

**Experiment Number:** 20403 - 01  
**Test Type:** CHRONIC  
**Route:** DOSED FEED  
**Species/Strain:** RATS/HSD

**E05: CLINICAL OBSERVATIONS SUMMARY**

Zinc Carbonate, Basic  
**CAS Number:** 5263-02-5

**Date Report Requested:** 08/06/2015  
**Time Report Requested:** 12:54:36  
**First Dose M/F:** 09/03/09 / 09/04/09  
**Lab:** BAT

**NTP Study Number:** C20403  
**Lock Date:** 04/05/2013  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 3.0.2.2\_002  
**PWG Approval Date:** NONE

Experiment Number: 20403 - 01

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Zinc Carbonate, Basic

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Date Report Requested: 08/06/2015

Time Report Requested: 12:54:36

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

| OBSERVATION          | WEEK: 105       |                    |                 |                   |            |                   |                |                   |
|----------------------|-----------------|--------------------|-----------------|-------------------|------------|-------------------|----------------|-------------------|
|                      | Control (38ppm) |                    | 3.5ppm SevZnDef |                   | 7ppm ZnDef |                   | 250ppmModZnExc |                   |
|                      | CURRENT*        | TOTAL+             | CURRENT         | TOTAL             | CURRENT    | TOTAL             | CURRENT        | TOTAL             |
| Abnormal Breathing   | 0 / 0           | 1 / 60<br>DAY 652  | 0 / 0           | 0/60              | 0 / 0      | 0/60              | 0 / 0          | 0/60              |
| Clonic Seizures      | 0 / 0           | 0/60               | 0 / 0           | 0/60              | 0 / 0      | 0/60              | 0 / 0          | 1 / 60<br>DAY 176 |
| Eye Abnormality      | 0 / 0           | 2 / 60<br>DAY 92   | 0 / 0           | 3 / 60<br>DAY 29  | 0 / 0      | 6 / 60<br>DAY 92  | 0 / 0          | 2 / 60<br>DAY 29  |
| Head Tilt            | 0 / 0           | 1 / 60<br>DAY 232  | 0 / 0           | 1 / 60<br>DAY 29  | 0 / 0      | 2 / 60<br>DAY 29  | 0 / 0          | 1 / 60<br>DAY 232 |
| Lethargic            | 0 / 0           | 0/60               | 0 / 0           | 1 / 60<br>DAY 708 | 0 / 0      | 0/60              | 0 / 0          | 1 / 60<br>DAY 456 |
| Mass<br>Appendage    | 0 / 0           | 0/60               | 0 / 0           | 0/60              | 0 / 0      | 1 / 60<br>DAY 428 | 0 / 0          | 1 / 60<br>DAY 568 |
| Mass<br>Head         | 0 / 0           | 2 / 60<br>DAY 344  | 0 / 0           | 3 / 60<br>DAY 372 | 0 / 0      | 2 / 60<br>DAY 372 | 0 / 0          | 2 / 60<br>DAY 568 |
| Mass<br>Torso/Dorsal | 0 / 0           | 11 / 60<br>DAY 316 | 0 / 0           | 5 / 60<br>DAY 260 | 0 / 0      | 2 / 60<br>DAY 484 | 0 / 0          | 2 / 60<br>DAY 428 |

\* ANIMALS WITH OBSERVATION IN CURRENT PERIOD / TOTAL ANIMALS OBSERVED IN CURRENT PERIOD (WITHIN 30 DAYS OF RUN DATE)

+ ROW 1 = CUMULATIVE NO. OF ANIMALS WITH OBSERVATION / TOTAL ANIMALS STARTED ON STUDY

ROW 2 = DAY OF ONSET

Experiment Number: 20403 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

E05: CLINICAL OBSERVATIONS SUMMARY

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Date Report Requested: 08/06/2015

Time Report Requested: 12:54:36

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

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| OBSERVATION          | 500ppm ZnExc |                   |
|----------------------|--------------|-------------------|
|                      | CURRENT*     | TOTAL+            |
| SEX: MALE            | WEEK: 105    |                   |
| Abnormal Breathing   | 0 / 0        | 0/60              |
| Clonic Seizures      | 0 / 0        | 0/60              |
| Eye Abnormality      | 0 / 0        | 2 / 60<br>DAY 288 |
| Head Tilt            | 0 / 0        | 1 / 60<br>DAY 120 |
| Lethargic            | 0 / 0        | 0/60              |
| Mass<br>Appendage    | 0 / 0        | 0/60              |
| Mass<br>Head         | 0 / 0        | 2 / 60<br>DAY 316 |
| Mass<br>Torso/Dorsal | 0 / 0        | 3 / 60<br>DAY 512 |

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Time Report Requested: 12:54:36

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

| OBSERVATION                       | WEEK: 105       |                   |                 |                   |            |                    |                |                    |
|-----------------------------------|-----------------|-------------------|-----------------|-------------------|------------|--------------------|----------------|--------------------|
|                                   | Control (38ppm) |                   | 3.5ppm SevZnDef |                   | 7ppm ZnDef |                    | 250ppmModZnExc |                    |
|                                   | CURRENT*        | TOTAL+            | CURRENT         | TOTAL             | CURRENT    | TOTAL              | CURRENT        | TOTAL              |
| <b>Mass</b><br>Torso/Lateral      | 0 / 0           | 6 / 60<br>DAY 484 | 0 / 0           | 8 / 60<br>DAY 428 | 0 / 0      | 6 / 60<br>DAY 344  | 0 / 0          | 7 / 60<br>DAY 428  |
| <b>Mass</b><br>Torso/Ventral      | 0 / 0           | 8 / 60<br>DAY 456 | 0 / 0           | 9 / 60<br>DAY 428 | 0 / 0      | 7 / 60<br>DAY 316  | 0 / 0          | 8 / 60<br>DAY 316  |
| <b>Nasal/Eye Discharge</b>        | 0 / 0           | 10 / 60<br>DAY 92 | 0 / 0           | 6 / 60<br>DAY 120 | 0 / 0      | 17 / 60<br>DAY 148 | 0 / 0          | 13 / 60<br>DAY 120 |
| <b>Ruffled Fur</b>                | 0 / 0           | 0/60              | 0 / 0           | 3 / 60<br>DAY 596 | 0 / 0      | 1 / 60<br>DAY 652  | 0 / 0          | 2 / 60<br>DAY 428  |
| <b>Thin</b>                       | 0 / 0           | 5 / 60<br>DAY 484 | 0 / 0           | 3 / 60<br>DAY 652 | 0 / 0      | 3 / 60<br>DAY 652  | 0 / 0          | 5 / 60<br>DAY 428  |
| <b>Tremors</b>                    | 0 / 0           | 0/60              | 0 / 0           | 0/60              | 0 / 0      | 1 / 60<br>DAY 428  | 0 / 0          | 1 / 60<br>DAY 456  |
| <b>Ulcer/Abscess</b><br>Appendage | 0 / 0           | 2 / 60<br>DAY 428 | 0 / 0           | 2 / 60<br>DAY 176 | 0 / 0      | 2 / 60<br>DAY 428  | 0 / 0          | 5 / 60<br>DAY 428  |
| <b>Ulcer/Abscess</b><br>Head      | 0 / 0           | 1 / 60<br>DAY 652 | 0 / 0           | 1 / 60<br>DAY 708 | 0 / 0      | 0/60               | 0 / 0          | 4 / 60<br>DAY 176  |

\* ANIMALS WITH OBSERVATION IN CURRENT PERIOD / TOTAL ANIMALS OBSERVED IN CURRENT PERIOD (WITHIN 30 DAYS OF RUN DATE)

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First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

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| OBSERVATION                       | 500ppm ZnExc |                   |
|-----------------------------------|--------------|-------------------|
|                                   | CURRENT*     | TOTAL+            |
| <b>SEX:</b> MALE                  | WEEK: 105    |                   |
| <b>Mass</b><br>Torso/Lateral      | 0 / 0        | 4 / 60<br>DAY 484 |
| <b>Mass</b><br>Torso/Ventral      | 0 / 0        | 4 / 60<br>DAY 456 |
| <b>Nasal/Eye Discharge</b>        | 0 / 0        | 17 / 60<br>DAY 92 |
| <b>Ruffled Fur</b>                | 0 / 0        | 0/60              |
| <b>Thin</b>                       | 0 / 0        | 2 / 60<br>DAY 680 |
| <b>Tremors</b>                    | 0 / 0        | 0/60              |
| <b>Ulcer/Abscess</b><br>Appendage | 0 / 0        | 2 / 60<br>DAY 428 |
| <b>Ulcer/Abscess</b><br>Head      | 0 / 0        | 1 / 60<br>DAY 176 |

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Species/Strain: RATS/HSD

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Time Report Requested: 12:54:36

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

| OBSERVATION                    | WEEK: 105       |                   |                 |                   |            |                   |                |                   |
|--------------------------------|-----------------|-------------------|-----------------|-------------------|------------|-------------------|----------------|-------------------|
|                                | Control (38ppm) |                   | 3.5ppm SevZnDef |                   | 7ppm ZnDef |                   | 250ppmModZnExc |                   |
|                                | CURRENT*        | TOTAL+            | CURRENT         | TOTAL             | CURRENT    | TOTAL             | CURRENT        | TOTAL             |
| Ulcer/Abscess<br>Torso/Dorsal  | 0 / 0           | 4 / 60<br>DAY 456 | 0 / 0           | 5 / 60<br>DAY 29  | 0 / 0      | 4 / 60<br>DAY 652 | 0 / 0          | 1 / 60<br>DAY 652 |
| Ulcer/Abscess<br>Torso/Lateral | 0 / 0           | 2 / 60<br>DAY 652 | 0 / 0           | 0/60              | 0 / 0      | 0/60              | 0 / 0          | 4 / 60<br>DAY 652 |
| Ulcer/Abscess<br>Torso/Ventral | 0 / 0           | 2 / 60<br>DAY 428 | 0 / 0           | 1 / 60<br>DAY 484 | 0 / 0      | 0/60              | 0 / 0          | 2 / 60<br>DAY 456 |

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ROW 2 = DAY OF ONSET

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Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**E05: CLINICAL OBSERVATIONS SUMMARY**

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Date Report Requested: 08/06/2015

Time Report Requested: 12:54:36

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

SEX: MALE

WEEK: 105

| OBSERVATION                    | 500ppm ZnExc |                   |
|--------------------------------|--------------|-------------------|
|                                | CURRENT*     | TOTAL+            |
| Ulcer/Abscess<br>Torso/Dorsal  | 0 / 0        | 0/60              |
| Ulcer/Abscess<br>Torso/Lateral | 0 / 0        | 1 / 60<br>DAY 652 |
| Ulcer/Abscess<br>Torso/Ventral | 0 / 0        | 0/60              |

\*\*\*END OF MALE DATA\*\*\*

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Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**E05: CLINICAL OBSERVATIONS SUMMARY**

Zinc Carbonate, Basic

CAS Number: 5263-02-5

Date Report Requested: 08/06/2015

Time Report Requested: 12:54:36

First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

| SEX: FEMALE                 |                 | WEEK: 104         |                 |                   |            |                   |                |                   |  |
|-----------------------------|-----------------|-------------------|-----------------|-------------------|------------|-------------------|----------------|-------------------|--|
| OBSERVATION                 | Control (38ppm) |                   | 3.5ppm SevZnDef |                   | 7ppm ZnDef |                   | 250ppmModZnExc |                   |  |
|                             | CURRENT*        | TOTAL+            | CURRENT         | TOTAL             | CURRENT    | TOTAL             | CURRENT        | TOTAL             |  |
| <b>Clonic Seizures</b>      | 0 / 0           | 0/60              | 0 / 0           | 1 / 60<br>DAY 204 | 0 / 0      | 0/60              | 0 / 0          | 0/60              |  |
| <b>Eye Abnormality</b>      | 0 / 0           | 2 / 60<br>DAY 260 | 0 / 0           | 3 / 60<br>DAY 204 | 0 / 0      | 0/60              | 0 / 0          | 0/60              |  |
| <b>Head Tilt</b>            | 0 / 0           | 1 / 60<br>DAY 316 | 0 / 0           | 0/60              | 0 / 0      | 0/60              | 0 / 0          | 0/60              |  |
| <b>Impaired Gait</b>        | 0 / 0           | 0/60              | 0 / 0           | 0/60              | 0 / 0      | 0/60              | 0 / 0          | 0/60              |  |
| <b>Lethargic</b>            | 0 / 0           | 0/60              | 0 / 0           | 0/60              | 0 / 0      | 0/60              | 0 / 0          | 1 / 60<br>DAY 456 |  |
| <b>Mass</b><br>Appendage    | 0 / 0           | 0/60              | 0 / 0           | 1 / 60<br>DAY 344 | 0 / 0      | 1 / 60<br>DAY 596 | 0 / 0          | 0/60              |  |
| <b>Mass</b><br>Head         | 0 / 0           | 1 / 60<br>DAY 568 | 0 / 0           | 0/60              | 0 / 0      | 0/60              | 0 / 0          | 3 / 60<br>DAY 596 |  |
| <b>Mass</b><br>Torso/Dorsal | 0 / 0           | 1 / 60<br>DAY 540 | 0 / 0           | 0/60              | 0 / 0      | 0/60              | 0 / 0          | 0/60              |  |

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 ROW 2 = DAY OF ONSET



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Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

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First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

SEX: FEMALE

WEEK: 104

| OBSERVATION          | 500ppm ZnExc |                   |
|----------------------|--------------|-------------------|
|                      | CURRENT*     | TOTAL+            |
| Clonic Seizures      | 0 / 0        | 0/60              |
| Eye Abnormality      | 0 / 0        | 1 / 60<br>DAY 316 |
| Head Tilt            | 0 / 0        | 3 / 60<br>DAY 120 |
| Impaired Gait        | 0 / 0        | 1 / 60<br>DAY 456 |
| Lethargic            | 0 / 0        | 0/60              |
| Mass<br>Appendage    | 0 / 0        | 0/60              |
| Mass<br>Head         | 0 / 0        | 1 / 60<br>DAY 680 |
| Mass<br>Torso/Dorsal | 0 / 0        | 0/60              |

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+ ROW 1 = CUMULATIVE NO. OF ANIMALS WITH OBSERVATION / TOTAL ANIMALS STARTED ON STUDY  
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First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

| OBSERVATION                           | WEEK: 104       |                    |                 |                    |            |                    |                |                    |
|---------------------------------------|-----------------|--------------------|-----------------|--------------------|------------|--------------------|----------------|--------------------|
|                                       | Control (38ppm) |                    | 3.5ppm SevZnDef |                    | 7ppm ZnDef |                    | 250ppmModZnExc |                    |
|                                       | CURRENT*        | TOTAL+             | CURRENT         | TOTAL              | CURRENT    | TOTAL              | CURRENT        | TOTAL              |
| <b>Mass</b><br>Torso/Lateral          | 0 / 0           | 17 / 60<br>DAY 316 | 0 / 0           | 15 / 60<br>DAY 372 | 0 / 0      | 12 / 60<br>DAY 428 | 0 / 0          | 16 / 60<br>DAY 316 |
| <b>Mass</b><br>Torso/Ventral          | 0 / 0           | 20 / 60<br>DAY 344 | 0 / 0           | 22 / 60<br>DAY 204 | 0 / 0      | 26 / 60<br>DAY 260 | 0 / 0          | 25 / 60<br>DAY 176 |
| <b>Nasal/Eye Discharge</b>            | 0 / 0           | 3 / 60<br>DAY 316  | 0 / 0           | 5 / 60<br>DAY 204  | 0 / 0      | 0/60               | 0 / 0          | 2 / 60<br>DAY 204  |
| <b>Ruffled Fur</b>                    | 0 / 0           | 0/60               | 0 / 0           | 0/60               | 0 / 0      | 0/60               | 0 / 0          | 1 / 60<br>DAY 456  |
| <b>Thin</b>                           | 0 / 0           | 0/60               | 0 / 0           | 0/60               | 0 / 0      | 0/60               | 0 / 0          | 1 / 60<br>DAY 456  |
| <b>Ulcer/Abscess</b><br>Head          | 0 / 0           | 0/60               | 0 / 0           | 1 / 60<br>DAY 204  | 0 / 0      | 0/60               | 0 / 0          | 1 / 60<br>DAY 680  |
| <b>Ulcer/Abscess</b><br>Torso/Dorsal  | 0 / 0           | 0/60               | 0 / 0           | 1 / 60<br>DAY 680  | 0 / 0      | 0/60               | 0 / 0          | 0/60               |
| <b>Ulcer/Abscess</b><br>Torso/Lateral | 0 / 0           | 1 / 60<br>DAY 708  | 0 / 0           | 0/60               | 0 / 0      | 0/60               | 0 / 0          | 0/60               |

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ROW 2 = DAY OF ONSET

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First Dose M/F: 09/03/09 / 09/04/09

Lab: BAT

SEX: FEMALE

WEEK: 104

| OBSERVATION                           | 500ppm ZnExc |                    |
|---------------------------------------|--------------|--------------------|
|                                       | CURRENT*     | TOTAL+             |
| <b>Mass</b><br>Torso/Lateral          | 0 / 0        | 13 / 60<br>DAY 316 |
| <b>Mass</b><br>Torso/Ventral          | 0 / 0        | 23 / 60<br>DAY 344 |
| <b>Nasal/Eye Discharge</b>            | 0 / 0        | 4 / 60<br>DAY 120  |
| <b>Ruffled Fur</b>                    | 0 / 0        | 2 / 60<br>DAY 456  |
| <b>Thin</b>                           | 0 / 0        | 0/60               |
| <b>Ulcer/Abscess</b><br>Head          | 0 / 0        | 0/60               |
| <b>Ulcer/Abscess</b><br>Torso/Dorsal  | 0 / 0        | 0/60               |
| <b>Ulcer/Abscess</b><br>Torso/Lateral | 0 / 0        | 0/60               |

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Lab: BAT

| OBSERVATION                    | Control (38ppm) |           | 3.5ppm SevZnDef |       | 7ppm ZnDef |                   | 250ppmModZnExc |       |
|--------------------------------|-----------------|-----------|-----------------|-------|------------|-------------------|----------------|-------|
|                                | CURRENT*        | TOTAL+    | CURRENT         | TOTAL | CURRENT    | TOTAL             | CURRENT        | TOTAL |
|                                | SEX: FEMALE     | WEEK: 104 |                 |       |            |                   |                |       |
| Ulcer/Abscess<br>Torso/Ventral | 0 / 0           | 0/60      | 0 / 0           | 0/60  | 0 / 0      | 1 / 60<br>DAY 708 | 0 / 0          | 0/60  |

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Lab: BAT

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SEX: FEMALE

WEEK: 104

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**500ppm ZnExc**

**OBSERVATION**

**CURRENT\***

**TOTAL+**

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**Ulcer/Abscess**  
Torso/Ventral

0 / 0

0/60

\*\*\*END OF REPORT\*\*\*

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