 189

TRT#: 5

SEX: Male

DAY ON TEST: 559

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U189

ORGAN AND ACCOUNTABLE SITE STATUS

Urethra

Concretion

Moderate

Note: proteinaceous

[Concretion TGLS = 2-11]

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=massive hepatic necrosis

Animal Note: CO/MSAC=preputial lesions

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 190

TRT#: 5

SEX: Male

DAY ON TEST: 737

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U190

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Larynx	* 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
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INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	
Note: necrosis & inflammation in tumor			
Note: Ca DX based on anaplasia & pattern			
[Hepatocellular Carcinoma TGLS = 2-9]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitialium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Moderate
Lymph Node	Pancreatic	Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 3-4]			
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 3-4,3-4]			
[Hyperplasia TGLS = 3-4,3-4]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:53
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 190	TRT#: 5 DOSE: 0.6MG/M3	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: MZ34/U190
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ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland Note: ectasia, rupture, cellulitis [Inflammation TGLS = 1-6]		Inflammation	Chronic, Marked
* Spleen		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 191

TRT#: 5

SEX: Male

DAY ON TEST: 704

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U191

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Gallbladder	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Larynx	* 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

* Intestine Large, Rectum	* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 3-9]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Mild
	Interstitialium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Marked
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
		Hyperplasia	Lymphoid, Minimal
* Nose	Olfactory Epi	Atrophy	Mild
Penis		Inflammation	Marked
Note: ulcerative dermatitis w/ cellulitis			
[Inflammation TGLS = 1-10]			
* Preputial Gland		Inflammation	Chronic, Mild
[Inflammation TGLS = 2-6]			
* Thymus		Degeneration	Mild
* Thyroid Gland	Follicular Cel	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 191

TRT#: 5

SEX: Male

DAY ON TEST: 704

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U191

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=penile lesion - dermatitis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:53
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 192

TRT#: 5

SEX: Male

DAY ON TEST: 476

DOSE: 0.6MG/M3

DISP: Scheduled Sacrifice

HISTO: MZ34/U192

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mediastinal	* Mammary Gland	* Parathyroid Gland	* Thymus
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INSUFFICIENT TISSUE

* Lymph Node, Bronchial

OBSERVATIONS

* Intestine Large, Cecum		Hyperplasia	Lymphoid, Focal, Marked
* Kidney		Hydronephrosis	Mild
[Hydronephrosis TGLS = 5-3]			
* Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 4-9]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Hyperplasia	Macrophage, Minimal
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitial	Infiltration Cellular	Minimal
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Moderate
[Proteinosis TGLS = 9-4,10-4]			
Lymph Node	Inguinal	Hyperplasia	Lymphoid, Marked
[Hyperplasia TGLS = 1-10]			
* Nose	Olfactory Epi	Atrophy	Minimal
* Preputial Gland		Ectasia	Minimal
[Ectasia TGLS = 2-6]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:53
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 192	TRT#: 5 DOSE: 0.6MG/M3	SEX: Male DISP: Scheduled Sacrifice	DAY ON TEST: 476 HISTO: MZ34/U192
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ORGAN AND ACCOUNTABLE SITE STATUS

* Skin Note: ulcer over preputial gland	Ulcer	Marked
* Spleen [Hematopoietic Cell Proliferation TGLS = 3-3] Tissue NOS	Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: no BLN on recuts

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 193

TRT#: 5

SEX: Male

DAY ON TEST: 475

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U193

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Kidney
* Larynx	* 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

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Bone			
Note: no lesions noted on PM radiograph			
* Islets, Pancreatic		Adenoma	
* Liver		Degeneration	Mild
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Minimal
	Interstitialium	Infiltration Cellular	Minimal
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Moderate
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
		Hyperplasia	Lymphoid, Mild
* Nose	Olfactory Epi	Atrophy	Minimal
* Preputial Gland		Ectasia	Moderate
Spinal Cord		Degeneration	Secondary Wall, Mild
Note: lumbar cord & assoc. nerves, cause undetermined			
* Thymus		Degeneration	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:53
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 193

TRT#: 5

SEX: Male

DAY ON TEST: 475

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U193

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

Animal Note: clin. signs,death=? 2nd to hypoglycemia/islet cell adenomna

Animal Note: COD=undetermined

Animal Note: 81

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 194

TRT#: 5

SEX: Male

DAY ON TEST: 737

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U194

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Kidney	* Larynx	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitial	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Moderate
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Minimal
		Hyperplasia	Lymphoid, Moderate
		[Hyperplasia TGLS = 2-4,2-4]	
		[Hyperplasia TGLS = 2-4,2-4]	
* Nose	Olfactory Epi	Degeneration	Minimal
* Preputial Gland		Inflammation	Chronic, Marked
		Note: rupture of gland w/ cellulitis	
		[Inflammation TGLS = 1-6]	
* Stomach, Glandular		Inflammation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:53
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 194

TRT#: 5

SEX: Male

DAY ON TEST: 737

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U194

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 195

TRT#: 5

SEX: Male

DAY ON TEST: 570

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U195

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx
* 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

* Lymph Node, Mediastinal	* Mammary Gland
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INSUFFICIENT TISSUE

* Lymph Node, Bronchial

OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Kidney		Hydronephrosis	Moderate
[Hydronephrosis TGLS = 4-3]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Hyperplasia	Macrophage, Mild
	Interstitialium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Marked
* Nose	Olfactory Epi	Atrophy	Minimal
Penis		Inflammation	Marked
Note: ulcerative dermatitis			
[Inflammation TGLS = 1-9]			
* Preputial Gland		Ectasia	Mild
[Ectasia TGLS = 2-6]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
Urethra		Concretion	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:53
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 195

TRT#: 5

SEX: Male

DAY ON TEST: 570

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U195

ORGAN AND ACCOUNTABLE SITE STATUS

[Concretion TGLS = 3-10]

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=penile lesion - dermatitis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:53

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 196

TRT#: 5

SEX: Male

DAY ON TEST: 244

DOSE: 0.6MG/M3

DISP: Natural Death

HISTO: MZ34/U196

ORGAN AND ACCOUNTABLE SITE STATUS

MISSING

* Gallbladder * Pituitary Gland

AUTO PRECLUDES DIAG.

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

PRIMARY CAUSE OF DEATH

-

Animal Note: autolysis makes histo useless, no lung tumors

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 199

TRT#: 5

SEX: Male

DAY ON TEST: 415

DOSE: 0.6MG/M3

DISP: Natural Death

HISTO: MZ34/U199

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Colon	* Islets, Pancreatic	* Larynx	* 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

* Lymph Node, Mediastinal	* Mammary Gland
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AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum		

OBSERVATIONS

* Kidney		Hydronephrosis	Mild
[Hydronephrosis TGLS = 3-3]			
* Liver		Angiectasis	Mild
		Hepatocellular Carcinoma	
Note: based on cytologic features			
[Hepatocellular Carcinoma TGLS = 4-9]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Hyperplasia	Macrophage, Minimal
	Interstitialium	Infiltration Cellular	Minimal
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Moderate
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal
		Hyperplasia	Macrophage, Mild
* Nose	Olfactory Epi	Atrophy	Minimal
Penis		Concretion	Moderate
		Inflammation	Marked

Note: proteinaceous plug,ulcerative inflammation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 199	TRT#: 5 DOSE: 0.6MG/M3	SEX: Male DISP: Natural Death	DAY ON TEST: 415 HISTO: MZ34/U199
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ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland [Ectasia TGLS = 1-5]	Ectasia	Moderate
* Sem Ves Note: TGL"red"=agonal hemorrhage		
* Thymus	Degeneration	Marked

PRIMARY CAUSE OF DEATH

-

Animal Note: COD=penile inflammation w/ blockage,hydronephrosis

Animal Note: TGL"black focus" probably PM artifact

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 200

TRT#: 5

DOSE: 0.6MG/M3

SEX: Male

DISP: Moribund Sacrifice

DAY ON TEST: 513

HISTO: MZ34/U200

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland

OBSERVATIONS

* Kidney	Cortex	Atrophy	Mild
Note: focus of cortical fibrosis			
* Liver		Hepatocellular Carcinoma Necrosis	Marked
Note: necrosis is infarction of tumor			
Note: Malignant Dx based on mets to lung			
[Hepatocellular Carcinoma TGLS = 2-3]			
* Lung	Alveolar Epith Alveolus Interstitium	Hepatocellular Carcinoma Hyperplasia Hyperplasia Infiltration Cellular Inflammation	Metastatic (Liver) Minimal Macrophage, Mild Minimal Chronic Active, Minimal
	Alveolus	Proteinosis	Marked
* Lymph Node, Bronchial		Hyperplasia Hyperplasia	Lymphoid, Mild Macrophage, Minimal
[Hyperplasia TGLS = 3-2,3-2]			
[Hyperplasia TGLS = 3-2,3-2]			
* Lymph Node, Mediastinal		Hyperplasia	Plasma Cell, Mild
[Hyperplasia TGLS = 3-2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 200	TRT#: 5 DOSE: 0.6MG/M3	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 513 HISTO: MZ34/U200
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ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Atrophy	Minimal
* Preputial Gland [Inflammation TGLS = 1-6]		Inflammation	Chronic, Mild
* Skin [Necrosis TGLS = 4-9]	Tail	Necrosis	Marked
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: med In TGL on slide 2a

Animal Note: CO/MSAC=hepatocellular Ca

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 201

TRT#: 5

SEX: Male

DAY ON TEST: 740

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U201

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Larynx	* Liver	* Lymph Node, Mandibular	* 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

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal * Thymus

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitial	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Moderate
	Alveolus	Proteinosis	Mild
[Inflammation TGLS = 4-4]			
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
		Hyperplasia	Lymphoid, Marked
[Hyperplasia TGLS = 2-5,2-5]			
[Hyperplasia TGLS = 2-5,2-5]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 2-5]			
* Nose	Olfactory Epi	Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 201

TRT#: 5

SEX: Male

DAY ON TEST: 740

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U201

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 203

TRT#: 7

SEX: Male

DAY ON TEST: 196

DOSE: 0.6MG/M3LUNG TOX

DISP: Scheduled Sacrifice

HISTO: MZ34-U203

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney

* Nose

OBSERVATIONS

* Lung

Alveolus

Hyperplasia

Macrophage, Minimal

Interstitialium

Infiltration Cellular

Minimal

Inflammation

Chronic Active, Minimal

Alveolus

Proteinosis

Minimal

* Lymph Node, Bronchial

Hyperplasia

Lymphoid, Minimal

* Lymph Node, Mediastinal

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 204

TRT#: 5

SEX: Male

DAY ON TEST: 737

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U204

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Kidney	* Larynx	* 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

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitial	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Moderate
[Hyperplasia TGLS = 4-4]			
[Hyperplasia TGLS = 4-4]			
[Hyperplasia TGLS = 4-4]			
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
		Hyperplasia	Lymphoid, Mild
* Nose	Olfactory Epi	Atrophy	Minimal
	Olfactory Epi	Degeneration	Minimal
* Preputial Gland		Ectasia	Mild
[Ectasia TGLS = 1-6]			
* Spleen		Hemangiosarcoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 204

TRT#: 5
DOSE: 0.6MG/M3

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 737
HISTO: MZ34/U204

ORGAN AND ACCOUNTABLE SITE STATUS

[Hemangiosarcoma TGLS = 2-9]

* Thyroid Gland

Follicular Cel

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 205

TRT#: 5

SEX: Male

DAY ON TEST: 737

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U205

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Kidney	* Larynx	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* 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

* Lung	Alveolar Epith	Hyperplasia	Moderate
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Mild
	Interstitial	Infiltration Cellular	Minimal
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Moderate
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Mild
		Hyperplasia	Macrophage, Mild
		[Hyperplasia TGLS = 2-4,2-4]	
		[Hyperplasia TGLS = 2-4,2-4]	
* Nose	Olfactory Epi	Atrophy	Minimal
	Olfactory Epi	Degeneration	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 206

TRT#: 5

SEX: Male

DAY ON TEST: 563

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U206

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Intestine Large, Rectum	* Mammary Gland
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INSUFFICIENT TISSUE

* Lymph Node, Mediastinal	* Thymus
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OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	Multiple
		Necrosis	Marked
	[Hepatocellular Adenoma TGLS = 6-3, 5-11]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Hyperplasia	Macrophage, Moderate
	Interstitialium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Minimal
Lymph Node	Inguinal	Hyperplasia	Lymphoid, Moderate
	[Hyperplasia TGLS = 1-9]		
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
	[Hyperplasia TGLS = 1-9]		
* Nose	Olfactory Epi	Atrophy	Mild
* Preputial Gland		Ectasia	Mild
		Inflammation	Chronic, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 206

TRT#: 5

SEX: Male

DAY ON TEST: 563

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U206

ORGAN AND ACCOUNTABLE SITE STATUS

Note: cellulitis w/ inflammation of gland

[Ectasia TGLS = 2-6]

[Inflammation TGLS = 3-6]

* Skin	Prepuce	Inflammation	Marked
* Spleen		Hematopoietic Cell Proliferation	Mild
Urethra		Concretion	Moderate

Note: proteinaceous

[Concretion TGLS = 4-10]

PRIMARY CAUSE OF DEATH -

Animal Note: CO/MSAC=preputial adenitis w/ cellulitis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 207

TRT#: 5

SEX: Male

DAY ON TEST: 636

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U207

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx
* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Trachea		

MISSING

* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Kidney		Hydronephrosis	Mild
		Inflammation	Moderate
Note: ascending pyelonephritis, suppurative & septic			
[Hydronephrosis TGLS = 9-3]			
[Inflammation TGLS = 6-3]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Mild
	Interstitialium	Infiltration Cellular	Minimal
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Marked
Lymph Node	Inguinal	Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 1-9]			
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal
		Hyperplasia	Macrophage, Mild
[Hyperplasia TGLS = 1-9,1-9]			
[Hyperplasia TGLS = 1-9,1-9]			
Penis		Concretion	Moderate
Note: proteinaceous			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 207	TRT#: 5 DOSE: 0.6MG/M3	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 636 HISTO: MZ34/U207
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ORGAN AND ACCOUNTABLE SITE STATUS

[Concretion TGLS = 4-10]			
* Preputial Gland		Ectasia	Mild
[Ectasia TGLS = 3-6]			
* Prostate		Inflammation	Mild
* Skin	Prepuce	Inflammation	Marked
Note: ulcerative dermatitis w/ cellulitis			
[Inflammation TGLS = 2-11]			
* Thymus		Degeneration	Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Urinary Bladder		Calculus Gross Observation	
		Inflammation	Moderate
[Calculus Gross Observation TGLS = 5-5]			

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=preputial lesion & pyelonephritis, ascending

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 209

TRT#: 5

SEX: Male

DAY ON TEST: 469

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U209

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Larynx
* Liver	* Lymph Node, Mandibular	* 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

* Intestine Large, Rectum	* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Minimal
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitial	Infiltration Cellular	Minimal
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Moderate
Lymph Node	Inguinal	Hyperplasia	Plasma Cell, Moderate
[Hyperplasia TGLS = 4-10,6-4]			
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal
		Hyperplasia	Macrophage, Mild
[Hyperplasia TGLS = 4-10,4-10,6-4,6-4]			
[Hyperplasia TGLS = 4-10,4-10,6-4,6-4]			
* Preputial Gland		Ectasia	Moderate
[Ectasia TGLS = 3-5]			
* Skin	Prepuce	Inflammation	Marked
Note: ulcerative dermatitis of,primarily, prepuce			
[Inflammation TGLS = 1-9,6]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 209

TRT#: 5

SEX: Male

DAY ON TEST: 469

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U209

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

Animal Note: MSAC=ulcerative preputial lesion

Animal Note: mandibular TGL=no corresponding lesion

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 210

TRT#: 5

SEX: Male

DAY ON TEST: 484

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U210

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea			

MISSING

* Intestine Large, Rectum	* Mammary Gland
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INSUFFICIENT TISSUE

* Lymph Node, Bronchial

OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
* Kidney	Cortex	Atrophy	Marked
	Pelvis	Hydronephrosis	Mild
		Inflammation	Mild
Note: cortical atrophy/fibrosis 2dary to pyelonephritis			
[Atrophy TGLS = 4-3]			
[Hydronephrosis TGLS = 2,3-3]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Hyperplasia	Macrophage, Mild
	Interstitial	Infiltration Cellular	Minimal
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Moderate
Lymph Node	Iliac	Hyperplasia	Plasma Cell, Marked
[Hyperplasia TGLS = 5-9]			
* Nose	Olfactory Epi	Atrophy	Minimal
* Spleen		Hematopoietic Cell Proliferation	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 210

TRT#: 5

SEX: Male

DAY ON TEST: 484

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U210

ORGAN AND ACCOUNTABLE SITE STATUS

* Urinary Bladder

Calculus Micro Observation Only

Inflammation

Marked

Note: ulcerative cystitis

[Calculus Micro Observation Only TGLS = 1-5]

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=cystitis & pyelitis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 211

TRT#: 5

SEX: Male

DAY ON TEST: 671

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U211

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	* Islets, Pancreatic	* Kidney
* Larynx	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Hyperplasia	Macrophage, Mild
	Interstitium	Infiltration Cellular	Minimal
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Moderate
Lymph Node	Inguinal	Hyperplasia	Lymphoid, Moderate
	Iliac	Pigmentation	Moderate
	Lumbar	Pigmentation	Mild
[Hyperplasia TGLS = 2-12]			
[Pigmentation TGLS = 6-11,5-10]			
[Pigmentation TGLS = 6-11,5-10]			
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Moderate
		Hyperplasia	Macrophage, Mild
[Hyperplasia TGLS = 2-12,2-12]			
[Hyperplasia TGLS = 2-12,2-12]			
* Nose	Olfactory Epi	Atrophy	Minimal
* Skin	Tail	Hemangiosarcoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 211	TRT#: 5	SEX: Male	DAY ON TEST: 671
	DOSE: 0.6MG/M3	DISP: Moribund Sacrifice	HISTO: MZ34/U211

ORGAN AND ACCOUNTABLE SITE STATUS

[Hemangiosarcoma TGLS = 1-9]

* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
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PRIMARY CAUSE OF DEATH

-

Animal Note: Gluteal LN on PEIS is LUMBAR LN in TDMS

Animal Note: CO/MSAC=sarcoma of skin of tail

Animal Note: TGL"mes In red"=congestion, not considered lesion

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 212 **TRT#:** 5 **SEX:** Male **DAY ON TEST:** 469
DOSE: 0.6MG/M3 **DISP:** Natural Death **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Heart	* Intestine Large, Colon
* Islets, Pancreatic	* Kidney	* Larynx	* Lymph Node, Mandibular
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Gallbladder	* Intestine Large, Rectum	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland			

AUTO PRECLUDES DIAG.

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

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Gallbladder			
Note: TGL is liver carcinoma			
* Intestine Large, Cecum	Lymphoid Tiss	Hyperplasia	Moderate
* Liver		Angiectasis	Moderate
		Hepatocellular Carcinoma	Multiple
Note: DX based on pattern, anaplasia, cytology			
Note: 3neoplasms, gallbladder TGL is liver			
[Hepatocellular Carcinoma TGLS = 4-3,5-9,4-3,5-9,6-3]			
* Lung	Alveolus	Hyperplasia	Macrophage, Minimal
	Interstitialium	Infiltration Cellular	Minimal
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Moderate
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal
		Hyperplasia	Macrophage, Minimal
* Preputial Gland		Ectasia	Mild
[Ectasia TGLS = 2-6]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 212	TRT#: 5 DOSE: 0.6MG/M3	SEX: Male DISP: Natural Death	DAY ON TEST: 469 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

* Skin Note: TGL "crust" not obvious, many bacteria but no RX [Parakeratosis TGLS = 1-10]	Parakeratosis	Minimal
* Spleen [Hyperplasia TGLS = 3-3]	Hyperplasia	Lymphoid, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: COD=liver tumors

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 214

TRT#: 5

SEX: Male

DAY ON TEST: 525

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U214

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	Ear	* Epididymis	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Larynx	* 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

* Intestine Large, Rectum	* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

Ear			
Note: no lesions in middle or internal ears			
* Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 2-3]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Mild
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Marked
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
		Hyperplasia	Lymphoid, Mild
* Nose	Olfactory Epi	Atrophy	Minimal
* Preputial Gland		Ectasia	Mild
[Ectasia TGLS = 1-6]			

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=undetermined

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 216

TRT#: 5

DOSE: 0.6MG/M3

SEX: Male

DISP: Moribund Sacrifice

DAY ON TEST: 661

HISTO: MZ34/U216

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Kidney	* Larynx	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Mild
	Interstitium	Infiltration Cellular	Moderate
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Moderate
	[Alveolar/Bronchiolar Adenoma TGLS = 6-4]		
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Minimal
		Hyperplasia	Lymphoid, Marked
	[Hyperplasia TGLS = 3-5,3-5,7-4,7-4]		
	[Hyperplasia TGLS = 3-5,3-5,7-4,7-4]		
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
	[Hyperplasia TGLS = 3-5,7-4]		
Penis			
	Note: TGL "penis enlarged" = tumor of prepuce, see SKIN		
* Preputial Gland		Ectasia	Moderate
	[Ectasia TGLS = 1,2-6]		
* Skin	Prepuce	Fibrous Histiocytoma	
	Note: in subq next to penis		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 216	TRT#: 5 DOSE: 0.6MG/M3	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 661 HISTO: MZ34/U216
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ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrous Histiocytoma TGLS = 4-9] * Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
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PRIMARY CAUSE OF DEATH -

Animal Note: CO/MSAC=preputial tumor

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 217

TRT#: 5

SEX: Male

DAY ON TEST: 741

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U217

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Kidney	* Larynx	* Lymph Node, Mandibular	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyms	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal * Skin

OBSERVATIONS

* Liver		Hepatodiaphragmatic Nodule	
Note: has conformation of HDN			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Mild
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
		Hyperplasia	Lymphoid, Moderate
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Nose	Olfactory Epi	Atrophy	Minimal
* Preputial Gland		Ectasia	Moderate
[Ectasia TGLS = 1,2-6]			
Tooth		Inflammation	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 217

TRT#: 5

SEX: Male

DAY ON TEST: 741

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U217

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 218

TRT#: 5

DOSE: 0.6MG/M3

SEX: Male

DISP: Natural Death

DAY ON TEST: 592

HISTO: MZ34/U218

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Islets, Pancreatic
* Kidney	* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland	* Thymus
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AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Liver		Hepatocellular Carcinoma Infarct	Marked
Note: entire tumor is infarcted			
Note: DX based on trabecular pattern typical of malignancy			
[Hepatocellular Carcinoma TGLS = 4-9,3]			
* Lung	Alveolar Epith Alveolus Interstitium Alveolus	Hyperplasia Hyperplasia Infiltration Cellular Proteinosis	Minimal Macrophage, Mild Minimal Moderate
[Proteinosis TGLS = 3-4]			
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
* Lymph Node, Mesenteric		Inflammation	Mild
* Nose	Olfactory Epi	Atrophy	Minimal
Penis			
Note: penis = acute hemorrhage,not considered signif. lesion			
* Preputial Gland		Ectasia	Mild
[Ectasia TGLS = 2-6]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 218	TRT#: 5 DOSE: 0.6MG/M3	SEX: Male DISP: Natural Death	DAY ON TEST: 592 HISTO: MZ34/U218
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ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach	Inflammation	Mild
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PRIMARY CAUSE OF DEATH -

Animal Note: COD=hepatocellular Ca

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 219	TRT#: 5 DOSE: 0.6MG/M3	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 740 HISTO: MZ34/U219
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Kidney
* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Intestine Large, Rectum	* Mammary Gland
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OBSERVATIONS

* Liver		Hepatodiaphragmatic Nodule	
Note: has conformation of hdn [Hepatodiaphragmatic Nodule TGLS = 2-3]			
* Lung	Alveolar Epith Alveolus Bronchus	Hyperplasia Hyperplasia Hyperplasia Infiltration Cellular Inflammation Proteinosis	Mild Macrophage, Mild Lymphoid, Minimal Moderate Chronic Active, Minimal Mild
[Infiltration Cellular TGLS = 3-4]			
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal
[Hyperplasia TGLS = 4-4]			
* Spleen		Hyperplasia	Lymphoid, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 220

TRT#: 5

SEX: Male

DAY ON TEST: 590

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U220

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Intestine Large, Rectum	* Mammary Gland
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OBSERVATIONS

* Bone		Developmental Malformation	
[Developmental Malformation TGLS = 6-9]			
* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
		Necrosis	Moderate
Note: hept.Ca on slide 11, typical pattern			
Note: massive necrosis, primarily of normal liver			
Note: massive hemorrhage w/ necrosis, slide 10			
[Hepatocellular Carcinoma TGLS = 3-10,11]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Mild
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitialium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Moderate
	Alveolus	Proteinosis	Marked
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Minimal
* Preputial Gland		Ectasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 220

TRT#: 5

SEX: Male

DAY ON TEST: 590

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U220

ORGAN AND ACCOUNTABLE SITE STATUS

[Ectasia TGLS = 1-6]

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=hepatocellular Ca

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 221

TRT#: 5

SEX: Male

DAY ON TEST: 740

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U221

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Islets, Pancreatic	* Larynx	* Nose
* Pituitary Gland	* Prostate	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland	* Parathyroid Gland
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INSUFFICIENT TISSUE

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Lymphoma Malignant	
Note: small infiltrate in auricle			
* Intestine Small, Jejunum		Lymphoma Malignant	
* Kidney		Lymphoma Malignant	
* Liver		Eosinophilic Focus	
[Eosinophilic Focus TGLS = 3-10]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Minimal
		Lymphoma Malignant	
	Alveolus	Proteinosis	Mild
Note: some lymphoma infiltrates in interstitium			
* Lymph Node, Bronchial		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 6-5,8-4,7-2]			
* Lymph Node, Mediastinal		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 6-5,8-4,7-2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 221	TRT#: 5 DOSE: 0.6MG/M3	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 740 HISTO: MZ34/U221
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ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric [Lymphoma Malignant TGLS = 6-5,8-4,7-2]	Lymphoma Malignant	
* Pancreas	Lymphoma Malignant	
* Preputial Gland Note: ectasia w/ rupture of gland & cellulitis [Inflammation TGLS = 1-6]	Inflammation	Chronic, Marked
* Salivary Glands	Lymphoma Malignant	
* Spleen [Lymphoma Malignant TGLS = 2-9]	Lymphoma Malignant	
* Thymus Note: lymphoma obliterates tissue thought to be thymus	Lymphoma Malignant	
* Thyroid Gland Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 222

TRT#: 5

SEX: Male

DAY ON TEST: 740

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U222

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* 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, Mediastinal
* 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

* Intestine Large, Rectum	* Lymph Node, Mandibular	* Mammary Gland
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INSUFFICIENT TISSUE

* Larynx

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Kidney		Infiltration Cellular	Lymphocyte, Moderate
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitium	Infiltration Cellular	Moderate
		Inflammation	Chronic Active, Moderate
	Alveolus	Proteinosis	Mild
[Inflammation TGLS = 2-4]			
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
		Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 3-4,3-4]			
[Hyperplasia TGLS = 3-4,3-4]			
* Nose	Olfactory Epi	Atrophy	Minimal
	Olfactory Epi	Degeneration	Minimal
* Preputial Gland		Ectasia	Moderate
[Ectasia TGLS = 1-6]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 222	TRT#: 5	SEX: Male	DAY ON TEST: 740
	DOSE: 0.6MG/M3	DISP: Terminal Sacrifice	HISTO: MZ34/U222

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 223

TRT#: 5

SEX: Male

DAY ON TEST: 37

DOSE: 0.6MG/M3

DISP: Natural Death

HISTO: MZ34/U223

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Brain
- * Intestine Large, Colon
- * Liver
- * Nose
- * Salivary Glands
- * Stomach, Forestomach
- * Thyroid Gland

- * Adrenal Medulla
- * Epididymis
- * Islets, Pancreatic
- * Lung
- * Pancreas
- * Seminal Vesicle
- * Stomach, Glandular
- * Trachea

- * Bone
- * Esophagus
- * Kidney
- * Lymph Node, Mandibular
- * Pituitary Gland
- * Skin
- * Testes
- * Urinary Bladder

- * Bone Marrow
- * Heart
- * Larynx
- * Lymph Node, Mesenteric
- * Prostate
- * Spleen
- * Thymus

MISSING

- * Lymph Node, Bronchial
- * Preputial Gland

- * Lymph Node, Mediastinal

- * Mammary Gland

- * Parathyroid Gland

AUTO PRECLUDES DIAG.

- * Gallbladder
- * Intestine Small, Ileum

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

- * Intestine Large, Rectum

- * Intestine Small, Duodenum

OBSERVATIONS

- * Lung

Note: TGL"red"=congestion, not significant

Urethra

Concretion

Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: COD=undetermined, not even signs of cachexia

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 224

TRT#: 5

SEX: Male

DAY ON TEST: 686

DOSE: 0.6MG/M3

DISP: Natural Death

HISTO: MZ34/U224

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Colon	* Islets, Pancreatic	* Kidney	* Larynx
* 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

* Intestine Large, Rectum	* Lymph Node, Mediastinal	* Mammary Gland
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AUTO PRECLUDES DIAG.

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

OBSERVATIONS

* Liver		Hepatocellular Carcinoma Necrosis	Marked
Note: massive liver necrosis, primarily normal liver [Hepatocellular Carcinoma TGLS = 3-3,9,10,11]			
* Lung	Alveolar Epith Alveolus Bronchus Interstitium Alveolus	Hepatocellular Carcinoma Hyperplasia Hyperplasia Hyperplasia Infiltration Cellular Inflammation Proteinosis	Metastatic (Liver) Minimal Macrophage, Moderate Lymphoid, Minimal Minimal Chronic Active, Moderate Minimal
Note: small, in vessels [Hyperplasia TGLS = 6-4] [Hyperplasia TGLS = 6-4] [Hyperplasia TGLS = 6-4] [Inflammation TGLS = 7-4]			
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 224	TRT#: 5 DOSE: 0.6MG/M3	SEX: Male DISP: Natural Death	DAY ON TEST: 686 HISTO: MZ34/U224
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ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 5-4,5-4] [Hyperplasia TGLS = 5-4,5-4]		Hyperplasia	Lymphoid, Moderate
* Nose	Olfactory Epi	Atrophy	Minimal
* Preputial Gland [Ectasia TGLS = 2-6]		Ectasia	Mild
* Spleen		Hyperplasia	Lymphoid, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: COD=hepatocellular Ca

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 225

TRT#: 5

SEX: Male

DAY ON TEST: 740

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U225

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Nose	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland
* Parathyroid Gland			

OBSERVATIONS

* Kidney		Infiltration Cellular Nephropathy	Lymphocyte, Minimal Mild
* Liver		Hepatocellular Adenoma Hepatocellular Carcinoma	
Note: Ca DX based on trabecular pattern			
[Hepatocellular Adenoma TGLS = 4-10]			
[Hepatocellular Carcinoma TGLS = 3-9]			
* Lung	Alveolar Epith Alveolus Bronchus Interstitium	Hyperplasia Hyperplasia Hyperplasia Infiltration Cellular Inflammation Proteinosis	Mild Macrophage, Moderate Lymphoid, Minimal Mild Chronic Active, Moderate Mild
[Inflammation TGLS = 6-4]			
* Lymph Node, Bronchial		Hyperplasia Hyperplasia	Macrophage, Mild Lymphoid, Moderate
[Hyperplasia TGLS = 7-4,7-4]			
[Hyperplasia TGLS = 7-4,7-4]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 225	TRT#: 5 DOSE: 0.6MG/M3	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 740 HISTO: MZ34/U225
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Atrophy Infiltration Cellular	Mild Lymphocyte, Minimal
Note: distribution is focal			
* Preputial Gland		Ectasia	Mild
[Ectasia TGLS = 1,2-6]			
* Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 226

TRT#: 5

SEX: Male

DAY ON TEST: 740

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U226

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Gallbladder	Epithelium	Hyperplasia	Moderate
Note: TGL "dilation" not=hyperplasia but did highlight lesion			
[Hyperplasia TGLS = 5-3]			
* Liver		Hepatocellular Carcinoma	
		Pigmentation	Hemosiderin, Moderate
		Regeneration	Moderate
[Hepatocellular Carcinoma TGLS = 6-9]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Interstitial	Infiltration Cellular	Minimal
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Moderate
Note: mets in vessels & in foci in parenchyma			
Note: TGL "foci" = not certain, mets in parenchyma??			
[Hepatocellular Carcinoma TGLS = 8,9-4]			
[Proteinosis TGLS = 10-4]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 226	TRT#: 5 DOSE: 0.6MG/M3	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 740 HISTO: MZ34/U226
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ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
* Nose	Olfactory Epi	Atrophy	Minimal
* Preputial Gland		Ectasia	Mild
[Ectasia TGLS = 2-6]			
* Sem Ves			
Note: Sem Ves not filled w/ fluid, not considered lesion			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Degeneration	Marked
[Degeneration TGLS = 11-2]			

PRIMARY CAUSE OF DEATH -

Animal Note: TGL red mes ln=congestion, not significate lesion

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 227

TRT#: 5

SEX: Male

DAY ON TEST: 581

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U227

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Kidney	* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mediastinal	* Mammary Gland	* Thymus
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OBSERVATIONS

* Liver		Angiectasis Basophilic Focus Hepatocellular Adenoma Hepatocellular Carcinoma	Marked
	[Basophilic Focus TGLS = 4-10] [Hepatocellular Adenoma TGLS = 3-9,4-10] [Hepatocellular Carcinoma TGLS = 2-11,3]		
* Lung	Alveolar Epith Alveolus Bronchus Interstitialium Alveolus	Hyperplasia Hyperplasia Hyperplasia Infiltration Cellular Inflammation Proteinosis	Minimal Macrophage, Mild Lymphoid, Minimal Mild Chronic Active, Minimal Moderate
* Lymph Node, Bronchial		Hyperplasia Hyperplasia	Lymphoid, Minimal Macrophage, Mild
* Stomach, Glandular		Inflammation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 227

TRT#: 5

SEX: Male

DAY ON TEST: 581

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U227

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CO/MSAC=hepatocellular Ca

Animal Note: focal fixation artifacts on some organs

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 228

TRT#: 5

SEX: Male

DAY ON TEST: 692

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U228

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Kidney	* Larynx	* Lymph Node, Mandibular	* 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

* Mammary Gland	* Spleen
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OBSERVATIONS

* Kidney			
Note: TGL"nodule" not on slide nor in review of wet tissue			
* Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 3-9]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Hyperplasia	Macrophage, Moderate
	Interstitium	Infiltration Cellular	Minimal
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Marked
[Hyperplasia TGLS = 5-4]			
[Hyperplasia TGLS = 5-4]			
Lymph Node	Inguinal	Hyperplasia	Lymphoid, Minimal
[Hyperplasia TGLS = 2-11]			
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
		Hyperplasia	Lymphoid, Minimal
[Hyperplasia TGLS = 2-11,2-11]			
[Hyperplasia TGLS = 2-11,2-11]			
* Lymph Node, Mediastinal		Hyperplasia	Macrophage, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 228	TRT#: 5 DOSE: 0.6MG/M3	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 692 HISTO: MZ34/U228
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ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 2-11]			
* Nose	Olfactory Epi	Atrophy	Minimal
Penis		Inflammation	Marked
Note: TGL "penis obstruction"=see URETHRA			
Note: ulcerative dermatitis			
* Thyroid Gland	Follicular Cel	Hyperplasia	Moderate
Urethra		Concretion	Moderate
[Concretion TGLS = 1-10]			

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=ulcerative penile lesions

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 229

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U229

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
* Liver		Eosinophilic Focus	
		Necrosis	Minimal
Note: massive liver necrosis in normal liver [Eosinophilic Focus TGLS = 6-3]			
* Lung	Alveolus	Hyperplasia	Macrophage, Mild
	Interstitium	Infiltration Cellular	Minimal
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Mild
[Proteinosis TGLS = 7-4]			
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
		Hyperplasia	Lymphoid, Minimal
* Skin	Prepuce	Inflammation	Marked
	Tail	Inflammation	Mild
Note: ulcerative dermatitis w/ cellulitis			
Note: tail lesion=suppurative dermatitis w/ hyperkeratosis			
[Inflammation TGLS = 1-11,2-9]			
[Inflammation TGLS = 1-11,2-9]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 229	TRT#: 5 DOSE: 0.6MG/M3	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 731 HISTO: MZ34/U229
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ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Degeneration	Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
Tissue NOS			
Note: TNOS TGL=SKIN			
Urethra		Concretion	Moderate
Note: roteinaceous			
[Concretion TGLS = 4-10]			

PRIMARY CAUSE OF DEATH -

Animal Note: mes ln congested, not significant lesion

Animal Note: CO/MSAC=preputial lesions

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 231

TRT#: 5

SEX: Male

DAY ON TEST: 741

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U231

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Kidney	* Larynx	* 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

* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 1-9]			
* Lung		Alveolar/Bronchiolar Carcinoma	
	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Moderate
	Alveolus	Proteinosis	Marked
Note: Ca DX based on anaplasia			
[Alveolar/Bronchiolar Carcinoma TGLS = 2-10]			
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Moderate
		Hyperplasia	Macrophage, Mild
* Nose	Olfactory Epi	Degeneration	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 232

TRT#: 5

SEX: Male

DAY ON TEST: 741

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U232

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Kidney
* Larynx	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* 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

* Intestine Large, Rectum	* Mammary Gland	* Thymus
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OBSERVATIONS

* Lung	Alveolar Epith	Hyperplasia	Moderate
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitium	Infiltration Cellular	Moderate
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Moderate
	[Proteinosis TGLS = 2-4]		
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Minimal
		Hyperplasia	Lymphoid, Minimal
	[Hyperplasia TGLS = 3-4,3-4]		
	[Hyperplasia TGLS = 3-4,3-4]		
* Preputial Gland		Inflammation	Chronic, Marked
	Note: ectatic gland w/ rupture & cellulitis		
	[Inflammation TGLS = 1-6]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 233

TRT#: 5

SEX: Male

DAY ON TEST: 737

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U233

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Mild
		Necrosis	Mild
Note: #11 mostly adenoma w/ 1 focus anaplasia=1small Ca			
Note: focal & massive necrosis in tumors			
[Hepatocellular Adenoma TGLS = 2-11]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Mild
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitium	Infiltration Cellular	Mild
	Alveolus	Proteinosis	Mild
Note: peculiar subpleural infiltrates @ hilus of lung			
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Minimal
* Lymph Node, Mesenteric		Hemangiosarcoma	
[Hemangiosarcoma TGLS = 1-5]			
* Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 233

TRT#: 5

SEX: Male

DAY ON TEST: 737

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U233

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Degeneration

Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 234

TRT#: 5

SEX: Male

DAY ON TEST: 740

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U234

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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
* Larynx	* 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

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Epididymis		Leiomyoma	
* Lung		Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Hyperplasia	Macrophage, Mild
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitium	Infiltration Cellular	Moderate
		Inflammation	Chronic Active, Moderate
	Alveolus	Proteinosis	Mild
[Inflammation TGLS = 5-4]			
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Moderate
		Hyperplasia	Macrophage, Minimal
[Hyperplasia TGLS = 4-4,4-4]			
[Hyperplasia TGLS = 4-4,4-4]			
* Preputial Gland		Atrophy	Mild
		Ectasia	Marked
[Atrophy TGLS = 2-6]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 234	TRT#: 5	SEX: Male	DAY ON TEST: 740
	DOSE: 0.6MG/M3	DISP: Terminal Sacrifice	HISTO: MZ34/U234

ORGAN AND ACCOUNTABLE SITE STATUS

[Ectasia TGLS = 1-6]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 235	TRT#: 7	SEX: Male	DAY ON TEST: 196
	DOSE: 0.6MG/M3LUNG TOX	DISP: Scheduled Sacrifice	HISTO: MZ34-U235

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney	* Lymph Node, Bronchial	* Nose
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MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Lung	Alveolus	Hyperplasia	Macrophage, Minimal
	Interstitialium	Infiltration Cellular	Minimal
	Alveolus	Proteinosis	Minimal
* Urinary Bladder		Calculus Micro Observation Only	
	[Calculus Micro Observation Only TGLS = 2-2]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 236

TRT#: 5

SEX: Male

DAY ON TEST: 741

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U236

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Kidney	* Larynx	* Liver	* Lymph Node, Bronchial
* 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

* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Moderate
Note: 1 subpleural focus of alveolar epithelial hyperplasia			
* Preputial Gland		Inflammation	Chronic, Marked
Note: inflammation w/ rupture & cellulitis			
[Inflammation TGLS = 1,2,3-6]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 237

TRT#: 5

SEX: Male

DAY ON TEST: 355

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ43/U237

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Larynx	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea			

MISSING

* Lymph Node, Mediastinal	* Mammary Gland	* Pituitary Gland
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OBSERVATIONS

* Brain	Cerebellum, White Matter	Degeneration	Focal, Mild
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Hyperplasia	Macrophage, Minimal
	Interstitium	Infiltration Cellular	Minimal
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Moderate
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Minimal
		Hyperplasia	Lymphoid, Minimal
* Preputial Gland		Ectasia	Moderate
	[Ectasia TGLS = 1,2-6]		
* Thymus		Degeneration	Mild
* Urinary Bladder		Calculus Gross Observation	
	[Calculus Gross Observation TGLS = 3-5]		

PRIMARY CAUSE OF DEATH

-

Animal Note: COMSAC=undetermined, focal encephalomalacia?

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 238

TRT#: 5

SEX: Male

DAY ON TEST: 163

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U238

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Kidney
* Larynx	* Lymph Node, Bronchial	* 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

* Intestine Large, Rectum	* Lymph Node, Mediastinal	* Mammary Gland	
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OBSERVATIONS

* Liver		Necrosis	Minimal
Note: 1 focus of massive liver necrosis			
* Lung	Alveolus	Hyperplasia	Macrophage, Minimal
	Alveolus	Proteinosis	Minimal
Lymph Node	Iliac	Inflammation	Moderate
	Inguinal	Inflammation	Mild
[Inflammation TGLS = 2-10]			
[Inflammation TGLS = 2-10]			
* Preputial Gland		Inflammation	Chronic, Marked
Note: P gland inflam.marked w/ cellulitis			
[Inflammation TGLS = 1-6]			
* Sem Ves			
Note: TGL"enlarged"=distention w/ fluid, not significant			
* Thymus		Degeneration	Moderate

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=marked inflam.preputial g.and cellulitis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 240

TRT#: 5

SEX: Male

DAY ON TEST: 737

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U240

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	* Islets, Pancreatic	* Kidney
* Larynx	* 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

* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Marked
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Mild
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Moderate
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Minimal
		Hyperplasia	Lymphoid, Mild
		[Hyperplasia TGLS = 4-4,4-4]	
		[Hyperplasia TGLS = 4-4,4-4]	
* Nose	Olfactory Epi	Atrophy	Minimal
* Preputial Gland		Ectasia	Moderate
		[Ectasia TGLS = 1,2-6]	
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: DX equivocal, recuts do not reveal more of lesion

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 322

TRT#: 9

SEX: Male

DAY ON TEST: 459

DOSE: 1.2MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/V322

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Kidney	* Larynx	* Liver	* 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
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INSUFFICIENT TISSUE

* Lymph Node, Bronchial	* Lymph Node, Mediastinal
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OBSERVATIONS

* Liver			
Note: TGL "nodule"=no corresponding lesion			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Mild
	Interstitialium	Infiltration Cellular	Minimal
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Moderate
* Nose	Olfactory Epi	Atrophy	Minimal
* Preputial Gland		Ectasia	Minimal
[Ectasia TGLS = 1-6]			
Urethra		Calculus Micro Observation Only	
Note: proteinaceous calculus			
[Calculus Micro Observation Only TGLS = 2-9]			

PRIMARY CAUSE OF DEATH

-

Animal Note: urethral obs.not assoc.w/ other lesions=terminal?

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 322

TRT#: 9

SEX: Male

DAY ON TEST: 459

DOSE: 1.2MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/V322

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: COD=undetermined

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 323

TRT#: 9

SEX: Male

DAY ON TEST: 374

DOSE: 1.2MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/V323

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Larynx	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	Urethra	* Urinary Bladder	

MISSING

* Adrenal Cortex	* Adrenal Medulla	* Lymph Node, Mediastinal	* Mammary Gland
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INSUFFICIENT TISSUE

* Lymph Node, Bronchial

OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
* Kidney		Hydronephrosis	Mild
[Hydronephrosis TGLS = 2-3,3-3]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Mild
	Interstitium	Infiltration Cellular	Minimal
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Moderate
[Inflammation TGLS = 6-9]			
* Nose	Olfactory Epi	Atrophy	Minimal
* Preputial Gland		Ectasia	Moderate
[Ectasia TGLS = 1-6]			
* Skin		Inflammation	Marked
Note: see slide5-focal ulceratives dermatitis around anus			
* Thymus		Degeneration	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 323

TRT#: 9

SEX: Male

DAY ON TEST: 374

DOSE: 1.2MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/V323

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CO/MSAC=? doesn't look emaciated,hydronephrosis mild

Animal Note: no adrenals found @ trim

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 324

TRT#: 9

SEX: Male

DAY ON TEST: 741

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V324

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Brain
* Heart
* Intestine Small, Duodenum
* Kidney
* Pancreas
* Salivary Glands
* Stomach, Forestomach
* Thyroid Gland

* Adrenal Medulla
* Epididymis
* Intestine Large, Cecum
* Intestine Small, Ileum
* Larynx
* Parathyroid Gland
* Seminal Vesicle
* Stomach, Glandular
* Trachea

* Bone
* Esophagus
* Intestine Large, Colon
* Intestine Small, Jejunum
* Liver
* Pituitary Gland
* Skin
* Testes
* Urinary Bladder

* Bone Marrow
* Gallbladder
* Intestine Large, Rectum
* Islets, Pancreatic
* Lymph Node, Mandibular
* Prostate
* Spleen
* Thymus

MISSING

* Lymph Node, Bronchial

* Lymph Node, Mediastinal

* Mammary Gland

OBSERVATIONS

* Lung

Alveolar Epith
Alveolus
Interstitialium

Alveolar/Bronchiolar Carcinoma
Hyperplasia
Hyperplasia
Infiltration Cellular
Inflammation
Inflammation
Proteinosis

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

Note: CaDX based on size, encroachment on normal structures

Note: Slides 4&9 considered part of same tumor

[Alveolar/Bronchiolar Carcinoma TGLS = 2-4,9]

* Lymph Node, Mesenteric

Hyperplasia

Lymphoid, Marked

* Nose

Olfactory Epi

Atrophy

Minimal

* Preputial Gland

Ectasia

Moderate

[Ectasia TGLS = 1-6]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 325

TRT#: 9

SEX: Male

DAY ON TEST: 740

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V325

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Kidney	* Larynx	* Lymph Node, Mandibular	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mediastinal	* Mammary Gland	* Thymus
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OBSERVATIONS

* Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 1-9]			
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Hyperplasia	Moderate
	Alveolus	Hyperplasia	Macrophage, Marked
	Bronchus	Hyperplasia	Lymphoid, Moderate
	Interstitium	Infiltration Cellular	Moderate
		Inflammation	Chronic Active, Moderate
	Alveolus	Proteinosis	Minimal
[Alveolar/Bronchiolar Adenoma TGLS = 2-4]			
[Hyperplasia TGLS = 3-4]			
[Hyperplasia TGLS = 3-4]			
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Mild
		Hyperplasia	Macrophage, Mild
[Hyperplasia TGLS = 4-4,4-4]			
[Hyperplasia TGLS = 4-4,4-4]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Marked
[Hyperplasia TGLS = 4-4]			
* Nose	Olfactory Epi	Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 325

TRT#: 9

SEX: Male

DAY ON TEST: 740

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V325

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin Note: ulcerative dermatitis & cellulitis	Prepuce	Inflammation	Marked
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 327

TRT#: 9

SEX: Male

DAY ON TEST: 737

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V327

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Kidney	* Larynx	* 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
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland	* Thymus
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INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Liver		Hepatocellular Carcinoma Infarct	Marked
Note: infarct is of entire lobe			
Note: CaDX based on trabecular pattern, vessel invasion			
[Hepatocellular Carcinoma TGLS = 2-10]			
[Infarct TGLS = 3-9]			
* Lung	Alveolar Epith Alveolus Interstitial	Hyperplasia Hyperplasia Infiltration Cellular Inflammation Proteinosis	Mild Macrophage, Moderate Moderate Chronic Active, Mild Mild
[Hyperplasia TGLS = 4-4]			
[Hyperplasia TGLS = 4-4]			
* Lymph Node, Bronchial		Hyperplasia Hyperplasia	Macrophage, Mild Lymphoid, Mild
* Nose	Olfactory Epi	Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 327

TRT#: 9

SEX: Male

DAY ON TEST: 737

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V327

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial GI

Note: TGL "pigment" not considered signif. lesion

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 328

TRT#: 9

SEX: Male

DAY ON TEST: 737

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V328

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Larynx	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* 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

INSUFFICIENT TISSUE

* Thymus

OBSERVATIONS

* Kidney		Infiltration Cellular	Lymphocyte, Minimal
* Lung		Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Marked
	[Proteinosis TGLS = 2-4]		
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Mild
		Hyperplasia	Macrophage, Minimal
* Nose	Olfactory Epi	Atrophy	Minimal
* Preputial Gland		Ectasia	Moderate
	[Ectasia TGLS = 1-6]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 329

TRT#: 9

SEX: Male

DAY ON TEST: 737

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V329

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Larynx	* 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

* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
* Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 3-9]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Marked
	Bronchus	Hyperplasia	Lymphoid, Mild
	Interstitium	Infiltration Cellular	Moderate
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Minimal
[Hyperplasia TGLS = 5-4]			
[Hyperplasia TGLS = 5-4]			
[Hyperplasia TGLS = 5-4]			
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
		Hyperplasia	Lymphoid, Marked
[Hyperplasia TGLS = 4-4,4-4]			
[Hyperplasia TGLS = 4-4,4-4]			
* Nose	Olfactory Epi	Atrophy	Minimal
	Olfactory Epi	Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 329	TRT#: 9 DOSE: 1.2MG/M3	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: MZ34/V329
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ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland [Ectasia TGLS = 2-6]		Ectasia	Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 330

TRT#: 9

SEX: Male

DAY ON TEST: 741

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V330

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Kidney	* Larynx	* 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

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Lung		Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Interstitial	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Mild
	Alveolar Epith	Metaplasia	Squamous, Minimal
	Alveolus	Proteinosis	Marked
	[Proteinosis TGLS = 2-4]		
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
* Nose	Olfactory Epi	Atrophy	Minimal
	Olfactory Epi	Degeneration	Minimal
* Preputial Gland		Inflammation	Chronic, Marked
	Note: rupture of gland w/ cellulitis		
	[Inflammation TGLS = 1-6]		
* Spleen		Hyperplasia	Lymphoid, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 330

TRT#: 9

SEX: Male

DAY ON TEST: 741

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V330

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 331

TRT#: 9

SEX: Male

DAY ON TEST: 607

DOSE: 1.2MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U331

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Kidney	* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	Penis
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland	* Thymus
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OBSERVATIONS

* Liver		Hepatocellular Carcinoma Necrosis	Moderate
Note: DX based on pattern, cytology			
Note: focal necrosis			
[Hepatocellular Carcinoma TGLS = 5-3]			
* Lung	Alveolar Epith Alveolus Interstitium	Hyperplasia Hyperplasia Infiltration Cellular Inflammation Proteinosis	Moderate Macrophage, Moderate Minimal Chronic Active, Mild Mild
Note: TGL6=no nodule, large focus of alv.macs			
[Proteinosis TGLS = 7-4]			
Lymph Node	Inguinal	Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 3-12]			
* Lymph Node, Bronchial		Hyperplasia Hyperplasia	Lymphoid, Mild Macrophage, Minimal
[Hyperplasia TGLS = 3-12,3-12]			
[Hyperplasia TGLS = 3-12,3-12]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 331	TRT#: 9 DOSE: 1.2MG/M3	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 607 HISTO: MZ34/U331
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ORGAN AND ACCOUNTABLE SITE STATUS

* Nose Penis Note: lesion actually in prepuce,see SKIN		Inflammation	Acute, Minimal
* Preputial Gland [Ectasia TGLS = 4-6]		Ectasia	Moderate
* Skin Note: ulcerative dermatitis prepuce & base of tail [Inflammation TGLS = 2-9,1-11]	Prepuce	Inflammation	Marked
* Testes		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=ulcerative dermatitis, prepuce, tail

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 333

TRT#: 9

SEX: Male

DAY ON TEST: 144

DOSE: 1.2MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/V333

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Kidney	* Larynx	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland	* Parathyroid Gland	* Thymus
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INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Liver		Atrophy	Moderate
		Basophilic Focus	
* Lung	Alveolus	Hyperplasia	Macrophage, Minimal
	Alveolus	Proteinosis	Minimal
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal
[Hyperplasia TGLS = 2-4,1-6]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 2-4,1-6]			
* Skin		Alopecia	Mild
[Alopecia TGLS = 5-9]			
Tooth		Developmental Malformation	
		Odontoma	

Note: see level3 of nose sections

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=malocclusion, dental malformation found

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 334

TRT#: 9

SEX: Male

DAY ON TEST: 737

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V334

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Kidney
* Larynx	* 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	* Thymus
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INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Intestine Small, Ileum	Peyers Patch	Hyperplasia	Lymphoid, Moderate
* Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 2-9]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Mild
	Interstitium	Infiltration Cellular	Marked
		Inflammation	Chronic Active, Moderate
	Alveolus	Proteinosis	Minimal
[Inflammation TGLS = 5-4]			
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
		Hyperplasia	Lymphoid, Marked
[Hyperplasia TGLS = 4-4,4-4]			
[Hyperplasia TGLS = 4-4,4-4]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 4-4]			
* Nose	Olfactory Epi	Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 334

TRT#: 9

SEX: Male

DAY ON TEST: 737

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V334

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland

Ectasia

Moderate

[Ectasia TGLS = 1-6]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 336

TRT#: 9

SEX: Male

DAY ON TEST: 716

DOSE: 1.2MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/V336

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Larynx	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland

OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Interstitium	Infiltration Cellular	Minimal
		Inflammation	Chronic Active, Mild
* Lymph Node, Bronchial	Alveolus	Proteinosis	Moderate
		Hyperplasia	Macrophage, Mild
		Hyperplasia	Lymphoid, Mild
* Nose	Olfactory Epi	Atrophy	Mild
* Skin	Tail	Inflammation	Marked

Note: ulcerative dermatitis w/ cellulitis
[Inflammation TGLS = 1-9]

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=ulcerative lesions on tail

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 337

TRT#: 9

SEX: Male

DAY ON TEST: 665

DOSE: 1.2MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/V337

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Kidney	* Larynx
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Trachea	* Urinary Bladder

MISSING

* Adrenal Medulla	* Intestine Large, Rectum	* Mammary Gland	* Thymus
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OBSERVATIONS

* Liver		Hepatocellular Adenoma	Multiple
[Hepatocellular Adenoma TGLS = 4-9,5-10]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Mild
	Interstitium	Infiltration Cellular	Minimal
	Alveolus	Proteinosis	Marked
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
		Hyperplasia	Lymphoid, Minimal
* Nose	Olfactory Epi	Atrophy	Minimal
* Penis		Inflammation	Moderate
[Inflammation TGLS = 1-11]			
* Preputial Gland		Ectasia	Moderate
[Ectasia TGLS = 2-6]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Urethra		Concretion	Moderate
Note: proteinaceous			
[Concretion TGLS = 3-12]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 337

TRT#: 9

SEX: Male

DAY ON TEST: 665

DOSE: 1.2MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/V337

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CO/MSAC=pre;utial & penile lesions

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 339

TRT#: 9

SEX: Male

DAY ON TEST: 705

DOSE: 1.2MG/M3

DISP: Natural Death

HISTO: MZ34/V339

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Islets, Pancreatic	* Kidney	* Larynx	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Testes	* Trachea		

MISSING

* Intestine Large, Rectum	* Mammary Gland
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AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Stomach, Forestomach	* Stomach, Glandular

INSUFFICIENT TISSUE

* Pituitary Gland

OBSERVATIONS

* Liver		Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 8-10]			
* Lung		Autolysis	Moderate
		Hepatocellular Carcinoma	Metastatic (Liver)
	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Mild
	Interstitialium	Infiltration Cellular	Minimal
	Alveolus	Proteinosis	Mild
Note: autolysis interferes w/ grading of lesions			
[Autolysis TGLS = 13-4]			
[Hepatocellular Carcinoma TGLS = 11-12,12-11]			
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal
		Hyperplasia	Macrophage, Mild
* Nose	Olfactory Epi	Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 339	TRT#: 9 DOSE: 1.2MG/M3	SEX: Male DISP: Natural Death	DAY ON TEST: 705 HISTO: MZ34/V339
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ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland [Ectasia TGLS = 1-6,2-6]		Ectasia	Marked
* Spleen [Hematopoietic Cell Proliferation TGLS = 3-3]		Hematopoietic Cell Proliferation	Moderate
* Thymus		Degeneration	Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
Urethra Note: proteinaceous [Concretion TGLS = 4-9]		Concretion	Moderate
* Urinary Bladder Note: proteinaceous [Calculus Micro Observation Only TGLS = 5-5]		Calculus Micro Observation Only	

PRIMARY CAUSE OF DEATH -

Animal Note: COD=metastisizing hepatocellular carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 340

TRT#: 9

SEX: Male

DAY ON TEST: 485

DOSE: 1.2MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/V340

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	* Islets, Pancreatic	* Larynx
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* 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	Capsule	Adenoma	
* Kidney		Hydronephrosis	Moderate
[Hydronephrosis TGLS = 5-3]			
* Liver		Hepatocellular Adenoma	Multiple
[Hepatocellular Adenoma TGLS = 3-9,4-10]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Mild
	Interstitium	Infiltration Cellular	Minimal
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Moderate
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
		Hyperplasia	Lymphoid, Mild
* Nose	Olfactory Epi	Atrophy	Minimal
* Preputial Gland		Ectasia	Moderate
[Ectasia TGLS = 1-6]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 340

TRT#: 9

SEX: Male

DAY ON TEST: 485

DOSE: 1.2MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/V340

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: COD=hepatocellular ademoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 342

TRT#: 9

SEX: Male

DAY ON TEST: 711

DOSE: 1.2MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/V342

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Larynx	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mesenteric	* Mammary Gland	* Thymus	
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OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
* Lung	Alveolar Epith	Hyperplasia	Moderate
	Alveolus	Hyperplasia	Macrophage, Mild
	Bronchus	Hyperplasia	Lymphoid, Mild
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Marked
	[Proteinosis TGLS = 7-4]		
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
		Hyperplasia	Lymphoid, Mild
* Nose	Olfactory Epi	Atrophy	Minimal
* Preputial Gland		Ectasia	Moderate
	[Ectasia TGLS = 2,3-6]		
* Skin	Prepuce	Inflammation	Marked
	Note: ulcerative dermatitis/ cellulitis		
	[Inflammation TGLS = 1-9]		
* Spleen		Inflammation	Moderate
	Note: necrosis & marked fibrosis, focal		
	[Inflammation TGLS = 4-3]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 342	TRT#: 9 DOSE: 1.2MG/M3	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 711 HISTO: MZ34/V342
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ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
Urethra		Concretion	Moderate
Note: proteinaceous [Concretion TGLS = 5-10]			

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=preputial inflammation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 343

TRT#: 9

SEX: Male

DAY ON TEST: 450

DOSE: 1.2MG/M3

DISP: Natural Death

HISTO: MZ34/V343

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- | | |
|---------------------------|-----------------|
| * Lymph Node, Mediastinal | * Mammary Gland |
|---------------------------|-----------------|

AUTO PRECLUDES DIAG.

- | | | |
|---------------|--------------------------|-----------------------------|
| * Gallbladder | * Intestine Large, Cecum | * Intestine Small, Duodenum |
|---------------|--------------------------|-----------------------------|

INSUFFICIENT TISSUE

- * Thymus

OBSERVATIONS

- | | | | |
|---|--------------|--------------------------|--------------------------|
| * Kidney | | Hydronephrosis | Moderate |
| [Hydronephrosis TGLS = 4-3] | | | |
| * Liver | | Angiectasis | Moderate |
| | | Hepatocellular Carcinoma | |
| Note: DX based on cytologic anaplasia | | | |
| [Hepatocellular Carcinoma TGLS = 3-3,9] | | | |
| * Lung | Alveolus | Hyperplasia | Macrophage, Mild |
| | Interstitium | Infiltration Cellular | Minimal |
| | | Inflammation | Chronic Active, Moderate |
| | Alveolus | Proteinosis | Moderate |
| * Lymph Node, Bronchial | | Hyperplasia | Macrophage, Minimal |
| | | Hyperplasia | Lymphoid, Minimal |
| [Hyperplasia TGLS = 7-4,7-4] | | | |
| [Hyperplasia TGLS = 7-4,7-4] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 343	TRT#: 9 DOSE: 1.2MG/M3	SEX: Male DISP: Natural Death	DAY ON TEST: 450 HISTO: MZ34/V343
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ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Atrophy	Minimal
* Preputial Gland [Ectasia TGLS = 1-6]		Ectasia	Moderate
* Sem Ves Note: TGL "small"=no corresp.lesion, not much fluid			
* Spleen [Hyperplasia TGLS = 2-3]		Hyperplasia	Lymphoid, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: TGL "lesion,black" is PM artifact, not significant

Animal Note: COD=lliver tumor

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 344

TRT#: 9

SEX: Male

DAY ON TEST: 737

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V344

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Larynx	* Lymph Node, Mandibular	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland	* Thymus
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INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Bone Marrow	Erythroid Cell	Hyperplasia	Moderate
* Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 5-10]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Moderate
[Proteinosis TGLS = 8-4]			
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Nose	Olfactory Epi	Atrophy	Minimal
* Preputial Gland		Ectasia	Mild
Note: TGL "pigment" = not significant lesion			
[Ectasia TGLS = 2-6]			
* Skin	Pinna	Hemangiosarcoma	
[Hemangiosarcoma TGLS = 1-9]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 344

TRT#: 9

SEX: Male

DAY ON TEST: 737

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V344

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Hematopoietic Cell Proliferation TGLS = 4-3]	Hematopoietic Cell Proliferation	Marked
* Thyroid Gland Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 345

TRT#: 9

SEX: Male

DAY ON TEST: 695

DOSE: 1.2MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/V345

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Testes	* Trachea

MISSING

* Mammary Gland

OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
* Kidney	Pelvis	Inflammation	Moderate
* Liver		Infarct	Marked
Note: infarcted lobe [Infarct TGLS = 4-10]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Mild
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitialium	Infiltration Cellular	Minimal
		Inflammation	Chronic Active, Moderate
	Alveolus	Proteinosis	Marked
Note: RI lobe TGL is focus of marked chronic inflammation [Inflammation TGLS = 7-9]			
Lymph Node	Iliac	Hyperplasia	Plasma Cell, Moderate
	Iliac	Pigmentation	Mild
[Hyperplasia TGLS = 5-11]			
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Mild
		Hyperplasia	Macrophage, Mild
[Hyperplasia TGLS = 5-11,5-11]			
[Hyperplasia TGLS = 5-11,5-11]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 345	TRT#: 9 DOSE: 1.2MG/M3	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 695 HISTO: MZ34/V345
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ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric		Adenocarcinoma	Metastatic (Stomach, Glandular)
* Nose	Olfactory Epi	Atrophy	Minimal
Penis		Inflammation	Mild
[Inflammation TGLS = 1-12]			
* Preputial Gland		Ectasia	Marked
[Ectasia TGLS = 2-6]			
* Prostate		Inflammation	Mild
* Stomach, Glandular		Adenocarcinoma	
* Thymus		Degeneration	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
Urethra		Concretion	Moderate
		Inflammation	Mild
Note: proteinaceous			
[Concretion TGLS = 3-13]			
* Urinary Bladder		Inflammation	Moderate

PRIMARY CAUSE OF DEATH -

Animal Note: recuts of stomach=adenoca w/ invasion of muscularis

Animal Note: CO/MSAC=pyelonephritis, cystitis & urethritis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 346

TRT#: 9

SEX: Male

DAY ON TEST: 463

DOSE: 1.2MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/V346

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx
* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Hyperplasia	Macrophage, Mild
	Interstitium	Infiltration Cellular	Minimal
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Moderate
Lymph Node	Iliac	Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 4-12,8-4]			
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
		Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 4-12,4-12,8-4,8-4]			
[Hyperplasia TGLS = 4-12,4-12,8-4,8-4]			
* Nose	Olfactory Epi	Atrophy	Minimal
* Preputial Gland		Ectasia	Mild
[Ectasia TGLS = 2-6]			
* Skin	Prepuce	Inflammation	Marked
Note: marked focal ulcerative dermatitis			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 346	TRT#: 9	SEX: Male	DAY ON TEST: 463
	DOSE: 1.2MG/M3	DISP: Moribund Sacrifice	HISTO: MZ34/V346

ORGAN AND ACCOUNTABLE SITE STATUS

[Inflammation TGLS = 1-11]

PRIMARY CAUSE OF DEATH

-

Animal Note: med In,can't find appartently normal

Animal Note: CO/MSAC=ulcerative preputial lesion

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 347

TRT#: 9

SEX: Male

DAY ON TEST: 740

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V347

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Larynx	* 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

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Bone Marrow		Thrombosis	Moderate
* Lung	Alveolar Epith	Hyperplasia	Moderate
	Alveolus	Hyperplasia	Macrophage, Mild
	Interstitial	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Marked
	[Proteinosis TGLS = 3-4]		
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Mild
		Hyperplasia	Macrophage, Mild
	[Hyperplasia TGLS = 2-4,2-4]		
	[Hyperplasia TGLS = 2-4,2-4]		
* Nose	Olfactory Epi	Atrophy	Minimal
	Olfactory Epi	Degeneration	Minimal
* Preputial Gland		Ectasia	Mild
	[Ectasia TGLS = 1-6]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 347

TRT#: 9

SEX: Male

DAY ON TEST: 740

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V347

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 348

TRT#: 9

SEX: Male

DAY ON TEST: 741

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V348

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	* Islets, Pancreatic	* Kidney
* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 2-9]			
* Lung	Alveolar Epith	Hyperplasia	Moderate
	Alveolus	Hyperplasia	Macrophage, Moderate
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Minimal
		Inflammation	Acute, Minimal
	Alveolus	Proteinosis	Moderate
[Proteinosis TGLS = 3-4]			
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Minimal
		Hyperplasia	Lymphoid, Minimal
* Nose	Olfactory Epi	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Ectasia	Moderate
[Ectasia TGLS = 1-6]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 350

TRT#: 9

SEX: Male

DAY ON TEST: 737

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V350

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	* Islets, Pancreatic	* Kidney
* Larynx	* Liver	* 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

* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Lung		Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Moderate
	Alveolus	Hyperplasia	Macrophage, Mild
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Marked
[Proteinosis TGLS = 4-4]			
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
		Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 3-4,3-4,2-5,2-5]			
[Hyperplasia TGLS = 3-4,3-4,2-5,2-5]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 3-4,2-5]			
* Nose	Olfactory Epi	Atrophy	Minimal
* Preputial Gland		Ectasia	Mild
[Ectasia TGLS = 1-6]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 350

TRT#: 9

SEX: Male

DAY ON TEST: 737

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V350

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

Animal Note: TGL" is on slide5a

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 351

TRT#: 9

SEX: Male

DAY ON TEST: 607

DOSE: 1.2MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/V351

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Trachea			

MISSING

* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Kidney	Pelvis	Inflammation	Moderate
		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	
Note: DX based on pattern & apparent vessel invasion [Hepatocellular Carcinoma TGLS = 6-12]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Mild
	Interstitium	Infiltration Cellular	Minimal
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Moderate
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal
		Hyperplasia	Macrophage, Mild
* Nose	Olfactory Epi	Atrophy	Minimal
Note: olfact. epithel.dips into submucosa			
Penis		Inflammation	Marked
[Inflammation TGLS = 3-11]			
* Preputial Gland		Ectasia	Moderate
[Ectasia TGLS = 2-6]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 351	TRT#: 9 DOSE: 1.2MG/M3	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 607 HISTO: MZ34/V351
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ORGAN AND ACCOUNTABLE SITE STATUS

* Skin Note: TGL "penile skin" considered prepuce Note: cellulitis obvious, probably related to ulceration [Inflammation TGLS = 1-9]	Prepuce	Inflammation	Moderate
* Thymus		Degeneration	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
Urethra Note: proteinaceous [Concretion TGLS = 4-10]		Concretion	Moderate
* Urinary Bladder Note: ulcerative cystitis [Inflammation TGLS = 5-5]		Inflammation	Marked

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=preputial/penile lesion/cystitis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 352

TRT#: 9

SEX: Male

DAY ON TEST: 740

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V352

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Larynx	* Liver	* 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

* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Intestine Large, Cecum	Lymphoid Tiss	Hyperplasia	Lymphoid, Moderate
* Lung		Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Moderate
	Interstitial	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Moderate
	Alveolus	Proteinosis	Moderate
[Inflammation TGLS = 3-4,4-9]			
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
		Hyperplasia	Lymphoid, Marked
[Hyperplasia TGLS = 5-4,5-4]			
[Hyperplasia TGLS = 5-4,5-4]			
* Nose	Olfactory Epi	Atrophy	Mild
* Preputial Gland		Ectasia	Mild
[Ectasia TGLS = 1-6]			
* Thymus		Degeneration	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 352

TRT#: 9

SEX: Male

DAY ON TEST: 740

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V352

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 353

TRT#: 9

SEX: Male

DAY ON TEST: 661

DOSE: 1.2MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/V353

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Kidney	* Larynx	* Liver	* 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

* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Lung		Alveolar/Bronchiolar Carcinoma	
	Alveolar Epith	Hyperplasia	Moderate
	Alveolus	Hyperplasia	Macrophage, Mild
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Moderate
Note: DX based on histo of largest lung nodule			
Note: lung considered primary because of largest nodules			
[Alveolar/Bronchiolar Carcinoma TGLS = 6-11]			
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
		Hyperplasia	Lymphoid, Moderate
* Nose	Olfactory Epi	Atrophy	Mild
* Preputial Gland		Atrophy	Mild
* Thymus		Degeneration	Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 353	TRT#: 9	SEX: Male	DAY ON TEST: 661
	DOSE: 1.2MG/M3	DISP: Moribund Sacrifice	HISTO: MZ34/V353

ORGAN AND ACCOUNTABLE SITE STATUS

Tissue NOS	Mediastinum	Alveolar/Bronchiolar Carcinoma	Metastatic (Uncertain Primary Site)
	Thoracic	Alveolar/Bronchiolar Carcinoma	Metastatic (Uncertain Primary Site)
	[Alveolar/Bronchiolar Carcinoma TGLS = 8-10,9-12]		
	[Alveolar/Bronchiolar Carcinoma TGLS = 8-10,9-12]		

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=lung tumor w/ invasion of thoracic cavity

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 354

TRT#: 9

SEX: Male

DAY ON TEST: 476

DOSE: 1.2MG/M3

DISP: Scheduled Sacrifice

HISTO: MZ34/V354

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Kidney
* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Intestine Large, Rectum	* Lymph Node, Mediastinal	* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Liver		Mixed Cell Focus	
[Mixed Cell Focus TGLS = 3-9]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Minimal
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitialium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Mild
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Minimal
		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 1-4,1-4]			
[Hyperplasia TGLS = 1-4,1-4]			
* Nose	Olfactory Epi	Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 356

TRT#: 9

SEX: Male

DAY ON TEST: 250

DOSE: 1.2MG/M3

DISP: Natural Death

HISTO: MZ34/V356

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Epididymis
* Larynx
* Pituitary Gland
* Seminal Vesicle

* Bone
* Esophagus
* Liver
* Preputial Gland
* Testes

* Bone Marrow
* Heart
* Lymph Node, Mandibular
* Prostate
* Thyroid Gland

* Brain
* Kidney
* Parathyroid Gland
* Salivary Glands
* Trachea

MISSING

* Adrenal Medulla

* Lymph Node, Mediastinal

* Mammary Gland

AUTO PRECLUDES DIAG.

Blood
* Intestine Large, Rectum
* Islets, Pancreatic
* Spleen

* Gallbladder
* Intestine Small, Duodenum
* Lung
* Stomach, Forestomach

* Intestine Large, Cecum
* Intestine Small, Ileum
* Lymph Node, Mesenteric
* Stomach, Glandular

* Intestine Large, Colon
* Intestine Small, Jejunum
* Pancreas
* Urinary Bladder

OBSERVATIONS

* Lung

Note: no lung tumors, cytologic detail poor

Lymph Node
[Hyperplasia TGLS = 1-11,2-11]

Inguinal

Hyperplasia

Lymphoid, Moderate

* Lymph Node, Bronchial

[Hyperplasia TGLS = 1-11,1-11,2-11,2-11]
[Hyperplasia TGLS = 1-11,1-11,2-11,2-11]

Hyperplasia
Hyperplasia

Lymphoid, Moderate
Macrophage, Mild

* Nose

Olfactory Epi

Atrophy

Minimal

Penis

Note: proteinaceous concretion
[Concretion TGLS = 3-10]

Concretion

Marked

* Skin

Prepuce

Inflammation

Moderate

Note: focal neutrophilic infiltrate, poor section

* Thymus

Degeneration

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 356

TRT#: 9

SEX: Male

DAY ON TEST: 250

DOSE: 1.2MG/M3

DISP: Natural Death

HISTO: MZ34/V356

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: COD=undetermined, preputial lesion may be involved

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 358

TRT#: 9

SEX: Male

DAY ON TEST: 391

DOSE: 1.2MG/M3

DISP: Natural Death

HISTO: MZ34/V358

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Heart	* Intestine Large, Colon
* Islets, Pancreatic	* Larynx	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea

MISSING

* Intestine Large, Rectum	* Lymph Node, Mandibular	* Mammary Gland
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AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mediastinal		

OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
* Kidney		Inflammation	Marked
Note: marked pyelonephritis,septic			
[Inflammation TGLS = 4-10,3.5-10,3.6-9,3]			
* Liver		Necrosis	Mild
* Lung	Alveolus	Hyperplasia	Macrophage, Mild
	Interstitialium	Infiltration Cellular	Minimal
	Alveolus	Proteinosis	Moderate
[Hyperplasia TGLS = 8-12]			
Lymph Node	Inguinal	Pigmentation	Minimal
[Pigmentation TGLS = 1-11]			
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
* Nose	Olfactory Epi	Atrophy	Minimal
* Preputial Gland		Ectasia	Mild
* Thymus		Degeneration	Marked
* Urinary Bladder		Calculus Gross Observation	
		Inflammation	Mild
[Calculus Gross Observation TGLS = 3-5]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 358

TRT#: 9

SEX: Male

DAY ON TEST: 391

DOSE: 1.2MG/M3

DISP: Natural Death

HISTO: MZ34/V358

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

Animal Note: COD=marked pyelonephritis, renal failure

Animal Note: MAN.LN not found, apparently normal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 359

TRT#: 9

SEX: Male

DAY ON TEST: 585

DOSE: 1.2MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/V359

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx
* 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

* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
Note: infarcted areas in CA			
Note: CA DX based on pattern			
[Hepatocellular Adenoma TGLS = 5-10]			
[Hepatocellular Carcinoma TGLS = 4-9]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Mild
	Interstitium	Infiltration Cellular	Minimal
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Moderate
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
		Hyperplasia	Lymphoid, Minimal
* Nose	Olfactory Epi	Atrophy	Mild
Penis		Inflammation	Marked
Note: ulcerative skin lesion			
[Inflammation TGLS = 2-11]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 359	TRT#: 9 DOSE: 1.2MG/M3	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 585 HISTO: MZ34/V359
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ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland [Ectasia TGLS = 1-6]		Ectasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Degeneration	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
Urethra Note: proteinaceous [Concretion TGLS = 3-12]		Concretion	Moderate

PRIMARY CAUSE OF DEATH -

Animal Note: CO/MSAC=penile lesion

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 360

TRT#: 9

SEX: Male

DAY ON TEST: 476

DOSE: 1.2MG/M3

DISP: Scheduled Sacrifice

HISTO: MZ34/V360

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Larynx	* 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

* Lymph Node, Mediastinal	* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
		[Basophilic Focus TGLS = 3-3,10]	
		[Hepatocellular Carcinoma TGLS = 2-3,9]	
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Mild
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitium	Infiltration Cellular	Minimal
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Moderate
		[Proteinosis TGLS = 4-4]	
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Mild
		[Hyperplasia TGLS = 5-4]	
* Nose	Olfactory Epi	Atrophy	Minimal
* Preputial Gland		Ectasia	Mild
		[Ectasia TGLS = 1-6]	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 360

TRT#: 9

SEX: Male

DAY ON TEST: 476

DOSE: 1.2MG/M3

DISP: Scheduled Sacrifice

HISTO: MZ34/V360

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 361

TRT#: 9

SEX: Male

DAY ON TEST: 740

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V361

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx
* Lymph Node, Mandibular	* Pancreas	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mesenteric	* Mammary Gland
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INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Intestine Small, Ileum	Peyers Patch	Hyperplasia	Lymphoid, Moderate
* Kidney		Nephropathy	Minimal
* Liver		Mixed Cell Focus	
[Mixed Cell Focus TGLS = 3-3]			
* Lung		Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Mild
	Interstitialium	Infiltration Cellular	Marked
		Inflammation	Chronic Active, Moderate
	Alveolus	Proteinosis	Mild
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Marked
		Hyperplasia	Macrophage, Minimal
[Hyperplasia TGLS = 4-4,4-4]			
[Hyperplasia TGLS = 4-4,4-4]			
* Nose	Olfactory Epi	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-8]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 361	TRT#: 9 DOSE: 1.2MG/M3	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 740 HISTO: MZ34/V361
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ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland [Ectasia TGLS = 1-6]		Ectasia	Moderate
* Spleen		Hemangioma	
* Thymus		Degeneration	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: MES LN not found on slide 5 or in residual tissue

Animal Note: TGL"MES LN=RED" unlikely to be a tumor

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 362

TRT#: 9

SEX: Male

DAY ON TEST: 385

DOSE: 1.2MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/V362

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Intestine Large, Rectum	* Mammary Gland	* Parathyroid Gland
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AUTO PRECLUDES DIAG.

* Lymph Node, Mediastinal

OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
* Kidney		Hydronephrosis	Minimal
	[Hydronephrosis TGLS = 5-3,6-3]		
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Mild
	Interstitialium	Infiltration Cellular	Minimal
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Marked
Lymph Node	Iliac	Hyperplasia	Lymphoid, Marked
	Inguinal	Hyperplasia	Lymphoid, Mild
	[Hyperplasia TGLS = 4-9,2-10]		
	[Hyperplasia TGLS = 4-9,2-10]		
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Moderate
		Hyperplasia	Macrophage, Mild
	[Hyperplasia TGLS = 4-9,4-9,2-10,2-10]		
	[Hyperplasia TGLS = 4-9,4-9,2-10,2-10]		
* Nose	Olfactory Epi	Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 362	TRT#: 9 DOSE: 1.2MG/M3	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 385 HISTO: MZ34/V362
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ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland [Ectasia TGLS = 1-6]	Ectasia	Mild
* Skin Note: focal ulcerative dermatitis around anus [Inflammation TGLS = 3-5]	Inflammation	Marked
* Spleen	Hyperplasia	Lymphoid, Mild

PRIMARY CAUSE OF DEATH -

Animal Note: TGL"anus" is skin around anus, seeSKIN
Animal Note: CO/MSAC=ulcerative dermatitis around anus

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 363

TRT#: 9

SEX: Male

DAY ON TEST: 642

DOSE: 1.2MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/V363

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Kidney	* Larynx	* Lymph Node, Mandibular	* 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

* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Thymus
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OBSERVATIONS

* Liver		Hepatocellular Carcinoma Necrosis	Moderate
Note: DX based on pattern, cytology, vessel invasion			
Note: necrosis = piecemeal w/ pig. laden macrophages			
[Hepatocellular Carcinoma TGLS = 2-10,11]			
[Necrosis TGLS = 3-9]			
* Lung	Alveolar Epith Alveolus Interstitium	Hyperplasia Hyperplasia Infiltration Cellular Inflammation	Mild Macrophage, Moderate Minimal Chronic Active, Minimal
* Lymph Node, Bronchial	Alveolus	Proteinosis	Marked
* Nose	Olfactory Epi	Hyperplasia Atrophy	Macrophage, Mild Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=hepatocellular CA w/ hepatic necrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 365

TRT#: 9

SEX: Male

DAY ON TEST: 661

DOSE: 1.2MG/M3

DISP: Natural Death

HISTO: MZ34/V365

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Kidney Note: mineralization of necrotic debris	Renal Tubule	Necrosis	Mild
* Liver [Hepatocellular Adenoma TGLS = 9-9]		Hepatocellular Adenoma	
* Lung	Alveolar Epith Alveolus Interstitium	Hyperplasia Hyperplasia Infiltration Cellular Inflammation	Mild Macrophage, Mild Mild Chronic Active, Mild
Lymph Node [Hyperplasia TGLS = 1-11,8-4]	Alveolus Inguinal	Proteinosis Hyperplasia	Moderate Lymphoid, Moderate
* Lymph Node, Bronchial [Hyperplasia TGLS = 1-11,1-11,8-4,8-4] [Hyperplasia TGLS = 1-11,1-11,8-4,8-4]		Hyperplasia Hyperplasia	Macrophage, Mild Lymphoid, Minimal
* Nose	Olfactory Epi	Atrophy	Mild
* Pancreas Note: few zymogen granules in sec.cell but not a lesion			
Penis		Inflammation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 365	TRT#: 9 DOSE: 1.2MG/M3	SEX: Male DISP: Natural Death	DAY ON TEST: 661 HISTO: MZ34/V365
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ORGAN AND ACCOUNTABLE SITE STATUS

[Inflammation TGLS = 7-10] * Preputial Gland		Ectasia	Moderate
[Ectasia TGLS = 2,3-6] * Skin	Prepuce	Inflammation	Marked
[Inflammation TGLS = 4-12] * Thymus		Degeneration	Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: congestion & chronic hem. in MES>LN, not significant

Animal Note: COD=undetermined, no lesions look lethal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 366

TRT#: 9

SEX: Male

DAY ON TEST: 734

DOSE: 1.2MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/V366

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic	* Larynx
* Liver	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Intestine Small, Jejunum	* Mammary Gland
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OBSERVATIONS

* Kidney		Infiltration Cellular	Lymphocyte, Mild
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Hyperplasia	Moderate
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Mild
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Mild
Lymph Node	Iliac	Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 3-10,4-4]			
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Marked
		Hyperplasia	Macrophage, Moderate
[Hyperplasia TGLS = 3-10,3-10,4-4,4-4]			
[Hyperplasia TGLS = 3-10,3-10,4-4,4-4]			
* Nose	Olfactory Epi	Atrophy	Mild
* Preputial Gland		Inflammation	Chronic, Mild
[Inflammation TGLS = 2-6]			
* Skin	Prepuce	Inflammation	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 366	TRT#: 9	SEX: Male	DAY ON TEST: 734
	DOSE: 1.2MG/M3	DISP: Moribund Sacrifice	HISTO: MZ34/V366

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ulcerative dermatitis w/ cellulitis
[Inflammation TGLS = 1-9]

PRIMARY CAUSE OF DEATH -

Animal Note: CO/.MSAC=preputial skin lesion

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 367

TRT#: 9

SEX: Male

DAY ON TEST: 476

DOSE: 1.2MG/M3

DISP: Scheduled Sacrifice

HISTO: MZ34/V367

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Kidney	* Larynx	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* 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

* Lung	Alveolar Epith	Hyperplasia	Moderate
	Alveolus	Hyperplasia	Macrophage, Moderate
	Interstitium	Infiltration Cellular	Minimal
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Marked
	[Proteinosis TGLS = 3-4]		
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Minimal
		Hyperplasia	Lymphoid, Minimal
* Nose	Olfactory Epi	Atrophy	Minimal
* Preputial Gland		Ectasia	Marked
	[Ectasia TGLS = 1-6]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 368

TRT#: 9

SEX: Male

DAY ON TEST: 424

DOSE: 1.2MG/M3

DISP: Natural Death

HISTO: MZ34/V368

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Intestine Large, Rectum	* Lymph Node, Mediastinal	* Mammary Gland	* Parathyroid Gland
* Pituitary Gland			

OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Kidney		Inflammation	Moderate
Note: glomerulonephritis w/proteinuria [Inflammation TGLS = 3-3]			
* Lung	Alveolar Epith Alveolus Interstitium	Hyperplasia Hyperplasia Infiltration Cellular Inflammation	Minimal Macrophage, Mild Minimal Chronic Active, Minimal
Lymph Node	Alveolus Iliac Inguinal	Proteinosis Hyperplasia Hyperplasia	Marked Plasma Cell, Moderate Lymphoid, Marked
[Hyperplasia TGLS = 1-10,5-11]			
[Hyperplasia TGLS = 1-10,5-11]			
* Lymph Node, Bronchial		Hyperplasia Hyperplasia	Lymphoid, Minimal Macrophage, Mild
[Hyperplasia TGLS = 1-10,1-10,5-11,5-11]			
[Hyperplasia TGLS = 1-10,1-10,5-11,5-11]			
* Nose	Olfactory Epi	Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 368	TRT#: 9 DOSE: 1.2MG/M3	SEX: Male DISP: Natural Death	DAY ON TEST: 424 HISTO: MZ34/V368
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ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland [Inflammation TGLS = 2-6]	Olfactory Epi	Degeneration Inflammation	Minimal Chronic, Moderate
* Sem Ves Note: no lesion,merely distended w/ fluid			
* Spleen		Hyperplasia	Lymphoid, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: COD=glomerulonephritis w/ proteinuria

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 369	TRT#: 11	SEX: Male	DAY ON TEST: 196
	DOSE: 1.2MG/M3LUNG TOX	DISP: Scheduled Sacrifice	HISTO: MZ34-V369

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney * Lymph Node, Mediastinal

OBSERVATIONS

* Lung	Alveolus	Hyperplasia Inflammation	Macrophage, Mild Chronic Active, Mild
	Alveolus	Proteinosis	Mild
[Hyperplasia TGLS = 3-3]			
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Minimal
* Nose	Olfactory Epi	Atrophy	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 370

TRT#: 9

SEX: Male

DAY ON TEST: 740

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V370

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Intestine Large, Cecum	Lymphoid Tiss	Hyperplasia	Lymphoid, Marked
* Intestine Small, Ileum	Peyers Patch	Hyperplasia	Lymphoid, Moderate
* Liver		Hepatocellular Adenoma	
* Lung		Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Interstitium	Infiltration Cellular	Moderate
		Inflammation	Chronic Active, Moderate
	Alveolus	Proteinosis	Minimal
[Inflammation TGLS = 2-4]			
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Minimal
		Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 3-4,3-4]			
[Hyperplasia TGLS = 3-4,3-4]			
* Nose	Olfactory Epi	Atrophy	Minimal
* Preputial Gland		Ectasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 370

TRT#: 9

SEX: Male

DAY ON TEST: 740

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V370

ORGAN AND ACCOUNTABLE SITE STATUS

[Ectasia TGLS = 1-6]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 371

TRT#: 9

SEX: Male

DAY ON TEST: 665

DOSE: 1.2MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/V371

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea		

MISSING

* Mammary Gland	* Thymus
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OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
* Liver		Hepatocellular Carcinoma	
Note: DX based on pattern, cytology [Hepatocellular Carcinoma TGLS = 6-3]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Mild
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitialium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Mild
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal
		Hyperplasia	Macrophage, Mild
* Lymph Node, Mesenteric		Fibrous Histiocytoma	
[Fibrous Histiocytoma TGLS = 4-5]			
* Nose	Olfactory Epi	Atrophy	Minimal
* Preputial Gland		Ectasia	Moderate
[Ectasia TGLS = 1,2-6]			
* Prostate		Inflammation	Mild
* Skin	Prepuce	Inflammation	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 371	TRT#: 9 DOSE: 1.2MG/M3	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 665 HISTO: MZ34/V371
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: ulcerative dermatitis w/ cellulitis [Inflammation TGLS = 1-10]			
Urethra Note: proteinaceous [Concretion TGLS = 5-9]		Concretion	Moderate
* Urinary Bladder		Inflammation	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=preputial lesion

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 372

TRT#: 9

SEX: Male

DAY ON TEST: 644

DOSE: 1.2MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/V372

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Kidney	* Larynx	* 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

* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Liver		Hepatocellular Adenoma Necrosis	Mild
	Note: necrosis is focal, involves large pinpoint foci [Hepatocellular Adenoma TGLS = 5-9]		
* Lung	Alveolar Epith Alveolus Interstitium Alveolus	Hyperplasia Hyperplasia Infiltration Cellular Inflammation Proteinosis	Mild Macrophage, Moderate Mild Chronic Active, Minimal Moderate
	[Proteinosis TGLS = 4-4]		
* Lymph Node, Bronchial		Hyperplasia Hyperplasia	Macrophage, Mild Lymphoid, Minimal
* Nose	Olfactory Epi	Atrophy	Minimal
* Preputial Gland		Ectasia	Moderate
	[Ectasia TGLS = 1-6]		
* Thymus		Degeneration	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 372

TRT#: 9

SEX: Male

DAY ON TEST: 644

DOSE: 1.2MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/V372

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CO/MSAC=undetermined

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 373

TRT#: 11

SEX: Male

DAY ON TEST: 196

DOSE: 1.2MG/M3LUNG TOX

DISP: Scheduled Sacrifice

HISTO: MZ34-V373

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney

* Nose

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Lung

Alveolus
Interstitialium

Hyperplasia
Infiltration Cellular
Inflammation

Macrophage, Mild
Minimal
Chronic Active, Mild

Alveolus

Proteinosis

Mild

[Hyperplasia TGLS = 3-3]

* Lymph Node, Bronchial

Hyperplasia

Macrophage, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 374

TRT#: 9

SEX: Male

DAY ON TEST: 524

DOSE: 1.2MG/M3

DISP: Natural Death

HISTO: MZ34/V374

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Kidney	* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland	* Thymus
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OBSERVATIONS

* Liver		Necrosis	Minimal
Note: focal necrosis involves several lobules			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Mild
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Marked
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal
		Hyperplasia	Macrophage, Mild
* Lymph Node, Mediastinal		Hyperplasia	Lymphoid, Moderate
* Nose	Olfactory Epi	Atrophy	Minimal
* Preputial Gland		Ectasia	Moderate
		[Ectasia TGLS = 3-6]	
* Skin	Prepuce	Inflammation	Marked
Note: TGL"accumulation" = edema of cellulitis			
Note: ulcerative dermatitis w/ marked cellulitis			
		[Inflammation TGLS = 1-10,2-9]	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 374

TRT#: 9

SEX: Male

DAY ON TEST: 524

DOSE: 1.2MG/M3

DISP: Natural Death

HISTO: MZ34/V374

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: COD=cellulitis assoc.w/ preputial inflammation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 376

TRT#: 9

SEX: Male

DAY ON TEST: 469

DOSE: 1.2MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/V376

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Kidney	* Larynx	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Pancreas	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mediastinal	* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Mild
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitium	Infiltration Cellular	Minimal
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Marked
Lymph Node	Iliac	Hyperplasia	Plasma Cell, Moderate
[Hyperplasia TGLS = 4-10,6-4]			
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Mild
		Hyperplasia	Macrophage, Minimal
[Hyperplasia TGLS = 4-10,4-10,6-4,6-4]			
[Hyperplasia TGLS = 4-10,4-10,6-4,6-4]			
* Nose	Olfactory Epi	Atrophy	Minimal
* Preputial Gland		Ectasia	Mild
[Ectasia TGLS = 2-6]			
* Skin	Prepuce	Inflammation	Moderate
[Inflammation TGLS = 1-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 376

TRT#: 9

SEX: Male

DAY ON TEST: 469

DOSE: 1.2MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/V376

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CO/MSAC=ulcerative dermatitis on prepuce

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 377

TRT#: 9

SEX: Male

DAY ON TEST: 476

DOSE: 1.2MG/M3

DISP: Scheduled Sacrifice

HISTO: MZ34/V377

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Kidney	* Larynx	* Liver	* 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

* Lymph Node, Mandibular	* Mammary Gland
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INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Lung	Alveolar Epith Alveolus Interstitialium	Hyperplasia Hyperplasia Infiltration Cellular Inflammation	Moderate Macrophage, Moderate Mild Chronic Active, Mild
* Lymph Node, Bronchial	Alveolus	Proteinosis Hyperplasia Hyperplasia	Moderate Macrophage, Mild Lymphoid, Marked
[Hyperplasia TGLS = 5-4,5-4] [Hyperplasia TGLS = 5-4,5-4]			
* Preputial Gland		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Abscess	Marked
[Abscess TGLS = 1-10,2-9]			
Tissue NOS			
Note: TNOS=SKIN, SUBQ ABCESSES			
Urethra		Calculus Micro Observation Only	
[Calculus Micro Observation Only TGLS = 3-6]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 377

TRT#: 9

SEX: Male

DAY ON TEST: 476

DOSE: 1.2MG/M3

DISP: Scheduled Sacrifice

HISTO: MZ34/V377

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 378

TRT#: 9

SEX: Male

DAY ON TEST: 737

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V378

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Kidney	* Larynx	* 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
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal * Thymus

OBSERVATIONS

* Liver		Hepatocellular Adenoma	Multiple
[Hepatocellular Adenoma TGLS = 1,2,4-3,10,11]			
* Lung		Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Moderate
	Alveolus	Hyperplasia	Macrophage, Moderate
	Interstitium	Infiltration Cellular	Moderate
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Moderate
[Proteinosis TGLS = 7-4]			
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Moderate
		Hyperplasia	Macrophage, Minimal
[Hyperplasia TGLS = 6-4,6-4]			
[Hyperplasia TGLS = 6-4,6-4]			
* Nose	Olfactory Epi	Atrophy	Minimal
* Thyroid Gland	Follicular Cel	Adenoma	
Note: TGL is on slide 2a&2b			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 378

TRT#: 9

SEX: Male

DAY ON TEST: 737

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V378

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 5-2]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 379

TRT#: 9

SEX: Male

DAY ON TEST: 666

DOSE: 1.2MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/V379

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Lymph Node, Mesenteric
* Pancreas	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Intestine Large, Rectum	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland
* Parathyroid Gland			

OBSERVATIONS

* Intestine Small, Ileum [Hepatocellular Carcinoma TGLS = 2-5]		Hepatocellular Carcinoma	Metastatic (Liver)
* Kidney [Hepatocellular Carcinoma TGLS = 3-9,3]		Hepatoblastoma Hepatocellular Carcinoma	Metastatic (Liver) Metastatic (Liver)
* Liver Note: infarcts in tumor [Hepatocellular Carcinoma TGLS = 4-10,3]		Hepatoblastoma Hepatocellular Carcinoma	
* Lung Note: several met very spindloid, grow onto pleura Note: mets compromise grading of lesion [Hepatoblastoma TGLS = 7,8,9-4] [Hepatocellular Carcinoma TGLS = 7,8,9-4]	Alveolar Epith Alveolus Alveolus	Hepatoblastoma Hepatocellular Carcinoma Hyperplasia Hyperplasia Proteinosis	Metastatic (Liver) Metastatic (Liver) Mild Macrophage, Mild Mild
* Lymph Node, Bronchial		Hepatocellular Carcinoma	Metastatic (Uncertain Primary Site)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 379	TRT#: 9 DOSE: 1.2MG/M3	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 666 HISTO: MZ34/V379
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ORGAN AND ACCOUNTABLE SITE STATUS

[Hepatocellular Carcinoma TGLS = 10-4]			
* Nose	Olfactory Epi	Atrophy	Minimal
* Preputial Gland		Inflammation	Chronic, Moderate
[Inflammation TGLS = 1-6]			
* Stomach, Glandular		Degeneration	Moderate
* Thymus		Degeneration	Moderate

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=hydrothorax from liver CA mets to lung, thorax

Animal Note: cytoplasmic eosinophilic material,epithelium, focal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 380

TRT#: 9

SEX: Male

DAY ON TEST: 626

DOSE: 1.2MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/V380

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Larynx	* Liver	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Mammary Gland	* Spleen
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INSUFFICIENT TISSUE

* Lymph Node, Bronchial	* Lymph Node, Mediastinal
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OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Mild
	Interstitialium	Infiltration Cellular	Minimal
		Inflammation	Chronic Active, Mild
* Nose	Alveolus	Proteinosis	Marked
* Preputial Gland	Olfactory Epi	Atrophy	Mild
		Inflammation	Chronic, Moderate
Note: chronic inflam. w/cellulitis [Inflammation TGLS = 1-6]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=preputial gland inflam.w/cellulitis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 381

TRT#: 9

SEX: Male

DAY ON TEST: 740

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V381

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Intestine Large, Cecum	Lymphoid Tiss	Hyperplasia	Lymphoid, Moderate
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Marked
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitialium	Infiltration Cellular	Moderate
		Inflammation	Chronic Active, Moderate
	Alveolus	Proteinosis	Mild
[Hyperplasia TGLS = 2-4]			
[Hyperplasia TGLS = 2-4]			
[Hyperplasia TGLS = 2-4]			
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Marked
		Hyperplasia	Macrophage, Minimal
[Hyperplasia TGLS = 3-4,3-4]			
[Hyperplasia TGLS = 3-4,3-4]			
* Nose	Olfactory Epi	Atrophy	Minimal
* Spleen		Hyperplasia	Lymphoid, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 382

TRT#: 9

SEX: Male

DAY ON TEST: 740

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V382

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Kidney	* Larynx	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* 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

* Lung		Alveolar/Bronchiolar Carcinoma	
		Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Marked
	Interstitium	Infiltration Cellular	Moderate
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Moderate
Note: CaDX based on solid pattern & anaplasia			
[Alveolar/Bronchiolar Carcinoma TGLS = 4-9]			
[Hyperplasia TGLS = 5-4]			
[Hyperplasia TGLS = 5-4]			
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Minimal
		Hyperplasia	Lymphoid, Moderate
* Nose	Olfactory Epi	Atrophy	Minimal
* Preputial Gland		Ectasia	Moderate
[Ectasia TGLS = 1-6]			
* Spleen		Hyperplasia	Lymphoid, Minimal
Tooth		Inflammation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 382

TRT#: 9

SEX: Male

DAY ON TEST: 740

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V382

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 383

TRT#: 9

SEX: Male

DAY ON TEST: 737

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V383

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	* Islets, Pancreatic	* Kidney
* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* 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
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Moderate
* Liver		Hepatocellular Adenoma	
Note: 2 sections from same nodule			
[Hepatocellular Adenoma TGLS = 3-10]			
* Lung		Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Moderate
	Alveolus	Proteinosis	Moderate
[Hyperplasia TGLS = 4-9]			
[Hyperplasia TGLS = 4-9]			
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Marked
		Hyperplasia	Macrophage, Mild
* Nose	Olfactory Epi	Atrophy	Minimal
* Preputial Gland		Ectasia	Moderate
[Ectasia TGLS = 1-6]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 383

TRT#: 9

DOSE: 1.2MG/M3

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 737

HISTO: MZ34/V383

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 384

TRT#: 9

SEX: Male

DAY ON TEST: 737

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V384

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* 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

* Heart		Angiectasis	Mild
* Liver	Sinusoid	Cyst	
* Lung		Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Moderate
[Hyperplasia TGLS = 6-4]			
[Hyperplasia TGLS = 6-4]			
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
		Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 5-4,5-4]			
[Hyperplasia TGLS = 5-4,5-4]			
* Nose	Olfactory Epi	Atrophy	Minimal
	Olfactory Epi	Degeneration	Minimal
* Preputial Gland		Ectasia	Moderate
[Ectasia TGLS = 1-6]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 384

TRT#: 9

SEX: Male

DAY ON TEST: 737

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V384

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin

Fibrous Histiocytoma

Note: TNOS=skin

Note: DX based on pleocellular inf.,giant cells, collagen histeo.

[Fibrous Histiocytoma TGLS = 4-9]

Tissue NOS

Note: TNOS TGL 4= SKIN N.B.

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 385

TRT#: 9

SEX: Male

DAY ON TEST: 661

DOSE: 1.2MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/V385

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland	* Parathyroid Gland
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INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Kidney		Hydronephrosis Nephropathy	Mild Minimal
[Hydronephrosis TGLS = 6-3]			
* Liver		Hemangiosarcoma Hepatocellular Adenoma	
Note: hemsarc. DX=hyperplasia endothel. cell, rapid growth			
[Hemangiosarcoma TGLS = 4-10]			
[Hepatocellular Adenoma TGLS = 5-11]			
* Lung	Alveolar Epith Alveolus Bronchus Interstitial Alveolus	Hyperplasia Hyperplasia Hyperplasia Infiltration Cellular Inflammation Proteinosis	Mild Macrophage, Mild Lymphoid, Minimal Minimal Chronic Active, Mild Moderate
[Proteinosis TGLS = 8-4]			
* Lymph Node, Bronchial		Hyperplasia Hyperplasia	Macrophage, Mild Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 385	TRT#: 9 DOSE: 1.2MG/M3	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 661 HISTO: MZ34/V385
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ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Atrophy	Minimal
* Preputial Gland [Ectasia TGLS = 1-6]		Ectasia	Mild
* Skin Note: no ulceration of preputial skin [Hyperkeratosis TGLS = 9-9]	Prepuce	Hyperkeratosis	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Degeneration	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
Urethra Note: proteinaceous [Concretion TGLS = 3-12]		Concretion	Moderate

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=undetermined

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 386

TRT#: 9

SEX: Male

DAY ON TEST: 532

DOSE: 1.2MG/M3

DISP: Natural Death

HISTO: MZ34/V386

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Islets, Pancreatic
* Kidney	* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Liver		Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 2-9,3]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Interstitial	Infiltration Cellular	Minimal
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Moderate
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Moderate
		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mediastinal		Hyperplasia	Macrophage, Minimal
* Nose	Olfactory Epi	Atrophy	Mild
* Preputial Gland		Ectasia	Moderate
[Ectasia TGLS = 1-6]			
* Skin	Prepuce	Inflammation	Marked
Note: ulcerative dermatitis w/ cellulitis see over prep. gland			
* Thymus		Degeneration	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 386

TRT#: 9

SEX: Male

DAY ON TEST: 532

DOSE: 1.2MG/M3

DISP: Natural Death

HISTO: MZ34/V386

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

Animal Note: COD=hepatocellular carcinoma very large

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 387

TRT#: 9

SEX: Male

DAY ON TEST: 737

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V387

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Kidney	* Larynx	* 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
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INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Liver		Necrosis	Moderate
Note: TGLcaudate lobe=focus of massive liver necrosis			
[Necrosis TGLS = 3-9]			
* Lung		Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Moderate
	Alveolus	Hyperplasia	Macrophage, Marked
	Interstitial	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Moderate
[Hyperplasia TGLS = 6-4]			
[Hyperplasia TGLS = 6-4]			
[Proteinosis TGLS = 5-4]			
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal
		Hyperplasia	Macrophage, Mild
* Nose	Olfactory Epi	Atrophy	Minimal
		Inflammation	Acute, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 387	TRT#: 9 DOSE: 1.2MG/M3	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: MZ34/V387
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ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland [Ectasia TGLS = 1-6]		Ectasia	Marked
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: TGL"mes In red"=congestion,ectasia,not signif. lesion

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 388	TRT#: 11	SEX: Male	DAY ON TEST: 196
	DOSE: 1.2MG/M3LUNG TOX	DISP: Scheduled Sacrifice	HISTO: MZ34-V388

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Lung	Alveolus	Hyperplasia Inflammation	Macrophage, Minimal Chronic Active, Minimal
	Alveolus	Proteinosis	Minimal
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal
		Hyperplasia	Macrophage, Minimal
* Nose	Olfactory Epi	Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 389

TRT#: 9

SEX: Male

DAY ON TEST: 335

DOSE: 1.2MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/V389

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Kidney	* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea

MISSING

* Lymph Node, Mediastinal	* Mammary Gland	* Thymus
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OBSERVATIONS

* Liver		Atrophy	Moderate
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Minimal
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Marked
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal
		Hyperplasia	Macrophage, Mild
* Nose	Olfactory Epi	Atrophy	Minimal
		Foreign Body	Mild
Note: for. body=fractured tooth root, inflammation			
* Preputial Gland		Ectasia	Moderate
		[Ectasia TGLS = 1-6]	
* Spleen		Atrophy	Moderate
Urethra		Calculus Micro Observation Only	
Note: proteinaceous calculus			
		[Calculus Micro Observation Only TGLS = 3-9]	
* Urinary Bladder		Calculus Micro Observation Only	
		[Calculus Micro Observation Only TGLS = 2-5]	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 389

TRT#: 9

SEX: Male

DAY ON TEST: 335

DOSE: 1.2MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/V389

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CO/MSAC=undetermined?obstruction w/ cachexia

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 390

TRT#: 9

SEX: Male

DAY ON TEST: 476

DOSE: 1.2MG/M3

DISP: Scheduled Sacrifice

HISTO: MZ34/V390

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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, Mediastinal	* 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

* Gallbladder	* Mammary Gland	* Parathyroid Gland
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INSUFFICIENT TISSUE

* Larynx

OBSERVATIONS

* Bone	Femur	Hyperostosis	Mild
* Lung	Alveolar Epith	Hyperplasia	Moderate
	Alveolus	Hyperplasia	Macrophage, Mild
	Interstitialium	Infiltration Cellular	Minimal
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Moderate
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Mild
		Hyperplasia	Macrophage, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Nose	Olfactory Epi	Atrophy	Minimal
* Preputial Gland		Ectasia	Minimal

[Ectasia TGLS = 1-6]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 391

TRT#: 9

SEX: Male

DAY ON TEST: 737

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V391

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Larynx
* 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

* Intestine Large, Rectum	* Mammary Gland
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INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Lung		Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitium	Infiltration Cellular	Moderate
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Moderate
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal
		Hyperplasia	Macrophage, Mild
* Nose	Olfactory Epi	Atrophy	Minimal
* Preputial Gland		Ectasia	Moderate
[Ectasia TGLS = 1-6]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
Tooth		Developmental Malformation	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 391

TRT#: 9

SEX: Male

DAY ON TEST: 737

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V391

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 392	TRT#: 11	SEX: Male	DAY ON TEST: 196
	DOSE: 1.2MG/M3LUNG TOX	DISP: Scheduled Sacrifice	HISTO: MZ34-V392

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
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OBSERVATIONS

* Lung	Alveolus	Hyperplasia	Macrophage, Minimal
	Interstitium	Infiltration Cellular	Minimal
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Minimal
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal
		Hyperplasia	Macrophage, Minimal
	[Hyperplasia TGLS = 2-1]		
* Nose	Olfactory Epi	Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 393

TRT#: 9

SEX: Male

DAY ON TEST: 740

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V393

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Kidney	* Larynx	* Liver	* 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

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Lung		Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Marked
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Moderate
	[Hyperplasia TGLS = 3-4]		
	[Hyperplasia TGLS = 3-4]		
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Moderate
		Hyperplasia	Macrophage, Mild
* Nose	Olfactory Epi	Atrophy	Mild
		Inflammation	Acute, Moderate
* Preputial Gland		Inflammation	Chronic, Moderate
	Note: TGL=ectasia w/ rupture and inflammation		
	[Inflammation TGLS = 1-6]		
* Spleen		Hyperplasia	Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 393	TRT#: 9 DOSE: 1.2MG/M3	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 740 HISTO: MZ34/V393
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ORGAN AND ACCOUNTABLE SITE STATUS	
Tooth	Odontoma

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 394

TRT#: 9

SEX: Male

DAY ON TEST: 713

DOSE: 1.2MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/V394

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	* Islets, Pancreatic	* Larynx
* Lymph Node, Mandibular	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
Coagulating Gland	Interstitium	Granular Cell Tumor Nos	
Note: special stains don't support granular cell DX			
Note: PAS & MASSONS + IN STROMA ONLY, NOT CYTOPLASM			
Note: Granular cell morph.=karbe in ILSI Genital Sys.'87p282			
[Granular Cell Tumor Nos TGLS = 6-9,6]			
* Kidney	Renal Tubule	Atrophy	Marked
	Cortex	Fibrosis	Mild
		Nephropathy	Minimal
[Atrophy TGLS = 4,5-3]			
[Fibrosis TGLS = 3-10]			
* Liver		Hepatocellular Carcinoma	
		Pigmentation	Hemosiderin, Moderate
Note: pigment in macrophages			
Note: infarcted foci in carcinoma			
[Hepatocellular Carcinoma TGLS = 2-11,3]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Interstitium	Infiltration Cellular	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 394	TRT#: 9 DOSE: 1.2MG/M3	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 713 HISTO: MZ34/V394
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ORGAN AND ACCOUNTABLE SITE STATUS

	Alveolus	Inflammation Proteinosis	Chronic Active, Moderate Mild
	[Inflammation TGLS = 11-4] [Proteinosis TGLS = 10-4]		
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Mild
	[Hyperplasia TGLS = 9-4]		
* Lymph Node, Mesenteric		Hemangioma	
* Nose	Olfactory Epi	Atrophy	Minimal
* Preputial Gland		Ectasia	Mild
	[Ectasia TGLS = 1-6]		
* Sem Ves			
Note: SV devoid of secretions, no considered lesion			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Testes		Atrophy	Moderate
	[Atrophy TGLS = 8-6]		
* Thymus		Degeneration	Moderate

PRIMARY CAUSE OF DEATH -

Animal Note: CO/MSAC=hepatocellular CA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 395

TRT#: 9

SEX: Male

DAY ON TEST: 539

DOSE: 1.2MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/V395

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Urinary Bladder

MISSING

* Mammary Gland	* Thymus	* Trachea
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OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
* Liver		Hepatocellular Carcinoma	
Note: DX based on pattern & cytology [Hepatocellular Carcinoma TGLS = 8-9]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Mild
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Moderate
Lymph Node	Inguinal	Hyperplasia	Lymphoid, Marked
[Hyperplasia TGLS = 5-11]			
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Mild
		Hyperplasia	Macrophage, Mild
[Hyperplasia TGLS = 5-11,5-11]			
[Hyperplasia TGLS = 5-11,5-11]			
Penis		Inflammation	Marked
[Inflammation TGLS = 4-10]			
* Preputial Gland		Inflammation	Chronic, Moderate
[Inflammation TGLS = 2-6,3-6]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 395	TRT#: 9 DOSE: 1.2MG/M3	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 539 HISTO: MZ34/V395
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ORGAN AND ACCOUNTABLE SITE STATUS

* Skin Note: ulcerative dermatitis & cellulitis [Inflammation TGLS = 1-12]	Prepuce	Inflammation	Marked
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=preputial lesion

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 396

TRT#: 9

SEX: Male

DAY ON TEST: 737

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V396

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Kidney	* Larynx	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland	* Pituitary Gland
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INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Lung		Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Interstitial	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Marked
	[Proteinosis TGLS = 5-4]		
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
		Hyperplasia	Lymphoid, Mild
	[Hyperplasia TGLS = 4-4,4-4]		
	[Hyperplasia TGLS = 4-4,4-4]		
* Nose	Olfactory Epi	Atrophy	Minimal
	Olfactory Epi	Degeneration	Minimal
* Preputial Gland		Ectasia	Mild
	Note: TGL"pigment"=not signif. lesion		
	[Ectasia TGLS = 1-6]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 396

TRT#: 9

SEX: Male

DAY ON TEST: 737

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V396

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

Follicular Cel

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 397

TRT#: 9

SEX: Male

DAY ON TEST: 740

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V397

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Kidney	* Larynx	* Liver	* 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

* Mammary Gland

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Lung		Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Moderate
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Moderate
	Alveolus	Proteinosis	Moderate
	[Proteinosis TGLS = 4-4]		
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Marked
	[Hyperplasia TGLS = 3-4]		
* Nose	Olfactory Epi	Atrophy	Minimal
* Preputial GI			

Note: TGL "pigment" not considered signif. lesion

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 398

TRT#: 9

SEX: Male

DAY ON TEST: 676

DOSE: 1.2MG/M3

DISP: Natural Death

HISTO: MZ34/V398

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Esophagus * Heart

MISSING

* Mammary Gland * Trachea

AUTO PRECLUDES DIAG.

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

OBSERVATIONS

* Lung
Note: no lung tumors

* Preputial Gland Ectasia Moderate
[Ectasia TGLS = 1-6]

PRIMARY CAUSE OF DEATH -

Animal Note: TOO AUTOLYTIC< lost to followup

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 399

TRT#: 9

SEX: Male

DAY ON TEST: 118

DOSE: 1.2MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/V399

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Larynx	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Brain	Medulla	Degeneration	Focal, Mild
* Lung	Alveolus	Fibrosis	Minimal
	Interstitialium	Hyperplasia	Macrophage, Minimal
		Infiltration Cellular	Minimal
		Inflammation	Chronic Active, Mild
* Spleen		Hyperplasia	Lymphoid, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=undetermined,probably focal leukomalacia

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 400

TRT#: 9

SEX: Male

DAY ON TEST: 737

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V400

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Kidney
* Larynx	* Liver	* Lymph Node, Mandibular	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Intestine Large, Rectum	* Lymph Node, Mediastinal	* Mammary Gland	* Pituitary Gland
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OBSERVATIONS

* Lung		Alveolar/Bronchiolar Carcinoma	
	Alveolar Epith	Hyperplasia	Moderate
	Alveolus	Hyperplasia	Macrophage, Mild
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Marked
Note: CaDX based on anaplasia & infiltration of interstitium			
[Alveolar/Bronchiolar Carcinoma TGLS = 5-9]			
[Proteinosis TGLS = 4-4]			
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Mild
		Hyperplasia	Macrophage, Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Nose	Olfactory Epi	Atrophy	Minimal
* Pituitary Gl			
Note: not in recuts			
Note: not in residual wet tissue			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 400	TRT#: 9 DOSE: 1.2MG/M3	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 737 HISTO: MZ34/V400
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ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland [Ectasia TGLS = 1-6]		Ectasia	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 81

TRT#: 2

SEX: Female

DAY ON TEST: 598

DOSE: 0.0MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/T081

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Esophagus	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Larynx	* Liver
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Clitoral Gland	* Intestine Large, Rectum	* Lymph Node, Mediastinal
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OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
* Lung	Bronchus	Hyperplasia	Lymphoid, Minimal
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal
[Hyperplasia TGLS = 2-6]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Marked
[Hyperplasia TGLS = 2-6]			
* Skin	Pinna	Fibrosarcoma	
[Fibrosarcoma TGLS = 1-9]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[Hematopoietic Cell Proliferation TGLS = 4-3]			
* Uterus		Cyst	
[Cyst TGLS = 3-10]			

PRIMARY CAUSE OF DEATH

-

Animal Note: ear affected is right

Animal Note: CO/MSAC=fibrosarcoma of the ear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 83

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T083

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Larynx	* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Kidney		Infiltration Cellular	Lymphocyte, Mild
* Lung	Bronchus	Hyperplasia	Lymphoid, Mild
* Spleen		Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 1-3]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 84

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T084

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx	* Liver	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mediastinal
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OBSERVATIONS

* Lung	Bronchus Interstitialium	Hyperplasia Infiltration Cellular	Lymphoid, Minimal Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Mild
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-8]			
* Spleen		Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 1-3]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Mild
[Hyperplasia TGLS = 2-6,9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 85

TRT#: 2

SEX: Female

DAY ON TEST: 645

DOSE: 0.0MG/M3

DISP: Natural Death

HISTO: MZ34/T085

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|---------------------------|---------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Larynx | * Lymph Node, Mediastinal | * Mammary Gland |
| * Nose | * Ovary | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

- * Lymph Node, Mesenteric

AUTO PRECLUDES DIAG.

- * Gallbladder
- * Intestine Small, Duodenum

OBSERVATIONS

- | | | |
|----------|--------------------------|------------------|
| * Bone | Inflammation | Mild |
| * Kidney | Infarct | Moderate |
| | Infiltration Cellular | Lymphocyte, Mild |
| * Liver | Angiectasis | Mild |
| | Hepatocellular Carcinoma | |
| | Necrosis | Moderate |

Note: CA DX based on pattern

Note: necrosis has focal to massive distribution

[Hepatocellular Carcinoma TGLS = 5-9,3]

- | | | | |
|--------------------------|----------|----------------------------------|--------------------|
| * Lung | Bronchus | Hyperplasia | Lymphoid, Mild |
| * Lymph Node, Bronchial | | Hyperplasia | Lymphoid, Mild |
| * Lymph Node, Mandibular | | Hyperplasia | Lymphoid, Moderate |
| * Pancreas | | Infiltration Cellular | Lymphocyte, Mild |
| * Spleen | | Hematopoietic Cell Proliferation | Moderate |

[Hematopoietic Cell Proliferation TGLS = 3-3]

- * Uterus

Note: TGL=dilation w/ fluid, not considered lesion

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 85

TRT#: 2

SEX: Female

DAY ON TEST: 645

DOSE: 0.0MG/M3

DISP: Natural Death

HISTO: MZ34/T085

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

Animal Note: renal infarct contributed immediate COD

Animal Note: COD=hepatocellular carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 86

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T086

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mediastinal	* Parathyroid Gland
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OBSERVATIONS

* Liver		Infiltration Cellular	Lymphocyte, Moderate
* Lung	Bronchus	Hyperplasia	Lymphoid, Mild
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal
[Hyperplasia TGLS = 1-6]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 1-6]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-8]			
* Spleen		Hyperplasia	Lymphoid, Marked
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Mild
[Hyperplasia TGLS = 2-6,9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 87

TRT#: 2

SEX: Female

DAY ON TEST: 694

DOSE: 0.0MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/T087

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx	* Lymph Node, Bronchial	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Liver		Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 4-3]			
* Lung	Bronchus	Hepatocellular Carcinoma	Metastatic (Liver)
[Hepatocellular Carcinoma TGLS = 6-10,11,4]		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 1-6]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Uterus		Cyst	
[Cyst TGLS = 2-12]			

PRIMARY CAUSE OF DEATH -

Animal Note: CO/MSAC=metastasizing hepatocellular Ca

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 88

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T088

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Larynx	* Liver
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
* Islets, Pancreatic		Carcinoma	
[Carcinoma TGLS = 4-12]			
* Kidney		Adenocarcinoma	Metastatic (Mammary Gland)
[Adenocarcinoma TGLS = 6-3]			
* Lung	Bronchus	Adenocarcinoma	Metastatic (Mammary Gland)
	Interstitium	Hyperplasia	Lymphoid, Minimal
		Infiltration Cellular	Minimal
[Adenocarcinoma TGLS = 9-11]			
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 8-4,2-6]			
* Lymph Node, Mandibular		Hyperplasia	Plasma Cell, Moderate
[Hyperplasia TGLS = 8-4,2-6]			
* Mammary Gland		Adenocarcinoma	
[Adenocarcinoma TGLS = 1-9]			
Mesentery		Carcinoma	Metastatic (Islets, Pancreatic)
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
Note: spleen on slide 10			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 88	TRT#: 2 DOSE: 0.0MG/M3	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO: MZ34/T088
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ORGAN AND ACCOUNTABLE SITE STATUS

[Hematopoietic Cell Proliferation TGLS = 3-10]

* Thyroid Gland Tissue NOS	Follicular Cel	Hyperplasia	Minimal
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Note: TNOS=mammary adenocarcinoma, see MAMMARY GL

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 89

TRT#: 2

SEX: Female

DAY ON TEST: 691

DOSE: 0.0MG/M3

DISP: Natural Death

HISTO: MZ34/T089

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Larynx	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Uterus	

MISSING

* Lymph Node, Mediastinal	* Parathyroid Gland
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OBSERVATIONS

* Gallbladder	Epithelium	Hyperplasia	Moderate
[Hyperplasia TGLS = 6-3]			
* Liver		Hepatocellular Adenoma Hepatocellular Carcinoma	Multiple
Note: TGL "cyst" = infarcted focus of carcinoma			
[Hepatocellular Adenoma TGLS = 2,3-9,10]			
[Hepatocellular Carcinoma TGLS = 4-3,5-11]			
* Lung	Bronchus	Hepatocellular Carcinoma Hyperplasia	Metastatic (Liver) Lymphoid, Mild
[Hepatocellular Carcinoma TGLS = 7-4,12]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLS = 1-3]			
* Thyroid Gland	Follicular Cel Follicular Cel	Adenoma Hyperplasia	Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Moderate

PRIMARY CAUSE OF DEATH

-

Animal Note: COD=metastasizing hepatocellular Ca

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 91

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T091

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Larynx	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Lung	Bronchus	Hyperplasia	Lymphoid, Mild
	Interstitium	Infiltration Cellular	Minimal
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 1-4]			
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Hyperplasia	Lymphoid, Mild
Tooth		Inflammation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 92	TRT#: 4	SEX: Female	DAY ON TEST: 197
	DOSE: 0.0MG/M3LUNG TOX	DISP: Scheduled Sacrifice	HISTO: MZ34-T092

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL			
* Kidney	* Lung	* Lymph Node, Bronchial	

MISSING			
* Lymph Node, Mediastinal			

OBSERVATIONS			
* Lymph Node, Mandibular [Hyperplasia TGLS = 1-5]		Hyperplasia	Lymphoid, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal

PRIMARY CAUSE OF DEATH	-		
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 93

TRT#: 2

SEX: Female

DAY ON TEST: 727

DOSE: 0.0MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/T093

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Islets, Pancreatic	* Larynx
* Mammary Gland	* Ovary	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Bone Marrow		Inflammation	Moderate
Ear			
Note: TGL"ear" see SKIN			
Note: TGL"mass"=ulcerativew dermatitis			
* Heart		Inflammation	Moderate
* Intestine Small, Duodenum		Atrophy	Moderate
* Intestine Small, Ileum		Atrophy	Moderate
* Intestine Small, Jejunum		Atrophy	Moderate
* Kidney		Inflammation	Marked
Note: papillary necrosis			
Note: interstitial nephritis, cortical abscesses			
[Inflammation TGLS = 6,7,8-3,10]			
* Liver		Inflammation	Marked
Note: chronic granulomatous			
[Inflammation TGLS = 3-3]			
* Lung	Interstitialium	Inflammation	Mild
Lymph Node	Inguinal	Inflammation	Marked
[Inflammation TGLS = 4-5]			
* Lymph Node, Bronchial		Inflammation	Moderate
[Inflammation TGLS = 4-5]			
* Lymph Node, Mandibular		Inflammation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:54
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 93	TRT#: 2 DOSE: 0.0MG/M3	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 727 HISTO: MZ34/T093
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ORGAN AND ACCOUNTABLE SITE STATUS

[Inflammation TGLS = 4-5] * Lymph Node, Mesenteric		Inflammation	Marked
[Inflammation TGLS = 4-5] * Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas		Atrophy	Focal, Moderate
* Skin Note: ulcerative dermatitis	Pinna	Inflammation	Marked
[Inflammation TGLS = 1-9] * Spleen		Inflammation	Marked
Note: chronic granulomatous [Inflammation TGLS = 2-3] * Thyroid Gland	Follicular Cel	Hyperplasia	Marked
* Uterus [Abscess TGLS = 5-11]		Abscess	Moderate

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=disseminated granulomatous inflammation
Animal Note: cause of inflammation untetermined
Animal Note: villus atrophy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:54

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 96

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T096

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx
* Liver	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Bone	Femur	Hyperostosis	
* Kidney		Infiltration Cellular	Lymphocyte, Mild
* Lung	Interstitium	Infiltration Cellular	Minimal
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Marked
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
[Hyperplasia TGLS = 1-8]			
* Spleen		Hyperplasia	Lymphoid, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 97

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T097

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Lung	Bronchus	Hyperplasia	Lymphoid, Mild
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Mild
* Spleen		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hemangioma	
		Hyperplasia	Marked
	[Hemangioma TGLS = 2-9]		
	[Hyperplasia TGLS = 1-10]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 98

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T098

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Larynx	* Liver	* Lymph Node, Bronchial	* 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

* Lymph Node, Mediastinal

OBSERVATIONS

* Intestine Large, Cecum	Lymphoid Tiss	Hyperplasia	Lymphoid, Mild
* Lung	Bronchus	Hyperplasia	Lymphoid, Mild
* Nose	Olfactory Epi	Degeneration	Minimal
* Spleen		Hyperplasia	Lymphoid, Mild
* Uterus	Endometrium	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: enlarged MED LN not in block or residual tissues

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 99

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T099

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

Ear		Inflammation	Moderate
Note: CHRONIC INFLAM./OSSEOUS METAPLASIA&HYPERKERATOSIS			
[Inflammation TGLS = 1-14]			
* Intestine Small, Jejunum		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 7-13]			
* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	Multiple
[Hepatocellular Adenoma TGLS = 3-9,4-15]			
* Lung	Interstitialium	Infiltration Cellular	Mild
* Lymph Node, Mesenteric		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 6-12]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
[Lymphoma Malignant TGLS = 5-11]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 100

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T100

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mediastinal

INSUFFICIENT TISSUE

* Larynx

OBSERVATIONS

* Liver		Hepatocellular Adenoma Hepatocellular Carcinoma	
	[Hepatocellular Adenoma TGLS = 2-3] [Hepatocellular Carcinoma TGLS = 1-9,10]		
* Lung		Alveolar/Bronchiolar Carcinoma Hepatocellular Carcinoma Hyperplasia Infiltration Cellular	Metastatic (Uncertain Primary Site) Macrophage, Mild Mild
	Alveolus Interstitialium		
	Note: CaDX based on anaplasia&apparent rapid growth w/ necrosis Note: METS IN VESSELS ALSO [Alveolar/Bronchiolar Carcinoma TGLS = 5-4] [Hepatocellular Carcinoma TGLS = 6-4]		
* Spleen		Hematopoietic Cell Proliferation	Marked
	[Hematopoietic Cell Proliferation TGLS = 4-3]		
* Thymus		Degeneration	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 100

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T100

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 101

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T101

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Larynx	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Kidney		Infiltration Cellular	Lymphocyte, Mild
* Liver		Hepatocellular Carcinoma	
		Infiltration Cellular	Lymphocyte, Mild
Note: CaDX based on anaplasia			
[Hepatocellular Carcinoma TGLS = 1-9]			
* Lung	Interstitialium	Infiltration Cellular	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus		Histiocytic Sarcoma	
	Endometrium	Hyperplasia	Mild
[Histiocytic Sarcoma TGLS = 3-6]			
[Hyperplasia TGLS = 2-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 102

TRT#: 2

SEX: Female

DAY ON TEST: 649

DOSE: 0.0MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/T102

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Larynx
* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
Ear			
Note: TGL"ear" see SKIN, PINNA			
* Kidney		Infiltration Cellular	Lymphocyte, Mild
* Lung	Bronchus	Hyperplasia	Lymphoid, Mild
* Nose	Olfactory Epi	Degeneration	Minimal
* Skin	Pinna	Inflammation	Marked
Note: chronic ulcerative dermatitis			
[Inflammation TGLS = 1-9]			
Spinal Cord		Degeneration	Mild
Note: classified as radiculoneuropathy			
Note: axonal swelling w/ demyelin., vac macs, pmns			
* Uterus		Cyst	
[Cyst TGLS = 3-6]			

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=radiculoneuropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 104

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T104

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Esophagus	* Intestine Large, Rectum	* Larynx
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OBSERVATIONS

* Brain			
Note: compression didn't cause visible degenerative lesions			
* Lung		Alveolar/Bronchiolar Carcinoma	
	Bronchus	Hyperplasia	Lymphoid, Mild
Note: CaDX based on anaplasia & loss of architecture			
[Alveolar/Bronchiolar Carcinoma TGLS = 3-11]			
* Mammary Gland		Hyperplasia	Moderate
* Nose	Olfactory Epi	Degeneration	Minimal
* Pancreas	Acinus	Atrophy	Marked
Note: only part of pancreAS involved			
[Atrophy TGLS = 1-12]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-9]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicular Cel	Carcinoma	
[Carcinoma TGLS = 4-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 105

TRT#: 2
DOSE: 0.0MG/M3

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 733
HISTO: MZ34/T105

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx	* Liver	* Lymph Node, Bronchial
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Lung		Alveolar/Bronchiolar Adenoma Hyperplasia	Lymphoid, Mild
	Bronchus		
	Note: TGL 4 thought to be slide 5 by lobe outline		
	Note: recuts do not show second nodule		
	Note: ADEMOMA DX based on piling up of cells		
	[Alveolar/Bronchiolar Adenoma TGLS = 4-5]		
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
	[Hyperplasia TGLS = 1-5]		
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
	[Hyperplasia TGLS = 1-5]		
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
	[Hyperplasia TGLS = 6-8]		
* Spleen		Hyperplasia	Lymphoid, Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 106

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T106

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Larynx
* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Clitoral Gland

OBSERVATIONS

* Kidney [Nephropathy TGLS = 4-3]		Nephropathy	Moderate
* Liver [Hepatocellular Carcinoma TGLS = 3-10]		Hepatocellular Carcinoma	
* Lung Lymph Node [Hemangiosarcoma TGLS = 5-11]	Interstitium Iliac	Infiltration Cellular Hemangiosarcoma	Mild
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Pituitary Gland Note: fatty cyst w/ cholesterol		Cyst	
* Spleen [Hematopoietic Cell Proliferation TGLS = 1-9]		Hematopoietic Cell Proliferation	Marked
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus Note: does not look malign., may be in other area of mass Note: Looks like angiomatosis (EULEP pathology atlas) [Angiectasis TGLS = 2-12]		Angiectasis	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 106

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T106

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: Hemsarc may have come from uterus, area not on slide12

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 108

TRT#: 2

SEX: Female

DAY ON TEST: 419

DOSE: 0.0MG/M3

DISP: Natural Death

HISTO: MZ34/T108

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Esophagus	* Gallbladder	* Heart	* Intestine Large, Colon
* Intestine Large, Rectum	* Islets, Pancreatic	* Larynx	* Lung
* Lymph Node, Mandibular	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

AUTO PRECLUDES DIAG.

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

* Bone Marrow	Histiocytic Sarcoma	Metastatic (Uterus)
* Clitoral Gland	Ectasia	Mild
* Kidney	Histiocytic Sarcoma	Metastatic (Uterus)
* Liver	Histiocytic Sarcoma	Metastatic (Uterus)
[Histiocytic Sarcoma TGLS = 9-11,10-3,11-9,10]		
Lymph Node	Renal	Histiocytic Sarcoma
[Histiocytic Sarcoma TGLS = 3-5,7-14,13-4]		Metastatic (Uterus)
* Lymph Node, Bronchial	Histiocytic Sarcoma	Metastatic (Uterus)
[Histiocytic Sarcoma TGLS = 3-5,7-14,13-4]		
* Lymph Node, Mediastinal	Histiocytic Sarcoma	Metastatic (Uterus)
[Histiocytic Sarcoma TGLS = 3-5,7-14,13-4]		
* Lymph Node, Mesenteric	Histiocytic Sarcoma	Metastatic (Uterus)
[Histiocytic Sarcoma TGLS = 3-5,7-14,13-4]		
* Ovary	Histiocytic Sarcoma	Metastatic (Uterus)
[Histiocytic Sarcoma TGLS = 4-6,5-6]		
* Skin	Inflammation	Mild
Note: mild inflammation w/ mast cells and edema		
[Inflammation TGLS = 1-6,13]		
* Spleen	Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 108

TRT#: 2
DOSE: 0.0MG/M3

SEX: Female
DISP: Natural Death

DAY ON TEST: 419
HISTO: MZ34/T108

ORGAN AND ACCOUNTABLE SITE STATUS

[Hematopoietic Cell Proliferation TGLS = 2-3] [Histiocytic Sarcoma TGLS = 2-3]	Histiocytic Sarcoma	Metastatic (Uterus)
* Thymus * Uterus Note: uterus primary because of tumor size [Histiocytic Sarcoma TGLS = 6-12,6]	Degeneration Histiocytic Sarcoma	Moderate

PRIMARY CAUSE OF DEATH -

Animal Note: COD=histiocytic sarcoma w/ widespread metastasis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 109

TRT#: 2

SEX: Female

DAY ON TEST: 683

DOSE: 0.0MG/M3

DISP: Natural Death

HISTO: MZ34/T109

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Larynx	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Kidney		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
[Alveolar/Bronchiolar Carcinoma TGLS = 5-3]			
* Liver		Hepatocellular Adenoma Hepatocellular Carcinoma Infarct	Marked
Note: infarct=entire median lobe			
[Hepatocellular Adenoma TGLS = 3-3]			
[Hepatocellular Carcinoma TGLS = 1,2=3,11]			
[Infarct TGLS = 4-12]			
* Lung		Alveolar/Bronchiolar Adenoma Alveolar/Bronchiolar Carcinoma Hyperplasia	Lymphoid, Mild
	Bronchus		
[Alveolar/Bronchiolar Adenoma TGLS = 7-9]			
[Alveolar/Bronchiolar Carcinoma TGLS = 6-4]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Skeletal Muscle		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
Note: met to intracostal muscles			
[Alveolar/Bronchiolar Carcinoma TGLS = 9-10]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 109	TRT#: 2 DOSE: 0.0MG/M3	SEX: Female DISP: Natural Death	DAY ON TEST: 683 HISTO: MZ34/T109
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ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Degeneration	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
Tissue NOS			

Note: TNOS=skeletal muscle, intracostals

PRIMARY CAUSE OF DEATH -

Animal Note: COD=hepatocellular Ca&tublular cell Ca w/ mets ot lung

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 110

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T110

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Larynx	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea

MISSING

* Lymph Node, Mediastinal

INSUFFICIENT TISSUE

* Lymph Node, Bronchial * Urinary Bladder

OBSERVATIONS

* Bone	Femur	Hyperostosis	
* Lung	Bronchus	Hyperplasia	Lymphoid, Mild
* Nose	Olfactory Epi	Degeneration	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Mild

[Hyperplasia TGLS = 1-6,9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 112

TRT#: 2

DOSE: 0.0MG/M3

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 696

HISTO: MZ34/T112

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx
* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Urinary Bladder	

MISSING

* Clitoral Gland	* Trachea
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OBSERVATIONS

* Bone	Femur	Hyperostosis	
Note: much inflammation but part of spectrum of HYPEROSTOSIS			
Eye		Cataract	Moderate
[Cataract TGLS = 1-11]			
Harderian Gland		Adenoma	
[Adenoma TGLS = 7-9]			
* Liver		Hepatocellular Carcinoma	
Note: DX based on pattern			
[Hepatocellular Carcinoma TGLS = 6-3]			
* Lung	Bronchus	Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Marked
[Hyperplasia TGLS = 3-6]			
* Skin		Inflammation	Marked
Note: skin of eye			
[Inflammation TGLS = 2-11]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
Note: observation on slide 3a			
[Hematopoietic Cell Proliferation TGLS = 5-3]			
* Uterus		Cyst	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 112

TRT#: 2

SEX: Female

DAY ON TEST: 696

DOSE: 0.0MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/T112

ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst TGLS = 4-10]

PRIMARY CAUSE OF DEATH

-

Animal Note: lymphectasia assoc w/ hyperplasia

Animal Note: CO/MSAC=harderian gland tumor

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 113

TRT#: 4

SEX: Female

DAY ON TEST: 477

DOSE: 0.0MG/M3LUNG TOX

DISP: Scheduled Sacrifice

HISTO: MZ34/T113

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Larynx	* Lung
* Lymph Node, Bronchial	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Intestine Large, Rectum	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
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OBSERVATIONS

* Clitoral Gland		Ectasia	Mild
* Intestine Small, Ileum		Hyperplasia	Lymphoid, Moderate
* Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 2-10]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Uterus	Endometrium	Hyperplasia	Mild
[Hyperplasia TGLS = 1-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 114

TRT#: 2

SEX: Female

DAY ON TEST: 679

DOSE: 0.0MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/T114

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic
* Larynx	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Lymphoma Malignant
* Bone Marrow		Lymphoma Malignant
* Heart	Atrium	Thrombosis
* Intestine Small, Jejunum		Lymphoma Malignant
* Kidney		Lymphoma Malignant
* Liver		Lymphoma Malignant
[Lymphoma Malignant TGLS = 12-3]		
* Lung		Lymphoma Malignant
Note: infiltrates around airways, vessels, in capillaries		
[Lymphoma Malignant TGLS = 18-4]		
Lymph Node	Axillary	Lymphoma Malignant
	Iliac	Lymphoma Malignant
	Inguinal	Lymphoma Malignant
	Pancreatic	Lymphoma Malignant
	Renal	Lymphoma Malignant
[Lymphoma Malignant TGLS = 1-9,2-10,8-13,13-12,11-14,15-2,6-11,4,5-6,17-4,10-]		
[Lymphoma Malignant TGLS = 1-9,2-10,8-13,13-12,11-14,15-2,6-11,4,5-6,17-4,10-]		
[Lymphoma Malignant TGLS = 1-9,2-10,8-13,13-12,11-14,15-2,6-11,4,5-6,17-4,10-]		
[Lymphoma Malignant TGLS = 1-9,2-10,8-13,13-12,11-14,15-2,6-11,4,5-6,17-4,10-]		
[Lymphoma Malignant TGLS = 1-9,2-10,8-13,13-12,11-14,15-2,6-11,4,5-6,17-4,10-]		
* Lymph Node, Bronchial		Lymphoma Malignant
[Lymphoma Malignant TGLS = 1-9,2-10,8-13,11-14,15-2,6-11,4,5-6,17-4,10-5,13-1]		
* Lymph Node, Mandibular		Lymphoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 114

TRT#: 2

SEX: Female

DAY ON TEST: 679

DOSE: 0.0MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/T114

ORGAN AND ACCOUNTABLE SITE STATUS

[Lymphoma Malignant TGLS = 1-9,2-10,8-13,13-12,11-14,15-2,6-11,4,5-6,17-4,10-]			
* Lymph Node, Mediastinal		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 1-9,2-10,8-13,13-12,11-14,15-2,6-11,4,5-6,17-4,10-]			
* Lymph Node, Mesenteric		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 1-9,2-10,8-13,13-12,11-14,15-2,6-11,4,5-6,17-4,10-]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Ovary		Lymphoma Malignant	
* Salivary Glands		Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 7-3]			
* Thymus		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 16-2]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

Animal Note: TGL"lesion"not found

Animal Note: CO/MSAC=widespead lymphoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 115

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T115

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* 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	* Larynx
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Adrenal Cortex [Adenoma TGLS = 4-8]		Adenoma	
* Bone	Femur	Hyperostosis	
* Liver Note: third adenoma on slide 3 [Hepatocellular Adenoma TGLS = 5,6-9,10]		Hepatocellular Adenoma	Multiple
* Lung	Bronchus	Hyperplasia	Lymphoid, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Ovary Note: paraovarian cyst [Cyst TGLS = 3-6]		Cyst	
* Spleen		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 116

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T116

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx	* 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	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mediastinal

INSUFFICIENT TISSUE

* Lymph Node, Bronchial

OBSERVATIONS

* Nose	Olfactory Epi	Degeneration	Minimal
* Thyroid Gland	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 117

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T117

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Liver	* Lymph Node, Mandibular	* Mammary Gland	* Ovary
* Pancreas	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Intestine Large, Rectum	* Lymph Node, Mediastinal	* Parathyroid Gland
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INSUFFICIENT TISSUE

* Lymph Node, Bronchial

OBSERVATIONS

* Brain			
Note: pressure of pit.tumor did not cause degenerative lesions			
* Kidney		Nephropathy	Mild
* Lung		Alveolar/Bronchiolar Carcinoma	
	Alveolus	Hyperplasia	Macrophage, Minimal
	Interstitialium	Infiltration Cellular	Minimal
Note: CaDX based on anaplasia			
	[Alveolar/Bronchiolar Carcinoma TGLS = 5-11]		
Lymph Node	Renal	Lymphoma Malignant	
	[Lymphoma Malignant TGLS = 3-12,2-9]		
* Lymph Node, Mesenteric		Lymphoma Malignant	
	[Lymphoma Malignant TGLS = 3-12,2-9]		
* Nose	Olfactory Epi	Degeneration	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 6-10]		
Tooth		Inflammation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 117

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T117

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 118

TRT#: 2

DOSE: 0.0MG/M3

SEX: Female

DISP: Natural Death

DAY ON TEST: 723

HISTO: MZ34/T118

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Bone		Hyperostosis	
* Heart	Atrium	Thrombosis	
	[Thrombosis TGLS = 5-3]		
* Liver		Hepatocellular Adenoma	Multiple
	[Hepatocellular Adenoma TGLS = 4-9]	Hepatocellular Carcinoma	
	[Hepatocellular Carcinoma TGLS = 3-10]		
* Lung	Alveolus	Hyperplasia	Macrophage, Marked
	Interstitium	Infiltration Cellular	Minimal
		Inflammation	Chronic Active, Mild
* Mammary Gland		Hyperplasia	Cystic, Mild
* Ovary		Cystadenoma	
	[Cystadenoma TGLS = 1-6]		
* Pancreas		Atrophy	Focal, Marked
	Note: atrophy resulted in dilation of ducts = TGL "cysts"		
	[Atrophy TGLS = 2-5]		
* Pituitary Gland		Angiectasis	Mild
* Spleen	Lymph Follic	Atrophy	Moderate
* Thymus		Degeneration	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 118

TRT#: 2

SEX: Female

DAY ON TEST: 723

DOSE: 0.0MG/M3

DISP: Natural Death

HISTO: MZ34/T118

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

Animal Note: COD/probably liver tumors

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 119

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T119

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx	* Liver	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Lung	Interstitial	Infiltration Cellular	Minimal
* Mammary Gland		Hyperplasia	Mild
* Ovary		Cystadenoma	
[Cystadenoma TGLS = 1-9]			
* Pituitary Gland		Angiectasis	Mild
[Angiectasis TGLS = 3-8]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 120

TRT#: 2

SEX: Female

DAY ON TEST: 603

DOSE: 0.0MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/T120

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Intestine Large, Rectum	* Lymph Node, Mediastinal
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OBSERVATIONS

* Liver		Hepatocellular Carcinoma Inflammation	Minimal
Note: CaDX based on pattern			
Note: inflam relation to TGL"red foci" is ??			
Note: inflam is small foci of neutrophils			
[Hepatocellular Carcinoma TGLS = 1-3]			
[Inflammation TGLS = 2,3-3,9]			
* Lung	Bronchus	Hyperplasia	Lymphoid, Minimal
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Mild
* Nose	Olfactory Epi	Degeneration	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=liver tumor??

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 121

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T121

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx	* Liver	* Lymph Node, Bronchial
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Lung	Bronchus	Hyperplasia	Lymphoid, Mild
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 1-6]			
* Lymph Node, Mesenteric		Ectasia	Marked
		Hyperplasia	Lymphoid, Mild
[Ectasia TGLS = 2-5]			
[Hyperplasia TGLS = 1-6]			
* Spleen		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 3-3]			
* Stomach, Glandular		Inflammation	Mild
* Uterus	Endometrium	Hyperplasia	Mild
[Hyperplasia TGLS = 4-6]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 122

TRT#: 2

SEX: Female

DAY ON TEST: 477

DOSE: 0.0MG/M3

DISP: Scheduled Sacrifice

HISTO: MZ34/T122

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Brain
* Heart
* Intestine Small, Duodenum
* Kidney
* Lymph Node, Mandibular
* Ovary
* Skin
* Thyroid Gland

* Adrenal Medulla
* Clitoral Gland
* Intestine Large, Cecum
* Intestine Small, Ileum
* Larynx
* Lymph Node, Mesenteric
* Pancreas
* Stomach, Forestomach
* Trachea

* Bone
* Esophagus
* Intestine Large, Colon
* Intestine Small, Jejunum
* Liver
* Mammary Gland
* Pituitary Gland
* Stomach, Glandular
* Urinary Bladder

* Bone Marrow
* Gallbladder
* Intestine Large, Rectum
* Islets, Pancreatic
* Lymph Node, Bronchial
* Nose
* Salivary Glands
* Thymus

MISSING

* Lymph Node, Mediastinal

* Parathyroid Gland

OBSERVATIONS

* Lung
* Spleen
* Uterus
[Hyperplasia TGLS = 1-9,6]

Bronchus
Endometrium

Hyperplasia
Hematopoietic Cell Proliferation
Hyperplasia

Lymphoid, Minimal
Minimal
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 124	TRT#: 2 DOSE: 0.0MG/M3	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: 197 HISTO: MZ34-T124
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney	* Lung	* Lymph Node, Bronchial
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MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Lymph Node, Mandibular [Hyperplasia TGLS = 1-5]		Hyperplasia	Lymphoid, Mild
* Nose	Olfactory Epi	Degeneration	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 126

TRT#: 2

SEX: Female

DAY ON TEST: 477

DOSE: 0.0MG/M3

DISP: Scheduled Sacrifice

HISTO: MZ34/T126

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Adrenal Medulla

* 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, Bronchial

* Lymph Node, Mesenteric

* Mammary Gland

* Nose

* Ovary

* Pancreas

* Parathyroid Gland

* Pituitary Gland

* Salivary Glands

* Skin

* Spleen

* Stomach, Forestomach

* Stomach, Glandular

* Thymus

* Thyroid Gland

* Trachea

* Urinary Bladder

* Uterus

MISSING

* Larynx

* Lymph Node, Mediastinal

OBSERVATIONS

Ear
[Ulcer TGLS = 3-9]

External Ear

Ulcer

Moderate

* Lung
* Lymph Node, Mandibular
[Hyperplasia TGLS = 1-5]

Bronchus

Hyperplasia

Lymphoid, Mild

Hyperplasia

Lymphoid, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 127

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T127

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx	* Lymph Node, Mediastinal	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mesenteric
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OBSERVATIONS

* Liver		Hepatocellular Carcinoma	
Note: CaDX based on trabecular pattern			
[Hepatocellular Carcinoma TGLS = 2-9]			
* Lung	Interstitialium	Infiltration Cellular	Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus	Endometrium	Hyperplasia	Mild
[Hyperplasia TGLS = 1-6,10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 128

TRT#: 2

SEX: Female

DAY ON TEST: 674

DOSE: 0.0MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/T128

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Larynx	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Kidney		Infiltration Cellular	Lymphocyte, Mild
* Liver		Degeneration	Marked
Note: degeneration=hydropic			
* Lung	Alveolar Epith Bronchus	Hyperplasia Hyperplasia	Marked Lymphoid, Moderate
Note: adenoma = small			
* Spleen	Red Pulp	Atrophy	Mild
* Thymus		Degeneration	Marked

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=undetermined

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 129

TRT#: 2

DOSE: 0.0MG/M3

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 736

HISTO: MZ34/T129

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx	* Lymph Node, Bronchial	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

Ear

Note: tumor of SKIN of ear SEE SKIN

* Liver

Hepatocellular Adenoma
Inflammation
Necrosis

Mild
Moderate

Note: inflam.focal, more severe in adenoma, chronic w/ fibrosis

Note: necrosis focal, more severe im adenoma

[Hepatocellular Adenoma TGLS = 4-10]

* Lung

Interstitium

Infiltration Cellular

Minimal

Lymph Node

Pancreatic

Inflammation

Moderate

[Inflammation TGLS = 5-12]

* Lymph Node, Mandibular

Hyperplasia

Lymphoid, Mild

[Hyperplasia TGLS = 2-6]

* Lymph Node, Mesenteric

Inflammation

Marked

[Inflammation TGLS = 5-12]

* Skin

Pinna

Fibrosarcoma

[Fibrosarcoma TGLS = 1-14]

* Spleen

Hematopoietic Cell Proliferation

Marked

[Hematopoietic Cell Proliferation TGLS = 3-9]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 129

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T129

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Endometrium

Hyperplasia

Mild

[Hyperplasia TGLS = 6-13]

PRIMARY CAUSE OF DEATH

-

Animal Note: DX based on pleocellularity & PMNs,

Animal Note: chronic granulomatous inflam, cause=?

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 130

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T130

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Larynx	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Bone	Femur	Hyperostosis	
* Liver		Hepatocellular Adenoma	
* Lung	Bronchus	Hyperplasia	Lymphoid, Mild
* Ovary		Cyst	
[Cyst TGLS = 1-6]			
* Spleen		Hyperplasia	Lymphoid, Mild
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
[Hyperplasia TGLS = 3-5]			
* Uterus	Endometrium	Hyperplasia	Mild
[Hyperplasia TGLS = 2-6]			

PRIMARY CAUSE OF DEATH

-

Animal Note: recuts show only hyperplasia

Animal Note: focal lesion

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 131

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T131

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Bone Marrow		Lymphoma Malignant	
* Intestine Large, Cecum		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 6-12]			
* Kidney		Lymphoma Malignant	
* Liver		Inflammation	Minimal
Note: scattered foci of inflammation			
* Lung		Lymphoma Malignant	
Note: leukemic infiltrates around vessels & airways			
[Lymphoma Malignant TGLS = 7-11]			
Lymph Node	Pancreatic	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
[Lymphoma Malignant TGLS = 8-4,5-14,3-10,1-6,4-13]			
[Lymphoma Malignant TGLS = 8-4,5-14,3-10,1-6,4-13]			
* Lymph Node, Bronchial		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 8-4,5-14,3-10,1-6,4-13]			
* Lymph Node, Mandibular		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 8-4,5-14,3-10,1-6,4-13]			
* Lymph Node, Mediastinal		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 8-4,5-14,3-10,1-6,4-13]			
* Lymph Node, Mesenteric		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 8-4,5-14,3-10,1-6,4-13]			
* Mammary Gland		Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 131	TRT#: 2 DOSE: 0.0MG/M3	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO: MZ34/T131
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ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 2-9]			
* Thymus		Lymphoma Malignant	
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 132

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T132

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx
* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone	Femur	Hyperostosis	
* Brain			
Note: deformation by pit. didn't cause degenerative lesions			
* Kidney		Nephropathy	Minimal
* Lung	Bronchus	Hyperplasia	Lymphoid, Minimal
* Nose	Olfactory Epi	Atrophy	Minimal
	Olfactory Epi	Degeneration	Minimal
* Ovary		Cyst	
Note: follicular cyst			
[Cyst TGLS = 5-6]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-9]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Moderate
* Uterus	Endometrium	Hyperplasia	Mild
[Hyperplasia TGLS = 1-10,6]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 133

TRT#: 2

SEX: Female

DAY ON TEST: 477

DOSE: 0.0MG/M3

DISP: Scheduled Sacrifice

HISTO: MZ34/T133

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Larynx	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mediastinal	* Ovary
---------------------------	---------

OBSERVATIONS

* Clitoral GI			
Note: NO CORRESPONDING LESION			
* Intestine Large, Cecum		Hyperplasia	Lymphoid, Mild
* Liver		Basophilic Focus	
* Lung	Bronchus	Hyperplasia	Lymphoid, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 134

TRT#: 2

SEX: Female

DAY ON TEST: 288

DOSE: 0.0MG/M3

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Colon
* Intestine Large, Rectum	* Islets, Pancreatic	* Kidney	* Larynx
* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mediastinal

AUTO PRECLUDES DIAG.

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

INSUFFICIENT TISSUE

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Mild
* Lung	Bronchus	Hyperplasia	Lymphoid, Minimal
* Spleen	Lymph Follic	Atrophy	Mild
* Thymus		Degeneration	Marked

PRIMARY CAUSE OF DEATH

-

Animal Note: COD undetermined, lesions = cachexia

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 135

TRT#: 2

SEX: Female

DAY ON TEST: 680

DOSE: 0.0MG/M3

DISP: Natural Death

HISTO: MZ34/T135

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Brain
- * Islets, Pancreatic
- * Lymph Node, Mandibular
- * Ovary
- * Salivary Glands
- * Thymus
- * Uterus

- * Adrenal Medulla
- * Clitoral Gland
- * Kidney
- * Lymph Node, Mesenteric
- * Pancreas
- * Skin
- * Thyroid Gland

- * Bone
- * Esophagus
- * Larynx
- * Mammary Gland
- * Parathyroid Gland
- * Stomach, Forestomach
- * Trachea

- * Bone Marrow
- * Heart
- * Lymph Node, Bronchial
- * Nose
- * Pituitary Gland
- * Stomach, Glandular
- * Urinary Bladder

MISSING

- * Lymph Node, Mediastinal

AUTO PRECLUDES DIAG.

- * Gallbladder
- * Intestine Small, Duodenum

- * Intestine Large, Cecum
- * Intestine Small, Ileum

- * Intestine Large, Colon
- * Intestine Small, Jejunum

- * Intestine Large, Rectum

OBSERVATIONS

- * Liver
Note: definitely differnt tumor than spleen
[Hemangiosarcoma TGLS = 3-10]

Hemangiosarcoma

- * Lung
Note: one focus

Alveolar Epith

Hyperplasia

Mild

- * Spleen
[Fibrosarcoma TGLS = 2-9]

Fibrosarcoma

PRIMARY CAUSE OF DEATH

-

Animal Note: ascites rapid since no response in mes.ln

Animal Note: COD=ascites secondary to h epatic, splenic tumors

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 136

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T136

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Brain	* Clitoral Gland
* Esophagus	* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Larynx	* Lymph Node, Bronchial	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Bone	* Bone Marrow	* Lymph Node, Mediastinal
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OBSERVATIONS

* Heart		Hemangiosarcoma	Metastatic (Liver)
* Intestine Small, Duodenum		Polyp Adenomatous	
* Liver		Fibrosis	Mild
		Hemangiosarcoma	
		Hepatocellular Adenoma	
Note: hemangiosarc on slide 3			
Note: CaDX based on trabecular pattern			
Note: fibrosis w/ min. inflam. around veins			
[Hepatocellular Adenoma TGLS = 3-10]			
* Lung	Interstitium	Infiltration Cellular	Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
Mesentery		Necrosis	Marked
Note: must relate to some pancreatic lesion but none found			
Note: fat necrosis w/ inflammation			
[Necrosis TGLS = 1-9]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Ovary		Cyst	
[Cyst TGLS = 2-6]			
* Pancreas			
Note: pancreas TGL is MESENTERY NB no panc lesion in section			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 136

TRT#: 2
DOSE: 0.0MG/M3

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 736
HISTO: MZ34/T136

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 137

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T137

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Larynx	* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Kidney		Infiltration Cellular	Lymphocyte, Mild
* Lung		Alveolar/Bronchiolar Carcinoma	
	Interstitialium	Infiltration Cellular	Minimal
Note: CaDX based on anaplasia, tissue destruction [Alveolar/Bronchiolar Carcinoma TGLS = 5-9]			
* Lymph Node, Mesenteric		Inflammation	Moderate
[Inflammation TGLS = 3-5]			
* Stomach, Forestomach		Hyperplasia	Squamous, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 138

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T138

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|--------------------------|-----------------------------|---------------------------|
| * Adrenal Cortex | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Gallbladder | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Larynx | * Liver |
| * Lung | * Lymph Node, Bronchial | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric | * Mammary Gland | * Ovary | * Pancreas |
| * Pituitary Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

- | | |
|---------------------------|---------------------|
| * Intestine Large, Rectum | * Parathyroid Gland |
|---------------------------|---------------------|

OBSERVATIONS

- | | |
|---|--------------------------------|
| * Adrenal Medulla
[Pheochromocytoma Benign TGLS = 3-8] | Pheochromocytoma Benign |
| * Clitoral GI
Note: TGL"pigment" not considered significant leaion | |
| * Kidney | Infiltration Cellular |
| * Nose | Degeneration |
| * Ovary
Note: TGL"pigment no significant lesion | Lymphocyte, Minimal
Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 141

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T141

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Larynx	* Lymph Node, Bronchial	* 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

* Lymph Node, Mediastinal

OBSERVATIONS

* Bone	Femur	Hyperostosis	
* Liver		Hepatocellular Adenoma	
	[Hepatocellular Adenoma TGLS = 1-9]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Interstitial	Infiltration Cellular	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Moderate
	[Hyperplasia TGLS = 2-10,6]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 142

TRT#: 2

SEX: Female

DAY ON TEST: 300

DOSE: 0.0MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/T142

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Bone | * 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 | * Larynx |
| * Liver | * Lymph Node, Mandibular | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

- | | |
|---------------------------|--------------------------|
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric |
|---------------------------|--------------------------|

INSUFFICIENT TISSUE

- * Lymph Node, Bronchial

OBSERVATIONS

- | | | | |
|--|--------------|--------------|-------------------|
| * Adrenal Medulla | | Angiectasis | Moderate |
| * Bone Marrow | Myeloid Cell | Hyperplasia | Moderate |
| * Clitoral GI | | | |
| Note: clitoral gland TGL is skin over clitoral gland | | | |
| * Lung | Bronchus | Hyperplasia | Lymphoid, Minimal |
| * Mammary Gland | | Hyperplasia | Mild |
| * Parathyroid GI | | | |
| Note: PTH on slide 2A | | | |
| * Skin | | Inflammation | Marked |
| Note: marked ulcerative dermatitis w/markd hperkeratosis | | | |
| [Inflammation TGLS = 1-9] | | | |
| * Thymus | | Degeneration | Moderate |

PRIMARY CAUSE OF DEATH

-

Animal Note: COD must be related to marked ulceration of skin

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 143

TRT#: 4

SEX: Female

DAY ON TEST: 477

DOSE: 0.0MG/M3LUNG TOX

DISP: Scheduled Sacrifice

HISTO: MZ34/T143

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Larynx	* Lymph Node, Bronchial	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mediastinal	* Pituitary Gland
---------------------------	-------------------

INSUFFICIENT TISSUE

* Parathyroid Gland

OBSERVATIONS

* Intestine Small, Ileum		Hyperplasia	Mild
* Liver		Hemangioma	
[Hemangioma TGLS = 3-10]			
* Lung	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitial	Infiltration Cellular	Minimal
		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mandibular			
[Hyperplasia TGLS = 1-6]			
* Nose	Olfactory Epi	Degeneration	Mild
* Uterus	Endometrium	Hyperplasia	Moderate
[Hyperplasia TGLS = 2-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 144

TRT#: 2

SEX: Female

DAY ON TEST: 552

DOSE: 0.0MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/T144

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx	* 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	* Uterus	

OBSERVATIONS

Ear	External Ear	Inflammation	Moderate
[Inflammation TGLS = 1-10]			
* Lung	Bronchus	Hyperplasia	Lymphoid, Minimal
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 2-2,3-4]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 2-2,3-4]			
* Lymph Node, Mediastinal		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 2-2,3-4]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Skin			
Note: TGL "whole body skin lesion" "blue pigment" = ???			
Note: focal increased # follicles may = blue patches			
Note: marked variation in # of hair follicles/ length skin			

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/Msac=undetermined

Animal Note: fixation artifacts on some parenchymal organs

Animal Note: med.In=small section, but hyperplasia evident

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 145

TRT#: 4

SEX: Female

DAY ON TEST: 197

DOSE: 0.0MG/M3LUNG TOX

DISP: Scheduled Sacrifice

HISTO: MZ34-T145

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney

* Lung

* Lymph Node, Bronchial

* Nose

MISSING

* Lymph Node, Mediastinal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 146

TRT#: 2

SEX: Female

DAY ON TEST: 508

DOSE: 0.0MG/M3

DISP: Natural Death

HISTO: MZ34-T146

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Islets, Pancreatic	* Kidney	* Larynx	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Spleen	* Thymus	* Thyroid Gland	* Trachea
* Uterus			

MISSING

* Lymph Node, Mediastinal

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Stomach, Forestomach
* Stomach, Glandular	* Urinary Bladder		

OBSERVATIONS

* Bone			
Note: fracture seen on radiograph			
Note: hist=no tissue response, fracture considered post mortem			
* Liver		Angiectasis	Marked
		Hepatocellular Adenoma	
Note: ectasia in adenoma			
[Hepatocellular Adenoma TGLS = 5-3,9]			
* Lung	Bronchus	Hyperplasia	Lymphoid, Minimal
* Nose	Respirat Epith	Degeneration	Moderate
* Skin		Fibrosis	Moderate
Note: focal scar in dermis			
[Fibrosis TGLS = 2-11]			

PRIMARY CAUSE OF DEATH

-

Animal Note: COD=hepatocellular adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 147

TRT#: 2

SEX: Female

DAY ON TEST: 536

DOSE: 0.0MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/T147

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * 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 | * Lung | * Lymph Node, Bronchial | * 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

- | | |
|--------------------------|---------------------------|
| * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|--------------------------|---------------------------|

INSUFFICIENT TISSUE

- * Larynx

OBSERVATIONS

- | | | | |
|---|---------------|--------------|----------|
| * Clitoral Gland
[Ectasia TGLS = 1-6] | | Ectasia | Mild |
| * Pituitary Gland
[Adenoma TGLS = 3-8] | Pars Distalis | Adenoma | |
| * Thymus | | Degeneration | Moderate |

PRIMARY CAUSE OF DEATH

-

Animal Note: no radiographic lesions

Animal Note: CO/MSAC=pituitary tumor

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 148

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T148

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Larynx	* Liver	* Lymph Node, Bronchial	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Kidney		Infiltration Cellular	Lymphocyte, Mild
* Lung	Bronchus	Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Marked
[Hyperplasia TGLS = 1-6]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Ovary		Cyst	
[Cyst TGLS = 3-6]			
* Spleen		Hyperplasia	Lymphoid, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 149

TRT#: 2

SEX: Female

DAY ON TEST: 563

DOSE: 0.0MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/T149

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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
* Larynx	* Liver	* Lymph Node, Bronchial	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mediastinal	* Parathyroid Gland
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OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
* Lung	Bronchus	Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Marked
[Hyperplasia TGLS = 1-6]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Spleen		Hyperplasia	Lymphoid, Moderate
* Uterus		Cyst	
[Cyst TGLS = 2-9]			

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=hyperplastic mand. In

Animal Note: reason for marked hyperplasia undetermined

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 151

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T151

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Larynx	* Liver	* Lymph Node, Bronchial	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Intestine Large, Rectum	* Lymph Node, Mediastinal
---------------------------	---------------------------

OBSERVATIONS

* Lung		Alveolar/Bronchiolar Carcinoma	
	Alveolus	Hyperplasia	Macrophage, Minimal
	Interstitialium	Infiltration Cellular	Minimal
	[Alveolar/Bronchiolar Carcinoma TGLS = 5-9,4]		
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
	[Hyperplasia TGLS = 1-6]		
* Nose	Olfactory Epi	Degeneration	Minimal
* Spleen		Hyperplasia	Lymphoid, Minimal
* Thymus		Hyperplasia	Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Moderate
* Uterus	Endometrium	Hyperplasia	Mild
	[Hyperplasia TGLS = 3-6]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 152

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T152

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Larynx
* Lymph Node, Bronchial	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Intestine Large, Rectum	* Lymph Node, Mediastinal
---------------------------	---------------------------

OBSERVATIONS

* Bone	Femur	Hyperostosis	
* Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 4-9]			
* Lung	Bronchus	Hyperplasia	Lymphoid, Minimal
* Lymph Node, Mandibular		Hyperplasia	Plasma Cell, Moderate
[Hyperplasia TGLS = 1-6,2-5]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 1-6,2-5]			
* Mammary Gland		Hyperplasia	Mild
* Nose	Olfactory Epi	Degeneration	Minimal
* Thymus		Hyperplasia	Mild
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 3-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 153

TRT#: 2

SEX: Female

DAY ON TEST: 600

DOSE: 0.0MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/T153

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mediastinal

INSUFFICIENT TISSUE

* Lymph Node, Bronchial

OBSERVATIONS

* Liver		Angiectasis Cyst	Mild
Note: billiary in origin? ectasia adjacent [Cyst TGLS = 1-9]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Stomach, Glandular		Inflammation	Moderate

PRIMARY CAUSE OF DEATH

-

Animal Note: recuts show focal inflammation, no neoplasia

Animal Note: focal inflammation

Animal Note: CO/MSAC=undetermined

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 154

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T154

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Brain |
| * Clitoral Gland | * Esophagus | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Kidney | * Larynx | * Lymph Node, Bronchial |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Skin | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

- | | |
|---------------------------|---------------------------|
| * Intestine Large, Rectum | * Lymph Node, Mediastinal |
|---------------------------|---------------------------|

INSUFFICIENT TISSUE

- * Gallbladder

OBSERVATIONS

- | | | | |
|---|----------------|------------------------------|-------------------|
| * Bone Marrow | Myeloid Cell | Hyperplasia | Mild |
| * Liver | | Hepatocellular Adenoma | |
| Note: CaDX based on trabecular pattern
[Hepatocellular Adenoma TGLS = 2-9] | | | |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| | Bronchus | Hyperplasia | Lymphoid, Minimal |
| * Spleen | | Hyperplasia | Lymphoid, Mild |
| * Stomach, Forestomach | | Squamous Cell Papilloma | |
| [Squamous Cell Papilloma TGLS = 3-5] | | | |
| * Thyroid Gland | Follicular Cel | Hyperplasia | Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 155

TRT#: 2

SEX: Female

DAY ON TEST: 385

DOSE: 0.0MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/T155

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Larynx	* Liver	* Lymph Node, Bronchial	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Heart	Artery	Inflammation	Moderate
* Lung	Bronchus	Hyperplasia	Lymphoid, Minimal
Lymph Node	Inguinal	Hyperplasia	Lymphoid, Moderate
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Marked
[Hyperplasia TGLS = 1-6]			
Mesentery	Artery	Inflammation	Mild
* Thyroid Gland	Artery	Inflammation	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: COD undetermined,vasculitis may play role,lymphoma=1nodeonly

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 158

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T158

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Larynx	* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Bone	Femur	Hyperostosis	
* Lung	Interstitium	Infiltration Cellular	Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Ovary		Cyst	
[Cyst TGLS = 2-6]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Uterus	Endometrium	Hyperplasia	Mild
[Hyperplasia TGLS = 1-6]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 159

TRT#: 2

DOSE: 0.0MG/M3

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 735

HISTO: MZ34/T159

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	Eye	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Larynx	* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Intestine Large, Rectum	* Lymph Node, Mediastinal
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OBSERVATIONS

* Bone	Femur	Hyperostosis	
Eye			
Note: no sections from eye, even on recuts & residual tissues			
* Lung		Alveolar/Bronchiolar Carcinoma	
	Alveolus	Hyperplasia	Macrophage, Minimal
	Bronchus	Hyperplasia	Lymphoid, Minimal
[Alveolar/Bronchiolar Carcinoma TGLS = 2-9]			
* Spleen		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicle	Atrophy	Mild
	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 160

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0.0MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/T160

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Larynx	* Lymph Node, Mediastinal	* Parathyroid Gland	
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OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Liver		Lymphoma Malignant	
Note: small nodular infiltrates			
* Lung	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitium	Infiltration Cellular	Minimal
Lymph Node	Iliac	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
[Lymphoma Malignant TGLS = 1-9,2-10]			
[Lymphoma Malignant TGLS = 1-9,2-10]			
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Mild
* Pancreas	Acinus	Atrophy	Mild
* Thymus		Lymphoma Malignant	
Note: TGLmed In probably is THYMUS			

PRIMARY CAUSE OF DEATH

-

Animal Note: TGLmed In is probably THYMUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 241

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U241

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Larynx	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Intestine Large, Rectum	* Lymph Node, Mediastinal
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OBSERVATIONS

* Lung		Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Mild
	Interstitium	Infiltration Cellular	Moderate
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Moderate
Note: TGL"foci"=subpleural foci of AMs			
[Hyperplasia TGLS = 3,4-4,9]			
[Hyperplasia TGLS = 3,4-4,9]			
[Hyperplasia TGLS = 3,4-4,9]			
[Inflammation TGLS = 5-4]			
[Proteinosis TGLS = 5-4]			
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Minimal
		Hyperplasia	Lymphoid, Minimal
* Nose		Inflammation	Acute, Marked
Note: secondary to tooth root inflammation			
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 241	TRT#: 6 DOSE: 0.6MG/M3	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: MZ34/U241
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ORGAN AND ACCOUNTABLE SITE STATUS

Tooth Note: resulted in inflammation w/ secondary nasal inflam.		Developmental Malformation	
* Uterus [Hyperplasia TGLS = 1-6,10]	Endometrium	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 242

TRT#: 6

DOSE: 0.6MG/M3

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 733

HISTO: MZ34/U242

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Lung	Alveolar Epith Alveolus Interstitium	Hyperplasia Hyperplasia Infiltration Cellular Inflammation Proteinosis	Mild Macrophage, Moderate Marked Chronic Active, Mild Moderate
[Hyperplasia TGLS = 3-4] [Hyperplasia TGLS = 3-4]	Alveolus		
* Lymph Node, Bronchial		Hyperplasia Hyperplasia	Macrophage, Mild Lymphoid, Moderate
[Hyperplasia TGLS = 2-4,2-4] [Hyperplasia TGLS = 2-4,2-4]			
* Nose	Olfactory Epi	Atrophy	Minimal
* Thyroid Gland Note: papillary pattern	Follicular Cel	Adenoma	
* Uterus [Hyperplasia TGLS = 1-6]	Endometrium	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 242

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U242

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: chronic inflammation in fat eg around nodes, m.gland etc.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 243

TRT#: 6

DOSE: 0.6MG/M3

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 736

HISTO: MZ34/U243

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Intestine Large, Rectum

OBSERVATIONS

* Intestine Large, Cecum	Lymphoid Tiss	Hyperplasia	Lymphoid, Moderate
* Kidney		Infiltration Cellular	Lymphocyte, Minimal
* Liver		Hepatocellular Carcinoma	
		Necrosis	Minimal
Note: necrosis in tumor			
Note: Ca DX based on trabecular pattern			
[Hepatocellular Carcinoma TGLS = 3-10]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Mild
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Moderate
[Hyperplasia TGLS = 5-4]			
[Hyperplasia TGLS = 5-4]			
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Mild
		Hyperplasia	Macrophage, Mild
[Hyperplasia TGLS = 4-4,4-4]			
[Hyperplasia TGLS = 4-4,4-4]			
* Mammary Gland		Adenocarcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 243	TRT#: 6	SEX: Female	DAY ON TEST: 736
	DOSE: 0.6MG/M3	DISP: Terminal Sacrifice	HISTO: MZ34/U243

ORGAN AND ACCOUNTABLE SITE STATUS

Note: TNOS=mammary gland adenocarcinoma
[Adenocarcinoma TGLS = 1-9]

* Spleen		Hematopoietic Cell Proliferation	Moderate
	[Hematopoietic Cell Proliferation TGLS = 2-3]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
Tissue NOS			

Note: TNOS=mammary gland adenocarcinoma,see MAMMARY GLAND

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 244

TRT#: 6

SEX: Female

DAY ON TEST: 655

DOSE: 0.6MG/M3

DISP: Natural Death

HISTO: MZ34/U244

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Islets, Pancreatic
* Kidney	* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Adrenal Cortex	* Adrenal Medulla	* Intestine Large, Rectum
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AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Liver		Histiocytic Sarcoma	
		Necrosis	Mild
Note: massive liver necrosis assoc w/ infiltrates [Histiocytic Sarcoma TGLS = 3-3]			
* Lung	Alveolar Epith	Histiocytic Sarcoma	
	Alveolus	Hyperplasia	Mild
	Interstitium	Hyperplasia	Macrophage, Mild
	Alveolus	Infiltration Cellular	Minimal
		Proteinosis	Mild
			[Hyperplasia TGLS = 6-4]
			[Hyperplasia TGLS = 6-4]
Lymph Node	Pancreatic	Histiocytic Sarcoma	
			[Histiocytic Sarcoma TGLS = 5-4]
* Lymph Node, Bronchial		Histiocytic Sarcoma	
			[Histiocytic Sarcoma TGLS = 5-4]
* Spleen		Hematopoietic Cell Proliferation	Mild
		Histiocytic Sarcoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 244	TRT#: 6 DOSE: 0.6MG/M3	SEX: Female DISP: Natural Death	DAY ON TEST: 655 HISTO: MZ34/U244
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ORGAN AND ACCOUNTABLE SITE STATUS

[Histiocytic Sarcoma TGLS = 1-3,9]			
* Thymus Note: TGL"med.In"=THYMUS		Histiocytic Sarcoma	
[Histiocytic Sarcoma TGLS = 4-2]			
* Thyroid Gland Tissue NOS Note: found looking for adrenals, possible In Note: see slide 8a	Follicular Cel	Hyperplasia Histiocytic Sarcoma	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: panc In found looking for adrenals
Animal Note: can't find among enlarged nodes
Animal Note: COD=histiocytic sarcoma
Animal Note: TGL"med In enlarged"=THYMUS
Animal Note: TGL"mes In"=congestion, not considered sign. lesion

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 245

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U245

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* 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
* Larynx	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Moderate
* Liver		Atrophy	Mild
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Mild
	Bronchus	Hyperplasia	Lymphoid, Mild
	Interstitium	Infiltration Cellular	Moderate
		Inflammation	Acute, Mild
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Mild
Note: acute inflam in large vessels/from pancreatitis?			
[Infiltration Cellular TGLS = 9-4]			
Lymph Node	Pancreatic	Inflammation	Moderate
	Renal	Inflammation	Marked
[Inflammation TGLS = 5-11,7-5,6-10,8-4]			
[Inflammation TGLS = 5-11,7-5,6-10,8-4]			
* Lymph Node, Bronchial		Inflammation	Moderate
[Inflammation TGLS = 5-11,7-5,6-10,8-4]			
* Lymph Node, Mesenteric		Inflammation	Marked
[Inflammation TGLS = 5-11,7-5,6-10,8-4]			
Mesentery		Inflammation	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 245	TRT#: 6 DOSE: 0.6MG/M3	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: MZ34/U245
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: focal necrotizing inflam.w/ fat necrosis
Note: inflam. appears secondary to pancreatitis
[Inflammation TGLS = 3-5,9,10,11]

* Ovary		Cyst	
[Cyst TGLS = 2-6]			
* Pancreas		Inflammation	Marked
[Inflammation TGLS = 4-5]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Glandular		Inflammation	Mild
* Thymus		Degeneration	Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

Animal Note: renal & panc In inflam is primarily around node

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 246

TRT#: 6

DOSE: 0.6MG/M3

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 536

HISTO: MZ34/U246

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Larynx	* Mammary Gland	* Nose	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Thyroid Gland	Tissue NOS	* Trachea	* Uterus

OBSERVATIONS

* Bone Marrow		Lymphoma Malignant	
* Gallbladder		Lymphoma Malignant	
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Lymphoma Malignant	
* Kidney		Hydronephrosis	Moderate
		Lymphoma Malignant	
	[Hydronephrosis TGLS = 9-3]		
	[Lymphoma Malignant TGLS = 10-3]		
* Liver		Lymphoma Malignant	
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Hyperplasia	Macrophage, Mild
		Lymphoma Malignant	
	Alveolus	Proteinosis	Moderate
Lymph Node	Axillary	Lymphoma Malignant	
	Iliac	Lymphoma Malignant	
	Inguinal	Lymphoma Malignant	
	Lumbar	Lymphoma Malignant	
	Pancreatic	Lymphoma Malignant	
	Popliteal	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
	[Lymphoma Malignant TGLS = 16-2,13-17,14-18,2-6,11-16,4-12,11,17-4,6-13,3-6,8]		
	[Lymphoma Malignant TGLS = 16-2,13-17,14-18,2-6,11-16,4-12,11,17-4,6-13,3-6,8]		
	[Lymphoma Malignant TGLS = 16-2,13-17,14-18,2-6,11-16,4-12,11,17-4,6-13,3-6,8]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 246

TRT#: 6

SEX: Female

DAY ON TEST: 536

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U246

ORGAN AND ACCOUNTABLE SITE STATUS

[Lymphoma Malignant TGLS = 16-2,13-17,14-18,2-6,11-16,4-12,11,17-4,6-13,3-6,8]	
[Lymphoma Malignant TGLS = 16-2,13-17,14-18,2-6,11-16,4-12,11,17-4,6-13,3-6,8]	
[Lymphoma Malignant TGLS = 16-2,13-17,14-18,2-6,11-16,4-12,11,17-4,6-13,3-6,8]	
[Lymphoma Malignant TGLS = 16-2,13-17,14-18,2-6,11-16,4-12,11,17-4,6-13,3-6,8]	
* Lymph Node, Bronchial	Lymphoma Malignant
[Lymphoma Malignant TGLS = 16-2,13-17,14-18,2-6,11-16,4-12,11,17-4,6-13,3-6,1]	
* Lymph Node, Mandibular	Lymphoma Malignant
[Lymphoma Malignant TGLS = 16-2,13-17,14-18,2-6,11-16,4-12,11,17-4,6-13,3-6,8]	
* Lymph Node, Mediastinal	Lymphoma Malignant
[Lymphoma Malignant TGLS = 16-2,13-17,14-18,2-6,11-16,4-12,11,17-4,6-13,3-6,8]	
* Lymph Node, Mesenteric	Lymphoma Malignant
[Lymphoma Malignant TGLS = 16-2,13-17,14-18,2-6,11-16,4-12,11,17-4,6-13,3-6,8]	
* Ovary	Cyst
	Lymphoma Malignant
[Cyst TGLS = 7-6]	
* Pancreas	Lymphoma Malignant
* Spleen	Lymphoma Malignant
[Lymphoma Malignant TGLS = 5-10,3]	
* Stomach, Glandular	Lymphoma Malignant
* Thymus	Lymphoma Malignant
[Lymphoma Malignant TGLS = 15-2]	
Tissue NOS	
Note: amputation is healed	
* Urinary Bladder	Lymphoma Malignant

PRIMARY CAUSE OF DEATH -

Animal Note: CO/MSAC=lymphoma, widespread

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 247

TRT#: 6

SEX: Female

DAY ON TEST: 642

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U247

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Thymus

OBSERVATIONS

* Liver		Basophilic Focus	
[Basophilic Focus TGLS = 2-3]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Mild
	Bronchus	Hyperplasia	Lymphoid, Moderate
	Interstitium	Infiltration Cellular	Minimal
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Minimal
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Minimal
		Hyperplasia	Lymphoid, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Uterus		Cyst	
[Cyst TGLS = 1-6]			

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=undetermined

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 248

TRT#: 6

SEX: Female

DAY ON TEST: 403

DOSE: 0.6MG/M3

DISP: Natural Death

HISTO: MZ34/U248

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla
* Esophagus
* Lymph Node, Mandibular
* Pituitary Gland
* Thymus

* Bone
* Islets, Pancreatic
* Mammary Gland
* Salivary Glands
* Thyroid Gland

* Brain
* Kidney
* Nose
* Skin
* Trachea

* Clitoral Gland
* Larynx
* Parathyroid Gland
* Stomach, Forestomach
* Uterus

MISSING

* Intestine Large, Rectum

* Lymph Node, Mediastinal

AUTO PRECLUDES DIAG.

* Gallbladder
* Intestine Small, Ileum
* Urinary Bladder

* Intestine Large, Cecum
* Intestine Small, Jejunum

* Intestine Large, Colon
* Lymph Node, Mesenteric

* Intestine Small, Duodenum
* Stomach, Glandular

OBSERVATIONS

* Adrenal Cortex
[Sarcoma TGLS = 11-8]

Sarcoma
Metastatic (Skeletal Muscle)

* Bone Marrow
Myeloid Cell

Hyperplasia
Moderate

* Heart
[Sarcoma TGLS = 14-3]

Sarcoma
Metastatic (Skeletal Muscle)

* Liver
[Sarcoma TGLS = 7-3,8-3,9-3]

Sarcoma
Metastatic (Skeletal Muscle)

* Lung
Alveolus
Interstitialium
Alveolus

Hyperplasia
Infiltration Cellular
Proteinosis
Sarcoma
Macrophage, Mild
Minimal
Mild
Metastatic (Skeletal Muscle)

Note: mets on pleura & around hilar vessels

[Hyperplasia TGLS = 16-4]
[Sarcoma TGLS = 17-4,18-4,19-9]

* Lymph Node, Bronchial

Hyperplasia
Hyperplasia
Macrophage, Mild
Lymphoid, Moderate

[Hyperplasia TGLS = 15-4,15-4]
[Hyperplasia TGLS = 15-4,15-4]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 248	TRT#: 6 DOSE: 0.6MG/M3	SEX: Female DISP: Natural Death	DAY ON TEST: 403 HISTO: MZ34/U248
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ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery [Sarcoma TGLS = 12-10]	Sarcoma	Metastatic (Skeletal Muscle)
* Ovary [Sarcoma TGLS = 13-6]	Sarcoma	Metastatic (Skeletal Muscle)
* Pancreas [Sarcoma TGLS = 10-5]	Sarcoma	Metastatic (Skeletal Muscle)
Skeletal Muscle Note: primary site=abdominal side of diaphragm [Sarcoma TGLS = 4-11,5-12]	Sarcoma	
* Spleen [Hyperplasia TGLS = 2-3]	Hyperplasia	Lymphoid, Mild
* Uterus Note: TGL "Uterus" is actually MESENTARY of uterus, nb		

PRIMARY CAUSE OF DEATH -

Animal Note: COD=fibrosarcoma

Animal Note: little intracoelomic spread of tumor

Animal Note: prim.site=diaphragm w/spread under mesothelial surfaces

Animal Note: tumor invades capsule & surrounding tissue

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 249

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U249

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Intestine Small, Ileum	Peyers Patch	Hyperplasia	Lymphoid, Moderate
* Kidney		Infiltration Cellular	Lymphocyte, Mild
* Liver		Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 2-9]			
* Lung	Alveolar Epith	Alveolar/Bronchiolar Adenoma	
	Alveolus	Hyperplasia	Mild
	Bronchus	Hyperplasia	Macrophage, Mild
	Interstitialium	Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Moderate
	Alveolus	Inflammation	Chronic Active, Mild
[Alveolar/Bronchiolar Adenoma TGLS = 5-12]		Proteinosis	Mild
[Infiltration Cellular TGLS = 6-4,13,7-4,12]			
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Mild
		Hyperplasia	Macrophage, Mild
[Hyperplasia TGLS = 4-4,4-4]			
[Hyperplasia TGLS = 4-4,4-4]			
* Ovary		Cyst	
[Cyst TGLS = 1-6]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
* Spleen		Hyperplasia	Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 249

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U249

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

Follicular Cel

Hyperplasia

Minimal

* Uterus

Endometrium

Hyperplasia

Mild

[Hyperplasia TGLS = 8-6,11]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 250

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U250

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Larynx		Inflammation	Minimal
* Lung		Bronchiectasis	Moderate
		Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Hyperplasia	Macrophage, Mild
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Moderate
	Alveolus	Proteinosis	Marked
	[Proteinosis TGLS = 3-4]		
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
		Hyperplasia	Lymphoid, Moderate
	[Hyperplasia TGLS = 2-4,2-4]		
	[Hyperplasia TGLS = 2-4,2-4]		
* Pituitary Gland		Angiectasis	Moderate
	[Angiectasis TGLS = 4-8]		
* Spleen		Hyperplasia	Lymphoid, Mild
* Stomach, Glandular		Inflammation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 250

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U250

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 251

TRT#: 6

SEX: Female

DAY ON TEST: 652

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ43/U251

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* 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	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Larynx

OBSERVATIONS

* Adrenal Cortex [Squamous Cell Carcinoma TGLS = 3-8]		Squamous Cell Carcinoma	Metastatic (Stomach, Forestomach)
* Kidney Note: met is really capsular invasion		Squamous Cell Carcinoma	Metastatic (Stomach, Forestomach)
* Liver Note: met is capsular invasion [Squamous Cell Carcinoma TGLS = 2-3]		Atrophy Squamous Cell Carcinoma	Moderate Metastatic (Stomach, Forestomach)
* Lung Note: lung grading complicated by mets [Squamous Cell Carcinoma TGLS = 8-4]	Alveolar Epith Alveolus Bronchus Interstitium Alveolus	Hyperplasia Hyperplasia Hyperplasia Infiltration Cellular Inflammation Proteinosis Squamous Cell Carcinoma	Minimal Macrophage, Mild Lymphoid, Minimal Mild Chronic Active, Minimal Minimal Metastatic (Stomach, Forestomach)
Lymph Node [Squamous Cell Carcinoma TGLS = 1-9,7-4]	Pancreatic	Squamous Cell Carcinoma	Metastatic (Stomach, Forestomach)
* Lymph Node, Bronchial		Squamous Cell Carcinoma	Metastatic (Stomach, Forestomach)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 251	TRT#: 6 DOSE: 0.6MG/M3	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 652 HISTO: MZ43/U251
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ORGAN AND ACCOUNTABLE SITE STATUS

[Squamous Cell Carcinoma TGLS = 1-9,7-4] * Lymph Node, Mediastinal	Squamous Cell Carcinoma	Metastatic (Stomach, Forestomach)
[Squamous Cell Carcinoma TGLS = 1-9,7-4] Mesentery	Squamous Cell Carcinoma	Metastatic (Stomach, Forestomach)
[Squamous Cell Carcinoma TGLS = 6-11] * Nose	Inflammation	Acute, Minimal
* Ovary	Squamous Cell Carcinoma	Metastatic (Stomach, Forestomach)
* Pancreas	Squamous Cell Carcinoma	Metastatic (Stomach, Forestomach)
* Spleen	Atrophy	Moderate
* Stomach, Forestomach [Squamous Cell Carcinoma TGLS = 5-5,10]	Squamous Cell Carcinoma	
* Thymus	Degeneration	Moderate
* Uterus [Cyst TGLS = 4-6]	Cyst	

PRIMARY CAUSE OF DEATH -

Animal Note: TGL" glandular stom."=forestomach, see slide 5

Animal Note: CO/MSAC=gastric squamous cell carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 252

TRT#: 6

SEX: Female

DAY ON TEST: 477

DOSE: 0.6MG/M3

DISP: Scheduled Sacrifice

HISTO: MZ34/U252

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Larynx	* 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
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Intestine Large, Cecum		Hyperplasia	Lymphoid, Mild
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Hyperplasia	Macrophage, Minimal
	Bronchus	Hyperplasia	Lymphoid, Mild
	Interstitium	Infiltration Cellular	Minimal
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Moderate
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
		Hyperplasia	Lymphoid, Moderate

[Hyperplasia TGLS = 3-4,3-4]
[Hyperplasia TGLS = 3-4,3-4]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 253	TRT#: 8	SEX: Female	DAY ON TEST: 197
	DOSE: 0.6MG/M3LUNG TOX	DISP: Scheduled Sacrifice	HISTO: MZ34-U253

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney	* Lymph Node, Bronchial	* Nose
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MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Lung	Alveolus	Hyperplasia	Macrophage, Minimal
	Interstitialium	Infiltration Cellular	Minimal
Lymph Node		Pigmentation	Mild
[Pigmentation TGLS = 3-5]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 255

TRT#: 6

DOSE: 0.6MG/M3

SEX: Female

DISP: Natural Death

DAY ON TEST: 636

HISTO: MZ34/U255

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Larynx	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Gallbladder	* Intestine Large, Rectum	* Lymph Node, Mediastinal
---------------	---------------------------	---------------------------

OBSERVATIONS

* Adrenal Medulla		Angiectasis	Moderate
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
		Pigmentation	Hemosiderin, Moderate
[Hepatocellular Adenoma TGLS = 2-10]			
[Hepatocellular Carcinoma TGLS = 3-3]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Hyperplasia	Macrophage, Mild
	Bronchus	Hyperplasia	Lymphoid, Mild
	Interstitium	Infiltration Cellular	Moderate
Note: grading compromised by mets.			
[Hepatocellular Carcinoma TGLS = 4-4,9]			
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Minimal
		Hyperplasia	Lymphoid, Marked
[Hyperplasia TGLS = 5-4,5-4]			
[Hyperplasia TGLS = 5-4,5-4]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLS = 1-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 255

TRT#: 6

SEX: Female

DAY ON TEST: 636

DOSE: 0.6MG/M3

DISP: Natural Death

HISTO: MZ34/U255

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

Animal Note: COD=metastisizing hepatocellular carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 256

TRT#: 6

DOSE: 0.6MG/M3

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 735

HISTO: MZ34/U256

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea			

MISSING

* Lymph Node, Mediastinal

INSUFFICIENT TISSUE

* Larynx

OBSERVATIONS

* Lung		Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Marked
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Minimal
		Hyperplasia	Lymphoid, Moderate
		[Hyperplasia TGLS = 2-4]	
		[Hyperplasia TGLS = 2-4,2-4]	
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
* Uterus	Endometrium	Hyperplasia	Moderate
		[Hyperplasia TGLS = 1-9,6]	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 257

TRT#: 6

SEX: Female

DAY ON TEST: 552

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U257

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* 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	* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mediastinal	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Angiectasis	Mild
* Bone			
Note: TGL "rib"=pleural surface, SEE TISSUE NOS			
* Clitoral Gland		Atrophy	Moderate
* Heart		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
Note: transpleural spread			
* Kidney		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
		Nephropathy	Minimal
Note: sarcomatous pattern			
Note: mets Alcian blue,.PAS, Massons-			
[Alveolar/Bronchiolar Carcinoma TGLS = 3-3,4-11]			
* Liver		Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 2-12]			
* Lung		Alveolar/Bronchiolar Carcinoma	
		Hepatocellular Carcinoma	Metastatic (Liver)
	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Hyperplasia	Macrophage, Mild
	Interstitium	Infiltration Cellular	Mild
	Alveolus	Proteinosis	Mild
Note: alcian blue, PAS+; Massons-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 257	TRT#: 6 DOSE: 0.6MG/M3	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 552 HISTO: MZ34/U257
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: DX based on alv/bron pattern in large lung mass
Note: Special stains support pure epithelial origin
Note: sarc pattern in lung & mets=IARC Tumors/Mouse V.2 p.256
[Alveolar/Bronchiolar Carcinoma TGLS = 9-4,10]

* Lymph Node, Bronchial [Alveolar/Bronchiolar Carcinoma TGLS = 8-4]	Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
* Ovary [Cyst TGLS = 5-6]	Cyst	
* Spleen [Hematopoietic Cell Proliferation TGLS = 1-3]	Hematopoietic Cell Proliferation	Moderate
* Stomach, Glandular	Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
* Thymus Note: Thymus invaded by tumor [Alveolar/Bronchiolar Carcinoma TGLS = 7-2]	Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
Tissue NOS Mediastinum Thoracic	Alveolar/Bronchiolar Carcinoma Alveolar/Bronchiolar Carcinoma	Metastatic (Lung) Metastatic (Lung)

Note: Tumors on pleural surface, not ribs
Note: Transpleural spread
[Alveolar/Bronchiolar Carcinoma TGLS = 10-9]
[Alveolar/Bronchiolar Carcinoma TGLS = 10-9]

PRIMARY CAUSE OF DEATH -

Animal Note: marked inflammation accompanies neoplasm
Animal Note: recuts show invasion of basememt membrane
Animal Note: CO/MSAC=Lung Tumor w/ mets

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 258

TRT#: 6

SEX: Female

DAY ON TEST: 692

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U258

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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
* Larynx	* Lymph Node, Mediastinal	* 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		

OBSERVATIONS

* Adrenal Medulla		Angiectasis	Moderate
* Liver		Hepatocellular Carcinoma	Multiple
[Hepatocellular Carcinoma TGLS = 2,3-3,11.4-3]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Mild
	Interstitium	Infiltration Cellular	Minimal
	Alveolus	Proteinosis	Mild
Note: grading compromised by # & size of mets			
[Hepatocellular Carcinoma TGLS = 6,7-4,9,10]			
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mandibular		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 1-6]			
* Thymus		Degeneration	Moderate

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=metastasizing hepatocellular carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 260

TRT#: 6

SEX: Female

DAY ON TEST: 477

DOSE: 0.6MG/M3

DISP: Scheduled Sacrifice

HISTO: MZ34/U260

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Brain
- * Heart
- * Intestine Small, Duodenum
- * Kidney
- * Lymph Node, Mesenteric
- * Pancreas
- * Skin
- * Thymus
- * Uterus

- * Adrenal Medulla
- * Clitoral Gland
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Larynx
- * Mammary Gland
- * Parathyroid Gland
- * Spleen
- * Thyroid Gland

- * Bone
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Liver
- * Nose
- * Pituitary Gland
- * Stomach, Forestomach
- * Trachea

- * Bone Marrow
- * Gallbladder
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Lymph Node, Mandibular
- * Ovary
- * Salivary Glands
- * Stomach, Glandular
- * Urinary Bladder

MISSING

- * Lymph Node, Mediastinal

OBSERVATIONS

- | | | | |
|-------------------------|--------------|-----------------------|----------------------|
| * Lung | Alveolus | Hyperplasia | Macrophage, Mild |
| | Bronchus | Hyperplasia | Lymphoid, Mild |
| | Interstitium | Infiltration Cellular | Moderate |
| | | Inflammation | Chronic Active, Mild |
| | Alveolus | Proteinosis | Minimal |
| * Lymph Node, Bronchial | | Hyperplasia | Macrophage, Minimal |
| | | Hyperplasia | Lymphoid, Mild |
- [Hyperplasia TGLS = 2-4,2-4]
 [Hyperplasia TGLS = 2-4,2-4]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 261

TRT#: 6

SEX: Female

DAY ON TEST: 728

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U261

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Larynx	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Intestine Large, Rectum	* Lymph Node, Mediastinal
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OBSERVATIONS

* Bone Marrow	Erythroid Cell	Hyperplasia	Moderate
* Intestine Small, Duodenum		Inflammation	Marked
* Liver		Hepatocellular Carcinoma	
Note: large cysts w/ hemorrhage in tumor [Hepatocellular Carcinoma TGLS = 2-9,3]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Hyperplasia	Macrophage, Mild
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitium	Infiltration Cellular	Minimal
	Alveolus	Proteinosis	Marked
Note: mets numerous, influence lung lesions Note: dTGL"lung,cyst"=mets w/ central necrosis [Hepatocellular Carcinoma TGLS = 3,4-4,10,11]			
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
		Hyperplasia	Lymphoid, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 261

TRT#: 6

SEX: Female

DAY ON TEST: 728

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U261

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CO/MSAC=ehpatocellular Ca

Animal Note: recuts on duod.=ulcerative inflam.,no neoplasia

Animal Note: focal inflam. ulcerates in muscularis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 262

TRT#: 6

DOSE: 0.6MG/M3

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 733

HISTO: MZ34/U262

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Nose	* Ovary	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mesenteric

OBSERVATIONS

* Lung	Alveolar Epith	Hyperplasia	Moderate
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitial	Infiltration Cellular	Moderate
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Moderate
	[Hyperplasia TGLS = 5,6-4]		
	[Hyperplasia TGLS = 5,6-4]		
	[Hyperplasia TGLS = 5,6-4]		
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
		Hyperplasia	Lymphoid, Moderate
	[Hyperplasia TGLS = 7-4,7-4]		
	[Hyperplasia TGLS = 7-4,7-4]		
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Infiltration Cellular	Lymphocyte, Mild
* Spleen		Hyperplasia	Lymphoid, Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 262

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U262

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: TGL"red" not considered gross lesion of neoplasia

Animal Note: MES LN NOT ON RECUTS OF SLIDE 5

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 263

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U263

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Liver		Hepatocellular Adenoma Mixed Cell Focus	Multiple
		[Hepatocellular Adenoma TGLS = 1-9]	
		[Mixed Cell Focus TGLS = 3-11]	
* Lung	Alveolar Epith Alveolus Interstitium	Hyperplasia Hyperplasia Infiltration Cellular Inflammation	Mild Macrophage, Mild Mild Chronic Active, Minimal
	Alveolus	Proteinosis	Moderate
* Lymph Node, Bronchial		Hyperplasia Hyperplasia	Lymphoid, Moderate Macrophage, Minimal
		[Hyperplasia TGLS = 2-4,2-4]	
		[Hyperplasia TGLS = 2-4,2-4]	
* Spleen		Hyperplasia	Lymphoid, Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 264

TRT#: 6

DOSE: 0.6MG/M3

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 734

HISTO: MZ34/U264

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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
* Larynx	* Liver	* Lymph Node, Mandibular	* Mammary Gland
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Clitoral Gland		Inflammation	Minimal
[Inflammation TGLS = 1-6]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Interstitium	Infiltration Cellular	Moderate
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Moderate
[Hyperplasia TGLS = 4,5-4,9]			
[Hyperplasia TGLS = 4,5-4,9]			
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Moderate
		Hyperplasia	Macrophage, Minimal
[Hyperplasia TGLS = 6-4,6-4]			
[Hyperplasia TGLS = 6-4,6-4]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 6-4]			
* Pancreas		Infiltration Cellular	Lymphocyte, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-8]			
* Spleen		Hyperplasia	Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 264

TRT#: 6
DOSE: 0.6MG/M3

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 734
HISTO: MZ34/U264

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

Follicular Cel

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 265

TRT#: 6

SEX: Female

DAY ON TEST: 477

DOSE: 0.6MG/M3

DISP: Scheduled Sacrifice

HISTO: MZ34/U265

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* 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	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mediastinal	* Parathyroid Gland
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OBSERVATIONS

* Intestine Large, Cecum		Hyperplasia	Lymphoid, Mild
* Larynx		Inflammation	Chronic, Mild
* Lung	Alveolus	Hyperplasia	Macrophage, Mild
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitium	Infiltration Cellular	Moderate
	Alveolus	Proteinosis	Mild
[Proteinosis TGLS = 2,3,4,5-4]			
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Marked
		Hyperplasia	Macrophage, Minimal
[Hyperplasia TGLS = 6-4,6-4]			
[Hyperplasia TGLS = 6-4,6-4]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 6-4]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 266

TRT#: 6

DOSE: 0.6MG/M3

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 733

HISTO: MZ34/U266

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Larynx	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Kidney		Infiltration Cellular	Lymphocyte, Mild
* Lung	Alveolar Epith	Hyperplasia	Moderate
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Marked
	Interstitium	Infiltration Cellular	Minimal
		Inflammation	Chronic Active, Moderate
	Alveolus	Proteinosis	Mild
	[Hyperplasia TGLS = 3,4-4,10]		
	[Hyperplasia TGLS = 3,4-4,10]		
	[Hyperplasia TGLS = 3,4-4,10]		
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Marked
		Hyperplasia	Macrophage, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Ovary		Luteoma	
Note: thecomatous pattern			
Skeletal Muscle		Hemangiosarcoma	
Note: of right hind leg			
Note: malignant DX based on anaplasia & invasion			
	[Hemangiosarcoma TGLS = 1-9]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 266

TRT#: 6
DOSE: 0.6MG/M3

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 733
HISTO: MZ34/U266

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Moderate
[Hyperplasia TGLS = 2-6,11]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 267	TRT#: 6 DOSE: 0.6MG/M3	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 736 HISTO: MZ34/U267
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ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst TGLS = 2-5,9]

* Spleen		Hyperplasia	Lymphoid, Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 268

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U268

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Liver		Hepatocellular Adenoma	
Note: liver slide 10 is normal			
[Hepatocellular Adenoma TGLS = 2-3,9]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitialium	Infiltration Cellular	Moderate
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Marked
[Hyperplasia TGLS = 4-4]			
[Hyperplasia TGLS = 4-4]			
[Hyperplasia TGLS = 4-4]			
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Moderate
		Hyperplasia	Lymphoid, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Moderate
[Hyperplasia TGLS = 1-6]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 269

TRT#: 6

SEX: Female

DAY ON TEST: 712

DOSE: 0.6MG/M3

DISP: Natural Death

HISTO: MZ34/U269

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Islets, Pancreatic
* Larynx	* Mammary Gland	* Ovary	* Parathyroid Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Uterus		

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	

OBSERVATIONS

* Clitoral Gland [Ectasia TGLS = 1-6]		Ectasia	Minimal
* Kidney		Lymphoma Malignant	
* Liver		Angiectasis	Marked
		Hepatocellular Adenoma	
		Lymphoma Malignant	
Note: adenoma has marked angiectasia [Hepatocellular Adenoma TGLS = 4-11] [Lymphoma Malignant TGLS = 5-3]			
* Lung	Alveolar Epith Alveolus	Hyperplasia	Minimal
		Hyperplasia	Macrophage, Moderate
		Inflammation	Chronic Active, Minimal
		Lymphoma Malignant Lymphocytic	Metastatic (Uncertain Primary Site)
	Alveolus	Proteinosis	Mild
Note: grading compromised by lymphoma infiltrates in institium			
Lymph Node	Iliac	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
* Lymph Node, Bronchial		Lymphoma Malignant	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 269	TRT#: 6	SEX: Female	DAY ON TEST: 712
	DOSE: 0.6MG/M3	DISP: Natural Death	HISTO: MZ34/U269

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mandibular [Lymphoma Malignant TGLS = 7-9,2-6,9-4,6-10,8-2]		Lymphoma Malignant	
* Lymph Node, Mediastinal [Lymphoma Malignant TGLS = 7-9,2-6,9-4,6-10,8-2]		Lymphoma Malignant	
* Lymph Node, Mesenteric [Lymphoma Malignant TGLS = 6-10,7-9,2-6,9-4,8-2]		Lymphoma Malignant	
* Nose	Olfactory Epi	Atrophy	Minimal
* Pancreas		Lymphoma Malignant	
* Pituitary Gland Note: adenoma has ectasia [Adenoma TGLS = 10-8]	Pars Distalis	Adenoma	
* Salivary Glands		Lymphoma Malignant	
* Spleen [Lymphoma Malignant TGLS = 3-3]		Lymphoma Malignant	
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Urinary Bladder		Lymphoma Malignant	

PRIMARY CAUSE OF DEATH

-

Animal Note: COD=malignant lymphoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 270

TRT#: 6

SEX: Female

DAY ON TEST: 477

DOSE: 0.6MG/M3

DISP: Scheduled Sacrifice

HISTO: MZ34/U270

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mediastinal	* Parathyroid Gland
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OBSERVATIONS

* Lung	Alveolus Interstitial	Hyperplasia Infiltration Cellular Inflammation	Macrophage, Minimal Mild Chronic Active, Moderate
* Lymph Node, Bronchial	Alveolus	Proteinosis Hyperplasia Hyperplasia	Marked Lymphoid, Mild Macrophage, Minimal
[Hyperplasia TGLS = 3-4,3-4] [Hyperplasia TGLS = 3-4,3-4]			
* Uterus [Hyperplasia TGLS = 1-9]	Endometrium	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 271

TRT#: 6

DOSE: 0.6MG/M3

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 733

HISTO: MZ34/U271

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Larynx	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Uterus		

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Bone	Femur	Hyperostosis	
* Lung		Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Mild
	Interstitium	Infiltration Cellular	Marked
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Moderate
	[Hyperplasia TGLS = 2-4]		
	[Hyperplasia TGLS = 2-4]		
	[Hyperplasia TGLS = 2-4]		
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
		Hyperplasia	Lymphoid, Mild
	[Hyperplasia TGLS = 3-4,3-4]		
	[Hyperplasia TGLS = 3-4,3-4]		
* Ovary		Cyst	
	Note: cyst is hemorrhagic		
	Note: papillary structure is ciliated fimbria		
	[Cyst TGLS = 1-9]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 271	TRT#: 6 DOSE: 0.6MG/M3	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 733 HISTO: MZ34/U271
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Angiectasis TGLS = 4-8]		Angiectasis	Moderate
* Spleen		Hyperplasia	Lymphoid, Mild
* Thymus		Hyperplasia	Lymphoid, Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 272

TRT#: 6

SEX: Female

DAY ON TEST: 711

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U272

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Lung	Alveolar Epith Alveolus Bronchus Interstitialium Alveolus [Proteinosis TGLS = 4-4]	Hyperplasia Hyperplasia Hyperplasia Infiltration Cellular Inflammation Proteinosis	Mild Macrophage, Mild Lymphoid, Moderate Moderate Chronic Active, Mild Marked
* Lymph Node, Bronchial		Hyperplasia Hyperplasia	Lymphoid, Mild Macrophage, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Mammary Gland		Adenocarcinoma Hyperplasia	Moderate
Note: TNOS=mammary adenocarcinoma [Adenocarcinoma TGLS = 1-9] [Hyperplasia TGLS = 6-6]			
* Nose	Olfactory Epi	Degeneration Inflammation	Minimal Acute, Minimal
* Pituitary Gland [Hyperplasia TGLS = 5-8]	Pars Distalis	Hyperplasia	Moderate
* Spleen [Hyperplasia TGLS = 2-3]		Hyperplasia	Lymphoid, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 272

TRT#: 6

SEX: Female

DAY ON TEST: 711

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U272

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland
Tissue NOS

Follicular Cel

Adenoma

Note: TNOS TGL=mammary adenocarcinoma

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=mammary adenocarcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 273

TRT#: 6

DOSE: 0.6MG/M3

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 735

HISTO: MZ34/U273

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Liver		Hemangiosarcoma Hepatocellular Adenoma	
	[Hemangiosarcoma TGLS = 2-10] [Hepatocellular Adenoma TGLS = 3-9]		
* Lung	Alveolar Epith Alveolus Bronchus Interstitium Alveolus	Hyperplasia Hyperplasia Hyperplasia Infiltration Cellular Inflammation Proteinosis	Mild Macrophage, Moderate Lymphoid, Mild Marked Chronic Active, Mild Minimal
* Lymph Node, Bronchial		Hyperplasia Hyperplasia	Lymphoid, Moderate Macrophage, Minimal
	[Hyperplasia TGLS = 1-6,1-6,5-4,5-4] [Hyperplasia TGLS = 1-6,1-6,5-4,5-4]		
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
	[Hyperplasia TGLS = 1-6,5-4]		
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
	[Hyperplasia TGLS = 1-6,5-4]		
* Nose		Inflammation	Acute, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 273	TRT#: 6 DOSE: 0.6MG/M3	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO: MZ34/U273
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Spleen		Hyperplasia	Lymphoid, Moderate
* Uterus	Endometrium	Hyperplasia	Marked

[Hyperplasia TGLS = 4-6,11]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 274

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U274

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx
* Lymph Node, Mandibular	* 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, Mediastinal

OBSERVATIONS

* Bone	Femur	Hyperostosis	
* Kidney		Infiltration Cellular	Lymphocyte, Mild
* Liver		Histiocytic Sarcoma	
[Histiocytic Sarcoma TGLS = 5,6-3,10]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitium	Infiltration Cellular	Moderate
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Mild
[Hyperplasia TGLS = 8-4]			
[Hyperplasia TGLS = 8-4]			
[Hyperplasia TGLS = 8-4]			
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Minimal
		Hyperplasia	Lymphoid, Minimal
[Hyperplasia TGLS = 7-4,7-4]			
[Hyperplasia TGLS = 7-4,7-4]			
* Nose	Olfactory Epi	Atrophy	Minimal
	Olfactory Epi	Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 274	TRT#: 6 DOSE: 0.6MG/M3	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: MZ34/U274
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas Note: zymogen granules sparce, few lymphoid infiltr.=not lesion	Inflammation	Acute, Moderate
* Spleen [Hematopoietic Cell Proliferation TGLS = 3-3]	Hematopoietic Cell Proliferation	Marked
* Thyroid Gland Follicular Cel	Hyperplasia	Minimal
* Uterus Endometrium [Histiocytic Sarcoma TGLS = 1-9]	Histiocytic Sarcoma Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH -

Animal Note: Dx based on distribution & cytologic features

Animal Note: Cytolog.featur.= discrete cells, large , reniform nuclei

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 275

TRT#: 6

DOSE: 0.6MG/M3

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 733

HISTO: MZ34/U275

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone	Femur	Hyperostosis	
* Kidney		Infiltration Cellular	Lymphocyte, Mild
* Liver		Hepatocellular Adenoma	
Note: DX based on trabecular pattern, no tumor on slide 10 [Hepatocellular Adenoma TGLS = 2-9]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Mild
	Interstitium	Infiltration Cellular	Marked
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Marked
[Hyperplasia TGLS = 3-11,12]			
[Hyperplasia TGLS = 3-11,12]			
[Hyperplasia TGLS = 3-11,12]			
[Proteinosis TGLS = 3-4]			
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Mild
		Hyperplasia	Macrophage, Minimal
[Hyperplasia TGLS = 4-4,4-4]			
[Hyperplasia TGLS = 4-4,4-4]			
* Mammary Gland		Adenocarcinoma	
		Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 275

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U275

ORGAN AND ACCOUNTABLE SITE STATUS

Note: acinar type based onTB Dunn, 1959
[Adenocarcinoma TGLS = 1-13]

* Nose	Olfactory Epi	Atrophy	Minimal
* Spleen		Hyperplasia	Lymphoid, Mild
* Uterus	Endometrium	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 276

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U276

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	

MISSING

* Lymph Node, Mediastinal

INSUFFICIENT TISSUE

* Larynx

OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
* Intestine Large, Cecum	Lymphoid Tiss	Hyperplasia	Lymphoid, Marked
[Hyperplasia TGLS = 6-11]			
* Kidney		Infiltration Cellular	Lymphocyte, Mild
* Liver		Hepatocellular Adenoma	
		Infarct	Marked
		Infiltration Cellular	Lymphocyte, Mild
Note: infarction is of entire lobe			
Note: no tumor on slide 10			
[Hepatocellular Adenoma TGLS = 5-9]			
[Infarct TGLS = 4-3]			
* Lung		Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitialium	Infiltration Cellular	Marked
		Inflammation	Chronic Active, Moderate
	Alveolus	Proteinosis	Moderate
[Hyperplasia TGLS = 9-4]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 276	TRT#: 6	SEX: Female	DAY ON TEST: 735
	DOSE: 0.6MG/M3	DISP: Terminal Sacrifice	HISTO: MZ34/U276

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 9-4]			
[Hyperplasia TGLS = 9-4]			
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Moderate
		Hyperplasia	Macrophage, Minimal
[Hyperplasia TGLS = 1-6,1-6,8-4,8-4]			
[Hyperplasia TGLS = 1-6,1-6,8-4,8-4]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 1-6,8-4]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 1-6,8-4]			
* Mammary Gland		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Spleen		Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 2-3]			
* Thymus		Hyperplasia	Lymphoid, Marked
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
* Uterus	Endometrium	Hyperplasia	Moderate
[Hyperplasia TGLS = 3-12,6]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 277

TRT#: 6

SEX: Female

DAY ON TEST: 605

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U277

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Abscess

Marked

[Abscess TGLS = 3-10]

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=keratoacanthoma/skin of thorax

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 278

TRT#: 6

DOSE: 0.6MG/M3

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 736

HISTO: MZ34/U278

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Larynx	* Mammary Gland	* Ovary	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Lymphoma Malignant	
* Liver		Lymphoma Malignant	
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Marked
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Moderate
	Alveolus	Proteinosis	Marked
Lymph Node	Pancreatic	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
	[Lymphoma Malignant TGLS = 5-10,3-5]		
	[Lymphoma Malignant TGLS = 5-10,3-5]		
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal
		Hyperplasia	Macrophage, Minimal
	[Hyperplasia TGLS = 6-4,6-4]		
	[Hyperplasia TGLS = 6-4,6-4]		
* Lymph Node, Mediastinal		Lymphoma Malignant	
	[Lymphoma Malignant TGLS = 5-10,3-5]		
* Lymph Node, Mesenteric		Lymphoma Malignant	
	[Lymphoma Malignant TGLS = 5-10,3-5]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 278	TRT#: 6 DOSE: 0.6MG/M3	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 736 HISTO: MZ34/U278
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ORGAN AND ACCOUNTABLE SITE STATUS

* Nose		Inflammation	Acute, Minimal
* Pancreas		Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 2-9]			
* Uterus	Endometrium	Hyperplasia Inflammation	Moderate Minimal
[Hyperplasia TGLS = 4-6]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 279	TRT#: 8	SEX: Female	DAY ON TEST: 197
	DOSE: 0.6MG/M3LUNG TOX	DISP: Scheduled Sacrifice	HISTO: MZ34-U279

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney	* Lymph Node, Bronchial	* Nose
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MISSING

* Lymph Node, Mandibular	* Lymph Node, Mediastinal
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OBSERVATIONS

* Lung	Alveolus	Hyperplasia	Macrophage, Minimal
	Interstitialium	Infiltration Cellular	Mild
	Alveolus	Proteinosis	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 280

TRT#: 6

DOSE: 0.6MG/M3

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 733

HISTO: MZ34/U280

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* 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	* Larynx
* Liver	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Atrophy	Moderate
* Kidney		Lymphoma Malignant	
* Lung		Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Marked
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Mild
Lymph Node	Axillary	Lymphoma Malignant	
	Iliac	Lymphoma Malignant	
	Pancreatic	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
	[Lymphoma Malignant TGLS = 5-13,10-2,7-14,4-12,8-11,1-6,11-4,3-10]		
	[Lymphoma Malignant TGLS = 5-13,10-2,7-14,4-12,8-11,1-6,11-4,3-10]		
	[Lymphoma Malignant TGLS = 5-13,10-2,7-14,4-12,8-11,1-6,11-4,3-10]		
	[Lymphoma Malignant TGLS = 5-13,10-2,7-14,4-12,8-11,1-6,11-4,3-10]		
* Lymph Node, Bronchial		Lymphoma Malignant	
	[Lymphoma Malignant TGLS = 5-13,10-2,7-14,4-12,8-11,1-6,11-4,3-10]		
* Lymph Node, Mandibular		Lymphoma Malignant	
	[Lymphoma Malignant TGLS = 5-13,10-2,7-14,4-12,8-11,1-6,11-4,3-10]		
* Lymph Node, Mediastinal		Lymphoma Malignant	
	[Lymphoma Malignant TGLS = 5-13,10-2,7-14,4-12,8-11,1-6,11-4,3-10]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 280	TRT#: 6 DOSE: 0.6MG/M3	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 733 HISTO: MZ34/U280
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ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric [Lymphoma Malignant TGLS = 5-13,10-2,7-14,4-12,8-11,1-6,11-4,3-10]	Lymphoma Malignant	
* Mammary Gland	Hyperplasia	Moderate
* Nose	Inflammation	Acute, Mild
* Ovary [Lymphoma Malignant TGLS = 6-6]	Lymphoma Malignant	
* Pituitary Gland [Angiectasis TGLS = 12-8]	Angiectasis	Moderate
* Spleen [Lymphoma Malignant TGLS = 2-9]	Lymphoma Malignant	
* Stomach, Glandular	Inflammation	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 281

TRT#: 6

DOSE: 0.6MG/M3

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 655

HISTO: MZ34/U281

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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
* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Bone Marrow	Myeloid Cell	Atrophy	Moderate
* Liver		Atrophy	Moderate
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Mild
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Moderate
	Alveolus	Proteinosis	Marked
Note: TGL#3 could be artifact			
[Inflammation TGLS = 3-9]			
[Proteinosis TGLS = 2-4]			
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Minimal
		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Mild
* Nose	Olfactory Epi	Atrophy	Minimal
* Pituitary Gland		Angiectasis	Marked
* Spleen	Red Pulp	Atrophy	Moderate
* Thymus		Degeneration	Marked
* Uterus		Cyst	
[Cyst TGLS = 1-10]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 281

TRT#: 6

SEX: Female

DAY ON TEST: 655

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U281

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=undetermined

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 283

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U283

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Larynx
* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
* Kidney		Infiltration Cellular	Lymphocyte, Minimal
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Moderate
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Moderate
		Hyperplasia	Macrophage, Minimal
		[Hyperplasia TGLS = 1-4,1-4]	
		[Hyperplasia TGLS = 1-4,1-4]	
* Mammary Gland		Hyperplasia	Mild
* Nose		Inflammation	Acute, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
* Spleen		Hyperplasia	Lymphoid, Mild
* Stomach, Glandular		Inflammation	Minimal
* Thymus		Degeneration	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 284

TRT#: 6

SEX: Female

DAY ON TEST: 655

DOSE: 0.6MG/M3

DISP: Natural Death

HISTO: MZ34/U284

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Kidney	* Larynx	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Mammary Gland	* Nose	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Uterus			

MISSING

* Gallbladder	* Ovary
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AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Pancreas	* Urinary Bladder		

OBSERVATIONS

* Liver [Hepatocellular Carcinoma TGLS = 2-3]	Hepatocellular Carcinoma	
* Lung Note: some inflammation & interstitial infiltrates Note: autolysis prevents accurate lesion grading [Hepatocellular Carcinoma TGLS = 6-9,5,7,8-4]	Hepatocellular Carcinoma	Metastatic (Liver)
* Spleen [Hyperplasia TGLS = 1-3]	Hyperplasia	Lymphoid, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: COD=metastasizing dhepatocellular carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 285

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U285

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Bone	Femur	Hyperostosis	
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	
Note: Ca DX based on tabecular pattern & wild growth [Hepatocellular Carcinoma TGLS = 1-9]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Interstitium	Infiltration Cellular	Moderate
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Moderate
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Mild
		Hyperplasia	Macrophage, Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 287

TRT#: 6

SEX: Female

DAY ON TEST: 477

DOSE: 0.6MG/M3

DISP: Scheduled Sacrifice

HISTO: MZ34/U287

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* 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	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Intestine Large, Rectum	* Larynx	* Lymph Node, Mediastinal	
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OBSERVATIONS

* Clitoral GI			
Note: NO CORRESPONDING LESION			
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Hyperplasia	Macrophage, Mild
	Bronchus	Hyperplasia	Lymphoid, Moderate
	Interstitialium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Moderate
	Alveolus	Proteinosis	Marked
[Proteinosis TGLS = 5-4]			
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Minimal
		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 4-4,4-4]			
[Hyperplasia TGLS = 4-4,4-4]			
* Uterus	Endometrium	Hyperplasia	Moderate
[Hyperplasia TGLS = 2-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 291

TRT#: 6

SEX: Female

DAY ON TEST: 425

DOSE: 0.6MG/M3

DISP: Natural Death

HISTO: MZ34/U291

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------|--------------------------|----------------------|-------------------|
| * Bone | * Brain | * Clitoral Gland | * Esophagus |
| * Heart | * Intestine Large, Colon | * Islets, Pancreatic | * Larynx |
| * Mammary Gland | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Uterus | | |

AUTO PRECLUDES DIAG.

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Gallbladder | * Intestine Large, Cecum | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Urinary Bladder | |

OBSERVATIONS

- | | | | |
|------------------------------|--|--------------------|---------------------|
| * Adrenal Cortex | | Lymphoma Malignant | |
| * Adrenal Medulla | | Lymphoma Malignant | |
| * Bone Marrow | | Lymphoma Malignant | |
| * Kidney | | Lymphoma Malignant | |
| * Liver | | Lymphoma Malignant | |
| | | Necrosis | Moderate |
| Note: massive liver necrosis | | | |
| | | | |
| | [Lymphoma Malignant TGLS = 8-3] | | |
| * Lung | Alveolus | Hyperplasia | Macrophage, Minimal |
| | | Lymphoma Malignant | |
| | Alveolus | Proteinosis | Minimal |
| | [Lymphoma Malignant TGLS = 12-4] | | |
| Lymph Node | Axillary | Lymphoma Malignant | |
| | Iliac | Lymphoma Malignant | |
| | Inguinal | Lymphoma Malignant | |
| | Pancreatic | Lymphoma Malignant | |
| | Renal | Lymphoma Malignant | |
| | [Lymphoma Malignant TGLS = 6-13,3-9,5-5,9-10,2-6,1-11,11-4,7-12] | | |
| | [Lymphoma Malignant TGLS = 6-13,3-9,5-5,9-10,2-6,1-11,11-4,7-12] | | |
| | [Lymphoma Malignant TGLS = 6-13,3-9,5-5,9-10,2-6,1-11,11-4,7-12] | | |
| | [Lymphoma Malignant TGLS = 6-13,3-9,5-5,9-10,2-6,1-11,11-4,7-12] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 291

TRT#: 6

SEX: Female

DAY ON TEST: 425

DOSE: 0.6MG/M3

DISP: Natural Death

HISTO: MZ34/U291

ORGAN AND ACCOUNTABLE SITE STATUS

[Lymphoma Malignant TGLS = 6-13,3-9,5-5,9-10,2-6,1-11,11-4,7-12]			
* Lymph Node, Bronchial		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 6-13,3-9,5-5,9-10,2-6,1-11,11-4,7-12]			
* Lymph Node, Mandibular		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 6-13,3-9,5-5,9-10,2-6,1-11,11-4,7-12]			
* Lymph Node, Mediastinal		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 6-13,3-9,5-5,9-10,2-6,1-11,11-4,7-12]			
* Lymph Node, Mesenteric		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 6-13,3-9,5-5,9-10,2-6,1-11,11-4,7-12]			
* Nose	Olfactory Epi	Atrophy	Minimal
* Ovary		Lymphoma Malignant	
* Pancreas		Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 4-3]			
* Thymus		Lymphoma Malignant	

PRIMARY CAUSE OF DEATH -

Animal Note: COD=lymphoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 293

TRT#: 6

SEX: Female

DAY ON TEST: 520

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U293

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Liver		Atrophy Hepatocellular Adenoma	Moderate Multiple
	[Hepatocellular Adenoma TGLS = 2-9,3-10]		
* Lung	Alveolar Epith Alveolus Bronchus Interstitium	Hyperplasia Hyperplasia Hyperplasia Infiltration Cellular Inflammation	Minimal Macrophage, Mild Lymphoid, Minimal Moderate Chronic Active, Minimal
	Alveolus	Proteinosis	Marked
* Lymph Node, Bronchial		Hyperplasia Hyperplasia	Lymphoid, Mild Macrophage, Minimal
* Nose		Inflammation	Acute, Minimal
* Uterus			

Note: uterine dilation w/ fluid, not real lesion

PRIMARY CAUSE OF DEATH

-

Animal Note: CA/MSAC=? respiratory insufficiency

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 294

TRT#: 8

SEX: Female

DAY ON TEST: 197

DOSE: 0.6MG/M3LUNG TOX

DISP: Scheduled Sacrifice

HISTO: MZ34-U294

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney

* Nose

MISSING

* Lymph Node, Bronchial

* Lymph Node, Mediastinal

OBSERVATIONS

* Lung

Alveolus
Interstitialium

Hyperplasia
Infiltration Cellular
Inflammation

Macrophage, Minimal
Minimal
Chronic Active, Minimal

Alveolus

Proteinosis

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 295

TRT#: 6

DOSE: 0.6MG/M3

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 733

HISTO: MZ34/U295

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Clitoral GI			
Note: TGL"pigment"=not significant lesion			
* Liver		Eosinophilic Focus Inflammation	Moderate
Note: chronic granulomatous interstitial inflammation			
[Eosinophilic Focus TGLS = 4-10]			
* Lung	Alveolar Epith Alveolus Interstitium	Hyperplasia Hyperplasia Infiltration Cellular Inflammation Proteinosis	Mild Macrophage, Marked Moderate Chronic Active, Moderate Mild
[Hyperplasia TGLS = 7,8-4]			
[Hyperplasia TGLS = 7,8-4]			
Lymph Node	Renal	Hyperplasia	Lymphoid, Marked
[Hyperplasia TGLS = 6-4,5-9]			
* Lymph Node, Bronchial		Hyperplasia Hyperplasia	Macrophage, Moderate Lymphoid, Mild
[Hyperplasia TGLS = 6-4,6-4,5-9,5-9]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 295	TRT#: 6	SEX: Female	DAY ON TEST: 733
	DOSE: 0.6MG/M3	DISP: Terminal Sacrifice	HISTO: MZ34/U295

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 6-4,6-4,5-9,5-9]		
* Ovary	Cyst	
Note: epithelial cyst w/ squamous & osseous metaplasia		
[Cyst TGLS = 3-6]		
* Spleen	Hyperplasia	Lymphoid, Marked
[Hyperplasia TGLS = 2-3]		

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 296

TRT#: 6

DOSE: 0.6MG/M3

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 736

HISTO: MZ34/U296

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx	* Liver	* 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

* Lymph Node, Mediastinal

OBSERVATIONS

* Lung		Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Interstitium	Infiltration Cellular	Moderate
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Marked
	[Proteinosis TGLS = 3-4]		
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Moderate
		Hyperplasia	Macrophage, Mild
	[Hyperplasia TGLS = 2-4,2-4]		
	[Hyperplasia TGLS = 2-4,2-4]		
* Nose	Olfactory Epi	Atrophy	Minimal
* Spleen		Hyperplasia	Lymphoid, Mild
* Uterus	Endometrium	Hyperplasia	Mild
	[Hyperplasia TGLS = 1-6]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 297	TRT#: 8 DOSE: 0.6MG/M3LUNG TOX	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: 197 HISTO: MZ34-U297
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Nose
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MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Lung	Alveolus Interstitialium Alveolus	Hyperplasia Infiltration Cellular Proteinosis	Macrophage, Minimal Mild Minimal
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PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 298

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U298

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx
* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Bone	Femur	Hyperostosis	
* Clitoral Gland		Inflammation	Minimal
[Inflammation TGLS = 1-6]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Interstitialium	Infiltration Cellular	Moderate
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Mild
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Mild
		Hyperplasia	Macrophage, Mild
[Hyperplasia TGLS = 3-4,3-4]			
[Hyperplasia TGLS = 3-4,3-4]			
* Nose	Olfactory Epi	Atrophy	Minimal
* Ovary		Cyst	
Note: epithelial type cysts			
[Cyst TGLS = 2-6]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Spleen		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 298

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U298

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Endometrium

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 299

TRT#: 6

DOSE: 0.6MG/M3

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 734

HISTO: MZ34/U299

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Larynx	* Liver	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Bone	Femur	Hyperostosis	
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Interstitium	Infiltration Cellular	Moderate
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Moderate
	[Hyperplasia TGLS = 6-4]		
	[Hyperplasia TGLS = 6-4]		
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
		Hyperplasia	Lymphoid, Mild
	[Hyperplasia TGLS = 2-6,2-6,5-4,5-4]		
	[Hyperplasia TGLS = 2-6,2-6,5-4,5-4]		
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
	[Hyperplasia TGLS = 2-6,5-4]		
* Mammary Gland		Hyperplasia	Moderate
	[Hyperplasia TGLS = 1-6]		
* Nose		Inflammation	Acute, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 7-8]		
* Spleen		Hyperplasia	Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 299	TRT#: 6 DOSE: 0.6MG/M3	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: MZ34/U299
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ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 3-3]			
* Stomach, Glandular		Inflammation	Minimal
* Thyroid Gland	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Marked
[Hyperplasia TGLS = 4-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 300	TRT#: 8	SEX: Female	DAY ON TEST: 197
	DOSE: 0.6MG/M3LUNG TOX	DISP: Scheduled Sacrifice	HISTO: MZ34-U300

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney * Nose

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Lung	Alveolus	Hyperplasia	Macrophage, Minimal
	Interstitium	Infiltration Cellular	Minimal
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Minimal
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal
		Hyperplasia	Macrophage, Minimal
	[Hyperplasia TGLS = 1-5]		
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
	[Hyperplasia TGLS = 1-5]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 301

TRT#: 6

SEX: Female

DAY ON TEST: 653

DOSE: 0.6MG/M3

DISP: Natural Death

HISTO: MZ34/U301

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Parathyroid Gland
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Uterus		

MISSING

* Trachea

OBSERVATIONS

* Adrenal Cortex		Lymphoma Malignant
* Bone Marrow		Lymphoma Malignant
* Brain		Lymphoma Malignant
* Gallbladder		Lymphoma Malignant
* Islets, Pancreatic		Lymphoma Malignant
Note: see slide 10		
* Kidney		Lymphoma Malignant
[Lymphoma Malignant TGLS = 11-3]		
* Larynx		Lymphoma Malignant
* Liver		Lymphoma Malignant
[Lymphoma Malignant TGLS = 8-3]		
* Lung		Lymphoma Malignant
Note: lesion grading completely obscured by infiltrates		
[Lymphoma Malignant TGLS = 15-4]		
Lymph Node	Axillary	Lymphoma Malignant
	Iliac	Lymphoma Malignant
	Inguinal	Lymphoma Malignant
	Pancreatic	Lymphoma Malignant
	Renal	Lymphoma Malignant
[Lymphoma Malignant TGLS = 12-5,13,10-11,14-4,2-9,9-10,16-12,1-6,13-2]		
[Lymphoma Malignant TGLS = 12-5,13,10-11,14-4,2-9,9-10,16-12,1-6,13-2]		
[Lymphoma Malignant TGLS = 12-5,13,10-11,14-4,2-9,9-10,16-12,1-6,13-2]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 301	TRT#: 6	SEX: Female	DAY ON TEST: 653
	DOSE: 0.6MG/M3	DISP: Natural Death	HISTO: MZ34/U301

ORGAN AND ACCOUNTABLE SITE STATUS

[Lymphoma Malignant TGLS = 12-5,13,10-11,14-4,2-9,9-10,16-12,1-6,13-2]			
[Lymphoma Malignant TGLS = 12-5,13,10-11,14-4,2-9,9-10,16-12,1-6,13-2]			
* Lymph Node, Bronchial		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 12-5,13,10-11,14-4,2-9,9-10,16-12,1-6,13-2]			
* Lymph Node, Mandibular		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 12-5,13,10-11,14-4,2-9,9-10,16-12,1-6,13-2]			
* Lymph Node, Mediastinal		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 12-5,13,10-11,14-4,2-9,9-10,16-12,1-6,13-2]			
* Lymph Node, Mesenteric		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 12-5,13,10-11,14-4,2-9,9-10,16-12,1-6,13-2]			
* Mammary Gland		Lymphoma Malignant	
Mesentery		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 6-5]			
* Nose	Olfactory Epi	Atrophy	Minimal
* Ovary		Lymphoma Malignant	
* Pancreas		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 7-5]			
* Salivary Glands		Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 5-3]			
* Thymus		Lymphoma Malignant	
* Urinary Bladder		Lymphoma Malignant	

PRIMARY CAUSE OF DEATH -

Animal Note: COD=widespead lymphoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 302

TRT#: 6

SEX: Female

DAY ON TEST: 694

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U302

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Larynx	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Pituitary Gland

OBSERVATIONS

* Bone Marrow	Erythroid Cell	Hyperplasia	Moderate
* Islets, Pancreatic		Adenoma	
* Kidney		Infiltration Cellular	Lymphocyte, Mild
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Mild
	Bronchus	Hyperplasia	Lymphoid, Moderate
	Interstitium	Infiltration Cellular	Minimal
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Moderate
	[Proteinosis TGLS = 5-4]		
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Mild
		Hyperplasia	Macrophage, Minimal
* Lymph Node, Mesenteric		Hemangiosarcoma	Metastatic (Spleen)
		[Hemangiosarcoma TGLS = 2-5]	
* Nose	Olfactory Epi	Atrophy	Minimal
* Ovary		Cyst	
		[Cyst TGLS = 3-6]	
* Pituitary Gl			
Note: no PIT.in block or residual wet tissues			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 302	TRT#: 6 DOSE: 0.6MG/M3	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 694 HISTO: MZ34/U302
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ORGAN AND ACCOUNTABLE SITE STATUS

Skeletal Muscle [Hemangiosarcoma TGLS = 7-10]		Hemangiosarcoma	Metastatic (Spleen)
* Spleen		Hemangiosarcoma Hematopoietic Cell Proliferation	Moderate
Note: considered primary site because of size & history [Hemangiosarcoma TGLS = 1-9]			
* Thyroid Gland Tissue NOS	Follicular Cel	Hyperplasia	Minimal
Note: TGL"tnos"=skel. muscle w/ hemangiosarc. met			

PRIMARY CAUSE OF DEATH -

Animal Note: CO/MSAC=hemangiosarcoma/ spleen w/ met to muscle

Animal Note: xrays show soft tissue mass, no bone involvement

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 303

TRT#: 6

DOSE: 0.6MG/M3

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 734

HISTO: MZ34/U303

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Larynx	* Liver	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Kidney		Infiltration Cellular	Lymphocyte, Minimal
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Interstitium	Infiltration Cellular	Moderate
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Moderate
	[Hyperplasia TGLS = 4-4]		
	[Hyperplasia TGLS = 4-4]		
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Mild
		Hyperplasia	Macrophage, Mild
	[Hyperplasia TGLS = 3-4,3-4,2-6,2-6]		
	[Hyperplasia TGLS = 3-4,3-4,2-6,2-6]		
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
	[Hyperplasia TGLS = 3-4,2-6]		
* Mammary Gland		Hyperplasia	Moderate
	[Hyperplasia TGLS = 1-6]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
	[Hyperplasia TGLS = 5-8]		
* Spleen		Hyperplasia	Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 303

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U303

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

Follicular Cel

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 304

TRT#: 6

SEX: Female

DAY ON TEST: 206

DOSE: 0.6MG/M3

DISP: Natural Death

HISTO: MZ34/U304

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------|------------------------|----------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Esophagus |
| * Heart | * Larynx | * Liver | * Lymph Node, Mandibular |
| * Mammary Gland | * Nose | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Uterus | | | |

MISSING

- | | | |
|------------------|---------------------------|-------------------|
| * Clitoral Gland | * Lymph Node, Mediastinal | * Pituitary Gland |
|------------------|---------------------------|-------------------|

AUTO PRECLUDES DIAG.

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Gallbladder | * 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 | * Thymus |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | |
|---|--------------------|--------------------|
| * Kidney
Note: large mass adjacent to kidney;invades pelvis also
[Teratoma Malignant TGLS = 4-3] | Teratoma Malignant | Metastatic (Ovary) |
| * Lymph Node, Bronchial | Hyperplasia | Lymphoid, Minimal |
| * Ovary
Note: DX based on metastas. neural elements best in mets.
[Teratoma Malignant TGLS = 3-9] | Teratoma Malignant | |
| * Spleen
Note: mass on slide 6,spleen on slide3=normal
[Teratoma Malignant TGLS = 2-6] | Teratoma Malignant | Metastatic (Ovary) |

PRIMARY CAUSE OF DEATH

-

Animal Note: COD=malignant teratoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 305

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U305

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mediastinal

INSUFFICIENT TISSUE

* Larynx

OBSERVATIONS

* Kidney		Infiltration Cellular	Lymphocyte, Minimal
* Liver		Hepatocellular Adenoma	
Note: slide, 10=no lesion			
[Hepatocellular Adenoma TGLS = 1-9]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Interstitium	Infiltration Cellular	Marked
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Moderate
[Hyperplasia TGLS = 4-4]			
[Hyperplasia TGLS = 4-4]			
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal
		Hyperplasia	Macrophage, Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Moderate
[Hyperplasia TGLS = 2-11,6]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 305

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U305

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 306

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U306

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mediastinal	* Parathyroid Gland
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OBSERVATIONS

* Bone	Femur	Hyperostosis	
* Kidney		Infiltration Cellular	Lymphocyte, Moderate
* Liver		Hepatocellular Adenoma	
		Infarct	Marked
Note: infarct is entire lobe,may have been tumor mass			
[Hepatocellular Adenoma TGLS = 1-9]			
[Infarct TGLS = 2-10]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Marked
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitium	Infiltration Cellular	Marked
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Mild
Note: plasma cells,macs in lymphoid infiltrate=inflamm not tumor			
[Hyperplasia TGLS = 5-4]			
[Hyperplasia TGLS = 5-4]			
[Hyperplasia TGLS = 5-4]			
Lymph Node	Iliac	Hyperplasia	Lymphoid, Marked
	Renal	Hyperplasia	Lymphoid, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 306	TRT#: 6	SEX: Female	DAY ON TEST: 736
	DOSE: 0.6MG/M3	DISP: Terminal Sacrifice	HISTO: MZ34/U306

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 4-12,6-4,3-11]			
[Hyperplasia TGLS = 4-12,6-4,3-11]			
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 4-12,6-4,3-11]			
Mesentery			
Note: TGL "Mesentary"=infarcted liver lobe, see LIVER			
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Moderate
* Thyroid Gland	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Mild
Note: DX based on loss follicular pattern, fibrosis, pap patt.			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 307

TRT#: 6

SEX: Female

DAY ON TEST: 530

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U307

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Urinary Bladder			

MISSING

* Intestine Large, Rectum	* Lymph Node, Bronchial	* Trachea
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OBSERVATIONS

* Liver		Degeneration	Mild
Note: vacuolar degeneration			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Mild
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Mild
[Proteinosis TGLS = 2-4]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus		Cyst	Multiple
[Cyst TGLS = 1-6,9]			

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=undetermined

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 308

TRT#: 6

SEX: Female

DAY ON TEST: 116

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U308

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Parathyroid Gland
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INSUFFICIENT TISSUE

* Pituitary Gland

OBSERVATIONS

* Brain			
Note: section of cerebellum missing			
* Liver		Inflammation	Minimal
Note: 1 focus of granulomatous infiltration			
* Lung	Alveolus	Hyperplasia	Macrophage, Minimal
	Interstitialium	Infiltration Cellular	Minimal
* Ovary		Abscess	Marked
		Teratoma Benign	
[Abscess TGLS = 3-6]			
[Teratoma Benign TGLS = 2-6,9]			
* Spleen		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 1-3]			

PRIMARY CAUSE OF DEATH

-

Animal Note: C/MSAC=teratoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 309

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U309

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Larynx	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Bone [Fracture TGLS = 5-11]	Tibia	Fracture	
* Clitoral GI Note: TGL"pigment"=not significant lesion			
* Lung [Hyperplasia TGLS = 3,4-4,9] [Hyperplasia TGLS = 3,4-4,9]	Alveolar Epith Alveolus Interstitium Alveolus	Hyperplasia Hyperplasia Infiltration Cellular Inflammation Proteinosis	Mild Macrophage, Marked Moderate Chronic Active, Mild Marked
* Lymph Node, Bronchial		Hyperplasia Hyperplasia	Macrophage, Minimal Lymphoid, Minimal
* Nose		Inflammation	Acute, Minimal
* Pituitary Gland		Angiectasis	Mild
* Spleen		Hyperplasia	Lymphoid, Mild
* Uterus [Hyperplasia TGLS = 2-6,10]	Endometrium	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 309

TRT#: 6

DOSE: 0.6MG/M3

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 734

HISTO: MZ34/U309

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 310

TRT#: 6

DOSE: 0.6MG/M3

SEX: Female

DISP: Natural Death

DAY ON TEST: 720

HISTO: MZ34/U310

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Larynx
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum

OBSERVATIONS

* Bone Marrow	Erythroid Cell	Hyperplasia	Mild
* Liver		Hepatocellular Carcinoma	
Note: large necrotic, cystic foci in tumor [Hepatocellular Carcinoma TGLS = 2-13,3-12,4-3]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Mild
	Bronchus	Hyperplasia	Lymphoid, Mild
	Interstitium	Infiltration Cellular	Mild
	Alveolus	Proteinosis	Moderate
Note: numerous mets [Hepatocellular Carcinoma TGLS = 5-9,4,9-4,6-11,4,7-10,4]			
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Minimal
		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 8-4,8-4] [Hyperplasia TGLS = 8-4,8-4]			
* Nose	Olfactory Epi	Atrophy	Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 310

TRT#: 6

SEX: Female

DAY ON TEST: 720

DOSE: 0.6MG/M3

DISP: Natural Death

HISTO: MZ34/U310

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

Animal Note: COD=hepatocellular Ca w/ metastasis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 311

TRT#: 6

SEX: Female

DAY ON TEST: 623

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U311

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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
* Larynx	* Liver	* Lymph Node, Mandibular	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
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OBSERVATIONS

* Bone Marrow Note: few endothel.cells line, no anaplasia		Hemangiosarcoma	Metastatic (Tissue Nos)
* Lung	Alveolar Epith Alveolus Bronchus Interstitium Alveolus [Proteinosis TGLS = 5-4,6-11]	Hyperplasia Hyperplasia Hyperplasia Infiltration Cellular Inflammation Proteinosis	Mild Macrophage, Mild Lymphoid, Minimal Moderate Chronic Active, Minimal Moderate
* Lymph Node, Bronchial		Hyperplasia Hyperplasia	Lymphoid, Moderate Macrophage, Minimal
* Spleen Note: many endothel.cells line, some anaplastic		Hemangiosarcoma	Metastatic (Tissue Nos)
Tissue NOS Note: TGL"mediast.In" is hemangiosarc in mediastinum Note: primary because of size & anaplasia [Hemangiosarcoma TGLS = 4-2]	Mediastinum	Hemangiosarcoma	
* Uterus		Cyst	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 311

TRT#: 6

SEX: Female

DAY ON TEST: 623

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U311

ORGAN AND ACCOUNTABLE SITE STATUS

Polyp Stromal

[Cyst TGLS = 2-6]

[Polyp Stromal TGLS = 1-9]

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=metastizing hemangiosarcoma of mediastinum

Animal Note: TGL"mediast.in" is hemangiosarc in mediast. see TNOS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 312

TRT#: 6

SEX: Female

DAY ON TEST: 717

DOSE: 0.6MG/M3

DISP: Natural Death

HISTO: MZ34/U312

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Kidney	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Gallbladder	* Intestine Large, Rectum	* Islets, Pancreatic	* Lymph Node, Mediastinal
* Pancreas			

OBSERVATIONS

* Larynx	Epithelium Epithelium	Hyperplasia Squamous Cell Carcinoma	Marked
Note: focal w/ moderate inflammation			
* Lung	Alveolar Epith Alveolus Interstitialium Alveolus	Hyperplasia Hyperplasia Infiltration Cellular Inflammation Proteinosis	Minimal Macrophage, Mild Moderate Chronic Active, Minimal Mild
* Lymph Node, Bronchial		Hyperplasia Hyperplasia Adenoma	Macrophage, Minimal Lymphoid, Minimal
* Pituitary Gland	Pars Distalis		
Note: ectasia in adenoma [Adenoma TGLS = 4-8]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: TGL"mes.In=red" is chronic congest,hem.not lesion

Animal Note: COD=pituitary adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 313

TRT#: 6

DOSE: 0.6MG/M3

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 733

HISTO: MZ34/U313

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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, Mediastinal	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

INSUFFICIENT TISSUE

* Larynx

OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
Ear		Inflammation	Marked
Note: ulcerative dermatitis,hyperkeratosis,chronic inflam.			
[Inflammation TGLS = 4-9]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Interstitium	Infiltration Cellular	Moderate
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Mild
[Hyperplasia TGLS = 3-4]			
[Hyperplasia TGLS = 3-4]			
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
		Hyperplasia	Lymphoid, Minimal
[Hyperplasia TGLS = 2-4,1-6,2-4,1-6]			
[Hyperplasia TGLS = 2-4,1-6,2-4,1-6]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 2-4,1-6]			
* Mammary Gland		Hyperplasia	Mild
* Spleen		Hyperplasia	Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 313

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U313

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

Follicular Cel

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 314

TRT#: 6

SEX: Female

DAY ON TEST: 563

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U314

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Larynx
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
* Intestine Small, Duodenum		Inflammation	Mild
* Liver		Inflammation	Mild
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Mild
	Interstitialium	Infiltration Cellular	Moderate
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Mild
[Proteinosis TGLS = 6-4]			
Lymph Node	Renal	Inflammation	Granulomatous, Marked
[Inflammation TGLS = 3-9,5-4]			
* Lymph Node, Bronchial		Inflammation	Granulomatous, Moderate
[Inflammation TGLS = 3-9,5-4]			
* Lymph Node, Mandibular		Hyperplasia	Plasma Cell, Marked
[Hyperplasia TGLS = 1-6]			
* Spleen		Hematopoietic Cell Proliferation	Mild
[Hematopoietic Cell Proliferation TGLS = 2-3]			

PRIMARY CAUSE OF DEATH

-

Animal Note: granulo.inflam. affects only nodes, marrow is responding

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 314

TRT#: 6

SEX: Female

DAY ON TEST: 563

DOSE: 0.6MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/U314

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: CO/MSAC=undetermined

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 315

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U315

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx	* Liver	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Hyperplasia	Macrophage, Moderate
	Interstitialium	Infiltration Cellular	Moderate
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Marked
[Proteinosis TGLS = 3-4]			
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
		Hyperplasia	Lymphoid, Marked
[Hyperplasia TGLS = 2-4,2-4,1-6,1-6]			
[Hyperplasia TGLS = 2-4,2-4,1-6,1-6]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 2-4,1-6]			
* Mammary Gland		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Hyperplasia	Lymphoid, Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 318	TRT#: 6 DOSE: 0.6MG/M3	SEX: Female DISP: Natural Death	DAY ON TEST: 112 HISTO: MZ34/U318
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Kidney	* Larynx	* Liver	* Lymph Node, Mandibular
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Thyroid Gland	* Trachea	* Uterus

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Mammary Gland	* Parathyroid Gland
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AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Stomach, Glandular	* Thymus	* Urinary Bladder	

OBSERVATIONS

* Lung	Alveolus	Hyperplasia	Macrophage, Minimal
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PRIMARY CAUSE OF DEATH

-

Animal Note: COD=undetermined

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 319

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U319

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Larynx	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Bone	Femur	Hyperostosis	
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Moderate
	[Hyperplasia TGLS = 5,4-4]		
	[Hyperplasia TGLS = 5,4-4]		
	[Proteinosis TGLS = 3-4]		
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal
		Hyperplasia	Macrophage, Mild
* Spleen		Hyperplasia	Lymphoid, Mild
* Uterus	Endometrium	Hyperplasia	Mild
	[Hyperplasia TGLS = 1-9,6]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 320

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 0.6MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/U320

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Clitoral GI			
Note: TGL "pigment" not considered significant			
* Liver		Infiltration Cellular	Lymphocyte, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Hyperplasia	Macrophage, Moderate
	Interstitium	Infiltration Cellular	Moderate
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Moderate
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Minimal
		Hyperplasia	Lymphoid, Moderate
	[Hyperplasia TGLS = 3-4,3-4]		
	[Hyperplasia TGLS = 3-4,3-4]		
* Pancreas		Infiltration Cellular	Lymphocyte, Minimal
* Pituitary Gland		Angiectasis	Mild
* Spleen		Hyperplasia	Lymphoid, Moderate
	[Hyperplasia TGLS = 2-3]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 401

TRT#: 10

SEX: Female

DAY ON TEST: 735

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V401

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

INSUFFICIENT TISSUE

* Larynx

OBSERVATIONS

* Liver		Hepatocellular Carcinoma	
Note: CaDX based on anaplasia, trabecular pattern [Hepatocellular Carcinoma TGLS = 2-9]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Mild
	Interstitium	Infiltration Cellular	Moderate
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Marked
[Proteinosis TGLS = 4-4]			
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 3-4,3-4] [Hyperplasia TGLS = 3-4,3-4]			
* Nose	Olfactory Epi	Atrophy	Minimal
* Ovary		Cyst	
[Cyst TGLS = 1-6]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 401

TRT#: 10

SEX: Female

DAY ON TEST: 735

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V401

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 402

TRT#: 10

SEX: Female

DAY ON TEST: 733

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V402

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* 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

MISSING

* Lymph Node, Mediastinal

INSUFFICIENT TISSUE

* Larynx

OBSERVATIONS

* Bone	Femur	Hyperostosis	
* Liver		Hepatocellular Adenoma	Multiple
	[Hepatocellular Adenoma TGLS = 2-12, 8-13]		
* Lung		Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Moderate
	Alveolus	Hyperplasia	Macrophage, Moderate
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Marked
	[Hyperplasia TGLS = 6,7-9,10,5-4]		
	[Hyperplasia TGLS = 6,7-9,10,5-4]		
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Mild
		Hyperplasia	Macrophage, Mild
	[Hyperplasia TGLS = 4-4,4-4]		
	[Hyperplasia TGLS = 4-4,4-4]		
* Nose	Olfactory Epi	Atrophy	Minimal
Tooth		Developmental Malformation	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 402

TRT#: 10

SEX: Female

DAY ON TEST: 733

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V402

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Endometrium

Hyperplasia

Moderate

[Hyperplasia TGLS = 1-6,11]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 403

TRT#: 10

SEX: Female

DAY ON TEST: 736

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V403

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Larynx	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach
* Urinary Bladder	* Uterus		

MISSING

* Intestine Large, Rectum	* Lymph Node, Mediastinal
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OBSERVATIONS

Ear

Note: TGL=skin of ear see SKIN

* Liver		Hepatocellular Adenoma	
		Lymphoma Malignant	
	[Hepatocellular Adenoma TGLS = 1-9]		
* Lung	Alveolar Epith	Hyperplasia	Moderate
	Alveolus	Hyperplasia	Macrophage, Moderate
	Interstitium	Infiltration Cellular	Moderate
		Inflammation	Chronic Active, Mild
		Lymphoma Malignant	
	Alveolus	Proteinosis	Moderate
Lymph Node	Iliac	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
	[Lymphoma Malignant TGLS = 7-4,5-13,3-6,4-5,6-12]		
	[Lymphoma Malignant TGLS = 7-4,5-13,3-6,4-5,6-12]		
* Lymph Node, Bronchial		Lymphoma Malignant	
	[Lymphoma Malignant TGLS = 7-4,5-13,3-6,4-5,6-12]		
* Lymph Node, Mandibular		Lymphoma Malignant	
	[Lymphoma Malignant TGLS = 7-4,5-13,3-6,4-5,6-12]		
* Lymph Node, Mesenteric		Lymphoma Malignant	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 403	TRT#: 10 DOSE: 1.2MG/M3	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 736 HISTO: MZ34/V403
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ORGAN AND ACCOUNTABLE SITE STATUS

[Lymphoma Malignant TGLS = 7-4,5-13,3-6,4-5,6-12]			
* Nose	Olfactory Epi	Degeneration	Minimal
* Skin	Pinna	Cyst Epithelial Inclusion	
[Cyst Epithelial Inclusion TGLS = 9-11]			
* Spleen		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 2-10]			
* Stomach, Glandular		Inflammation	Minimal
* Thymus		Lymphoma Malignant	
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Trachea		Lymphoma Malignant	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 406

TRT#: 10

SEX: Female

DAY ON TEST: 588

DOSE: 1.2MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/V406

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Liver		Degeneration	Moderate
Note: vacuolar degeneration [Degeneration TGLS = 1-3]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Mild
	Interstitium	Infiltration Cellular	Minimal
		Inflammation	Chronic Active, Moderate
	Alveolus	Proteinosis	Moderate
[Inflammation TGLS = 7-9] [Proteinosis TGLS = 5-4,6-4]			
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Minimal
		Hyperplasia	Lymphoid, Mild
* Nose	Olfactory Epi	Atrophy	Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Focal, Mild
[Hyperplasia TGLS = 3-11]			
* Thymus		Degeneration	Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Moderate
		Inflammation	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=?possibly resp. insufficiency

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:55
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 406

TRT#: 10

SEX: Female

DAY ON TEST: 588

DOSE: 1.2MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/V406

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 407

TRT#: 10

SEX: Female

DAY ON TEST: 735

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V407

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Lung		Fibrosis	Mild
	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Marked
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Moderate
Note: all TGL foci are inflammatory, not proliferative			
	[Hyperplasia TGLS = 4-9,3-4]		
	[Hyperplasia TGLS = 4-9,3-4]		
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Mild
		Hyperplasia	Macrophage, Mild
	[Hyperplasia TGLS = 2-4,2-4]		
	[Hyperplasia TGLS = 2-4,2-4]		
* Spleen		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 408

TRT#: 10

SEX: Female

DAY ON TEST: 734

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V408

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Larynx	* 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		

MISSING

* Intestine Large, Rectum	* Lymph Node, Mediastinal
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OBSERVATIONS

* Lung		Fibrosis	Mild
	Alveolar Epith	Hyperplasia	Moderate
	Alveolus	Hyperplasia	Macrophage, Moderate
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Marked
[Hyperplasia TGLS = 2-11,3-9,4-10]			
[Hyperplasia TGLS = 2-11,3-9,4-10]			
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
		Hyperplasia	Lymphoid, Minimal
[Hyperplasia TGLS = 5-4,5-4]			
[Hyperplasia TGLS = 5-4,5-4]			
* Nose	Olfactory Epi	Atrophy	Minimal
* Uterus	Endometrium	Hyperplasia	Minimal
[Hyperplasia TGLS = 1-6]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:55

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 409

TRT#: 10

SEX: Female

DAY ON TEST: 628

DOSE: 1.2MG/M3

DISP: Natural Death

HISTO: MZ34/V409

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum	* Islets, Pancreatic
* Kidney	* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Gallbladder	* Lymph Node, Mediastinal
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AUTO PRECLUDES DIAG.

* Intestine Small, Duodenum	* Intestine Small, Jejunum
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OBSERVATIONS

* Clitoral Gland		Atrophy	Moderate
* Liver		Angiectasis	Marked
		Hepatocellular Carcinoma	
	[Hepatocellular Carcinoma TGLS = 2-10,3]		
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Interstitium	Infiltration Cellular	Moderate
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Moderate
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal
		Hyperplasia	Macrophage, Minimal
* Nose	Olfactory Epi	Atrophy	Minimal
* Skin		Hemorrhage	Mild
	Note: acute hem. @ laceration site		
	[Hemorrhage TGLS = 1-9]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Degeneration	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 409

TRT#: 10

SEX: Female

DAY ON TEST: 628

DOSE: 1.2MG/M3

DISP: Natural Death

HISTO: MZ34/V409

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

Animal Note: COD=hepatocellular CA, large, hemorrhagic

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:56
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 410	TRT#: 12	SEX: Female	DAY ON TEST: 197
	DOSE: 1.2MG/M3LUNG TOX	DISP: Scheduled Sacrifice	HISTO: MZ34-V410

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney	* Lymph Node, Bronchial	* Nose
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INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Lung	Alveolus	Hyperplasia Inflammation	Macrophage, Minimal Chronic Active, Minimal
	Alveolus	Proteinosis	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 412

TRT#: 10

SEX: Female

DAY ON TEST: 607

DOSE: 1.2MG/M3

DISP: Natural Death

HISTO: MZ34/V412

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Rectum
* Kidney	* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Mammary Gland	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Urinary Bladder	* Uterus	

MISSING

* Thymus	* Trachea
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AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Pancreas	* Stomach, Forestomach	* Stomach, Glandular	

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Moderate
* Liver		Degeneration	Moderate
Note: vacuolar degeneration			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Mild
	Interstitialium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Marked
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Minimal
		Hyperplasia	Lymphoid, Marked
[Hyperplasia TGLS = 3-4,3-4]			
[Hyperplasia TGLS = 3-4,3-4]			
* Nose	Olfactory Epi	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-8]			
* Spleen		Hyperplasia	Lymphoid, Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:56
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 412

TRT#: 10

SEX: Female

DAY ON TEST: 607

DOSE: 1.2MG/M3

DISP: Natural Death

HISTO: MZ34/V412

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

Animal Note: COD=undertermined

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 413

TRT#: 10

SEX: Female

DAY ON TEST: 735

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V413

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Liver		Hepatocellular Adenoma	
* Lung		Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Hyperplasia	Macrophage, Marked
	Interstitium	Infiltration Cellular	Moderate
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Marked
[Hyperplasia TGLS = 3-10,4-4]			
[Hyperplasia TGLS = 3-10,4-4]			
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Minimal
		Hyperplasia	Lymphoid, Minimal
[Hyperplasia TGLS = 2-4,2-4]			
[Hyperplasia TGLS = 2-4,2-4]			
* Uterus		Cyst	Mild
Note: Multiple cysts are present in the uterus.			
[Cyst TGLS = 1-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 414

TRT#: 10

SEX: Female

DAY ON TEST: 729

DOSE: 1.2MG/M3

DISP: Natural Death

HISTO: MZ34/V414

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------|-----------------|---------------------|---------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Esophagus | * Gallbladder | * Heart | * Intestine Large, Rectum |
| * Islets, Pancreatic | * Kidney | * Larynx | * Lymph Node, Mandibular |
| * Mammary Gland | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

- | | |
|------------------|---------------------------|
| * Clitoral Gland | * Lymph Node, Mediastinal |
|------------------|---------------------------|

AUTO PRECLUDES DIAG.

- | | | | |
|----------------------------|--------------------------|-----------------------------|--------------------------|
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | | | |

OBSERVATIONS

- | | | | |
|--|---|--|--|
| * Adrenal Cortex
[Sarcoma TGLS = 3-8] | | Sarcoma | Metastatic (Skeletal Muscle) |
| * Liver
Note: chronic, nonsuppurative w/ apoptosis | | Inflammation | Moderate |
| * Lung
[Hyperplasia TGLS = 9-9]
[Hyperplasia TGLS = 9-9] | Alveolar Epith
Alveolus
Interstitialium

Alveolus | Hyperplasia
Hyperplasia
Infiltration Cellular
Inflammation
Proteinosis | Mild
Macrophage, Moderate
Moderate
Chronic Active, Minimal
Marked |
| Lymph Node
[Sarcoma TGLS = 2-10,5-11,7-5]
[Sarcoma TGLS = 2-10,5-11,7-5]
[Sarcoma TGLS = 2-10,5-11,7-5] | Iliac
Pancreatic
Renal | Sarcoma
Sarcoma
Sarcoma | Metastatic (Skeletal Muscle)
Metastatic (Skeletal Muscle)
Metastatic (Skeletal Muscle) |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:56
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 414	TRT#: 10	SEX: Female	DAY ON TEST: 729
	DOSE: 1.2MG/M3	DISP: Natural Death	HISTO: MZ34/V414

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Mild
		Hyperplasia	Macrophage, Mild
	[Hyperplasia TGLS = 8-4,8-4]		
	[Hyperplasia TGLS = 8-4,8-4]		
* Lymph Node, Mesenteric		Sarcoma	Metastatic (Skeletal Muscle)
	[Sarcoma TGLS = 2-10,5-11,7-5]		
* Nose	Olfactory Epi	Atrophy	Mild
	Olfactory Epi	Degeneration	Minimal
* Ovary	Periovarn Tiss	Cyst	
	[Cyst TGLS = 1-6]		
Skeletal Muscle		Sarcoma	
	Note: mass in extensor muscles of left knee		
	Note: xrays show large soft tiss. mass, no bone involvement		
	[Sarcoma TGLS = 6-12]		
* Thymus		Degeneration	Moderate

PRIMARY CAUSE OF DEATH -

Animal Note: COD=fibrosarcoma of muscle w/ metatsis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 415

TRT#: 10

SEX: Female

DAY ON TEST: 685

DOSE: 1.2MG/M3

DISP: Natural Death

HISTO: MZ34/V415

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Esophagus	* Heart	* Intestine Large, Rectum	* Islets, Pancreatic
* Kidney	* Larynx	* Liver	* Lymph Node, Mediastinal
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Clitoral Gland

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum		

OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitial	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Moderate
	Alveolus	Proteinosis	Marked
[Proteinosis TGLS = 8-4]			
Lymph Node	Renal	Hyperplasia	Lymphoid, Marked
[Hyperplasia TGLS = 3-6,6-11,7-4]			
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Moderate
		Hyperplasia	Macrophage, Mild
[Hyperplasia TGLS = 3-6,3-6,6-11,6-11,7-4,7-4]			
[Hyperplasia TGLS = 3-6,3-6,6-11,6-11,7-4,7-4]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Marked
[Hyperplasia TGLS = 3-6,6-11,7-4]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 3-6,6-11,7-4]			
* Mammary Gland		Inflammation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:56
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 415

TRT#: 10

SEX: Female

DAY ON TEST: 685

DOSE: 1.2MG/M3

DISP: Natural Death

HISTO: MZ34/V415

ORGAN AND ACCOUNTABLE SITE STATUS

Note: neutrophils in interstitium + edema

[Inflammation TGLS = 2-12]

* Nose	Olfactory Epi	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Skin	Pinna	Squamous Cell Carcinoma	
	[Squamous Cell Carcinoma TGLS = 1-10]		
* Spleen		Hyperplasia	Lymphoid, Moderate
	[Hyperplasia TGLS = 5-3]		
* Stomach, Glandular		Inflammation	Mild
* Thyroid Gland		Inflammation	Minimal
* Uterus	Endometrium	Hyperplasia	Moderate

Note: hyperplastic stroma mild infiltrate neutrophils in stroma

[Hyperplasia TGLS = 4-9]

PRIMARY CAUSE OF DEATH

-

Animal Note: COD=pulmonary lesions

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:56
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 417	TRT#: 12	SEX: Female	DAY ON TEST: 197
	DOSE: 1.2MG/M3LUNG TOX	DISP: Scheduled Sacrifice	HISTO: MZ34-V417

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney	* Lymph Node, Bronchial	* Lymph Node, Mediastinal
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OBSERVATIONS

* Lung	Alveolus	Hyperplasia	Macrophage, Minimal
	Interstitium	Infiltration Cellular	Minimal
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Mild
* Lymph Node, Mandibular		Hyperplasia	Minimal
[Hyperplasia TGLS = 2-5]			
* Nose	Olfactory Epi	Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 418

TRT#: 10

SEX: Female

DAY ON TEST: 735

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V418

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Interstitium	Infiltration Cellular	Moderate
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Moderate
	[Hyperplasia TGLS = 3-4]		
	[Hyperplasia TGLS = 3-4]		
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
		Hyperplasia	Lymphoid, Mild
	[Hyperplasia TGLS = 2-5,2-5]		
	[Hyperplasia TGLS = 2-5,2-5]		
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
	[Hyperplasia TGLS = 2-5]		
* Spleen		Hemangiosarcoma	
	Note: SarcDX based on anaplasia&# of endothelial cells		
	[Hemangiosarcoma TGLS = 1-9]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 419

TRT#: 10

SEX: Female

DAY ON TEST: 703

DOSE: 1.2MG/M3

DISP: Natural Death

HISTO: MZ34/V419

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Islets, Pancreatic	* Larynx
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach	* Thymus
* Trachea	Urethra	* Urinary Bladder	

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Clitoral Gland		Atrophy	Moderate
* Kidney		Lymphoma Malignant	
* Liver		Hepatocellular Adenoma	
		Lymphoma Malignant	
	[Hepatocellular Adenoma TGLS = 7-10]		
* Lung	Alveolar Epith	Hyperplasia	Moderate
	Alveolus	Hyperplasia	Macrophage, Mild
	Interstitium	Infiltration Cellular	Marked
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Marked
Lymph Node	Iliac	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
	[Lymphoma Malignant TGLS = 6-13,9-4,2-6,3-5,8-14]		
	[Lymphoma Malignant TGLS = 6-13,9-4,2-6,3-5,8-14]		
* Lymph Node, Bronchial		Lymphoma Malignant	
	[Lymphoma Malignant TGLS = 6-13,9-4,2-6,3-5,8-14]		
* Lymph Node, Mandibular		Lymphoma Malignant	
	[Lymphoma Malignant TGLS = 6-13,9-4,2-6,3-5,8-14]		
* Lymph Node, Mediastinal		Lymphoma Malignant	
	[Lymphoma Malignant TGLS = 6-13,9-4,2-6,3-5,8-14]		
* Lymph Node, Mesenteric		Lymphoma Malignant	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:56
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 419	TRT#: 10 DOSE: 1.2MG/M3	SEX: Female DISP: Natural Death	DAY ON TEST: 703 HISTO: MZ34/V419
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ORGAN AND ACCOUNTABLE SITE STATUS

[Lymphoma Malignant TGLS = 6-13,9-4,2-6,3-5,8-14]			
* Nose	Olfactory Epi	Atrophy	Minimal
* Skin		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 1-12]			
* Spleen		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 4-9,3]			
* Stomach, Glandular		Lymphoma Malignant	
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus		Cyst	
[Cyst TGLS = 5-11]			

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=malignant lymphoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 420

TRT#: 10

SEX: Female

DAY ON TEST: 734

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V420

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Liver		Infarct	Marked
Note: entire lobe is infarcted [Infarct TGLS = 2-3,9]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Marked
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Moderate
[Hyperplasia TGLS = 5-4]			
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
		Hyperplasia	Lymphoid, Mild
* Nose	Olfactory Epi	Atrophy	Minimal
		Inflammation	Acute, Mild
* Ovary		Cyst	
[Cyst TGLS = 1-6]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
[Hyperplasia TGLS = 6-8]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 421

TRT#: 10

SEX: Female

DAY ON TEST: 736

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V421

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Lung	Alveolar Epith Alveolus Interstitialium Alveolus	Hyperplasia Hyperplasia Infiltration Cellular Inflammation Proteinosis	Minimal Macrophage, Moderate Mild Chronic Active, Mild Marked
[Hyperplasia TGLS = 3-4]			
[Hyperplasia TGLS = 3-4]			
[Proteinosis TGLS = 1-4]			
* Lymph Node, Bronchial		Hyperplasia Hyperplasia	Macrophage, Minimal Lymphoid, Minimal
[Hyperplasia TGLS = 2-4,2-4]			
[Hyperplasia TGLS = 2-4,2-4]			
* Nose	Olfactory Epi Olfactory Epi	Atrophy Degeneration Inflammation	Minimal Minimal Acute, Mild
* Spleen		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:56
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 421

TRT#: 10

DOSE: 1.2MG/M3

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 736

HISTO: MZ34/V421

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 422

TRT#: 10

SEX: Female

DAY ON TEST: 239

DOSE: 1.2MG/M3

DISP: Natural Death

HISTO: MZ34/V422

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|---------------------------|--------------------------|---------------------------|
| * Adrenal Medulla | * Bone | * Brain | * Esophagus |
| * Heart | * Intestine Large, Rectum | * Islets, Pancreatic | * Kidney |
| * Larynx | * Liver | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas | * Pituitary Gland |
| * Salivary Glands | * Skin | * Thyroid Gland | * Urinary Bladder |
| * Uterus | | | |

MISSING

- | | |
|---------------------|-----------|
| * Parathyroid Gland | * Trachea |
|---------------------|-----------|

AUTO PRECLUDES DIAG.

- | | | | |
|--------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone Marrow | * Clitoral Gland | * Gallbladder | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Stomach, Forestomach | * Stomach, Glandular | | |

OBSERVATIONS

- | | | | |
|--|-----------------|-----------------------|---------------------|
| * Adrenal Cortex | | Degeneration | Mild |
| * Lung | Alveolus | Hyperplasia | Macrophage, Minimal |
| | Bronchus | Hyperplasia | Lymphoid, Minimal |
| | Interstitialium | Infiltration Cellular | Minimal |
| | Alveolus | Proteinosis | Moderate |
| * Lymph Node, Bronchial | | Hyperplasia | Lymphoid, Moderate |
| [Hyperplasia TGLS = 4-4] | | | |
| * Nose | Olfactory Epi | Atrophy | Minimal |
| * Ovary | | Cyst | Moderate |
| | | Hemorrhage | Mild |
| Note: Multiple cysts are present in ovary. | | | |
| [Cyst TGLS = 2-9] | | | |
| * Spleen | | Hyperplasia | Lymphoid, Moderate |
| [Hyperplasia TGLS = 1-3] | | | |
| * Thymus | | Degeneration | Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:56
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 422

TRT#: 10

SEX: Female

DAY ON TEST: 239

DOSE: 1.2MG/M3

DISP: Natural Death

HISTO: MZ34/V422

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: COD=teratoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:56
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 423	TRT#: 12 DOSE: 1.2MG/M3LUNG TOX	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: 197 HISTO: MZ34-V423
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Nose
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MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Lung	Alveolus Interstitialium	Hyperplasia Infiltration Cellular Inflammation	Macrophage, Minimal Minimal Chronic Active, Minimal
* Uterus	Alveolus	Proteinosis Polyp Stromal	Minimal

[Polyp Stromal TGLS = 2-6]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 425

TRT#: 10

SEX: Female

DAY ON TEST: 736

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V425

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Larynx
* 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	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Clitoral Gland	* Intestine Large, Rectum	* Lymph Node, Mediastinal	
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OBSERVATIONS

* Lung		Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitialium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Moderate
	Alveolus	Proteinosis	Marked
	[Inflammation TGLS = 2-4]		
	[Proteinosis TGLS = 3-4]		
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Moderate
		Hyperplasia	Macrophage, Minimal
* Uterus	Endometrium	Hyperplasia	Mild
	[Hyperplasia TGLS = 1-9,6]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 426

TRT#: 10

SEX: Female

DAY ON TEST: 74

DOSE: 1.2MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/V426

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 | * Larynx |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Ovary |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

- | | |
|------------------|---------------------------|
| * Clitoral Gland | * Lymph Node, Mediastinal |
|------------------|---------------------------|

INSUFFICIENT TISSUE

- * Lymph Node, Bronchial

OBSERVATIONS

- | | | | |
|--|----------|--------------|-------------------------|
| * Adrenal Cortex | | Degeneration | Minimal |
| * Liver | | Atrophy | Moderate |
| * Lung | Alveolus | Hyperplasia | Macrophage, Minimal |
| | | Inflammation | Chronic Active, Minimal |
| * Nose | | Inflammation | Acute, Mild |
| * Skin | | Inflammation | Mild |
| Note: ulcerative dermatitis on nose,foreign bodies,plants
[Inflammation TGLS = 1-9] | | | |
| * Spleen | | Atrophy | Moderate |
| * Thymus | | Degeneration | Marked |

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=nose lesion, cachexia, not eating well?

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 427

TRT#: 10

SEX: Female

DAY ON TEST: 632

DOSE: 1.2MG/M3

DISP: Natural Death

HISTO: MZ34/V427

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Islets, Pancreatic
* Larynx	* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Mammary Gland	* Nose	* Pancreas
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea

MISSING

* Intestine Large, Rectum	* Lymph Node, Mesenteric	* Thymus
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AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Urinary Bladder	

INSUFFICIENT TISSUE

* Parathyroid Gland

OBSERVATIONS

* Clitoral Gland		Atrophy	Moderate
* Kidney		Hydronephrosis	Marked
[Hydronephrosis TGLS = 4-3]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Mild
	Interstitialium	Infiltration Cellular	Minimal
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Moderate
[Hyperplasia TGLS = 5-9]			
[Hyperplasia TGLS = 5-9]			
* Ovary		Cyst	
[Cyst TGLS = 1-6]			
* Uterus	Endometrium	Adenocarcinoma	
Note: invaded vagina			
[Adenocarcinoma TGLS = 3-11,2-10]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:56
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 427

TRT#: 10

SEX: Female

DAY ON TEST: 632

DOSE: 1.2MG/M3

DISP: Natural Death

HISTO: MZ34/V427

ORGAN AND ACCOUNTABLE SITE STATUS

Vagina

Note: vaginal tumor is endometrial adenocarcinoma

PRIMARY CAUSE OF DEATH

-

Animal Note: COD=uterine endometrial adenocarcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 428

TRT#: 10

SEX: Female

DAY ON TEST: 477

DOSE: 1.2MG/M3

DISP: Scheduled Sacrifice

HISTO: MZ34/V428

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	Tissue NOS	* Trachea	* Urinary Bladder

MISSING

* Intestine Large, Rectum

OBSERVATIONS

* Liver		Hemangiosarcoma	
[Hemangiosarcoma TGLS = 5-9,6-10]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitium	Infiltration Cellular	Moderate
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Mild
[Proteinosis TGLS = 3-4,11]			
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Moderate
		Hyperplasia	Macrophage, Minimal
[Hyperplasia TGLS = 2-4,2-4]			
[Hyperplasia TGLS = 2-4,2-4]			
* Uterus	Endometrium	Hyperplasia	Mild
[Hyperplasia TGLS = 1-6,12]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 429

TRT#: 10

SEX: Female

DAY ON TEST: 734

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V429

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Larynx	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Intestine Large, Rectum

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Lung		Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Moderate
	Interstitial	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Marked
	[Proteinosis TGLS = 3-4]		
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
		Hyperplasia	Lymphoid, Moderate
	[Hyperplasia TGLS = 2-4,2-4]		
	[Hyperplasia TGLS = 2-4,2-4]		
* Nose	Olfactory Epi	Atrophy	Minimal
	Olfactory Epi	Degeneration	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:56
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 429	TRT#: 10	SEX: Female	DAY ON TEST: 734
	DOSE: 1.2MG/M3	DISP: Terminal Sacrifice	HISTO: MZ34/V429

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 1-6,10]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 430

TRT#: 10

SEX: Female

DAY ON TEST: 580

DOSE: 1.2MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/V430

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Bone Marrow		Histiocytic Sarcoma	
* Clitoral Gland		Atrophy	Moderate
* Kidney	Pelvis	Inflammation	Moderate
* Liver		Histiocytic Sarcoma	
Note: DX based on round cell tumor w/ a few reniform nuclei [Histiocytic Sarcoma TGLS = 3-3,4-9]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Mild
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Moderate
[Proteinosis TGLS = 7-4]			
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Moderate
Mesentery		Histiocytic Sarcoma	
* Nose	Olfactory Epi	Atrophy	Minimal
	Olfactory Epi	Degeneration	Minimal
		Inflammation	Acute, Mild
* Ovary		Histiocytic Sarcoma	
* Pancreas	Acinus	Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:56
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 430	TRT#: 10 DOSE: 1.2MG/M3	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 580 HISTO: MZ34/V430
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ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Histiocytic Sarcoma TGLS = 1-3]		Histiocytic Sarcoma	
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus [Histiocytic Sarcoma TGLS = 2-10]		Histiocytic Sarcoma	

PRIMARY CAUSE OF DEATH -

Animal Note: CO/MSAC= histiocytic sarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:56
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 431	TRT#: 10 DOSE: 1.2MG/M3	SEX: Female DISP: Scheduled Sacrifice	DAY ON TEST: 477 HISTO: MZ34/V431
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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
* Larynx	* 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
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Clitoral Gland	* Lymph Node, Mediastinal
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OBSERVATIONS

* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Marked
[Proteinosis TGLS = 1-4]			
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Moderate
		Hyperplasia	Macrophage, Minimal
[Hyperplasia TGLS = 2-4,2-4]			
[Hyperplasia TGLS = 2-4,2-4]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 432

TRT#: 10

SEX: Female

DAY ON TEST: 735

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V432

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|--------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Gallbladder | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney | * Larynx |
| * Liver | * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric |
| * Mammary Gland | * Ovary | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

- * Intestine Large, Rectum

OBSERVATIONS

- | | | | |
|--|----------------|-----------------------|--------------------------|
| * Bone | | Hemangiosarcoma | |
| Note: XRAY=osteolytic, osteogenic mass expands tibial head | | | |
| Note: bone involved is TIBIA | | | |
| Note: Hemangiosarc DX=vascular pattern & lack of Osteoid | | | |
| Note: new bone considered reactive | | | |
| [Hemangiosarcoma TGLS = 1-9] | | | |
| * Lung | | Fibrosis | Minimal |
| | Alveolar Epith | Hyperplasia | Mild |
| | Alveolus | Hyperplasia | Macrophage, Moderate |
| | Bronchus | Hyperplasia | Lymphoid, Moderate |
| | Interstitium | Infiltration Cellular | Mild |
| | | Inflammation | Chronic Active, Moderate |
| | Alveolus | Proteinosis | Moderate |
| [Hyperplasia TGLS = 3-4] | | | |
| [Hyperplasia TGLS = 3-4] | | | |
| [Hyperplasia TGLS = 3-4] | | | |
| * Lymph Node, Bronchial | | Hyperplasia | Lymphoid, Marked |
| | | Hyperplasia | Macrophage, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:56
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 432	TRT#: 10 DOSE: 1.2MG/M3	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO: MZ34/V432
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ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 4-4,4-4]			
[Hyperplasia TGLS = 4-4,4-4]			
* Nose	Olfactory Epi	Atrophy	Mild
* Spleen		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 433

TRT#: 10

SEX: Female

DAY ON TEST: 630

DOSE: 1.2MG/M3

DISP: Natural Death

HISTO: MZ34/V433

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla
* Esophagus
* Intestine Large, Colon
* Islets, Pancreatic
* Lymph Node, Mandibular
* Ovary
* Skin
* Thyroid Gland

* Bone
* Gallbladder
* Intestine Small, Duodenum
* Kidney
* Lymph Node, Mesenteric
* Pancreas
* Spleen
* Trachea

* Bone Marrow
* Heart
* Intestine Small, Ileum
* Larynx
* Mammary Gland
* Pituitary Gland
* Stomach, Forestomach
* Urinary Bladder

* Brain
* Intestine Large, Cecum
* Intestine Small, Jejunum
* Lymph Node, Bronchial
* Nose
* Salivary Glands
* Stomach, Glandular
* Uterus

MISSING

* Intestine Large, Rectum

* Lymph Node, Mediastinal

* Parathyroid Gland

* Thymus

OBSERVATIONS

* Adrenal Cortex
* Clitoral Gland
* Liver

[Hepatocellular Carcinoma TGLS = 2-3]

* Lung

Alveolar Epith
Alveolus
Interstitium
Alveolus

[Hepatocellular Carcinoma TGLS = 3-4]

Hepatocellular Carcinoma
Atrophy
Eosinophilic Focus
Hepatocellular Carcinoma

Hepatocellular Carcinoma
Hyperplasia
Hyperplasia
Infiltration Cellular
Proteinosis

Metastatic (Liver)
Mild

Metastatic (Liver)
Mild
Macrophage, Moderate
Mild
Moderate

PRIMARY CAUSE OF DEATH

-

Animal Note: COD=hepatocellular carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 434

TRT#: 10

SEX: Female

DAY ON TEST: 734

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V434

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Larynx
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Intestine Large, Rectum	* Lymph Node, Mediastinal
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OBSERVATIONS

* Bone	Femur	Hyperostosis	
* Liver		Hepatocellular Adenoma	
Note: liver slide 10 is normal [Hepatocellular Adenoma TGLS = 1-9]			
* Lung	Alveolar Epith Alveolus Interstitialium Alveolus	Hyperplasia Hyperplasia Infiltration Cellular Inflammation Proteinosis	Moderate Macrophage, Moderate Mild Chronic Active, Minimal Marked
Note: TGL"focus"=atelectasis w/ AMs [Hyperplasia TGLS = 2-4,11] [Hyperplasia TGLS = 2-4,11] [Proteinosis TGLS = 3-4]			
* Lymph Node, Bronchial		Hyperplasia Hyperplasia	Lymphoid, Minimal Macrophage, Mild
* Nose	Olfactory Epi	Atrophy	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach		Inflammation	Minimal
* Stomach, Glandular		Inflammation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 434

TRT#: 10

SEX: Female

DAY ON TEST: 734

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V434

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

Animal Note: small ulcer @ limiting ridge

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:56
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 435	TRT#: 12	SEX: Female	DAY ON TEST: 197
	DOSE: 1.2MG/M3LUNG TOX	DISP: Scheduled Sacrifice	HISTO: MZ34-V435

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney * Nose

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Lung	Alveolus	Hyperplasia	Macrophage, Mild
	Interstitialium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Mild
	[Hyperplasia TGLS = 2-3]		
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
	[Hyperplasia TGLS = 1-5]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 436

TRT#: 10

SEX: Female

DAY ON TEST: 736

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V436

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx	* 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	* Uterus

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitium	Infiltration Cellular	Moderate
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Mild
[Hyperplasia TGLS = 1-4]			
[Hyperplasia TGLS = 1-4]			
[Hyperplasia TGLS = 1-4]			
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
		Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 2-4,2-4]			
[Hyperplasia TGLS = 2-4,2-4]			
* Nose	Olfactory Epi	Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 437

TRT#: 10

SEX: Female

DAY ON TEST: 732

DOSE: 1.2MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/V437

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* 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	* Larynx	* Liver	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Atrophy	Marked
* Bone		Inflammation	Moderate
Note: thoracic vertebra, secondarily involved			
Note: see SPINAL CORD			
[Inflammation TGLS = 6-9]			
* Bone Marrow	Myeloid Cell	Hyperplasia	Marked
* Kidney		Nephropathy	Minimal
* Lung	Alveolar Epith	Hyperplasia	Moderate
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Marked
Lymph Node	Renal	Hyperplasia	Lymphoid, Marked
	Pancreatic	Inflammation	Marked
[Hyperplasia TGLS = 3-10,4-4]			
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
		Hyperplasia	Lymphoid, Marked
[Hyperplasia TGLS = 3-10,3-10,4-4,4-4]			
[Hyperplasia TGLS = 3-10,3-10,4-4,4-4]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:56
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 437	TRT#: 10 DOSE: 1.2MG/M3	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 732 HISTO: MZ34/V437
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ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mandibular [Hyperplasia TGLS = 3-10,4-4]		Hyperplasia	Lymphoid, Marked
* Lymph Node, Mediastinal [Hyperplasia TGLS = 3-10,4-4]		Hyperplasia	Lymphoid, Marked
* Nose		Inflammation	Acute, Minimal
* Ovary [Abscess TGLS = 1-12]		Abscess	Marked
* Pituitary Gland Note: angiectasis in tumor [Adenoma TGLS = 5-8]	Pars Distalis	Adenoma	
Spinal Cord Note: abscess in meninges, compresses cord, nerves		Abscess	Marked
* Spleen		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus [Cyst TGLS = 2-11]		Cyst	

PRIMARY CAUSE OF DEATH -

Animal Note: CO/MSAC=abscess, spinal cord

Animal Note: spinal abscess probably secondary to ovarian abscess

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 438

TRT#: 10

SEX: Female

DAY ON TEST: 733

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V438

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Larynx	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Bone	Femur	Hyperostosis	
* Lung	Alveolar Epith	Hyperplasia	Moderate
	Alveolus	Hyperplasia	Macrophage, Marked
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitium	Infiltration Cellular	Moderate
		Inflammation	Chronic Active, Moderate
	Alveolus	Proteinosis	Mild
	[Hyperplasia TGLS = 2,3-4]		
	[Hyperplasia TGLS = 2,3-4]		
	[Hyperplasia TGLS = 2,3-4]		
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Moderate
		Hyperplasia	Macrophage, Mild
* Mammary Gland		Hyperplasia	Mild
* Nose		Inflammation	Acute, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
	[Hyperplasia TGLS = 4-8]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
Note: see slide 2A			
* Uterus		Polyp Stromal	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 438

TRT#: 10

SEX: Female

DAY ON TEST: 733

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V438

ORGAN AND ACCOUNTABLE SITE STATUS

[Polyp Stromal TGLS = 1-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 439

TRT#: 10

SEX: Female

DAY ON TEST: 734

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V439

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood	* 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	* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Bone	Femur	Hyperostosis	
* Liver		Hepatocellular Adenoma	
		Infiltration Cellular	Lymphocyte, Mild
	[Hepatocellular Adenoma TGLS = 3-9]		
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Marked
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Mild
		Hyperplasia	Macrophage, Mild
	[Hyperplasia TGLS = 4-4,4-4]		
	[Hyperplasia TGLS = 4-4,4-4]		
* Nose	Olfactory Epi	Atrophy	Minimal
	Olfactory Epi	Degeneration	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 439

TRT#: 10

SEX: Female

DAY ON TEST: 734

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V439

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 1,2-6,10]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 441

TRT#: 10

SEX: Female

DAY ON TEST: 499

DOSE: 1.2MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/V441

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	Ear	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Clitoral Gland	* Lymph Node, Mediastinal	* Parathyroid Gland
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OBSERVATIONS

Ear			
Note: slide 9 is ear canal, no lesion			
Note: unable to find inner ear in residual wet tissue			
* Liver		Degeneration	Mild
Note: degeneration is centrolobular, vacuolar			
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Hyperplasia	Macrophage, Mild
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Marked
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Minimal
		Hyperplasia	Lymphoid, Minimal
* Nose	Olfactory Epi	Atrophy	Minimal
		Inflammation	Acute, Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=undetermined

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 442

TRT#: 10

SEX: Female

DAY ON TEST: 735

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V442

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Liver		Eosinophilic Focus	
[Eosinophilic Focus TGLS = 1-10]			
* Lung		Alveolar/Bronchiolar Carcinoma	
	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitium	Infiltration Cellular	Moderate
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Marked
Note: Ca DX based on anaplasia			
[Alveolar/Bronchiolar Carcinoma TGLS = 4-9]			
[Proteinosis TGLS = 5-4]			
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal
[Hyperplasia TGLS = 3-4]			
* Nose	Olfactory Epi	Atrophy	Minimal
* Ovary		Cyst	
Note: based on Alison & Morgan ENVIR HEALTH PERS 73:91-106			
[Cyst TGLS = 2-6]			
* Spleen		Hyperplasia	Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:56
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 442	TRT#: 10	SEX: Female	DAY ON TEST: 735
	DOSE: 1.2MG/M3	DISP: Terminal Sacrifice	HISTO: MZ34/V442

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 443

TRT#: 10

SEX: Female

DAY ON TEST: 735

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V443

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Larynx	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Intestine Large, Rectum

OBSERVATIONS

* Lung	Alveolar Epith Alveolus Bronchus Interstitium	Hyperplasia Hyperplasia Hyperplasia Infiltration Cellular Inflammation	Mild Macrophage, Moderate Lymphoid, Minimal Moderate Chronic Active, Mild
[Proteinosis TGLS = 5-4]	Alveolus	Proteinosis	Moderate
* Lymph Node, Bronchial		Hyperplasia Hyperplasia	Macrophage, Minimal Lymphoid, Mild
[Hyperplasia TGLS = 4-4,4-4]			
[Hyperplasia TGLS = 4-4,4-4]			
* Nose	Olfactory Epi Olfactory Epi	Atrophy Degeneration Inflammation	Minimal Minimal Acute, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Mild
[Hyperplasia TGLS = 1-9,6]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 443

TRT#: 10

SEX: Female

DAY ON TEST: 735

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V443

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: no med In on original slide or in recuts

Animal Note: wet tissue review yields a normal med In

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 444

TRT#: 10

SEX: Female

DAY ON TEST: 580

DOSE: 1.2MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/V444

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Brain
* Esophagus	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Intestine Large, Colon

OBSERVATIONS

* Bone		Hyperostosis	
* Clitoral Gland		Atrophy	Mild
* Kidney	Renal Tubule	Pigmentation	Hemosiderin, Marked
[Pigmentation TGLS = 5-3]			
* Liver		Angiectasis	Marked
[Angiectasis TGLS = 4-3,10]		Necrosis	Marked
[Necrosis TGLS = 3-3]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Mild
	Bronchus	Hyperplasia	Lymphoid, Mild
	Interstitium	Infiltration Cellular	Minimal
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Moderate
[Proteinosis TGLS = 7-4]			
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Minimal
		Hyperplasia	Lymphoid, Minimal
* Nose	Olfactory Epi	Degeneration	Minimal
* Ovary		Cyst	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:56
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 444	TRT#: 10	SEX: Female	DAY ON TEST: 580
	DOSE: 1.2MG/M3	DISP: Moribund Sacrifice	HISTO: MZ34/V444

ORGAN AND ACCOUNTABLE SITE STATUS

Note: cyst filled w/ blood [Cyst TGLS = 2-6,11] * Spleen	Hematopoietic Cell Proliferation Hyperplasia	Moderate Lymphoid, Moderate
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PRIMARY CAUSE OF DEATH -

Animal Note: CO/MSAC=massive liver necrosis

Animal Note: fixation artifacts (pale,mineralized foci) on many organs

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 445

TRT#: 10

SEX: Female

DAY ON TEST: 733

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V445

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Liver		Basophilic Focus	
* Lung		Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Moderate
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitial	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Moderate
	Alveolus	Proteinosis	Marked
	[Proteinosis TGLS = 2-4]		
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Minimal
		Hyperplasia	Macrophage, Minimal
	[Hyperplasia TGLS = 3-4,3-4]		
	[Hyperplasia TGLS = 3-4,3-4]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 446

TRT#: 10

SEX: Female

DAY ON TEST: 733

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V446

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Liver		Eosinophilic Focus	
[Eosinophilic Focus TGLS = 2-3]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitialium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Marked
[Proteinosis TGLS = 5-4]			
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
		Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 4-4,4-4]			
[Hyperplasia TGLS = 4-4,4-4]			
* Spleen		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Moderate
* Uterus	Endometrium	Hyperplasia	Moderate
[Hyperplasia TGLS = 1-6,9]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:56
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 446

TRT#: 10

SEX: Female

DAY ON TEST: 733

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V446

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 447

TRT#: 10

SEX: Female

DAY ON TEST: 733

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V447

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 |
| * Islets, Pancreatic | * Kidney | * Liver | * Lymph Node, Mandibular |
| * Lymph Node, Mediastinal | * Ovary | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

- | | |
|------------------|--------------------------|
| * Clitoral Gland | * Lymph Node, Mesenteric |
|------------------|--------------------------|

INSUFFICIENT TISSUE

- * Larynx

OBSERVATIONS

- | | | | |
|------------------------------------|-----------------|-----------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Moderate |
| * Intestine Small, Jejunum | | Lymphoma Malignant | |
| [Lymphoma Malignant TGLS = 3-5] | | | |
| * Lung | | Fibrosis | Minimal |
| | Alveolar Epith | Hyperplasia | Moderate |
| | Alveolus | Hyperplasia | Macrophage, Moderate |
| | Bronchus | Hyperplasia | Lymphoid, Minimal |
| | Interstitialium | Infiltration Cellular | Mild |
| | | Inflammation | Chronic Active, Minimal |
| | Alveolus | Proteinosis | Marked |
| [Proteinosis TGLS = 5-4] | | | |
| Lymph Node | Pancreatic | Lymphoma Malignant | |
| [Lymphoma Malignant TGLS = 4-10] | | | |
| * Lymph Node, Bronchial | | Hyperplasia | Macrophage, Mild |
| | | Hyperplasia | Lymphoid, Minimal |
| * Mammary Gland | | Hyperplasia | Mild |
| [Hyperplasia TGLS = 1-6] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:56
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 447	TRT#: 10 DOSE: 1.2MG/M3	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 733 HISTO: MZ34/V447
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ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Atrophy	Minimal
* Spleen [Lymphoma Malignant TGLS = 2-9]		Lymphoma Malignant	
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: recuts on slide 5=no better sec. of jejunum lesion

Animal Note: TGL"renal ln"=pancreatic ln

Animal Note: cells,tiss. dist.of hist. sarc. but no reniform nuclei

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 448

TRT#: 10

SEX: Female

DAY ON TEST: 735

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V448

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Lung		Alveolar/Bronchiolar Carcinoma	
		Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Mild
Note: Ca DX based on anaplasia,destruction normal architect.			
[Alveolar/Bronchiolar Carcinoma TGLS = 3-9]			
Lymph Node	Pancreatic	Hyperplasia	Moderate
	Renal	Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 2-10,4-4]			
[Hyperplasia TGLS = 2-10,4-4]			
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 2-10,2-10,4-4,4-4]			
[Hyperplasia TGLS = 2-10,2-10,4-4,4-4]			
* Lymph Node, Mediastinal		Inflammation	Mild
* Nose	Olfactory Epi	Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:56
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 448	TRT#: 10 DOSE: 1.2MG/M3	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO: MZ34/V448
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas Note: chronic, active inflam.W/acinar atrophy & cysts [Inflammation TGLS = 1-11,5]	Inflammation	Marked
* Spleen	Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 449

TRT#: 10

SEX: Female

DAY ON TEST: 477

DOSE: 1.2MG/M3

DISP: Scheduled Sacrifice

HISTO: MZ34/V449

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx	* Liver	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Marked
	[Proteinosis TGLS = 3,4-4]		
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Minimal
		Hyperplasia	Lymphoid, Mild
	[Hyperplasia TGLS = 2-4,2-4]		
	[Hyperplasia TGLS = 2-4,2-4]		
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
	[Hyperplasia TGLS = 2-4]		
* Uterus	Endometrium	Hyperplasia	Mild
	[Hyperplasia TGLS = 1-9]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 450

TRT#: 10

DOSE: 1.2MG/M3

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 736

HISTO: MZ34/V450

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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	* Larynx
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
* Kidney		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 7-3]			
* Liver		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 5-3]			
* Lung	Alveolar Epith	Fibrosis	Minimal
	Alveolus	Hyperplasia	Minimal
	Interstitialium	Hyperplasia	Macrophage, Moderate
		Infiltration Cellular	Mild
		Inflammation	Chronic Active, Minimal
	Alveolus	Lymphoma Malignant	
		Proteinosis	Mild
Note: lymphoma infiltrates interstitium around airways/vessels			
[Hyperplasia TGLS = 14-4]			
[Hyperplasia TGLS = 14-4]			
[Lymphoma Malignant TGLS = 13-4]			
Lymph Node	Iliac	Lymphoma Malignant	
	Pancreatic	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
[Lymphoma Malignant TGLS = 8-11,6-12,3-10,1-6,4-5,11-4,10-2]			
[Lymphoma Malignant TGLS = 8-11,6-12,3-10,1-6,4-5,11-4,10-2]			
[Lymphoma Malignant TGLS = 8-11,6-12,3-10,1-6,4-5,11-4,10-2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:56
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 450	TRT#: 10	SEX: Female	DAY ON TEST: 736
	DOSE: 1.2MG/M3	DISP: Terminal Sacrifice	HISTO: MZ34/V450

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Bronchial [Lymphoma Malignant TGLS = 8-11,6-12,3-10,1-6,4-5,11-4,10-2]		Lymphoma Malignant	
* Lymph Node, Mandibular [Lymphoma Malignant TGLS = 8-11,6-12,3-10,1-6,4-5,11-4,10-2]		Lymphoma Malignant	
* Lymph Node, Mediastinal [Lymphoma Malignant TGLS = 8-11,6-12,3-10,1-6,4-5,11-4,10-2]		Lymphoma Malignant	
* Lymph Node, Mesenteric [Lymphoma Malignant TGLS = 8-11,6-12,3-10,1-6,4-5,11-4,10-2]		Lymphoma Malignant	
* Mammary Gland		Hyperplasia	Mild
* Nose	Olfactory Epi	Atrophy	Minimal
* Ovary		Lymphoma Malignant	
* Pancreas		Lymphoma Malignant	
* Spleen [Lymphoma Malignant TGLS = 2-9]		Lymphoma Malignant	
* Thymus [Lymphoma Malignant TGLS = 12-2]		Lymphoma Malignant	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 451

TRT#: 10

SEX: Female

DAY ON TEST: 733

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V451

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Moderate
	[Proteinosis TGLS = 5-4]		
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Mild
		Hyperplasia	Macrophage, Mild
	[Hyperplasia TGLS = 4-4,4-4]		
	[Hyperplasia TGLS = 4-4,4-4]		
* Lymph Node, Mesenteric		Inflammation	Moderate
	[Inflammation TGLS = 1-5]		
* Nose	Olfactory Epi	Atrophy	Minimal
	Olfactory Epi	Degeneration	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Moderate
	[Hyperplasia TGLS = 2-9,6]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 452

TRT#: 10

SEX: Female

DAY ON TEST: 340

DOSE: 1.2MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/V452

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* 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
* Larynx	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Mild
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Hyperplasia	Macrophage, Minimal
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitialium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Moderate
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Moderate
		Hyperplasia	Macrophage, Mild
* Nose		Inflammation	Acute, Mild
* Thymus		Degeneration	Marked

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=undetermined

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 453

TRT#: 10

SEX: Female

DAY ON TEST: 735

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V453

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx	* Liver	* Lymph Node, Mandibular
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Lung	Alveolar Epith	Hyperplasia	Moderate
	Alveolus	Hyperplasia	Macrophage, Marked
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitialium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Moderate
	Alveolus	Proteinosis	Marked
	[Hyperplasia TGLS = 4-4,9,10]		
	[Hyperplasia TGLS = 4-4,9,10]		
	[Hyperplasia TGLS = 4-4,9,10]		
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Moderate
		Hyperplasia	Macrophage, Mild
	[Hyperplasia TGLS = 3-4,3-4]		
	[Hyperplasia TGLS = 3-4,3-4]		
* Lymph Node, Mesenteric		Inflammation	Moderate
* Mammary Gland		Hyperplasia	Mild
	[Hyperplasia TGLS = 1-6]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 5-8]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:56
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 453

TRT#: 10

SEX: Female

DAY ON TEST: 735

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V453

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Endometrium

Hyperplasia

Moderate

[Hyperplasia TGLS = 2-11,6]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 454

TRT#: 10

SEX: Female

DAY ON TEST: 735

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V454

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Larynx	* Lymph Node, Mediastinal
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OBSERVATIONS

* Liver		Hemangiosarcoma	
[Hemangiosarcoma TGLS = 5-10]			
* Lung	Alveolar Epith	Hyperplasia	Moderate
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Marked
[Proteinosis TGLS = 7-4]			
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Mild
		Hyperplasia	Macrophage, Mild
[Hyperplasia TGLS = 1-6,1-6,8-4,8-4]			
[Hyperplasia TGLS = 1-6,1-6,8-4,8-4]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 1-6,8-4]			
* Nose	Olfactory Epi	Atrophy	Mild
	Olfactory Epi	Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Spleen		Hyperplasia	Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:56
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 454	TRT#: 10 DOSE: 1.2MG/M3	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO: MZ34/V454
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ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 2-3] * Thyroid Gland * Uterus	Follicular Cel Endometrium	Hyperplasia Fibroma Hyperplasia	Mild Moderate
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PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 455

TRT#: 10

SEX: Female

DAY ON TEST: 736

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V455

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Larynx
* Lymph Node, Mandibular	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Intestine Large, Rectum	* Lymph Node, Mediastinal
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OBSERVATIONS

* Liver		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 2-9]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Marked
	Interstitium	Infiltration Cellular	Minimal
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Marked
Note: TGL"foci"=focal inflam & AMs w/ cholesterol clefts			
[Hyperplasia TGLS = 5-10,4,7,8-4]			
[Hyperplasia TGLS = 5-10,4,7,8-4]			
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Mild
		Hyperplasia	Macrophage, Mild
[Hyperplasia TGLS = 6-4,6-4]			
[Hyperplasia TGLS = 6-4,6-4]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 6-4]			
* Mammary Gland		Hyperplasia	Mild
* Nose	Olfactory Epi	Atrophy	Minimal
		Inflammation	Acute, Mild
* Ovary		Cyst	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:56
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 455	TRT#: 10 DOSE: 1.2MG/M3	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 736 HISTO: MZ34/V455
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: TGL "pigment"=hemosiderin,not sign. lesion

* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Spleen		Hyperplasia	Lymphoid, Mild
* Thymus		Lymphoma Malignant	
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

Animal Note: proliferation in thymus & single nodule in liver

Animal Note: MALIGNANT LYMPHOMA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 456

TRT#: 10

SEX: Female

DAY ON TEST: 672

DOSE: 1.2MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/V456

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Thymus

OBSERVATIONS

* Bone	Femur	Hyperostosis	
* Clitoral Gland		Atrophy	Moderate
* Heart			
Note: granulomatous infiltrate in mediastinum @ base of HT			
* Liver		Atrophy	Moderate
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Marked
Note: granulomatous infiltrate on surface from pleuritis			
	[Hyperplasia TGLS = 8-4,9]		
	[Hyperplasia TGLS = 8-4,9]		
	[Hyperplasia TGLS = 8-4,9]		
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Marked
	[Hyperplasia TGLS = 5-2,6-4]		
* Lymph Node, Mediastinal		Hyperplasia	Lymphoid, Marked
	[Hyperplasia TGLS = 5-2,6-4]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:56
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 456	TRT#: 10 DOSE: 1.2MG/M3	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 672 HISTO: MZ34/V456
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ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Atrophy	Minimal
* Pituitary Gland [Angiectasis TGLS = 4-8]		Angiectasis	Marked
* Thymus Note: med In & granulomatous infil.obscure thymus			
Tissue NOS Note: foreign bodies(plant?) seen in response (slide2) Note: chronic granulomatous pleuritis	Thoracic	Inflammation	Mild

PRIMARY CAUSE OF DEATH -
Animal Note: granulomatous infiltrate in mediastinum
Animal Note: CO/MSAC=granulomatous pleuritis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 457

TRT#: 10

SEX: Female

DAY ON TEST: 734

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V457

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Brain
* Heart
* Intestine Small, Duodenum
* Kidney
* Mammary Gland
* Salivary Glands
* Trachea

* Adrenal Medulla
* Clitoral Gland
* Intestine Large, Cecum
* Intestine Small, Ileum
* Larynx
* Ovary
* Skin
* Urinary Bladder

* Bone
* Esophagus
* Intestine Large, Colon
* Intestine Small, Jejunum
* Lymph Node, Mandibular
* Pancreas
* Stomach, Forestomach

* Bone Marrow
* Gallbladder
* Intestine Large, Rectum
* Islets, Pancreatic
* Lymph Node, Mesenteric
* Parathyroid Gland
* Stomach, Glandular

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Liver
Note: DX based on presence of biliary structures in mass
[Hepatocellular Adenoma TGLS = 2-10]
Hepatocellular Adenoma

* Lung
Alveolar Epith
Alveolus
Bronchus
Interstitialium
Alveolus
Fibrosis
Hyperplasia
Hyperplasia
Hyperplasia
Infiltration Cellular
Inflammation
Proteinosis
Minimal
Mild
Macrophage, Moderate
Lymphoid, Minimal
Mild
Chronic Active, Mild
Marked

[Hyperplasia TGLS = 5-4]
[Hyperplasia TGLS = 5-4]
[Hyperplasia TGLS = 5-4]

* Lymph Node, Bronchial
Hyperplasia
Hyperplasia
Lymphoid, Mild
Macrophage, Mild
[Hyperplasia TGLS = 4-4,4-4]
[Hyperplasia TGLS = 4-4,4-4]

* Nose
* Pituitary Gland
Olfactory Epi
Pars Distalis
Atrophy
Hyperplasia
Minimal
Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:56
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 457	TRT#: 10 DOSE: 1.2MG/M3	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: MZ34/V457
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ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Hematopoietic Cell Proliferation TGLS = 1-9]		Hematopoietic Cell Proliferation	Moderate
* Thymus		Degeneration	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus [Hyperplasia TGLS = 3-12,6]	Endometrium	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 458

TRT#: 10

SEX: Female

DAY ON TEST: 735

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V458

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Brain
* Clitoral Gland	Ear	* 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, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

INSUFFICIENT TISSUE

* Larynx

OBSERVATIONS

* Bone	Femur	Hyperostosis	
* Clitoral GI			
Note: TGL"pigment"=not significant lesion			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Moderate
	Interstitium	Infiltration Cellular	Marked
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Mild
	[Hyperplasia TGLS = 4-9,5-4]		
	[Hyperplasia TGLS = 4-9,5-4]		
	[Hyperplasia TGLS = 4-9,5-4]		
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Marked
	[Hyperplasia TGLS = 6-4]		
* Nose	Olfactory Epi	Atrophy	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Moderate
	[Hyperplasia TGLS = 2-6]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:56
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 458

TRT#: 10

SEX: Female

DAY ON TEST: 735

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V458

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 459

TRT#: 10

SEX: Female

DAY ON TEST: 507

DOSE: 1.2MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/V459

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Larynx
* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Gallbladder	* Lymph Node, Mediastinal
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OBSERVATIONS

* Clitoral Gland		Atrophy	Moderate
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Mild
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Marked
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Minimal
		Hyperplasia	Lymphoid, Moderate
			[Hyperplasia TGLS = 4-4,4-4]
			[Hyperplasia TGLS = 4-4,4-4]
* Nose	Olfactory Epi	Atrophy	Minimal
* Skin		Fibrosarcoma	
			Note: 2 masses, have similar histology
			[Fibrosarcoma TGLS = 1-9,2-10]
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=subcutaneous fibrosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 460

TRT#: 10

SEX: Female

DAY ON TEST: 735

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V460

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Larynx	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Bone	Femur	Hyperostosis	
* Clitoral GI			
Note: TGL "pigment" =not signif. lesion			
* Lung	Alveolar Epith	Fibrosis	Minimal
	Alveolus	Hyperplasia	Minimal
	Bronchus	Hyperplasia	Macrophage, Moderate
	Interstitialium	Hyperplasia	Lymphoid, Minimal
		Infiltration Cellular	Moderate
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Moderate
[Hyperplasia TGLS = 3-4]			
[Hyperplasia TGLS = 3-4]			
[Hyperplasia TGLS = 3-4]			
[Proteinosis TGLS = 4-4]			
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Marked
[Hyperplasia TGLS = 5-4,2-5]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 5-4,2-5]			
* Nose		Hemangioma	
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Thymus		Degeneration	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:56
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 460

TRT#: 10
DOSE: 1.2MG/M3

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 735
HISTO: MZ34/V460

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

Follicular Cel
Follicular Cel

Adenoma
Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 462

TRT#: 10

SEX: Female

DAY ON TEST: 653

DOSE: 1.2MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/V462

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* 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	* Larynx	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Clitoral Gland	* Lymph Node, Mediastinal	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Hematopoietic Cell Proliferation	Mild
* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Liver		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 5-3]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Hyperplasia	Macrophage, Mild
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitium	Infiltration Cellular	Minimal
		Inflammation	Chronic Active, Mild
	Alveolus	Lymphoma Malignant	
		Proteinosis	Marked
Note: evaluation clouded by met infiltrates			
[Lymphoma Malignant TGLS = 9-11]			
[Proteinosis TGLS = 8-4]			
Lymph Node	Pancreatic	Lymphoma Malignant	
[Lymphoma Malignant TGLS = 6-10,7-4]			
* Lymph Node, Bronchial		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 6-10,7-4]			
* Nose	Olfactory Epi	Atrophy	Minimal
		Inflammation	Acute, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:56
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 462	TRT#: 10 DOSE: 1.2MG/M3	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 653 HISTO: MZ34/V462
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ORGAN AND ACCOUNTABLE SITE STATUS

* Ovary [Cyst TGLS = 3-6,4-6]		Cyst	
* Skin Note: in skin adjacent to rectum [Squamous Cell Carcinoma TGLS = 1-5]	Sebaceous Gl	Squamous Cell Carcinoma	
* Spleen [Lymphoma Malignant TGLS = 2-9,3]		Lymphoma Malignant	
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: TGL"rectum-mass" is in skin adjacent to rectum

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 463

TRT#: 10

SEX: Female

DAY ON TEST: 736

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V463

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Larynx	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Thymus	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Bone	Femur	Hyperostosis	
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Marked
	Bronchus	Hyperplasia	Lymphoid, Minimal
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Moderate
	Alveolus	Proteinosis	Moderate
Note: large # crystals w/ AMs & chronic inflam. [Inflammation TGLS = 4-4,9]			
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Moderate
		Hyperplasia	Macrophage, Moderate
			[Hyperplasia TGLS = 3-4,3-4]
			[Hyperplasia TGLS = 3-4,3-4]
* Nose	Olfactory Epi	Atrophy	Minimal
		Inflammation	Acute, Mild
		Cyst	
* Ovary			
			[Cyst TGLS = 1,2-6]
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
* Stomach, Glandular		Inflammation	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 464

TRT#: 10

DOSE: 1.2MG/M3

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 734

HISTO: MZ34/V464

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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
* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Bone	Femur	Hyperostosis	
* Liver		Hepatocellular Adenoma	
	[Hepatocellular Adenoma TGLS = 2-9]		
* Lung		Alveolar/Bronchiolar Adenoma	
		Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Marked
	Bronchus	Hyperplasia	Lymphoid, Mild
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Moderate
	Alveolus	Proteinosis	Minimal
	[Alveolar/Bronchiolar Adenoma TGLS = 5-10]		
	[Hyperplasia TGLS = 6-11,7-4]		
	[Hyperplasia TGLS = 6-11,7-4]		
	[Hyperplasia TGLS = 6-11,7-4]		
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Mild
		Hyperplasia	Macrophage, Minimal
	[Hyperplasia TGLS = 4-4,4-4]		
	[Hyperplasia TGLS = 4-4,4-4]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:56
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 464	TRT#: 10 DOSE: 1.2MG/M3	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: MZ34/V464
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ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Atrophy	Minimal
* Spleen [Hyperplasia TGLS = 1-3]		Hyperplasia	Lymphoid, Minimal
* Thyroid Gland	Follicular Cel Follicular Cel	Adenoma Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 465

TRT#: 10

SEX: Female

DAY ON TEST: 736

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V465

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Liver		Infarct Infiltration Cellular	Marked Lymphocyte, Marked
Note: large solitary infiltrate, pleocellular			
Note: whole median lobe infarcted, tumor?? not sure			
[Infarct TGLS = 3-9]			
[Infiltration Cellular TGLS = 4-3]			
* Lung	Alveolar Epith Alveolus Interstitium Alveolus	Fibrosis Hyperplasia Hyperplasia Infiltration Cellular Inflammation Proteinosis	Minimal Mild Macrophage, Moderate Mild Chronic Active, Mild Moderate
[Hyperplasia TGLS = 7-4]			
[Hyperplasia TGLS = 7-4]			
* Lymph Node, Bronchial		Hyperplasia Hyperplasia	Macrophage, Minimal Lymphoid, Moderate
[Hyperplasia TGLS = 2-5,2-5,6-4,6-4]			
[Hyperplasia TGLS = 2-5,2-5,6-4,6-4]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Marked
[Hyperplasia TGLS = 2-5,6-4]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:56
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 465	TRT#: 10 DOSE: 1.2MG/M3	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 736 HISTO: MZ34/V465
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ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Atrophy	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 466

TRT#: 10

SEX: Female

DAY ON TEST: 733

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V466

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Larynx	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Marked
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Moderate
	Alveolus	Proteinosis	Marked
[Hyperplasia TGLS = 2,3-4]			
[Hyperplasia TGLS = 2,3-4]			
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Marked
		Hyperplasia	Macrophage, Minimal
[Hyperplasia TGLS = 1-4,1-4]			
[Hyperplasia TGLS = 1-4,1-4]			
* Nose	Olfactory Epi	Atrophy	Minimal
		Inflammation	Acute, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Hyperplasia	Lymphoid, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:56
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 467

TRT#: 12

SEX: Female

DAY ON TEST: 197

DOSE: 1.2MG/M3LUNG TOX

DISP: Scheduled Sacrifice

HISTO: MZ34-V467

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney

* Lymph Node, Bronchial

* Nose

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Lung

Alveolus
Interstitialium

Hyperplasia
Infiltration Cellular
Inflammation

Macrophage, Minimal
Mild
Chronic Active, Minimal
Minimal

Alveolus

Proteinosis

[Hyperplasia TGLS = 3-3]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 468

TRT#: 10

SEX: Female

DAY ON TEST: 735

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V468

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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, Mediastinal
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

INSUFFICIENT TISSUE

* Larynx

OBSERVATIONS

* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Marked
	Bronchus	Hyperplasia	Lymphoid, Moderate
	Interstitialium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Moderate
	Alveolus	Proteinosis	Moderate
	[Hyperplasia TGLS = 4-4]		
	[Hyperplasia TGLS = 4-4]		
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Marked
		Hyperplasia	Macrophage, Mild
	[Hyperplasia TGLS = 3-4,3-4]		
	[Hyperplasia TGLS = 3-4,3-4]		
* Mammary Gland		Hyperplasia	Minimal
* Nose		Inflammation	Acute, Minimal
Oral Mucosa	Buccal	Squamous Cell Papilloma	
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Spleen		Hyperplasia	Lymphoid, Mild
	[Hyperplasia TGLS = 1-3]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:56
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 468	TRT#: 10 DOSE: 1.2MG/M3	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO: MZ34/V468
ORGAN AND ACCOUNTABLE SITE STATUS			
* Uterus [Hyperplasia TGLS = 2-6]	Endometrium	Hyperplasia Inflammation	Moderate Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 470

TRT#: 10

SEX: Female

DAY ON TEST: 563

DOSE: 1.2MG/M3

DISP: Natural Death

HISTO: MZ34/V470

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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
* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Medulla		Angiectasis	Moderate
* Liver		Angiectasis	Moderate
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
Note: DX based on pattern, cytology			
Note: angiectasis in adenoma			
	[Hepatocellular Adenoma TGLS = 2-3,10]		
	[Hepatocellular Carcinoma TGLS = 3-9]		
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Mild
	Interstitialium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Minimal
	Alveolus	Proteinosis	Marked
	[Proteinosis TGLS = 5-4]		
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
		Hyperplasia	Lymphoid, Minimal
* Nose	Olfactory Epi	Atrophy	Minimal
	Olfactory Epi	Degeneration	Minimal
* Spleen		Hyperplasia	Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 470

TRT#: 10

SEX: Female

DAY ON TEST: 563

DOSE: 1.2MG/M3

DISP: Natural Death

HISTO: MZ34/V470

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 1-3]

PRIMARY CAUSE OF DEATH

-

Animal Note: COD=hepatocellular tumors

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 471

TRT#: 10

SEX: Female

DAY ON TEST: 733

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V471

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Larynx	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Intestine Large, Rectum	* Lymph Node, Mediastinal
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OBSERVATIONS

* Lung		Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Marked
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Moderate
	Alveolus	Proteinosis	Marked
	[Hyperplasia TGLS = 2-4]		
	[Hyperplasia TGLS = 2-4]		
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Moderate
		Hyperplasia	Lymphoid, Mild
	[Hyperplasia TGLS = 3-4,3-4]		
	[Hyperplasia TGLS = 3-4,3-4]		
* Nose	Olfactory Epi	Atrophy	Minimal
* Ovary		Cyst	
	Note: protein-filled		
	[Cyst TGLS = 1-6]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Moderate
* Uterus	Endometrium	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:56
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 471

TRT#: 10

DOSE: 1.2MG/M3

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 733

HISTO: MZ34/V471

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 472

TRT#: 10

SEX: Female

DAY ON TEST: 477

DOSE: 1.2MG/M3

DISP: Scheduled Sacrifice

HISTO: MZ34/V472

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Liver	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Larynx	* Lymph Node, Mediastinal
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OBSERVATIONS

* Intestine Large, Cecum		Hyperplasia	Lymphoid, Mild
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Interstitium	Infiltration Cellular	Minimal
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Marked
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Mild
		Hyperplasia	Macrophage, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
* Uterus	Endometrium	Hyperplasia	Mild

[Hyperplasia TGLS = 1-6,9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 473

TRT#: 10

SEX: Female

DAY ON TEST: 732

DOSE: 1.2MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/V473

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Brain	* Clitoral Gland
* Esophagus	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Islets, Pancreatic	* Kidney	* Larynx	* Lymph Node, Mandibular
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone	Maxilla	Hyperostosis	
Note: maxilla, may relate to TGL9"bone deformity,eye"			
* Bone Marrow	Erythroid Cell	Hyperplasia	Mild
Harderian Gland		Adenoma	
Note: inflammation of adenexial tissues			
[Adenoma TGLS = 2-9]			
* Intestine Small, Jejunum		Adenoma	
[Adenoma TGLS = 6-5]			
* Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 4-11]			
[Mixed Cell Focus TGLS = 5-12]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Moderate
	Interstitialium	Infiltration Cellular	Moderate
		Inflammation	Chronic Active, Moderate
	Alveolus	Proteinosis	Moderate
[Inflammation TGLS = 8-13]			
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Marked
[Hyperplasia TGLS = 7-4,7-4]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:56
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 473	TRT#: 10 DOSE: 1.2MG/M3	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 732 HISTO: MZ34/V473
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ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 7-4,7-4] * Lymph Node, Mediastinal		Hyperplasia	Lymphoid, Marked
[Hyperplasia TGLS = 7-4] * Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 7-4] * Nose	Olfactory Epi	Atrophy	Minimal
* Skin		Fibroma	
[Fibroma TGLS = 1-10] * Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Lymphoid, Moderate
* Uterus		Hyperplasia	Minimal
[Inflammation TGLS = 3-6]		Inflammation	Moderate

PRIMARY CAUSE OF DEATH -

Animal Note: CO/MSAC=harderian gland adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 474

TRT#: 10

SEX: Female

DAY ON TEST: 445

DOSE: 1.2MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/V474

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Esophagus
* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Degeneration	Mild
* Brain	Thalamus	Degeneration	Focal, Mild
* Clitoral Gland		Ectasia	Mild
[Ectasia TGLS = 1-6]			
* Heart		Cardiomyopathy	Mild
* Kidney	Glomerulus	Histiocytic Sarcoma	
		Inflammation	Moderate
		Nephropathy	Mild
Note: glomerulonephritis may relate to mets			
Note: tumor cells, in vessels			
Note: tumor ce3lls in glomaeruli			
[Inflammation TGLS = 6-3]			
* Liver		Histiocytic Sarcoma	
Note: neoplasm infiltrates all of liver			
Note: PAS+ material in macrophages			
Note: DX based on diffuse growth pattern			
[Histiocytic Sarcoma TGLS = 3-3,4-10,5-9,8-11]			
* Lung	Alveolar Epith	Histiocytic Sarcoma	
		Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:56
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 474	TRT#: 10 DOSE: 1.2MG/M3	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 445 HISTO: MZ34/V474
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ORGAN AND ACCOUNTABLE SITE STATUS

Alveolus	Hyperplasia	Macrophage, Mild
Interstitial	Infiltration Cellular	Moderate
	Inflammation	Chronic Active, Mild
Alveolus	Proteinosis	Marked
Note: tumor cells in and around vessels		
Note: much of interstitial infiltrates assoc.w/ mets in vessels		
* Lymph Node, Bronchial [Hyperplasia TGLS = 7-4]	Hyperplasia	Lymphoid, Moderate
* Lymph Node, Mediastinal [Hyperplasia TGLS = 7-4]	Hyperplasia	Lymphoid, Mild
* Spleen [Hematopoietic Cell Proliferation TGLS = 2-3]	Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH -

Animal Note: CO/MSAC=histiocytic sarcoma, primary liver

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 475

TRT#: 10

SEX: Female

DAY ON TEST: 735

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V475

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Intestine Large, Rectum

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Kidney		Metaplasia	Osseous, Mild
* Liver		Infiltration Cellular	Lymphocyte, Mild
* Lung	Alveolar Epith	Hyperplasia	Moderate
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Mild
	Interstitium	Infiltration Cellular	Moderate
		Inflammation	Chronic Active, Moderate
	Alveolus	Proteinosis	Moderate
[Hyperplasia TGLS = 4-4]			
[Hyperplasia TGLS = 4-4]			
[Hyperplasia TGLS = 4-4]			
Lymph Node	Iliac	Hyperplasia	Lymphoid, Marked
[Hyperplasia TGLS = 1-9,2-2,3-4]			
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Minimal
		Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 1-9,1-9,2-2,2-2,3-4,3-4]			
[Hyperplasia TGLS = 1-9,1-9,2-2,2-2,3-4,3-4]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Marked
[Hyperplasia TGLS = 1-9,2-2,3-4]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:56
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 475	TRT#: 10 DOSE: 1.2MG/M3	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO: MZ34/V475
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ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mediastinal [Hyperplasia TGLS = 1-9,2-2,3-4]		Hyperplasia	Lymphoid, Minimal
* Mammary Gland		Hyperplasia	Mild
* Nose	Olfactory Epi	Atrophy	Minimal
	Olfactory Epi	Degeneration	Minimal
* Spleen		Hyperplasia	Lymphoid, Marked
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: med In on slide 2A

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 478

TRT#: 10

SEX: Female

DAY ON TEST: 733

DOSE: 1.2MG/M3

DISP: Terminal Sacrifice

HISTO: MZ34/V478

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

INSUFFICIENT TISSUE

* Larynx

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Moderate
* Bone	Femur	Hyperostosis	
* Kidney		Infiltration Cellular	Lymphocyte, Mild
* Lung		Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Moderate
	Alveolus	Proteinosis	Marked
Note: TGL"nodule"=focus of AMs w/ inflammation			
		[Hyperplasia TGLS = 3,4-4,9]	
		[Hyperplasia TGLS = 3,4-4,9]	
Lymph Node	Iliac	Hyperplasia	Lymphoid, Marked
		[Hyperplasia TGLS = 2-10,5-4]	
* Lymph Node, Bronchial		Hyperplasia	Lymphoid, Moderate
		Hyperplasia	Macrophage, Moderate
		[Hyperplasia TGLS = 2-10,2-10,5-4,5-4]	
		[Hyperplasia TGLS = 2-10,2-10,5-4,5-4]	
* Nose	Olfactory Epi	Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:56
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 478

TRT#: 10
DOSE: 1.2MG/M3

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 733
HISTO: MZ34/V478

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Hyperplasia	Lymphoid, Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Moderate

[Hyperplasia TGLS = 1-6]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Nickel subsulfide

CAS Number: 12035-72-2

Date Report Requested: 10/23/2014

Time Report Requested: 00:48:56

First Dose M/F: NA / NA

Lab: LITRI

ANIMAL ID: 479

TRT#: 10

SEX: Female

DAY ON TEST: 580

DOSE: 1.2MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/V479

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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
* Larynx	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Hyperplasia	Macrophage, Moderate
	Bronchus	Hyperplasia	Lymphoid, Mild
	Interstitium	Infiltration Cellular	Mild
		Inflammation	Chronic Active, Mild
	Alveolus	Proteinosis	Marked
	[Proteinosis TGLS = 5-4]		
* Lymph Node, Bronchial		Hyperplasia	Macrophage, Mild
		Hyperplasia	Lymphoid, Mild
* Ovary		Cyst	
		Cystadenoma	
	[Cyst TGLS = 3-6]		
* Skin	Pinna	Fibrosarcoma	
	Pinna	Hyperkeratosis	Moderate

Note: invasive fibrosarc, many mitotic figures

[Fibrosarcoma TGLS = 1-9]

[Hyperkeratosis TGLS = 2-10]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05107-06
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Nickel subsulfide
CAS Number: 12035-72-2

Date Report Requested: 10/23/2014
Time Report Requested: 00:48:56
First Dose M/F: NA / NA
Lab: LITRI

ANIMAL ID: 479

TRT#: 10

SEX: Female

DAY ON TEST: 580

DOSE: 1.2MG/M3

DISP: Moribund Sacrifice

HISTO: MZ34/V479

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Hematopoietic Cell Proliferation

Moderate

PRIMARY CAUSE OF DEATH

-

Animal Note: CO/MSAC=fibrosarcoma,subq of ear

**** END OF REPORT ****

* PROTOCOL REQUIRED TISSUE