

Experiment Number: 89029-03

Test Type: 150-DAY

Route: MAGNETIC FIELDS

Species/Strain: Mouse/PIM

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/20/2014

Time Report Requested: 19:54:11

First Dose M/F: NA / NA

Lab: IIT

C Number: C89029B

Lock Date: 01/05/1995

Cage Range: All

Date Range: All

Reasons For Removal: All

Removal Date Range: All

Treatment Groups: All

Study Gender: Both

PWG Approval Date NONE

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Lab: IIT

**PIM Mouse Male
10 GAUSS**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	6	6	6	0	6	6	6	6	6	6	6	6	9	6	6	6	6	6
	3	3	3	3	3	3	3	3	3	3	3	3	1	3	3	3	4	3
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8
	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	9

TOTALS*Alimentary System**

Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	19
Inflammation, Chronic																		2

1 2.0

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	19
Hyperplasia																		3
Lymph Node, Mesenteric	M	+	+	+	M	+	M	+	+	+	+	+	+	+	M	+	M	13
Hyperplasia																		2
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	19
Lymph Follic, Hyperplasia																		2
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	19

7 2.1

3 1.7

1 2.0

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

X ..Lesion present

A ..Autolysis precludes evaluation

I ..Insufficient tissue

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

- 1) Minimal 3) Moderate
- 2) Mild 4) Marked

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First Dose M/F: NA / NA

Lab: IIT

**PIM Mouse Male
10 GAUSS**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
	6	6	6	0	6	6	6	6	6	6	6	6	6	9	6	6	6	6
	3	3	3	3	3	3	3	3	3	3	3	3	3	1	3	3	3	4
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8
	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3

***TOTALS**

1 4.0

2 2.0

Atrophy

4

Hyperplasia

2 2

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

Lung

+ 19

Alveolar Epith, Hyperplasia

3 1 3.0

Hemorrhage

1 1

2 1.0

Interstitial, Inflammation, Chronic

2 2 1 3 1 1 2.0

Perivascular, Inflammation, Chronic

5 1.8

Serosa, Inflammation, Chronic

3 3 1 3.0

Special Senses System

NONE

Urinary System

Kidney + 19

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

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Time Report Requested: 19:54:12

First Dose M/F: NA / NA

Lab: IIT

**PIM Mouse Male
10 GAUSS**

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |
| | 6 | 6 | 6 | 0 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 9 | 6 | 6 | 6 | 6 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 3 | 3 | 3 | 4 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| *TOTALS | | | | | | | | | | | | | | | | | | |
| Hydronephrosis | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | 7 | 1.6 |
| | | | | | | | | | | | | | | | | | | |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

X ..Lesion present

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 Time Report Requested: 19:54:12
 First Dose M/F: NA / NA
 Lab: IIT

| PIM Mouse Male
10 GAUSSINTER | DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | |
|---------------------------------|-------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | 1 1 1 1 1 0 1 1 1 1 1 0 1 1 0 1 1 0 0 0 | | | | | | | | | | | | | | | | | | |
| | | 1 2 6 6 6 3 6 2 2 6 5 7 6 1 8 6 6 9 9 9 | | | | | | | | | | | | | | | | | | |
| | | 1 5 3 3 3 4 3 1 7 3 4 8 3 1 1 3 3 1 8 | | | | | | | | | | | | | | | | | | |
| | | 0 | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | | 0 | | | | | | | | | | | | | | | | | | |
| | | 0 | | | | | | | | | | | | | | | | | | |
| | | 0 | | | | | | | | | | | | | | | | | | |
| | | 9 | | | | | | | | | | | | | | | | | | |
| | | 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |

*TOTALS

Alimentary System

| | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 | |
| Congestion | | | | | | | | | | | | | | | | | | | 1 | 1 1.0 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | 2 | 1 1.0 |

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

| | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | 3 3.0 |
| Lymph Node, Mesenteric | M | + | + | + | + | + | + | M | + | + | + | + | + | M | + | + | + | + | 16 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

1-4 ..Lesion qualified as:

X ..Lesion present

A ..Autolysis precludes evaluation

1) Minimal 3) Moderate

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 First Dose M/F: NA / NA
 Lab: IIT

| PIM Mouse Male
10 GAUSSINTER | DAY ON TEST | ANIMAL ID | | | | | | | | | | | | | | | | | | *TOTALS |
|---------------------------------|-------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---------|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | |
| | 1 | 2 | 6 | 6 | 6 | 3 | 6 | 2 | 2 | 6 | 5 | 7 | 6 | 1 | 8 | 6 | 6 | 9 | 9 | |
| | 1 | 5 | 3 | 3 | 3 | 4 | 3 | 1 | 7 | 3 | 4 | 8 | 3 | 1 | 1 | 3 | 3 | 1 | 8 | |
| Thymus | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 | |
| Integumentary System | | NONE | | | | | | | | | | | | | | | | | | |
| Musculoskeletal System | | NONE | | | | | | | | | | | | | | | | | | |
| Nervous System | | NONE | | | | | | | | | | | | | | | | | | |
| Respiratory System | | | | | | | | | | | | | | | | | | | | |
| Lung | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | 3 | 3 |
| Special Senses System | | NONE | | | | | | | | | | | | | | | | | 2 | 3.0 |
| Urinary System | | | | | | | | | | | | | | | | | | | | |
| Kidney | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 | |
| Hydronephrosis | | | | | | | | | | | | | | | | | | | 2 | 3.0 |
| Inflammation, Chronic | | 1 | 2 | 2 | | 1 | | | | | | 1 | | | 2 | | | | 6 | 1.5 |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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First Dose M/F: NA / NA

Lab: IIT

**PIM Mouse Male
2 GAUSS**

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 6 | 6 | 6 | 0 | 6 | 6 | 6 | 6 | 8 | 6 | 6 | 6 | 6 | 6 | 6 | 2 | 6 | 6 |
| | 3 | 3 | 3 | 1 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 7 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 9 |

TOTALS*Alimentary System**

| | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | 5 | 1.6 |

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

| | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 | |
| Hyperplasia | 2 | 1 | 3 | | | | | | | | | | | | | | | 10 | 2.4 |
| Lymph Node, Mesenteric | M | + | + | + | + | + | + | + | + | + | M | M | + | + | + | + | M | + | 15 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 | |
| Lymph Follic, Hyperplasia | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Thymus | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | 18 | |
| Hyperplasia | | | | | | | | 1 | | | | | | | | | | 2 | 1.5 |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

X ..Lesion present

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2 GAUSS**

| DAY ON TEST | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |
| | 6 | 6 | 6 | 0 | 6 | 6 | 6 | 6 | 8 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 2 | 6 | 8 |
| | 3 | 3 | 3 | 1 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 7 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

TOTALS*Integumentary System**

NONE

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

Lung

+ 19

Hemorrhage

3 1 2 2.0

Perivascular, Inflammation, Chronic

4 3 1 2 2 5 2.4

Special Senses System

NONE

Urinary System

Kidney + 19

Hydronephrosis

1 1 1.0

Inflammation, Chronic

1 3 2 3 2 8 2.0

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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Lab: IIT

**PIM Mouse Male
0.02 GAUSS**

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 6 | 6 | 9 | 6 | 2 | 6 | 6 | 8 | 0 | 6 | 4 | 6 | 9 | 6 | 6 | 6 | 6 | 6 |
| | 3 | 3 | 8 | 3 | 2 | 3 | 3 | 2 | 0 | 3 | 1 | 3 | 4 | 3 | 3 | 3 | 3 | 3 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

TOTALS*Alimentary System**

| | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|-------|
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 | |
| Inflammation, Chronic | 1 | 1 | | | | 1 | 1 | | | | | | | 1 | | 2 | 1 | 1 | 8 1.1 |
| Necrosis | | | | | | | | | | | | | | | | | | 1 3.0 | |

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

| | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|-------|
| Lymph Node, Mandibular | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | 18 |
| Hyperplasia | 1 | | | | | | 3 | | 2 | | 1 | | | | | 4 | | 5 2.2 |
| Lymph Node, Mesenteric | M | M | + | + | + | + | M | M | + | + | + | + | + | M | M | + | + | 13 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 |
| Lymph Follic, Hyperplasia | | | | | | | | | | | 2 | | | | | 1 | 2.0 | |
| Thymus | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | 18 |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

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First Dose M/F: NA / NA

Lab: IIT

**PIM Mouse Male
0.02 GAUSS**

| DAY ON TEST | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 6 | 6 | 9 | 6 | 2 | 6 | 6 | 8 | 0 | 6 | 4 | 6 | 9 | 6 | 6 | 6 | 6 | 6 | 6 |
| 3 | 3 | 8 | 3 | 2 | 3 | 3 | 2 | 0 | 3 | 1 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 3 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

*TOTALS

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

Lung

+ 19

Hemorrhage

3 1 3.0

Interstitial, Inflammation, Chronic

2 1 2.0

Perivascular, Inflammation, Chronic

1 2 1.5

Serosa, Inflammation, Chronic

2 1 2.0

Special Senses System

NONE

Urinary System

Kidney + 19

Hydronephrosis

2 1 2.0

Inflammation, Chronic

2 2 1 1 2 1 2 2 8 1.6

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

X ..Lesion present

A ..Autolysis precludes evaluation

I ..Insufficient tissue

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 89029-03
 Test Type: 150-DAY
 Route: MAGNETIC FIELDS
 Species/Strain: Mouse/PIM

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/20/2014
 Time Report Requested: 19:54:12
 First Dose M/F: NA / NA
 Lab: IIT

| PIM Mouse Male
SHAM CONTROL | DAY ON TEST | 0 | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | 1 1 1 1 1 1 0 1 1 1 0 0 1 1 1 1 1 1 1 0 0 0 0 0 0 | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 3 6 6 2 6 5 7 2 6 6 7 8 5 6 6 6 6 6 6 9 8 | 8 3 3 0 3 7 9 4 3 3 2 2 4 3 3 3 3 3 3 0 2 | | | | | | | | | | | | | | | | | |
| | 0 | 0 | | | | | | | | | | | | | | | | | |
| *TOTALS | | | | | | | | | | | | | | | | | | | |

Alimentary System

| | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | 3 1.3 |

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

| | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | 3 3.0 |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | 18 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | 2 2.0 |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

X ..Lesion present

A ..Autolysis precludes evaluation

I ..Insufficient tissue

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

- 1) Minimal 3) Moderate
- 2) Mild 4) Marked

Experiment Number: 89029-03
 Test Type: 150-DAY
 Route: MAGNETIC FIELDS
 Species/Strain: Mouse/PIM

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/20/2014
 Time Report Requested: 19:54:12
 First Dose M/F: NA / NA
 Lab: IIT

| PIM Mouse Male
SHAM CONTROL | DAY ON TEST | Data Grid Rows | | | | | | | | | | | | | | | | | | *TOTALS | |
|-------------------------------------|-------------|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|-------|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *TOTALS | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| Lymph Follic, Hyperplasia | | | | | | | | | | | 1 | | | | | | | | | 2 2.0 | |
| Thymus | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 | |
| Hyperplasia | | | | | | | | | | | 2 | | | | | | | | | 1 2.0 | |
| Integumentary System | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | |
| Musculoskeletal System | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | |
| Nervous System | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | |
| Respiratory System | | | | | | | | | | | | | | | | | | | | | |
| Lung | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 | |
| Alveolar Epith, Hyperplasia | | | | | | | | | | | | 1 | | | | | | | | | 1 1.0 |
| Hemorrhage | | 1 | | | | | | | | | 1 | | | | | | | | | | 5 1.6 |
| Interstitial, Inflammation, Chronic | | | | | | | | | | | 1 | | | | | | | | | | 1 1.0 |
| Perivascular, Inflammation, Chronic | | | | | | | | | | | | | | | 1 | | | | | | 1 1.0 |
| Special Senses System | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | |
| Urinary System | | | | | | | | | | | | | | | | | | | | | |
| Kidney | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 | |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

X ..Lesion present

A ..Autolysis precludes evaluation

I ..Insufficient tissue

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 89029-03

Test Type: 150-DAY

Route: MAGNETIC FIELDS

Species/Strain: Mouse/PIM

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/20/2014

Time Report Requested: 19:54:12

First Dose M/F: NA / NA

Lab: IIT

**PIM Mouse Male
SHAM CONTROL**

| DAY ON TEST | PIM Mouse Male | | | | | | | | | | | | | | | | | |
|-------------|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 |
| 3 | 6 | 6 | 2 | 6 | 5 | 7 | 2 | 6 | 6 | 7 | 8 | 5 | 6 | 6 | 6 | 6 | 9 | 8 |
| 8 | 3 | 3 | 0 | 3 | 7 | 9 | 4 | 3 | 3 | 2 | 2 | 4 | 3 | 3 | 3 | 3 | 0 | 2 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

*TOTALS

| | | | | | | | | | | | | | | | | | | |
|-----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----|-------|
| Hydronephrosis | | | | | | | | | | | | | | | | | 2 | 1 2.0 |
| Inflammation | | | | | | | | | | | | | | | | | 2 | 1 2.0 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | 2 1 | 4 1.5 |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

X ..Lesion present

A ..Autolysis precludes evaluation

I ..Insufficient tissue

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 89029-03

Test Type: 150-DAY

Route: MAGNETIC FIELDS

Species/Strain: Mouse/PIM

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/20/2014

Time Report Requested: 19:54:12

First Dose M/F: NA / NA

Lab: IIT

**PIM Mouse Male
10 GAUSS**

| DAY ON TEST | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | |
| 6 | 0 | 6 | 6 | 6 | 0 | 6 | 5 | 6 | 7 | 6 | 6 | |
| 3 | 6 | 3 | 3 | 3 | 7 | 3 | 4 | 3 | 6 | 3 | 3 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |

*TOTALS

Alimentary System

| | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|-------|
| Liver | + | + | + | + | + | + | + | + | + | + | + | 11 |
| Fatty Change | | | | | | | 1 | | | | | 1 1.0 |
| Inflammation, Chronic | | | | 1 | | | | 1 | | | | 2 1.0 |

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

| | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|-----|
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | 11 |
| Hyperplasia | | | | | | 2 | 2 | 3 | 1 | | 4 | 2.0 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | 11 |
| Hyperplasia | | | | | | 2 | | 2 | | | 2 | 2.0 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | 11 |
| Hematopoietic Cell Proliferation | | | | | | | | | 1 | | 1 | 1.0 |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

X ..Lesion present

A ..Autolysis precludes evaluation

I ..Insufficient tissue

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

- 1) Minimal 3) Moderate
- 2) Mild 4) Marked

Experiment Number: 89029-03

Test Type: 150-DAY

Route: MAGNETIC FIELDS

Species/Strain: Mouse/PIM

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/20/2014

Time Report Requested: 19:54:13

First Dose M/F: NA / NA

Lab: IIT

**PIM Mouse Male
10 GAUSS**

| DAY ON TEST | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | |
| 6 | 0 | 6 | 6 | 6 | 0 | 6 | 5 | 6 | 7 | 6 | | |
| 3 | 6 | 3 | 3 | 3 | 7 | 3 | 4 | 3 | 6 | 3 | | |

| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-----------|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |

*TOTALS

Thymus

+ + + + + + + + + + + +

11

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

Lung

+ + + + + + + + + + + +

11

Alveolar Epith, Hyperplasia

2 1 2.0

Hemorrhage

3 3 2 3.0

Perivascular, Inflammation, Chronic

3 1 3.0

Special Senses System

NONE

Urinary System

Kidney + + + + + + + + + + + +

11

Infarct

2 1 2.0

Inflammation, Chronic

2 1 3 4 1.8

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

X ..Lesion present

A ..Autolysis precludes evaluation

I ..Insufficient tissue

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

- 1) Minimal 3) Moderate
- 2) Mild 4) Marked

Experiment Number: 89029-03

Test Type: 150-DAY

Route: MAGNETIC FIELDS

Species/Strain: Mouse/PIM

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/20/2014

Time Report Requested: 19:54:13

First Dose M/F: NA / NA

Lab: IIT

**PIM Mouse Male
10 GAUSSINTER**

| DAY ON TEST | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |

*TOTALS

Alimentary System

| | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|-----|
| Liver | + | + | + | + | + | + | + | + | + | + | + | 11 |
| Inflammation, Chronic | | | | | | 2 | | | | | | 1 |
| | | | | | | | | | | | | 2.0 |

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

| | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|----|
| Lymph Node, Mandibular | M | + | + | + | + | + | + | + | + | + | + | 10 |
| Hyperplasia | | | | | | | | 2 | 1 | | 2 | 3 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | M | + | + | 10 |
| Hyperplasia | | | | | | | | 2 | 1 | | | 2 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | 11 |
| Hematopoietic Cell Proliferation | | | | | | | | | 1 | | | 1 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | 11 |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

X ..Lesion present

A ..Autolysis precludes evaluation

I ..Insufficient tissue

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

- 1) Minimal 3) Moderate
- 2) Mild 4) Marked

Experiment Number: 89029-03

Test Type: 150-DAY

Route: MAGNETIC FIELDS

Species/Strain: Mouse/PIM

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/20/2014

Time Report Requested: 19:54:13

First Dose M/F: NA / NA

Lab: IIT

**PIM Mouse Male
10 GAUSSINTER**

| DAY ON TEST | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 |
| | 8 | 0 | 6 | 6 | 1 | 5 | 8 | 6 | 6 | 6 | 6 | 6 |
| | 4 | 1 | 3 | 3 | 4 | 4 | 5 | 3 | 3 | 3 | 3 | 3 |

*TOTALS

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

Lung

+

+

+

+

+

+

+

+

+

+

+

+

11

Hemorrhage

2

3

1

2

4

2.0

Perivascular, Inflammation, Chronic

1

1

2

1.0

Special Senses System

NONE

Urinary System

Kidney

+

+

+

+

+

+

+

+

+

+

+

+

11

Hydronephrosis

2

1

2

1.5

Inflammation, Chronic

2

2

2

2.0

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

X ..Lesion present

A ..Autolysis precludes evaluation

I ..Insufficient tissue

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 89029-03

Test Type: 150-DAY

Route: MAGNETIC FIELDS

Species/Strain: Mouse/PIM

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/20/2014

Time Report Requested: 19:54:13

First Dose M/F: NA / NA

Lab: IIT

**PIM Mouse Male
2 GAUSS**

| DAY ON TEST | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | |
| | 9 | 6 | 9 | 9 | 6 | 6 | 6 | 6 | 6 | 8 | 0 | |
| | 9 | 3 | 5 | 0 | 3 | 6 | 3 | 3 | 3 | 4 | 5 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | |
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |

*TOTALS

Alimentary System

Liver

+ + + + + + + + + + + 11

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

Lymph Node, Mandibular

+ + + + + + + + + + + 11

1 2.0

Hemorrhage

2

2

2 2.0

Hyperplasia

2

Lymph Node, Mesenteric

+ + + + M + + + + + + 10

Spleen

+ + + + + + + + + + + 11

Thymus

+ + + + + + + + + + + 11

Integumentary System

NONE

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

X ..Lesion present

A ..Autolysis precludes evaluation

I ..Insufficient tissue

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

- 1) Minimal 3) Moderate
- 2) Mild 4) Marked

Experiment Number: 89029-03

Test Type: 150-DAY

Route: MAGNETIC FIELDS

Species/Strain: Mouse/PIM

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/20/2014

Time Report Requested: 19:54:13

First Dose M/F: NA / NA

Lab: IIT

**PIM Mouse Male
2 GAUSS**

| DAY ON TEST | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | |
| | 9 | 6 | 9 | 9 | 6 | 6 | 6 | 6 | 6 | 8 | 0 | |
| | 9 | 3 | 5 | 0 | 3 | 6 | 3 | 3 | 3 | 4 | 5 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | |
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |

*TOTALS

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

Lung

+ + + + + + + + + + + 11

Hemorrhage

1 3 2 1 4 1.8

Special Senses System

NONE

Urinary System

Kidney

+ + + + + + + + + + + 11

Inflammation, Chronic

1 1 3 3 1.7

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

X ..Lesion present

A ..Autolysis precludes evaluation

I ..Insufficient tissue

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

- 1) Minimal 3) Moderate
- 2) Mild 4) Marked

Experiment Number: 89029-03

Test Type: 150-DAY

Route: MAGNETIC FIELDS

Species/Strain: Mouse/PIM

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/20/2014

Time Report Requested: 19:54:13

First Dose M/F: NA / NA

Lab: IIT

**PIM Mouse Male
0.02 GAUSS**

| DAY ON TEST | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 |
| | 6 | 6 | 9 | 9 | 6 | 2 | 1 | 1 | 9 | 6 | 6 | 6 |
| | 3 | 3 | 4 | 1 | 3 | 6 | 8 | 2 | 8 | 3 | 3 | 3 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 |
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | * |

*TOTALS

Alimentary System

| | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|-------|
| Liver | + | + | + | + | + | + | + | + | + | + | + | 11 |
| Inflammation, Chronic | | | | | | | | | | 1 | | 1 1.0 |

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

| | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|----|
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | 11 |
| Lymph Node, Mesenteric | + | + | M | + | + | + | + | + | + | + | M | 9 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | 11 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | 11 |

Integumentary System

NONE

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

X ..Lesion present

A ..Autolysis precludes evaluation

I ..Insufficient tissue

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

- 1) Minimal 3) Moderate
- 2) Mild 4) Marked

Experiment Number: 89029-03

Test Type: 150-DAY

Route: MAGNETIC FIELDS

Species/Strain: Mouse/PIM

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/20/2014

Time Report Requested: 19:54:13

First Dose M/F: NA / NA

Lab: IIT

**PIM Mouse Male
0.02 GAUSS**

| DAY ON TEST | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | | |
| 6 | 6 | 9 | 9 | 6 | 2 | 1 | 1 | 9 | 6 | 6 | | |
| 3 | 3 | 4 | 1 | 3 | 6 | 8 | 2 | 8 | 3 | 3 | | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | |
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |

*TOTALS

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

Lung

+ + + + + + + + + + + 11

Hemorrhage

3 1 2 3 2.0

Perivascular, Inflammation, Chronic

2 2 2 2.0

Special Senses System

NONE

Urinary System

| | |
|-----------------------|--------------------------|
| Kidney | + + + + + + + + + + + 11 |
| Hydronephrosis | 2 1 2 1.5 |
| Inflammation, Chronic | 1 1 2 1.0 |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

X ..Lesion present

A ..Autolysis precludes evaluation

I ..Insufficient tissue

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

- 1) Minimal 3) Moderate
- 2) Mild 4) Marked

Experiment Number: 89029-03
Test Type: 150-DAY
Route: MAGNETIC FIELDS
Species/Strain: Mouse/PIM

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/20/2014
Time Report Requested: 19:54:13
First Dose M/F: NA / NA
Lab: IIT

| PIM Mouse Male
SHAM CONTROL | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 6 | 6 | 6 | 6 | 6 | 6 | 1 | 6 | 0 | 6 | 6 |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 3 | 3 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 |
| | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

*TOTALS

Alimentary System

| | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|-----|
| Liver | + | + | + | + | + | + | + | + | + | + | 10 |
| Inflammation, Chronic | | | | | 1 | | 1 | 1 | | | 3 |
| | | | | | | | | | | | 1.0 |

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

| | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|----|
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | 10 |
| Hyperplasia | | | | | 3 | | | 3 | | | 2 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | M | + | + | + | 9 |
| Hyperplasia | | | | | 2 | | | | | | 1 |
| Spleen | + | + | + | + | + | + | + | + | + | + | 10 |
| Lymph Follic, Hyperplasia | | | | 2 | | | | | | | 1 |
| Thymus | + | + | + | + | + | + | + | + | + | + | 10 |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

X ..Lesion present

A ..Autolysis precludes evaluation

I ..Insufficient tissue

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

- 1) Minimal 3) Moderate
- 2) Mild 4) Marked

Experiment Number: 89029-03

Test Type: 150-DAY

Route: MAGNETIC FIELDS

Species/Strain: Mouse/PIM

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/20/2014

Time Report Requested: 19:54:13

First Dose M/F: NA / NA

Lab: IIT

PIM Mouse Male
SHAM CONTROL

| DAY ON TEST | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 1 | 6 | 0 | 6 | | |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 3 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 |
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |

*TOTALS

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

Lung

+ + + + + + + + + + 10

1 2.0

Congestion

2

Hemorrhage

3

1

2 2.0

Interstitial, Inflammation, Chronic

2

1 2.0

Perivascular, Inflammation, Chronic

2 2 2 2

4 2.0

Special Senses System

NONE

Urinary System

Kidney

+ + + + + + + + + + 10

5 1.8

Inflammation, Chronic

2 1 3 2 1

END OF MALE DATA

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

X ..Lesion present

A ..Autolysis precludes evaluation

I ..Insufficient tissue

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

- 1) Minimal 3) Moderate
- 2) Mild 4) Marked

Experiment Number: 89029-03

Test Type: 150-DAY

Route: MAGNETIC FIELDS

Species/Strain: Mouse/PIM

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/20/2014

Time Report Requested: 19:54:13

First Dose M/F: NA / NA

Lab: IIT

**PIM Mouse Female
10 GAUSS**

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | |
|-------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | 0 0 1 1 1 1 0 1 0 1 0 1 0 1 1 0 1 1 1 1 1 | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 8 9 6 6 2 6 6 9 2 9 1 9 6 4 7 6 6 6 6 6 6 | | | | | | | | | | | | | | | | | |
| | 9 7 2 2 1 2 2 6 4 6 1 9 2 8 8 2 2 2 2 2 2 | | | | | | | | | | | | | | | | | |
| | 0 | | | | | | | | | | | | | | | | | |
| | 0 | | | | | | | | | | | | | | | | | |
| | 2 | | | | | | | | | | | | | | | | | |
| | 7 7 7 7 7 7 7 7 7 8 8 8 8 8 8 8 8 8 8 8 8 | | | | | | | | | | | | | | | | | |
| | 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 | | | | | | | | | | | | | | | | | |

TOTALS*Alimentary System**

| | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | 6 1.0 |

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

| | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 |
| Hyperplasia | | | | | 2 | 1 | | | | | | | | | | | | 7 2.4 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 |
| Hyperplasia | | | | | | | | | | | | | | | | | | 1 3 1 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | 1 | 1 1.0 |
| Lymph Follic, Hyperplasia | | | | | | | | | | | | | | | | | 2 | 1 2.0 |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

X ..Lesion present

A ..Autolysis precludes evaluation

I ..Insufficient tissue

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

- 1) Minimal 3) Moderate
- 2) Mild 4) Marked

Experiment Number: 89029-03

Test Type: 150-DAY

Route: MAGNETIC FIELDS

Species/Strain: Mouse/PIM

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/20/2014

Time Report Requested: 19:54:13

First Dose M/F: NA / NA

Lab: IIT

**PIM Mouse Female
10 GAUSS**

| DAY ON TEST | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | | | | | | | | | | | | | | | | | | 9 |

***TOTALS**

| | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Thymus | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | 18 |
| Hyperplasia | | | | | | | | | | | | | | | | | | 2 |
| | | | | | | | | | | | | | | | | | | 1 2.0 |

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

Lung

+ 19

Hemorrhage

4 1 2 1 2 3 2 2 3 6 2.2

Perivascular, Inflammation, Chronic

2 3 2 2 3 4 3 7 2.7

Special Senses System

NONE

Urinary System

Kidney

+ 19

Inflammation, Chronic

2 2 2 2 1 3 1 6 1.8

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

1-4 ..Lesion qualified as:

X ..Lesion present

A ..Autolysis precludes evaluation

1) Minimal 3) Moderate

I ..Insufficient tissue

BLANK ..Not examined microscopically

2) Mild 4) Marked

Experiment Number: 89029-03
 Test Type: 150-DAY
 Route: MAGNETIC FIELDS
 Species/Strain: Mouse/PIM

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/20/2014
 Time Report Requested: 19:54:13
 First Dose M/F: NA / NA
 Lab: IIT

PIM Mouse Female
10 GAUSSINTER

| DAY ON TEST | PIM Mouse Female | | | | | | | | | | | | | | | | | |
|-------------|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 10 GAUSSINTER | | | | | | | | | | | | | | | | | |
| | MAGNETIC | | | | | | | | | | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |
| 0 | 2 | 6 | 3 | 6 | 3 | 6 | 8 | 6 | 5 | 9 | 6 | 6 | 5 | 6 | 6 | 6 | 6 | 9 |
| 1 | 0 | 2 | 6 | 2 | 6 | 2 | 3 | 2 | 3 | 0 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 4 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

*TOTALS

Alimentary System

| | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | 6 1.3 |
| | 1 | | | | | | | | | | | | | | | | | |
| | | 1 | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

| | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 |
| Hyperplasia | | | | | | | | | | | | | | | | | | 7 2.4 |
| | 3 | | | | | | | | | | | | | | | | | |
| | | 3 | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | 18 |
| Hyperplasia | | | | | | | | | | | | | | | | | | 3 1.3 |
| | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | 1 2.0 |
| | | | | | | | | | | | | | | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 |
| | | | | | | | | | | | | | | | | | | |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

X ..Lesion present

A ..Autolysis precludes evaluation

I ..Insufficient tissue

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

- 1) Minimal 3) Moderate
- 2) Mild 4) Marked

Experiment Number: 89029-03
Test Type: 150-DAY
Route: MAGNETIC FIELDS
Species/Strain: Mouse/PIM

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/20/2014
Time Report Requested: 19:54:13
First Dose M/F: NA / NA
Lab: IIT

PIM Mouse Female
10 GAUSSINTER

| DAY ON TEST | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |
| 2 | 6 | 3 | 6 | 3 | 6 | 8 | 6 | 5 | 9 | 6 | 6 | 5 | 6 | 6 | 6 | 6 | 6 | 9 |
| 0 | 2 | 6 | 2 | 6 | 2 | 3 | 2 | 3 | 0 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 4 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

*TOTALS

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

Lung

+ + + + + + + + + + + + + + + + + + + 19

Hemorrhage

3

1 3.0

Perivascular, Inflammation, Chronic

3 3 4 3 2 3 2 1 2 3 10 2.6

Special Senses System

NONE

Urinary System

Kidney

+ + + + + + + + + + + + + + + + + + + 19

Inflammation, Chronic

1 3 1 1 1 2 1 1 7 1.4

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

1-4 ..Lesion qualified as:

X ..Lesion present

A ..Autolysis precludes evaluation

1) Minimal 3) Moderate

I ..Insufficient tissue

BLANK ..Not examined microscopically

2) Mild 4) Marked

Experiment Number: 89029-03
 Test Type: 150-DAY
 Route: MAGNETIC FIELDS
 Species/Strain: Mouse/PIM

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/20/2014
 Time Report Requested: 19:54:13
 First Dose M/F: NA / NA
 Lab: IIT

PIM Mouse Female
2 GAUSS

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 1 1 1 1 1 1 1 1 1 0 0 1 1 1 1 0 0 1 1 | | | | | | | | | | | | | | | | | |
| | 6 6 6 6 6 6 0 6 2 6 9 9 2 6 6 6 9 6 6 6 | | | | | | | | | | | | | | | | | |
| | 2 2 2 2 2 2 6 2 8 2 0 0 4 2 2 2 3 2 2 2 | | | | | | | | | | | | | | | | | |
| | 0 | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | | | | | | | | | | | | | | | | | | 9 |

*TOTALS

Alimentary System

| | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 |
| Inflammation, Chronic | | 2 | 1 | 3 | 1 | | | | | | | | | | | | | 6 1.5 |
| Necrosis | | | | | | 1 | | | | | | | | | | | | 1 1.0 |

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

| | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 |
| Hyperplasia | | 4 | 3 | 4 | 2 | | | | 2 | | | 3 | 2 | | | | | 8 3.0 |
| Lymph Node, Mesenteric | M | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | 17 |
| Hyperplasia | | | | | | 1 | | | | | | | 2 | | | | | 2 1.5 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

1-4 ..Lesion qualified as:

X ..Lesion present

A ..Autolysis precludes evaluation

1) Minimal 3) Moderate

I ..Insufficient tissue

BLANK ..Not examined microscopically

2) Mild 4) Marked

Experiment Number: 89029-03

Test Type: 150-DAY

Route: MAGNETIC FIELDS

Species/Strain: Mouse/PIM

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/20/2014

Time Report Requested: 19:54:14

First Dose M/F: NA / NA

Lab: IIT

**PIM Mouse Female
2 GAUSS**

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 1 |
| | 6 | 6 | 6 | 6 | 6 | 6 | 0 | 6 | 2 | 6 | 9 | 9 | 2 | 6 | 6 | 6 | 9 | 6 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 6 | 2 | 8 | 2 | 0 | 0 | 4 | 2 | 2 | 2 | 3 | 2 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

***TOTALS**

1 3.0

1 1.0

Atrophy 3

Hyperplasia 1

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

Lung + + + + + + + + + + + + + + + + + + 19

Hemorrhage 3 2 2.5

Perivascular, Inflammation, Chronic 1 2 1 3 2 2 1 2 1 9 1.7

Special Senses System

NONE

Urinary System

Kidney + + + + + + + + + + + + + + + + + + 19

Inflammation, Chronic 2 1 1 3 1 2 2 3 2 9 1.9

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

1-4 ..Lesion qualified as:

X ..Lesion present

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1) Minimal 3) Moderate

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First Dose M/F: NA / NA

Lab: IIT

**PIM Mouse Female
0.02 GAUSS**

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 9 | 6 | 6 | 6 | 4 | 8 | 6 | 6 | 4 | 6 | 1 | 2 | 6 | 6 | 0 | 6 | 1 | 6 |
| | 1 | 2 | 2 | 2 | 3 | 6 | 2 | 2 | 3 | 2 | 6 | 2 | 2 | 2 | 0 | 2 | 3 | 2 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | 2 | 3 | | | 2 | 2 | 1 | | | 2 | 1 | | | | | 1 | | |

TOTALS*Alimentary System**

| | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | 2 | 2.0 | |
| Inflammation, Chronic | | 2 | 3 | | | | 2 | 2 | 1 | | | 2 | 1 | | | | | 1 | 8 | 1.8 |
| Necrosis | | | | | | | | | | | | | | | | | | 1 | 1 | 1.0 |
| | | | | | | | | | | | | | | | | | | | | |

Cardiovascular System

NONE

Endocrine System

Thyroid Gland

+ 1

General Body System

NONE

Genital System

NONE

Hematopoietic System

| | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Lymph Node, Mandibular | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | 18 | |
| Hyperplasia | | | | | | | | 1 | | 3 | 2 | | | 3 | 3 | 4 | | 6 | 2.7 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | M | + | + | M | + | + | + | + | + | 17 | |
| Hyperplasia | | | | | | | | 2 | 2 | | | | | 2 | 1 | | | 4 | 1.8 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 | |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

X ..Lesion present

A ..Autolysis precludes evaluation

I ..Insufficient tissue

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 Test Compound: Magnetic fields (EMF)
 CAS Number: MAGNETIC

Date Report Requested: 10/20/2014
 Time Report Requested: 19:54:14
 First Dose M/F: NA / NA
 Lab: IIT

| PIM Mouse Female
0.02 GAUSS | DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|-------|
| | | 0 1 1 1 0 0 1 1 0 1 1 0 1 1 1 1 1 1 1 1 1 | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 9 6 6 6 4 8 6 6 4 6 1 2 6 6 0 6 1 6 6 6 6 | | | | | | | | | | | | | | | | | | | |
| | 1 2 2 2 3 6 2 2 3 2 6 2 2 2 0 2 3 2 2 2 2 | | | | | | | | | | | | | | | | | | | |
| Atrophy | 3 | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Hematopoietic Cell Proliferation | 1 | 1 | 3 | | | | | | | | | | | | | | | | | 3 1.7 |
| Lymph Follic, Hyperplasia | 1 | | | | | | | | | | | | | | | | | | 3 2.3 | |
| Thymus | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | M | + | 17 |
| Integumentary System | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | |
| Musculoskeletal System | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | |
| Nervous System | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | |
| Respiratory System | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 |
| Hemorrhage | 4 | 1 | | | | | | | | | | | | | | | | | | 2 2.5 |
| Perivascular, Inflammation, Chronic | 3 | | | | | | | | | | | | | | | | | | 9 2.2 | |
| Serosa, Inflammation, Chronic | 2 | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Special Senses System | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | |
| Urinary System | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

X ..Lesion present

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Time Report Requested: 19:54:14

First Dose M/F: NA / NA

Lab: IIT

**PIM Mouse Female
0.02 GAUSS**

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | 0 1 1 1 0 0 1 1 0 1 1 0 1 1 1 1 1 1 1 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 6 6 6 4 8 6 6 4 6 1 2 6 6 0 6 1 6 6 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 2 2 2 3 6 2 2 3 2 6 2 2 2 0 2 3 2 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 8 8 8 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 9 | 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 | 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *TOTALS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hydronephrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 1 3 2 2 2 2 1 3 2 2 2 2 2 1 3 1 3 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 1 3 2 2 2 2 1 3 2 2 2 2 2 1 3 1 3 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 4.0 8 2.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

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 Lab: IIT

PIM Mouse Female
SHAM CONTROL

| DAY ON TEST | PIM Mouse Female | | | | | | | | | | | | | | | | | |
|-------------|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 3 | 3 | 9 | 6 | 6 | 6 | 6 | 6 | 6 | 9 | 2 | 2 | 6 | 6 | 6 | 6 | 2 | 6 |
| | 2 | 8 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 0 | 3 | 5 | 2 | 2 | 2 | 2 | 0 | 2 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | | | | | | | | | | | | | | | | | | 9 |

*TOTALS

Alimentary System

| | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | 4 | 1.5 |
| Necrosis | | | | | | | | | | | | | | | | | | 1 | 1.0 |

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

| | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | 7 | 3.1 |
| Lymph Node, Mesenteric | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | M | 17 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | 4 | 2.5 |
| Spleen | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 18 | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | 3 | 1.3 |
| | | | | | | | | | | | | | | | | | | | |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

X ..Lesion present

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 First Dose M/F: NA / NA
 Lab: IIT

PIM Mouse Female
SHAM CONTROL

| DAY ON TEST | PIM Mouse Female | | | | | | | | | | | | | | | | | |
|-------------|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 3 | 3 | 9 | 6 | 6 | 6 | 6 | 6 | 6 | 9 | 2 | 2 | 6 | 6 | 6 | 6 | 2 | 6 |
| | 2 | 8 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 0 | 3 | 5 | 2 | 2 | 2 | 2 | 0 | 2 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

*TOTALS

| | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Infiltration Cellular, Mast Cell | | | | | | | | | | | | | | | | | 3 | 1 3.0 |
| Lymph Follic, Hyperplasia | | | | | | | | | | | | | | | | | 2 | 1 2.0 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | 18 |
| Hyperplasia | | | | | | | | | | | | | | | | | 2 | 2 2.0 |
| | | | | | | | | | | | | | | | | | | |

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

| | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Lung | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 18 |
| Hemorrhage | 1 | 2 | | | | | | | | | | | | | | | | 3 2.0 |
| Interstitial, Inflammation, Chronic | | | | | | | | | | | | | | | | | 2 | 1.5 |
| Perivascular, Inflammation, Chronic | | | | | | | | | | | | | | | | | 8 | 2.1 |
| | | | | | | | | | | | | | | | | | | |

Special Senses System

NONE

Urinary System

| | | | | | | | | | | | | | | | | | | |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 19 |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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M ..Missing tissue

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Lab: IIT

**PIM Mouse Female
SHAM CONTROL**

| DAY ON TEST | PIM Mouse Female | | | | | | | | | | | | | | | | | |
|-------------|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 3 | 3 | 9 | 6 | 6 | 6 | 6 | 6 | 6 | 9 | 2 | 2 | 6 | 6 | 6 | 6 | 2 | 6 |
| | 2 | 8 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 0 | 3 | 5 | 2 | 2 | 2 | 2 | 0 | 2 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

*TOTALS

| | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|--|--|--|--|--|--|--|--|--|---|---|---|---------|
| Hydronephrosis | | | | | | | | | | | | | | | | 2 | | 1 2.0 |
| Infarct | | | | | | | | | | | | | | | | 2 | | 1 2.0 |
| Inflammation, Chronic | 2 | 3 | 1 | 1 | 4 | | | | | | | | | | 3 | 1 | 4 | 1 2 2.2 |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

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First Dose M/F: NA / NA
Lab: IIT

PIM Mouse Female
10 GAUSS

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------|----------------|---|---|---|---|---|---|---|---|---|---|
| | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 9 | 6 | 6 | 6 | 0 | 6 | 2 | 6 | 6 | 6 | 6 |
| | 2 | 2 | 2 | 2 | 3 | 2 | 0 | 2 | 2 | 2 | 2 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | *TOTALS | | | | | | | | | | |

Alimentary System

Liver

+ + + + + + + + + + + + 11

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

| | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|-----|----|
| Lymph Node, Mandibular | + | + | + | + | A | + | + | + | + | + | + | 10 |
| Hyperplasia | 4 | 1 | 2 | | | 2 | | 3 | | 5 | 2.4 | |
| Lymph Node, Mesenteric | + | + | + | + | A | + | + | + | M | + | + | 9 |
| Hyperplasia | | | | | | | | 2 | | 1 | 2.0 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | 11 |
| Lymph Follic, Hyperplasia | | | | | 2 | | | | | 1 | 2.0 | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | 11 |
| Hyperplasia | | | | | 3 | | | | | 1 | 3.0 | |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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I ..Insufficient tissue

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

- 1) Minimal 3) Moderate
- 2) Mild 4) Marked

Experiment Number: 89029-03

Test Type: 150-DAY

Route: MAGNETIC FIELDS

Species/Strain: Mouse/PIM

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/20/2014

Time Report Requested: 19:54:14

First Dose M/F: NA / NA

Lab: IIT

**PIM Mouse Female
10 GAUSS**

| DAY ON TEST | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 9 | 6 | 6 | 6 | 0 | 6 | 2 | 6 | 6 | 6 | 6 | 6 |
| | 2 | 2 | 2 | 2 | 3 | 2 | 0 | 2 | 2 | 2 | 2 | 2 |

*TOTALS

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

Lung

+

+

+

+

A

+

+

+

+

+

+

+

10

Hemorrhage

3

1

2 2.0

Perivascular, Inflammation, Chronic

2 2

2

3

3

5 2.4

Special Senses System

NONE

Urinary System

Kidney

+

+

+

+

A

+

+

+

+

+

+

+

10

Inflammation, Chronic

3

3

1

3 2.3

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

X ..Lesion present

A ..Autolysis precludes evaluation

I ..Insufficient tissue

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

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First Dose M/F: NA / NA

Lab: IIT

**PIM Mouse Female
10 GAUSSINTER**

| DAY ON TEST | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 |
| 6 | 6 | 6 | 6 | 6 | 3 | 9 | 9 | 6 | 6 | 6 | 9 | 9 |
| 2 | 2 | 2 | 2 | 2 | 2 | 9 | 8 | 2 | 2 | 2 | 3 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 |
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 |

*TOTALS

Alimentary System

| | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|-----|
| Liver | + | + | + | + | + | + | + | + | + | + | + | 11 |
| Fatty Change | | | | | | | | | | | | 3 |
| Inflammation, Chronic | | | | | 1 | | | | | | | 1 |
| Necrosis | | | | | | | 2 | | | | | 1 |
| | | | | | | | | | | | | 2.0 |

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

| | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|----|
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | 11 |
| Hyperplasia | | 1 | 1 | 2 | | | | | | | | 3 |
| Lymph Node, Mesenteric | + | + | + | M | + | + | + | + | + | + | + | 10 |
| Hyperplasia | | 1 | 1 | | | | | | | | | 2 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | 11 |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

X ..Lesion present

A ..Autolysis precludes evaluation

I ..Insufficient tissue

BLANK ..Not examined microscopically

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Experiment Number: 89029-03

Test Type: 150-DAY

Route: MAGNETIC FIELDS

Species/Strain: Mouse/PIM

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/20/2014

Time Report Requested: 19:54:15

First Dose M/F: NA / NA

Lab: IIT

**PIM Mouse Female
10 GAUSSINTER**

| DAY ON TEST | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | | |
| 6 | 6 | 6 | 6 | 3 | 9 | 9 | 6 | 6 | 6 | 9 | | |
| 2 | 2 | 2 | 2 | 2 | 9 | 8 | 2 | 2 | 2 | 3 | | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |

*TOTALS

Thymus

+ + + + + + + + + + + + 11

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

| | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|-------|
| Lung | + | + | + | + | + | + | + | + | + | + | + | 11 |
| Hemorrhage | | | | | | | 1 | 3 | | | | 2 2.0 |
| Perivascular, Inflammation, Chronic | 3 | 2 | 2 | 4 | | | 1 | | 2 | | | 6 2.3 |

Special Senses System

NONE

Urinary System

| | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|-------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | 11 |
| Amyloid Deposition | | | | | | | 3 | | | | | 1 3.0 |
| Inflammation, Chronic | 1 | 2 | | | | | 2 | | | | | 3 1.7 |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

X ..Lesion present

A ..Autolysis precludes evaluation

I ..Insufficient tissue

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

- 1) Minimal 3) Moderate
- 2) Mild 4) Marked

Experiment Number: 89029-03

Test Type: 150-DAY

Route: MAGNETIC FIELDS

Species/Strain: Mouse/PIM

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/20/2014

Time Report Requested: 19:54:15

First Dose M/F: NA / NA

Lab: IIT

**PIM Mouse Female
2 GAUSS**

| DAY ON TEST | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 0 | 6 | 6 | 6 | 6 | 8 | 6 | 6 | 6 | 6 | 6 | 6 |
| 0 | 7 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |

*TOTALS

Alimentary System

| | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|-----|
| Liver | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Inflammation, Chronic | | | | | | 3 | | | | | | 1 |
| | | | | | | | | | | | | 3.0 |

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

| | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|----|
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Hyperplasia | | | | | 2 | | | 4 | | | | 2 |
| Lymph Node, Mesenteric | + | + | + | M | + | + | + | + | + | + | + | 9 |
| Hyperplasia | | | | 1 | | | 1 | 1 | | | | 3 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Hematopoietic Cell Proliferation | | | | 2 | | | | | | | | 1 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | 10 |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

X ..Lesion present

A ..Autolysis precludes evaluation

I ..Insufficient tissue

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

- 1) Minimal 3) Moderate
- 2) Mild 4) Marked

Experiment Number: 89029-03

Test Type: 150-DAY

Route: MAGNETIC FIELDS

Species/Strain: Mouse/PIM

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/20/2014

Time Report Requested: 19:54:15

First Dose M/F: NA / NA

Lab: IIT

**PIM Mouse Female
2 GAUSS**

| DAY ON TEST | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 0 | 6 | 6 | 6 | 6 | 8 | 6 | 6 | 6 | 6 | 6 | 6 |
| 0 | 7 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |

*TOTALS

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

Lung

+

+

+

+

+

+

+

+

+

+

+

10

Hemorrhage

1

2

2

1.5

Perivascular, Inflammation, Chronic

1

1

2

1

2

4

6

1.8

Special Senses System

NONE

Urinary System

Kidney

+

+

+

+

+

+

+

+

+

+

10

Inflammation, Chronic

1

1

3

2

4

1.8

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

X ..Lesion present

A ..Autolysis precludes evaluation

I ..Insufficient tissue

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 89029-03

Test Type: 150-DAY

Route: MAGNETIC FIELDS

Species/Strain: Mouse/PIM

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/20/2014

Time Report Requested: 19:54:15

First Dose M/F: NA / NA

Lab: IIT

**PIM Mouse Female
0.02 GAUSS**

| DAY ON TEST | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 6 | 6 | 9 | 4 | 6 | 4 | 6 | 6 | 6 | 6 | 3 | 6 | 6 |
| 2 | 2 | 0 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 8 | 2 | 2 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 |

*TOTALS

Alimentary System

| | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|-------|
| Liver | + | + | + | + | + | + | + | + | + | + | + | 11 |
| Inflammation, Chronic | | | | | | | | 1 | 1 | | | 2 1.0 |

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

| | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|-------|
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | 11 |
| Hyperplasia | 3 | 3 | | | 4 | | 3 | 3 | 3 | | | 6 3.2 |
| Lymph Node, Mesenteric | + | M | + | + | + | + | + | + | + | M | + | 9 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | 11 |
| Hematopoietic Cell Proliferation | | | | 1 | | | | 1 | | | | 2 1.0 |
| Lymph Follic, Hyperplasia | | | | | | 2 | | | | | | 1 2.0 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | 11 |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

X ..Lesion present

A ..Autolysis precludes evaluation

I ..Insufficient tissue

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

- 1) Minimal 3) Moderate
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Experiment Number: 89029-03

Test Type: 150-DAY

Route: MAGNETIC FIELDS

Species/Strain: Mouse/PIM

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/20/2014

Time Report Requested: 19:54:15

First Dose M/F: NA / NA

Lab: IIT

**PIM Mouse Female
0.02 GAUSS**

| DAY ON TEST | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 6 | 6 | 9 | 4 | 6 | 4 | 6 | 6 | 6 | 6 | 3 | 6 | 6 |
| 2 | 2 | 0 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 8 | 2 | 2 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 |

*TOTALS

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

Lung

+ + + + + + + + + + + 11

Hemorrhage

4 1 3 1

4 2.3

Perivascular, Inflammation, Chronic

1 3 2 2 2 2 5 2.0

Thrombosis

2 1 2.0

Special Senses System

NONE

Urinary System

Kidney

+ + + + + + + + + + + 11

Hydronephrosis

3 1 3.0

Inflammation, Chronic

3 2 2 1 4 1 6 2.2

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

X ..Lesion present

A ..Autolysis precludes evaluation

I ..Insufficient tissue

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

- 1) Minimal 3) Moderate
- 2) Mild 4) Marked

Experiment Number: 89029-03
Test Type: 150-DAY
Route: MAGNETIC FIELDS
Species/Strain: Mouse/PIM

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Test Compound: Magnetic fields (EMF)
CAS Number: MAGNETIC

Date Report Requested: 10/20/2014
Time Report Requested: 19:54:15
First Dose M/F: NA / NA
Lab: IIT

| PIM Mouse Female | SHAM CONTROL | DAY ON TEST | 0 0 0 0 0 0 0 0 0 0 0 0 | | | | | | | | | | | | | | | | |
|-------------------------|---------------------|-------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|---------|--|--|--|--|--|--|--|--|--|--|--|
| | | | 1 1 1 1 0 1 1 1 1 0 1 | 6 1 6 6 9 6 6 6 6 8 6 | 2 4 2 2 7 2 2 2 2 2 2 | | | | | | | | | | | | | | |
| | | ANIMAL ID | 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 | 1 1 1 1 1 1 1 1 1 1 1 1 | 7 7 7 7 7 7 7 7 7 7 7 8 | 0 1 2 3 4 5 6 7 8 9 0 0 | *TOTALS | | | | | | | | | | | |

Alimentary System

| | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|--|
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | 11 | | | |
| Inflammation, Chronic | | | | | | | | | 1 | 1 | | | | 2 | 1.0 | |

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

| | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|--|--|
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | 11 | | | |
| Hyperplasia | 3 | 2 | | | 4 | 2 | | | | 2 | | | 5 | 2.6 | | |
| Lymph Node, Mesenteric | + | + | + | + | M | + | + | + | + | + | M | | 9 | | | |
| Hyperplasia | 2 | | | | | 1 | 3 | | | | | | 3 | 2.0 | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | 11 | | | |
| Atrophy | | | | | 3 | | | | | | | | 1 | 3.0 | | |
| Hematopoietic Cell Proliferation | | 1 | | | | | | | | | | | 1 | 1.0 | | |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

X ..Lesion present

A ..Autolysis precludes evaluation

I ..Insufficient tissue

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

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Experiment Number: 89029-03

Test Type: 150-DAY

Route: MAGNETIC FIELDS

Species/Strain: Mouse/PIM

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Magnetic fields (EMF)

CAS Number: MAGNETIC

Date Report Requested: 10/20/2014

Time Report Requested: 19:54:15

First Dose M/F: NA / NA

Lab: IIT

**PIM Mouse Female
SHAM CONTROL**

| DAY ON TEST | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | |
| 6 | 1 | 6 | 6 | 9 | 6 | 6 | 6 | 6 | 8 | 6 | | |
| 2 | 2 | 4 | 2 | 2 | 7 | 2 | 2 | 2 | 2 | 2 | 2 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | |
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |

*TOTALS

| | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|-----|---|----|
| Lymph Follic, Hyperplasia | 3 | | | | 2 | 3 | | 3 | 2.7 | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | 11 |

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

Lung

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|----|
| + | + | + | + | + | + | + | + | + | + | + | 11 |
|---|---|---|---|---|---|---|---|---|---|---|----|

Hemorrhage

| | | | | | | | | | | | | |
|--|---|--|--|--|--|--|--|--|---|--|---|-----|
| | 1 | | | | | | | | 1 | | 2 | 1.0 |
|--|---|--|--|--|--|--|--|--|---|--|---|-----|

Perivascular, Inflammation, Chronic

| | | | | | | | | | | | |
|---|--|--|---|---|--|---|--|---|--|---|-----|
| 3 | | | 2 | 1 | | 1 | | 3 | | 5 | 2.0 |
|---|--|--|---|---|--|---|--|---|--|---|-----|

Special Senses System

NONE

Urinary System

Kidney

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|----|
| + | + | + | + | + | + | + | + | + | + | + | 11 |
|---|---|---|---|---|---|---|---|---|---|---|----|

Inflammation, Chronic

| | | | | | | | | | | | |
|--|---|--|---|--|---|---|--|---|--|---|-----|
| | 4 | | 1 | | 2 | 3 | | 1 | | 5 | 2.2 |
|--|---|--|---|--|---|---|--|---|--|---|-----|

** END OF REPORT **

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

X ..Lesion present

A ..Autolysis precludes evaluation

I ..Insufficient tissue

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

- 1) Minimal 3) Moderate
- 2) Mild 4) Marked