

Experiment Number: 20108-05
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Mouse/C57BL/6

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Test Compound: Antioxidant model (TRAMP) - N-acetylcysteine
CAS Number: 616-91-1

Date Report Requested: 10/17/2014
Time Report Requested: 16:19:50
First Dose M/F: NA / NA
Lab: ILS

| | |
|-----------------------------|--------------|
| C Number: | C20108C |
| Lock Date: | Not Entered. |
| Cage Range: | All |
| Date Range: | All |
| Reasons For Removal: | All |
| Removal Date Range: | All |
| Treatment Groups: | All |
| Study Gender: | Male |
| PWG Approval Date | NONE |

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| C57BL/6 Mouse Male VEHICLE CONTROL | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *TOTALS |
|---------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---------|
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 8 | 8 | 3 | 8 | 8 | 5 | 8 | 8 | 3 | 8 | 5 | 8 | |
| | 6 | 6 | 2 | 8 | 5 | 7 | 5 | 6 | 2 | 5 | 8 | 8 | |
| | 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 | |
| | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | |
| | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |

Alimentary System

| | | | | | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | 12 |
| Inflammation, Focal | | | 1 | | | 1 | | | | 1 | 1 | 1 | 5 1.0 |
| Necrosis, Focal | | | | | | 1 | | | | | | | 1 1.0 |

Cardiovascular System

NONE

Endocrine System

| | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pituitary Gland | M | M | M | M | + | + | + | + | + | + | + | + | 8 |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|

General Body System

NONE

Genital System

| | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Epididymis | M | + | + | + | + | M | + | + | + | + | + | + | 10 |
| Prostate, Anterior Lobe | + | + | + | + | + | + | + | + | + | + | + | + | 12 |
| Hyperplasia, Grade 2, Focal | | | | | | | X | | | | | | 1 |
| Prostate, Dorsal Lobe | + | + | + | + | + | + | + | + | + | + | + | + | 12 |
| Prostate, Lateral Lobe | M | + | + | + | + | + | + | + | + | + | + | + | 11 |
| Prostate, Ventral Lobe | + | + | + | + | + | + | + | + | + | + | + | + | 12 |
| Hyperplasia, Grade 1, Focal | | | | | | | | X | | | | | 1 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | 12 |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | 12 |

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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| | | | | | | | | | | | | | | |
|---|-------------|---|---|---|---|---|---|---|---|---|---|----------------|--|---|
| C57BL/6 Mouse Male VEHICLE CONTROL | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 8 | 8 | 3 | 8 | 8 | 5 | 8 | 8 | 3 | 8 | 5 | | 8 |
| | | 6 | 6 | 2 | 8 | 5 | 7 | 5 | 6 | 2 | 5 | 8 | | 8 |
| | 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 | | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | | |
| | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |
| | | | | | | | | | | | | *TOTALS | | |

Hematopoietic System

Spleen + + + + + + + + + + + 12

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

Kidney + + + + + + + + + + + 12

Renal Tubule, Casts Protein 1 1 1.0

Urinary Bladder + + + + + M + + + + + 11

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| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C57BL/6 Mouse Male | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NAC 125MG/KG | 8 | 8 | 8 | 3 | 8 | 1 | 3 | 8 | 8 | 3 | 8 | 8 | 8 | 3 | 8 | 5 | 8 | 6 | 7 | 7 | 9 | 7 | 3 | 5 | 3 | 8 | 8 | 8 | 8 | 5 | 5 | 8 | |
| 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 | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | |
| | 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 | 5 | |

Alimentary System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation, Focal | | | | | 1 | | 1 | | | | 1 | 1 | | | | 1 | | 1 | 1 | 1 | | | 1 | | | | | | | | | | |
| Tension Lipidosis | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | |

Cardiovascular System

NONE

Endocrine System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pituitary Gland | M | + | + | + | + | M | + | M | + | M | + | + | + | M | + | M | + | M | + | + | M | M | + | + | + | + | + | + | + | M | M | + |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

General Body System

NONE

Genital System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Granuloma Sperm | | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prostate, Anterior Lobe | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia, Grade 1, Focal | | X | X | X | | | X | | | X | X | X | X | | X | X | X | X | X | X | X | X | X | | X | X | | X | X | | X | X | |
| Prostate, Dorsal Lobe | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia, Grade 1, Focal | | X | | | | | | | | X | | | | | | | | | | X | | | | | | | | | | | | | |
| Prostate, Lateral Lobe | + | M | + | + | + | M | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + |
| Inflammation, Focal | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | |
| Prostate, Ventral Lobe | + | M | M | + | + | M | + | + | M | + | M | M | + | + | M | + | M | + | M | + | M | + | + | + | + | + | + | + | + | + | M | + | + |

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

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

| C57BL/6 Mouse Male NAC 125MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Germinal Epith, Vacuolization Cytoplasmic, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Seminif Tub, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Integumentary System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Musculoskeletal System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nervous System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Special Senses System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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 X ..Lesion present
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| C57BL/6 Mouse Male NAC 125MG/KG | DAY ON TEST | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | 0088 | 0087 | 0082 | 0085 | 0081 | 0083 | 0088 | 0087 | 0082 | 0085 | 0081 | 0083 | 0088 | 0087 | 0082 | 0085 | 0081 | 0083 | 0088 | 0087 | 0082 | 0085 | 0081 | 0083 | 0088 | 0087 | 0082 | 0085 | 0081 | 0083 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kidney | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hydronephrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Medulla, Renal Tubule, Dilatation, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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| | | | |
|--|-------------|---|---------|
| C57BL/6 Mouse Male NAC 125MG/KG | DAY ON TEST | 0 | *TOTALS |
| | | 0 | |
| | | 8 | |
| | | 5 | |
| | ANIMAL ID | 0 | |
| | | 0 | |
| | 2 | | |
| | 5 | | |
| | 6 | | |

Alimentary System

| | | | |
|---------------------|---|----|-----|
| Liver | + | 32 | |
| Inflammation, Focal | 1 | 11 | 1.0 |
| Tension Lipidosis | | 2 | 2.0 |

Cardiovascular System

NONE

Endocrine System

| | | | |
|-----------------|---|----|--|
| Pituitary Gland | + | 21 | |
|-----------------|---|----|--|

General Body System

NONE

Genital System

| | | | |
|-----------------------------|---|----|-----|
| Epididymis | + | 32 | |
| Granuloma Sperm | | 1 | 4.0 |
| Prostate, Anterior Lobe | + | 32 | |
| Hyperplasia, Grade 1, Focal | X | 23 | |
| Prostate, Dorsal Lobe | + | 31 | |
| Hyperplasia, Grade 1, Focal | | 3 | |
| Prostate, Lateral Lobe | + | 27 | |
| Inflammation, Focal | | 1 | 1.0 |
| Prostate, Ventral Lobe | M | 20 | |

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| C57BL/6 Mouse Male NAC 125MG/KG | DAY ON TEST | | |
|---|-------------|----------------|-----|
| | ANIMAL ID | | |
| | 0 | | |
| | 0 | | |
| | 8 | | |
| | 5 | | |
| | 0 | | |
| | 0 | | |
| | 2 | | |
| | 5 | | |
| | 6 | | |
| | | *TOTALS | |
| Seminal Vesicle | + | 32 | |
| Testes | + | 31 | |
| Germinal Epith, Vacuolization Cytoplasmic, Focal | | 1 | 1.0 |
| Seminif Tub, Atrophy | 1 | 2 | 1.0 |
| Hematopoietic System | | | |
| Lymph Node | | 1 | |
| Spleen | + | 30 | |
| Integumentary System | | | |
| Skin | | 1 | |
| Musculoskeletal System | | | |
| NONE | | | |
| Nervous System | | | |
| NONE | | | |
| Respiratory System | | | |
| NONE | | | |
| Special Senses System | | | |
| Eye | | 2 | |
| Urinary System | | | |

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| | | DAY ON TEST | | |
|--|---|-------------|----------------|-----|
| | | 0 | | |
| | | 0 | | |
| | | 8 | | |
| | | 5 | | |
| | | 0 | | |
| | | ANIMAL ID | | |
| | | 0 | | |
| | | 0 | | |
| | | 2 | | |
| | | 5 | | |
| | | 6 | | |
| | | | *TOTALS | |
| Kidney | + | | 32 | |
| Hydronephrosis | | | 2 | 3.0 |
| Medulla, Renal Tubule, Dilatation, Focal | | | 1 | 1.0 |
| Urinary Bladder | + | | 29 | |

END OF MALE DATA

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