

Experiment Number: 20108-06
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Mouse/TRAMP

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

Date Report Requested: 10/23/2014
Time Report Requested: 14:19:37
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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| 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 |
| 5 | 8 | 8 | 8 | 8 | 3 | 8 | 5 | 8 | 5 | 5 | 3 | 8 |
| 8 | 8 | 6 | 9 | 3 | 8 | 7 | 5 | 8 | 7 | 2 | 9 | |
| 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 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | |
| | | | | | | | | | | | | *TOTALS |

Alimentary System

| | | | | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|-------|
| Liver | + | + | + | + | + | + | + | + | + | + | + | 12 |
| Inflammation, Focal | | 1 | 1 | 1 | | | | 1 | | 1 | 1 | 6 1.0 |

Cardiovascular System

NONE

Endocrine System

| | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Pituitary Gland | + | + | + | + | + | + | M | + | + | + | + | M | 10 |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|----|

General Body System

NONE

Genital System

| | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | 12 |
| Atypia Cellular | | | | | | | | 1 | | | | | 1 1.0 |
| Prostate | | | | | | | | + | | | | | 1 |
| Prostate, Anterior Lobe | + | + | + | + | + | + | + | + | + | + | + | + | 12 |
| Hyperplasia, Grade 3, Focal | | | | | X | | | X | | X | | | 3 |
| Hyperplasia, Grade 3, Multifocal | X | | X | X | | | X | | | | X | X | 6 |
| Hyperplasia, Grade 4, Focal | | X | | | | X | | | X | | | | 3 |
| Prostate, Dorsal Lobe | + | + | + | + | + | + | + | + | + | + | + | + | 12 |
| Hyperplasia, Grade 3, Diffuse | X | | | | | | X | X | X | X | | | 5 |
| Hyperplasia, Grade 3, Multifocal | | | | | X | | | | | | X | | 2 |

* ..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:

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| TRAMP Mouse Male VEHICLE CONTROL | DAY ON TEST | | | | | | | | | | | | *TOTALS |
|--------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---------|
| | 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 | |
| | 5 | 8 | 8 | 8 | 3 | 8 | 5 | 8 | 5 | 5 | 3 | 8 | |
| | 8 | 8 | 6 | 9 | 3 | 8 | 7 | 5 | 8 | 7 | 2 | 9 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 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 | 3 | 3 | 3 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | |
| Hyperplasia, Grade 4, Focal | | X | X | X | | X | | | | | X | | 5 |
| Prostate, Lateral Lobe | M | M | + | + | + | + | + | + | + | + | + | + | 10 |
| Hyperplasia, Grade 3, Diffuse | | | | X | | X | X | X | X | | X | | 7 |
| Hyperplasia, Grade 3, Focal | | | X | | | | | | | | | | 1 |
| Hyperplasia, Grade 3, Multifocal | | | | | X | | | | | X | | | 2 |
| Prostate, Ventral Lobe | + | M | M | + | + | + | + | M | M | + | + | M | 7 |
| Hyperplasia, Grade 2, Multifocal | | | | | X | | | | | | | | 1 |
| Hyperplasia, Grade 3, Diffuse | | | | | | | X | | | | | | 1 |
| Hyperplasia, Grade 3, Multifocal | X | | | X | | X | | | | X | X | | 5 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | 12 |
| Hyperplasia, Grade 2, Multifocal | X | | | | | | | | | X | | | 2 |
| Hyperplasia, Papillary | | | X | X | | X | | | | | | | 3 |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | 12 |
| Germinal Epith, Syncytial Alteration | | 1 | | | | | | 1 | | | | | 2 1.0 |
| Hematopoietic System | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | 12 |
| Integumentary System | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | |
| Musculoskeletal System | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | |
| Nervous System | | | | | | | | | | | | | |

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

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**TRAMP 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 | 0 | 0 | |
| | 5 | 8 | 8 | 8 | 3 | 8 | 5 | 8 | 5 | 5 | 3 | 8 | |
| | 8 | 8 | 6 | 9 | 3 | 8 | 7 | 5 | 8 | 7 | 2 | 9 | |
| 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 | 3 | 3 | 3 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | *TOTALS |

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | 12 | |
| Cortex, Renal Tubule, Regeneration, Focal | | | | 1 | | | | | | | | | 1 | 1.0 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | 12 | |

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

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

| DAY ON TEST | 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 | |
| TRAMP 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 | |
| NAC 125MG/KG | 3 | 8 | 5 | 8 | 8 | 8 | 8 | 8 | 5 | 3 | 8 | 5 | 3 | 8 | 8 | 8 | 8 | 8 | 8 | 5 | 8 | 3 | 5 | 5 | 3 | 8 | 8 | 8 | 8 | 3 | |
| | 2 | 9 | 8 | 6 | 5 | 7 | 5 | 8 | 8 | 0 | 5 | 7 | 2 | 7 | 9 | 6 | 9 | 6 | 7 | 8 | 7 | 9 | 3 | 7 | 8 | 3 | 5 | 8 | 7 | 6 | 3 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 1 | 1 | 1 | 1 | 1 |
| | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 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 |

Alimentary System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation, Focal | | | | 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 | + |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

General Body System

NONE

Genital System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Granuloma Sperm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Prostate, Anterior Lobe | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia, Grade 2, Focal | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Grade 3, Diffuse | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Grade 3, Focal | | | | | | | | | | | | X | | | X | | X | | | | | X | | | X | | | | | | | | |
| Hyperplasia, Grade 3, Multifocal | X | X | X | X | X | X | X | X | X | | | | X | | X | | X | | | | X | X | | X | X | | X | X | | X | X | | |
| Hyperplasia, Grade 4, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |

* ..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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First Dose M/F: NA / NA

Lab: ILS

| | | | |
|--|-------------|----------------|--|
| TRAMP Mouse Male NAC 125MG/KG | DAY ON TEST | 0 | |
| | | 0 | |
| | | 3 | |
| | | 2 | |
| | ANIMAL ID | 0 | |
| | 0 | *TOTALS | |
| | 1 | | |
| | 2 | | |
| | 8 | | |

Alimentary System

| | | | |
|---------------------|---|----|-----|
| Liver | + | 32 | |
| Inflammation, Focal | | 8 | 1.0 |
| Tension Lipidosis | | 1 | 2.0 |

Cardiovascular System

NONE

Endocrine System

| | | | |
|-----------------|---|----|--|
| Pituitary Gland | + | 23 | |
|-----------------|---|----|--|

General Body System

NONE

Genital System

| | | | |
|----------------------------------|---|----|-----|
| Epididymis | + | 32 | |
| Granuloma Sperm | | 1 | 4.0 |
| Inflammation | | 1 | 2.0 |
| Prostate, Anterior Lobe | + | 32 | |
| Hyperplasia, Grade 2, Focal | | 1 | |
| Hyperplasia, Grade 3, Diffuse | | 1 | |
| Hyperplasia, Grade 3, Focal | X | 7 | |
| Hyperplasia, Grade 3, Multifocal | | 21 | |
| Hyperplasia, Grade 4, Focal | | 2 | |

* ..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

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| TRAMP Mouse Male NAC 125MG/KG | DAY ON TEST | |
|----------------------------------|-----------------------|---------|
| | 0 0 3 2 | |
| | ANIMAL ID | |
| | 0 0 1 2 8 | *TOTALS |
| Prostate, Dorsal Lobe | + | 29 |
| Hyperplasia, Grade 3, Diffuse | | 2 |
| Hyperplasia, Grade 3, Focal | X | 4 |
| Hyperplasia, Grade 3, Multifocal | | 9 |
| Hyperplasia, Grade 4, Diffuse | | 1 |
| Hyperplasia, Grade 4, Focal | | 10 |
| Hyperplasia, Grade 4, Multifocal | | 1 |
| Hyperplasia, Grade 5, Focal | | 2 |
| Prostate, Lateral Lobe | + | 28 |
| Hyperplasia, Grade 3, Diffuse | | 11 |
| Hyperplasia, Grade 3, Multifocal | X | 17 |
| Prostate, Ventral Lobe | + | 25 |
| Hyperplasia, Grade 2, Focal | | 1 |
| Hyperplasia, Grade 2, Multifocal | | 5 |
| Hyperplasia, Grade 3, Diffuse | | 1 |
| Hyperplasia, Grade 3, Focal | X | 12 |
| Hyperplasia, Grade 3, Multifocal | | 5 |
| Hyperplasia, Grade 4, Focal | | 1 |
| Seminal Vesicle | + | 32 |
| Hyperplasia, Grade 2, Focal | | 5 |
| Hyperplasia, Grade 3, Focal | | 1 |
| Hyperplasia, Papillary | | 7 |
| Testes | + | 32 |

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|---|-----------------------|---------|-----|
| | 0 0 3 2 | | |
| | ANIMAL ID | | |
| | 0 0 1 2 8 | *TOTALS | |
| Germinal Epith, Syncytial Alteration | | 2 | 1.0 |
| Seminif Tub, Atrophy | | 1 | 1.0 |
| Hematopoietic System | | | |
| Lymph Node | | 2 | |
| Spleen | + | 31 | |
| Hematopoietic Cell Proliferation | | 2 | 2.0 |
| Integumentary System | | | |
| Skin | | 1 | |
| Musculoskeletal System | | | |
| NONE | | | |
| Nervous System | | | |
| NONE | | | |
| Respiratory System | | | |
| NONE | | | |
| Special Senses System | | | |
| NONE | | | |
| Urinary System | | | |
| Kidney | + | 32 | |
| Cortex, Renal Tubule, Regeneration, Focal | | 5 | 1.0 |

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**** END OF REPORT ****

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