

Study Number: C94043-03

Test Type: TOX

Route: Dosing in Water

Species/Strain: Rat/Harlan Sprague Dawley

Study Number:

Study Gender:

PWG Approval Date:

Version:

PA44: Urinalysis Data Summary

Test Compound: Sodium Metavanadate

CAS Number: 13718-26-8

C94043-03

Both

See web page for date of PWG Approval

v1.1.3

Date Report Requested: 12/18/2020

Time Report Requested: 07:15:10

Lab: Battelle

Study Number: C94043-03

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PA44: Urinalysis Data Summary

Test Compound: Sodium Metavanadate

CAS Number: 13718-26-8

Date Report Requested: 12/18/2020

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Lab: Battelle

F1 Male: F1 Biosample Animals

| | Phase Day | Treatment Groups | | | | | | | | |
|--------------------------|-----------|------------------|------------|-----------|-----------|-----------|-----------|----------|-----------|--|
| | | 0 mg/L | | 31.3 mg/L | | 62.5 mg/L | | 125 mg/L | | |
| Urine Clarity | PND 116 | (5) | | (5) | | (5) | | (5) | | |
| V Cloudy | PND 116 | 5 | | 5 | | 5 | | 5 | | |
| Urine Color | PND 116 | (5) | | (5) | | (5) | | (5) | | |
| yellow | PND 116 | 5 | | 5 | | 5 | | 5 | | |
| Specific Gravity | PND 116 | 1.038 ± | 0.005 (5) | 1.040 ± | 0.004 (5) | 1.050 ± | 0.004 (5) | 1.056 ± | 0.004 (5) | |
| SEDIMENT EXAM | | | | | | | | | | |
| Urine White Blood Cells | PND 116 | 0.0 ± | 0.0 (5) | 0.0 ± | 0.0 (5) | 0.0 ± | 0.0 (5) | 0.0 ± | 0.0 (5) | |
| Urine Red Blood Cells | PND 116 | 1.6 ± | 0.2 (5) | 1.2 ± | 0.2 (5) | 1.6 ± | 0.2 (5) | 1.6 ± | 0.2 (5) | |
| Casts | PND 116 | 0.0 ± | 0.0 (5) | 0.0 ± | 0.0 (5) | 0.0 ± | 0.0 (5) | 0.0 ± | 0.0 (5) | |
| Epithelial Cells | PND 116 | 0.0 ± | 0.0 (5) | 0.0 ± | 0.0 (5) | 0.0 ± | 0.0 (5) | 0.0 ± | 0.0 (5) | |
| Mucus | PND 116 | 0.0 ± | 0.0 (5) | 0.0 ± | 0.0 (5) | 0.0 ± | 0.0 (5) | 0.0 ± | 0.0 (5) | |
| Sperm | PND 116 | 2.2 ± | 0.2 (5) | 1.6 ± | 0.4 (5) | 2.2 ± | 0.4 (5) | 2.2 ± | 0.4 (5) | |
| Bacteria | PND 116 | 0.0 ± | 0.0 (5) | 0.0 ± | 0.0 (5) | 0.0 ± | 0.0 (5) | 0.0 ± | 0.0 (5) | |
| Yeast | PND 116 | 0.0 ± | 0.0 (5) | 0.0 ± | 0.0 (5) | 0.0 ± | 0.0 (5) | 0.0 ± | 0.0 (5) | |
| Amorphous Sediment | PND 116 | 0.0 ± | 0.0 (5) | 0.0 ± | 0.0 (5) | 0.0 ± | 0.0 (5) | 0.0 ± | 0.0 (5) | |
| Crystals | PND 116 | 2.6 ± | 0.2 (5) | 2.0 ± | 0.4 (5) | 2.6 ± | 0.5 (5) | 2.8 ± | 0.2 (5) | |
| URINE CHEMISTRIES | | | | | | | | | | |
| Total Protein (mg/dL) | PND 116 | 386.8 ± | 196.7 (5) | 322.6 ± | 153.9 (5) | 386.4 ± | 79.9 (5) | 631.0 ± | 168.0 (5) | |
| Percent of Control | | | | 83.4 | | 99.9 | | 163.1 | | |
| Total Protein/Creatinine | PND 116 | 2.6 ± | 1.0 (5) | 2.2 ± | 0.8 (5) | 2.2 ± | 0.4 (5) | 3.5 ± | 1.1 (5) | |
| Percent of Control | | | | 84.2 | | 83.0 | | 135.2 | | |
| Glucose (mg/dL) | PND 116 | 37.4 ± | 5.6 (5) | 34.4 ± | 4.1 (5) | 46.6 ± | 3.3 (5) | 49.6 ± | 7.3 (5) | |
| Percent of Control | | | | 92.0 | | 124.6 | | 132.6 | | |
| Glucose/Creatinine | PND 116 | 0.29 ± | 0.01 (5) | 0.26 ± | 0.01 (5) | 0.26 ± | 0.01 (5) | 0.26 ± | 0.03 (5) | |
| Percent of Control | | | | 87.9 | | 90.0 | | 90.0 | | |
| Calcium (mg/dL) | PND 116 | 24.2 ± | 2.2 (5) ** | 23.7 ± | 1.4 (5) | 29.3 ± | 3.6 (5) | 33.5 ± | 2.9 (5) * | |
| Percent of Control | | | | 97.9 | | 121.2 | | 138.6 | | |
| Calcium/Creatinine | PND 116 | 0.20 ± | 0.02 (5) | 0.18 ± | 0.01 (5) | 0.18 ± | 0.04 (5) | 0.18 ± | 0.01 (5) | |
| Percent of Control | | | | 90.4 | | 88.1 | | 91.0 | | |

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PA44: Urinalysis Data Summary

Test Compound: Sodium Metavanadate

CAS Number: 13718-26-8

Date Report Requested: 12/18/2020

Time Report Requested: 07:15:10

Lab: Battelle

F1 Male: F1 Biosample Animals

| | Phase Day | Treatment Groups | | | | | | | |
|--|-----------|------------------|---------------|-----------|------------|-----------|--------------|----------|--------------|
| | | 0 mg/L | | 31.3 mg/L | | 62.5 mg/L | | 125 mg/L | |
| Phosphorus (mg/dL) | PND 116 | 24.0 | ± 8.1 (5) ** | 15.6 | ± 6.7 (5) | 8.3 | ± 2.3 (5) | 7.9 | ± 4.7 (5) |
| Percent of Control | | | | 64.9 | | 34.7 | | 32.9 | |
| Phosphorus/Creatinine | PND 116 | 0.18 | ± 0.06 (5) ** | 0.12 | ± 0.05 (5) | 0.05 | ± 0.02 (5) * | 0.04 | ± 0.02 (5) * |
| Percent of Control | | | | 68.3 | | 30.2 | | 23.2 | |
| N-acetyl-beta-glucosaminidase (U/L) | PND 116 | 17.4 | ± 2.8 (5) | 22.2 | ± 4.8 (5) | 20.2 | ± 1.7 (5) | 23.8 | ± 6.1 (5) |
| Percent of Control | | | | 127.6 | | 116.1 | | 136.8 | |
| N-acetyl-beta-glucosaminidase/Creatinine | PND 116 | 0.01 | ± 0.00 (5) | 0.02 | ± 0.01 (5) | 0.01 | ± 0.00 (5) | 0.01 | ± 0.00 (5) |
| Percent of Control | | | | 130.9 | | 89.5 | | 92.8 | |
| Alkaline Phosphatase (U/L) | PND 116 | 162.0 | ± 37.5 (5) | 158.8 | ± 39.8 (5) | 193.6 | ± 41.7 (5) | 205.2 | ± 33.3 (5) |
| Percent of Control | | | | 98.0 | | 119.5 | | 126.7 | |
| Alkaline Phosphatase/Creatinine (U/mg) | PND 116 | 0.12 | ± 0.02 (5) * | 0.12 | ± 0.02 (5) | 0.11 | ± 0.02 (5) | 0.11 | ± 0.01 (5) |
| Percent of Control | | | | 97.1 | | 88.8 | | 88.4 | |
| Aspartate Aminotransferase (U/L) | PND 116 | 9.6 | ± 2.7 (5) * | 9.0 | ± 1.9 (5) | 11.8 | ± 1.7 (5) | 16.2 | ± 2.4 (5) * |
| Percent of Control | | | | 93.8 | | 122.9 | | 168.8 | |
| Aspartate Aminotransferase/Creatinine (U/mg) | PND 116 | 0.01 | ± 0.00 (5) | 0.01 | ± 0.00 (5) | 0.01 | ± 0.00 (5) | 0.01 | ± 0.00 (5) |
| Percent of Control | | | | 89.6 | | 91.2 | | 124.6 | |
| Vanadium Concentration in Urine (ng/mL) | PND 116 | BD | | 119.9 | ± 16.1 (5) | 588.2 | ± 37.8 (5) | 1438.0 | ± 97.9 (5) |
| Vanadium Concentration/Creatinine (ng/mg) | PND 116 | BD | | 92.0 | ± 13.9 (5) | 348.0 | ± 55.8 (5) | 775.1 | ± 18.5 (5) |

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PA44: Urinalysis Data Summary

Test Compound: Sodium Metavanadate

CAS Number: 13718-26-8

Date Report Requested: 12/18/2020

Time Report Requested: 07:15:10

Lab: Battelle

F1 Male: F1 Biosample Animals

| | Phase Day | Treatment Groups | | |
|--------------------------|-----------|------------------|-------|--------|
| | | 250 mg/L | | |
| Urine Clarity | PND 116 | (5) | | |
| V Cloudy | PND 116 | 5 | | |
| Urine Color | PND 116 | (5) | | |
| yellow | PND 116 | 5 | | |
| Specific Gravity | PND 116 | 1.050 ± | 0.003 | (5) |
| SEDIMENT EXAM | | | | |
| Urine White Blood Cells | PND 116 | 0.0 ± | 0.0 | (5) |
| Urine Red Blood Cells | PND 116 | 1.0 ± | 0.0 | (5) |
| Casts | PND 116 | 0.0 ± | 0.0 | (5) |
| Epithelial Cells | PND 116 | 0.0 ± | 0.0 | (5) |
| Mucus | PND 116 | 0.0 ± | 0.0 | (5) |
| Sperm | PND 116 | 1.6 ± | 0.5 | (5) |
| Bacteria | PND 116 | 0.0 ± | 0.0 | (5) |
| Yeast | PND 116 | 0.0 ± | 0.0 | (5) |
| Amorphous Sediment | PND 116 | 0.0 ± | 0.0 | (5) |
| Crystals | PND 116 | 0.8 ± | 0.4 | (5) |
| URINE CHEMISTRIES | | | | |
| Total Protein (mg/dL) | PND 116 | 252.8 ± | 31.5 | (5) |
| Percent of Control | | 65.4 | | |
| Total Protein/Creatinine | PND 116 | 1.5 ± | 0.1 | (5) |
| Percent of Control | | 59.4 | | |
| Glucose (mg/dL) | PND 116 | 39.4 ± | 2.7 | (5) |
| Percent of Control | | 105.3 | | |
| Glucose/Creatinine | PND 116 | 0.24 ± | 0.01 | (5) |
| Percent of Control | | 83.3 | | |
| Calcium (mg/dL) | PND 116 | 46.7 ± | 5.7 | (5) ** |
| Percent of Control | | 193.3 | | |
| Calcium/Creatinine | PND 116 | 0.30 ± | 0.05 | (5) |
| Percent of Control | | 149.5 | | |

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Lab: Battelle

F1 Male: F1 Biosample Animals

| | | Treatment Groups | | |
|--|-----------|------------------|---------|--------|
| | Phase Day | 250 mg/L | | |
| Phosphorus (mg/dL) | PND 116 | 2.2 | ± 0.4 | (5) ** |
| Percent of Control | | | 9.2 | |
| Phosphorus/Creatinine | PND 116 | 0.01 | ± 0.00 | (5) ** |
| Percent of Control | | | 7.5 | |
| N-acetyl-beta-glucosaminidase (U/L) | PND 116 | 15.2 | ± 2.0 | (5) |
| Percent of Control | | | 87.4 | |
| N-acetyl-beta-glucosaminidase/Creatinine | PND 116 | 0.01 | ± 0.00 | (5) |
| Percent of Control | | | 68.8 | |
| Alkaline Phosphatase (U/L) | PND 116 | 115.4 | ± 11.9 | (5) |
| Percent of Control | | | 71.2 | |
| Alkaline Phosphatase/Creatinine (U/mg) | PND 116 | 0.07 | ± 0.00 | (5) |
| Percent of Control | | | 57.9 | |
| Aspartate Aminotransferase (U/L) | PND 116 | 11.0 | ± 0.3 | (5) |
| Percent of Control | | | 114.6 | |
| Aspartate Aminotransferase/Creatinine (U/mg) | PND 116 | 0.01 | ± 0.00 | (5) |
| Percent of Control | | | 95.6 | |
| Vanadium Concentration in Urine (ng/mL) | PND 116 | 2376.0 | ± 287.8 | (5) |
| Vanadium Concentration/Creatinine (ng/mg) | PND 116 | 1464.1 | ± 160.1 | (5) |

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Date Report Requested: 12/18/2020

Time Report Requested: 07:15:10

Lab: Battelle

F1 Female: F1 Biosample Animals

| | Phase Day | Treatment Groups | | | |
|--------------------------|-----------|-------------------|-------------------|-------------------|--------------------|
| | | 0 mg/L | 31.3 mg/L | 62.5 mg/L | 125 mg/L |
| Urine Clarity | PND 116 | (5) | (5) | (5) | (5) |
| V Cloudy | PND 116 | 5 | 5 | 5 | 5 |
| Urine Color | PND 116 | (5) | (5) | (5) | (5) |
| amber | PND 116 | | | | |
| yellow | PND 116 | 5 | 5 | 5 | 5 |
| Specific Gravity | PND 116 | 1.028 ± 0.002 (5) | 1.034 ± 0.004 (5) | 1.035 ± 0.004 (5) | 1.047 ± 0.005 (5) |
| SEDIMENT EXAM | | | | | |
| Urine White Blood Cells | PND 116 | 0.0 ± 0.0 (5) | 0.0 ± 0.0 (5) | 0.0 ± 0.0 (5) | 0.0 ± 0.0 (5) |
| Urine Red Blood Cells | PND 116 | 2.0 ± 0.0 (5) | 1.2 ± 0.2 (5) | 1.4 ± 0.2 (5) | 1.6 ± 0.2 (5) |
| Casts | PND 116 | 0.0 ± 0.0 (5) | 0.0 ± 0.0 (5) | 0.0 ± 0.0 (5) | 0.0 ± 0.0 (5) |
| Epithelial Cells | PND 116 | 0.0 ± 0.0 (5) | 0.0 ± 0.0 (5) | 0.0 ± 0.0 (5) | 0.0 ± 0.0 (5) |
| Mucus | PND 116 | 0.0 ± 0.0 (5) | 0.0 ± 0.0 (5) | 0.0 ± 0.0 (5) | 0.0 ± 0.0 (5) |
| Sperm | PND 116 | 0.0 ± 0.0 (5) | 0.0 ± 0.0 (5) | 0.0 ± 0.0 (5) | 0.0 ± 0.0 (5) |
| Bacteria | PND 116 | 0.0 ± 0.0 (5) | 0.0 ± 0.0 (5) | 0.6 ± 0.4 (5) | 0.0 ± 0.0 (5) |
| Yeast | PND 116 | 0.0 ± 0.0 (5) | 0.0 ± 0.0 (5) | 0.0 ± 0.0 (5) | 0.0 ± 0.0 (5) |
| Amorphous Sediment | PND 116 | 0.8 ± 0.2 (5) | 0.4 ± 0.2 (5) | 0.4 ± 0.2 (5) | 0.2 ± 0.2 (5) |
| Crystals | PND 116 | 0.8 ± 0.4 (5) | 2.0 ± 0.4 (5) | 2.0 ± 0.4 (5) | 0.6 ± 0.2 (5) |
| URINE CHEMISTRIES | | | | | |
| Total Protein (mg/dL) | PND 116 | 31.6 ± 5.4 (5) ** | 123.4 ± 86.8 (5) | 49.0 ± 5.9 (5) | 90.0 ± 10.6 (5) ** |
| Percent of Control | | | 390.5 | 155.1 | 284.8 |
| Total Protein/Creatinine | PND 116 | 0.5 ± 0.0 (5) * | 1.4 ± 0.9 (5) | 0.6 ± 0.0 (5) | 0.8 ± 0.1 (5) |
| Percent of Control | | | 302.0 | 125.1 | 172.6 |
| Glucose (mg/dL) | PND 116 | 14.8 ± 1.4 (5) ** | 18.4 ± 2.7 (5) | 20.0 ± 2.1 (5) | 25.4 ± 2.4 (5) ** |
| Percent of Control | | | 124.3 | 135.1 | 171.6 |
| Glucose/Creatinine | PND 116 | 0.23 ± 0.01 (5) | 0.24 ± 0.01 (5) | 0.24 ± 0.01 (5) | 0.22 ± 0.02 (5) |
| Percent of Control | | | 104.2 | 107.2 | 98.3 |
| Calcium (mg/dL) | PND 116 | 34.7 ± 3.8 (5) ** | 33.4 ± 3.7 (5) | 45.3 ± 5.2 (5) | 69.6 ± 11.8 (5) ** |
| Percent of Control | | | 96.4 | 130.8 | 200.7 |
| Calcium/Creatinine | PND 116 | 0.54 ± 0.07 (5) | 0.44 ± 0.03 (5) | 0.55 ± 0.03 (5) | 0.60 ± 0.07 (5) |

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PA44: Urinalysis Data Summary

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Date Report Requested: 12/18/2020

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Lab: Battelle

F1 Female: F1 Biosample Animals

| | Phase Day | Treatment Groups | | | |
|--|-----------|--------------------|-----------------|-------------------|--------------------|
| | | 0 mg/L | 31.3 mg/L | 62.5 mg/L | 125 mg/L |
| Percent of Control | | | 81.4 | 102.0 | 111.1 |
| Phosphorus (mg/dL) | PND 116 | 10.1 ± 2.1 (5) ** | 25.1 ± 5.0 (5) | 24.8 ± 6.2 (5) | 5.3 ± 1.2 (5) |
| Percent of Control | | | 248.2 | 244.9 | 52.4 |
| Phosphorus/Creatinine | PND 116 | 0.16 ± 0.04 (5) ** | 0.32 ± 0.05 (5) | 0.31 ± 0.08 (5) | 0.06 ± 0.02 (5) |
| Percent of Control | | | 192.3 | 187.3 | 33.7 |
| N-acetyl-beta-glucosaminidase (U/L) | PND 116 | 7.2 ± 1.0 (5) ** | 9.2 ± 1.7 (5) | 10.0 ± 0.5 (5) | 13.8 ± 3.9 (5) * |
| Percent of Control | | | 127.8 | 138.9 | 191.7 |
| N-acetyl-beta-glucosaminidase/Creatinine | PND 116 | 0.01 ± 0.00 (5) | 0.01 ± 0.00 (5) | 0.01 ± 0.00 (5) | 0.01 ± 0.00 (5) |
| Percent of Control | | | 105.8 | 114.7 | 105.3 |
| Alkaline Phosphatase (U/L) | PND 116 | 15.8 ± 2.4 (5) | 41.6 ± 9.5 (5) | 43.8 ± 5.2 (5) * | 39.0 ± 7.6 (5) |
| Percent of Control | | | 263.3 | 277.2 | 246.8 |
| Alkaline Phosphatase/Creatinine (U/mg) | PND 116 | 0.02 ± 0.00 (5) | 0.05 ± 0.01 (5) | 0.05 ± 0.00 (5) * | 0.03 ± 0.01 (5) |
| Percent of Control | | | 210.5 | 221.5 | 145.1 |
| Aspartate Aminotransferase (U/L) | PND 116 | 3.0 ± 0.8 (5) * | 3.2 ± 1.5 (5) | 2.2 ± 0.4 (5) | 10.0 ± 2.9 (5) |
| Percent of Control | | | 106.7 | 73.3 | 333.3 |
| Aspartate Aminotransferase/Creatinine (U/mg) | PND 116 | 0.00 ± 0.00 (5) | 0.00 ± 0.00 (5) | 0.00 ± 0.00 (5) | 0.01 ± 0.00 (5) |
| Percent of Control | | | 93.4 | 63.2 | 218.1 |
| Vanadium Concentration in Urine (ng/mL) | PND 116 | BD | 65.0 ± 20.4 (5) | 215.0 ± 35.9 (5) | 1026.6 ± 290.0 (5) |
| Vanadium Concentration/Creatinine (ng/mg) | PND 116 | BD | 77.2 ± 15.0 (5) | 279.6 ± 63.9 (5) | 816.9 ± 175.0 (5) |

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Lab: Battelle

F1 Female: F1 Biosample Animals

| | Phase Day | Treatment Groups | | |
|--------------------------|-----------|--------------------|--|--|
| | | 250 mg/L | | |
| Urine Clarity | PND 116 | (5) | | |
| V Cloudy | PND 116 | 5 | | |
| Urine Color | PND 116 | (5) | | |
| amber | PND 116 | 1 | | |
| yellow | PND 116 | 4 | | |
| Specific Gravity | PND 116 | 1.045 ± 0.004 (5) | | |
| SEDIMENT EXAM | | | | |
| Urine White Blood Cells | PND 116 | 0.0 ± 0.0 (5) | | |
| Urine Red Blood Cells | PND 116 | 1.4 ± 0.2 (5) | | |
| Casts | PND 116 | 0.0 ± 0.0 (5) | | |
| Epithelial Cells | PND 116 | 0.0 ± 0.0 (5) | | |
| Mucus | PND 116 | 0.0 ± 0.0 (5) | | |
| Sperm | PND 116 | 0.0 ± 0.0 (5) | | |
| Bacteria | PND 116 | 0.0 ± 0.0 (5) | | |
| Yeast | PND 116 | 0.0 ± 0.0 (5) | | |
| Amorphous Sediment | PND 116 | 0.2 ± 0.2 (5) | | |
| Crystals | PND 116 | 0.2 ± 0.2 (5) | | |
| URINE CHEMISTRIES | | | | |
| Total Protein (mg/dL) | PND 116 | 82.8 ± 27.1 (5) ** | | |
| Percent of Control | | 262.0 | | |
| Total Protein/Creatinine | PND 116 | 0.9 ± 0.3 (5) | | |
| Percent of Control | | 188.0 | | |
| Glucose (mg/dL) | PND 116 | 23.2 ± 2.3 (5) ** | | |
| Percent of Control | | 156.8 | | |
| Glucose/Creatinine | PND 116 | 0.23 ± 0.01 (5) | | |
| Percent of Control | | 104.0 | | |
| Calcium (mg/dL) | PND 116 | 66.0 ± 4.4 (5) ** | | |
| Percent of Control | | 190.3 | | |
| Calcium/Creatinine | PND 116 | 0.70 ± 0.09 (5) | | |

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PA44: Urinalysis Data Summary

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Date Report Requested: 12/18/2020

Time Report Requested: 07:15:10

Lab: Battelle

F1 Female: F1 Biosample Animals

| | Treatment Groups | |
|--|------------------|--------------------|
| | Phase Day | 250 mg/L |
| Percent of Control | | 129.9 |
| Phosphorus (mg/dL) | PND 116 | 3.4 ± 1.1 (5) |
| Percent of Control | | 33.6 |
| Phosphorus/Creatinine | PND 116 | 0.04 ± 0.01 (5) |
| Percent of Control | | 23.4 |
| N-acetyl-beta-glucosaminidase (U/L) | PND 116 | 17.8 ± 7.1 (5) * |
| Percent of Control | | 247.2 |
| N-acetyl-beta-glucosaminidase/Creatinine | PND 116 | 0.02 ± 0.00 (5) |
| Percent of Control | | 146.5 |
| Alkaline Phosphatase (U/L) | PND 116 | 23.0 ± 2.7 (5) |
| Percent of Control | | 145.6 |
| Alkaline Phosphatase/Creatinine (U/mg) | PND 116 | 0.02 ± 0.00 (5) |
| Percent of Control | | 98.6 |
| Aspartate Aminotransferase (U/L) | PND 116 | 5.8 ± 0.7 (5) |
| Percent of Control | | 193.3 |
| Aspartate Aminotransferase/Creatinine (U/mg) | PND 116 | 0.01 ± 0.00 (5) |
| Percent of Control | | 136.6 |
| Vanadium Concentration in Urine (ng/mL) | PND 116 | 1588.0 ± 70.0 (5) |
| Vanadium Concentration/Creatinine (ng/mg) | PND 116 | 1651.5 ± 146.7 (5) |

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LEGEND

Values given as mean \pm SEM (N) with Percent of Control calculated by (dosed group mean / control group mean) x 100

PND - Postnatal Day

Urine Clarity and Color values are given as an incidence count with number examined in parentheses

Sediment Exam values are given as a mean grade and count

No statistical analyses were performed on graded or qualitative endpoints.

Values below the limit of detection (LOD) were substituted with 1/2 the LOD value.

If 80% or more of the values in a dose group were below the LOD, no statistical analysis was performed.

Statistical analysis for urine chemistry, volume, and specific gravity data was performed using Jonckheere (trend) and Shirley or Dunn (pairwise) tests.

Statistical significance for the control group indicates a significant trend test

Statistical significance for a treatment group indicates a significant pairwise test compared to the vehicle control group

* Statistically significant at $P \leq 0.05$

** Statistically significant at $P \leq 0.01$

Urine Sediment Grading Criteria:

Epithelial Cells 0=0-1, 1=2-5, 2=6-10, 3=11-20, 4=20

Casts 0=0, 1=1-5, 2=6-10, 3=11-20, 4=20+

Crystals (Rabbits/Guinea Pigs-Calcium Carbonate) 0=0-20, 1=21-40, 2=41-60, 3=61-80, 4=81+

Red Blood Cells 0=0-5, 1=6-10, 2=11-25, 3=26-50, 4=50+

White Blood Cells 0=0-5, 1=5-10, 2=11-15, 3=16-25, 4=25+

Sperm 0=0, 1=1-5, 2=6-10, 3=11-20, 4=20+

Yeast 0=0, 1=1-10, 2=11-25, 3=26-50, 4=50+

Mucus 0=0, 1=10-25, 2=26-50, 3=51-75, 4=>75

Bacteria 0=0, 1=10-25, 2=26-50, 3=51-75, 4=>75

Amorphous Sediment 0=0, 1=10-25, 2=26-50, 3=51-75, 4=>75

BD - Group did not have over 20% of its values above the limit of detection.

**** END OF REPORT ****