

Study Number: C08004-03

Test Type: TOX

Route: Dosing in Water

Species/Strain: Rat/Harlan Sprague Dawley

Study Number:

Study Gender:

PWG Approval Date:

Version:

Stat Version:

I07: Mean Water Consumption

Test Compound: Vanadyl sulfate

CAS Number: 27774-13-6

C08004-03

Both

See web page for date of PWG Approval

v1.2.9

S

Date Report Requested: 08/04/2021

Time Report Requested: 05:58:38

Lab: Battelle

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CAS Number: 27774-13-6

Date Report Requested: 08/04/2021

Time Report Requested: 05:58:38

Lab: Battelle

F0 Females

Treatment Groups (mg/L)

| Phase | Days | 0 | | | 21 | | | 41.9 | | |
|-----------|---------|----------------------|------------------|----|----------------------|------------------|----|----------------------|------------------|----|
| | | Wt (g/animal/day) | Wt (g/kg/day) | N | Wt (g/animal/day) | Wt (g/kg/day) | N | Wt (g/animal/day) | Wt (g/kg/day) | N |
| Gestation | 6 - 9 | 36.1 ± 1.7 ** | 143.3 ± 7.0 ** | 15 | 32.7 ± 1.1 | 129.6 ± 4.0 | 16 | 33.2 ± 0.9 | 131.8 ± 3.2 | 16 |
| | 9 - 12 | 38.7 ± 1.6 ** | 145.8 ± 6.6 ** | 15 | 35.8 ± 1.1 | 134.6 ± 4.1 | 16 | 35.9 ± 1.2 | 135.0 ± 4.5 | 16 |
| | 12 - 15 | 40.8 ± 2.3 ** | 144.4 ± 8.2 ** | 15 | 35.7 ± 0.9 | 126.0 ± 3.3 | 16 | 36.8 ± 1.2 | 130.2 ± 4.1 | 16 |
| | 15 - 18 | 52.8 ± 2.0 ** | 168.9 ± 7.2 ** | 15 | 48.3 ± 1.3 | 153.5 ± 4.6 | 16 | 51.0 ± 2.1 | 163.0 ± 7.0 | 16 |
| | 18 - 21 | 51.4 ± 1.8 ** | 143.1 ± 5.8 ** | 15 | 46.4 ± 1.2 | 128.4 ± 3.9 | 16 | 48.7 ± 2.3 | 135.3 ± 6.4 | 16 |
| | 6 - 21 | 43.9 ± 1.8 ** | 147.6 ± 6.4 ** | 15 | 39.8 ± 0.9 | 133.0 ± 3.1 | 16 | 41.1 ± 1.4 | 137.9 ± 4.8 | 16 |
| Lactation | 1 - 4 | 52.3 ± 1.9 ** | 182.7 ± 7.0 ** | 15 | 50.1 ± 1.4 | 174.0 ± 4.7 | 16 | 48.8 ± 2.0 | 170.5 ± 6.0 | 16 |
| | 4 - 7 | 54.3 ± 1.7 ** | 184.6 ± 6.6 | 15 | 55.2 ± 1.1 | 187.0 ± 3.9 | 16 | 57.1 ± 1.8 | 193.8 ± 5.7 | 15 |
| | 7 - 10 | 66.6 ± 2.5 * | 220.3 ± 8.6 | 15 | 65.2 ± 1.2 | 215.2 ± 4.2 | 16 | 68.3 ± 2.1 | 226.1 ± 6.4 | 15 |
| | 10 - 13 | 77.8 ± 2.5 ** | 252.1 ± 9.3 ** | 15 | 77.1 ± 1.8 | 251.8 ± 5.6 | 16 | 76.9 ± 2.5 | 249.8 ± 7.3 | 15 |
| | 1 - 13 | 62.7 ± 2.0 ** | 210.6 ± 7.4 ** | 15 | 61.9 ± 1.0 | 208.0 ± 3.5 | 16 | 63.0 ± 1.9 | 211.8 ± 5.7 | 15 |

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Date Report Requested: 08/04/2021

Time Report Requested: 05:58:38

Lab: Battelle

F0 Females

Treatment Groups (mg/L)

| Phase | Days | 83.8 | | | 168 | | | 335 | | |
|-----------|---------|----------------------|------------------|----|----------------------|------------------|----|----------------------|------------------|----|
| | | Wt (g/animal/day) | Wt (g/kg/day) | N | Wt (g/animal/day) | Wt (g/kg/day) | N | Wt (g/animal/day) | Wt (g/kg/day) | N |
| Gestation | 6 - 9 | 31.5 ± 1.3 | 125.6 ± 4.5 | 16 | 26.3 ± 0.9 ** | 105.4 ± 3.1 ** | 14 | 21.8 ± 1.0 ** | 87.5 ± 3.6 ** | 16 |
| | 9 - 12 | 34.2 ± 1.7 * | 129.2 ± 5.6 * | 16 | 28.0 ± 0.9 ** | 106.2 ± 3.1 ** | 15 | 23.3 ± 0.8 ** | 90.2 ± 2.9 ** | 16 |
| | 12 - 15 | 33.2 ± 1.3 ** | 118.2 ± 4.0 ** | 16 | 27.6 ± 1.0 ** | 98.9 ± 3.5 ** | 15 | 22.5 ± 0.9 ** | 82.2 ± 3.0 ** | 16 |
| | 15 - 18 | 44.2 ± 2.1 ** | 143.2 ± 6.0 ** | 16 | 39.6 ± 1.4 ** | 129.1 ± 4.2 ** | 15 | 33.9 ± 1.0 ** | 112.6 ± 2.9 ** | 16 |
| | 18 - 21 | 42.0 ± 1.7 ** | 120.1 ± 4.4 ** | 16 | 37.7 ± 1.5 ** | 108.1 ± 4.2 ** | 15 | 32.9 ± 1.1 ** | 96.6 ± 2.6 ** | 16 |
| | 6 - 21 | 37.0 ± 1.5 ** | 126.0 ± 4.5 ** | 16 | 31.9 ± 1.0 ** | 108.9 ± 3.1 ** | 15 | 26.9 ± 0.9 ** | 93.5 ± 2.6 ** | 16 |
| Lactation | 1 - 4 | 45.5 ± 1.9 ** | 163.1 ± 5.6 * | 16 | 46.2 ± 1.6 * | 165.5 ± 5.1 * | 15 | 42.6 ± 1.4 ** | 157.0 ± 5.2 ** | 15 |
| | 4 - 7 | 56.1 ± 1.5 | 193.5 ± 4.1 | 15 | 51.4 ± 1.7 | 177.5 ± 5.3 | 15 | 48.4 ± 1.3 * | 171.6 ± 3.8 | 15 |
| | 7 - 10 | 69.8 ± 2.4 | 231.7 ± 6.5 | 15 | 63.0 ± 1.9 | 210.8 ± 5.8 | 15 | 58.7 ± 1.5 | 200.2 ± 4.7 | 15 |
| | 10 - 13 | 76.6 ± 2.5 | 247.7 ± 6.6 | 15 | 69.0 ± 2.6 * | 227.2 ± 8.3 | 15 | 64.9 ± 1.9 ** | 214.9 ± 4.9 ** | 15 |
| | 1 - 13 | 62.3 ± 1.8 | 211.1 ± 4.6 | 15 | 57.4 ± 1.8 | 196.5 ± 5.5 | 15 | 53.8 ± 1.3 ** | 187.3 ± 3.9 ** | 15 |

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I07: Mean Water Consumption

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Lab: Battelle

F1 Males: All F1 Animals

Treatment Groups (mg/L)

| Phase | Days | 0 | | | 21 | | | 41.9 | | |
|-----------|---------------|----------------------|------------------|------------|----------------------|------------------|------------|----------------------|------------------|----|
| | | Wt (g/animal/day) | Wt (g/kg/day) | N | Wt (g/animal/day) | Wt (g/kg/day) | N | Wt (g/animal/day) | Wt (g/kg/day) | N |
| Postnatal | 28 - 35 | 18.8 ± 1.3 | 168.1 ± 7.7 | 9 | 16.9 ± 1.1 | 151.5 ± 9.4 | 9 | 18.5 ± 0.8 | 163.2 ± 6.1 | 10 |
| | 35 - 42 | 27.7 ± 1.7 ** | 178.5 ± 6.1 ** | 9 | 27.3 ± 1.4 | 178.1 ± 7.7 | 9 | 27.7 ± 0.9 | 176.3 ± 5.7 | 10 |
| | 42 - 49 | 32.3 ± 1.7 ** | 160.1 ± 4.7 ** | 9 | 31.8 ± 1.6 | 157.7 ± 6.7 | 9 | 31.1 ± 0.9 | 151.2 ± 4.9 | 10 |
| | 49 - 56 | 33.9 ± 1.6 ** | 137.5 ± 4.2 ** | 9 | 33.0 ± 1.3 | 132.4 ± 5.1 | 9 | 32.8 ± 0.9 | 129.5 ± 3.9 | 10 |
| | 56 - 63 | 32.5 ± 1.4 ** | 112.3 ± 3.3 ** | 9 | 30.8 ± 0.8 | 104.9 ± 2.6 | 9 | 31.0 ± 0.9 | 104.2 ± 3.1 | 10 |
| | 63 - 70 | 31.6 ± 1.3 ** | 96.8 ± 2.3 ** | 9 | 29.8 ± 0.9 | 90.0 ± 2.6 | 9 | 30.3 ± 1.3 | 90.8 ± 3.7 | 10 |
| | 70 - 77 | 30.4 ± 1.1 ** | 86.0 ± 2.0 ** | 9 | 29.8 ± 0.9 | 83.0 ± 2.1 | 9 | 29.1 ± 1.0 | 80.6 ± 2.6 | 10 |
| | 77 - 84 | 30.8 ± 1.3 ** | 82.0 ± 2.4 ** | 9 | 29.0 ± 1.0 | 75.8 ± 2.6 | 9 | 28.8 ± 0.6 | 75.4 ± 1.8 | 10 |
| | 84 - 91 | 28.7 ± 1.1 ** | 73.0 ± 2.3 ** | 9 | 28.6 ± 1.0 | 71.2 ± 2.3 | 9 | 26.8 ± 1.0 | 67.0 ± 2.4 * | 10 |
| | 91 - 98 | 27.9 ± 1.5 ** | 68.4 ± 2.5 ** | 9 | 27.0 ± 0.8 | 65.3 ± 2.0 | 9 | 26.3 ± 0.9 | 63.2 ± 1.9 | 10 |
| | 98 - 105 | 28.0 ± 1.6 ** | 66.5 ± 3.0 ** | 9 | 26.7 ± 1.0 | 62.3 ± 1.8 | 9 | 25.4 ± 1.0 | 59.2 ± 2.2 | 10 |
| | 105 - 112 | 27.1 ± 1.4 ** | 63.0 ± 2.7 ** | 9 | 26.2 ± 0.9 | 58.5 ± 1.9 | 9 | 25.4 ± 0.8 | 57.9 ± 1.8 | 10 |
| 28 - 112 | 29.1 ± 1.3 ** | 95.2 ± 2.8 ** | 9 | 28.1 ± 0.9 | 90.3 ± 2.8 | 9 | 27.8 ± 0.6 | 89.0 ± 1.8 | 10 | |

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Lab: Battelle

F1 Males: All F1 Animals

Treatment Groups (mg/L)

| Phase | Days | 83.8 | | | 168 | | | 335 | | |
|-----------|------------|----------------------|------------------|---------------|----------------------|------------------|---------------|----------------------|------------------|---|
| | | Wt (g/animal/day) | Wt (g/kg/day) | N | Wt (g/animal/day) | Wt (g/kg/day) | N | Wt (g/animal/day) | Wt (g/kg/day) | N |
| Postnatal | 28 - 35 | 18.8 ± 1.7 | 160.6 ± 10.4 | 9 | 17.7 ± 0.5 | 162.3 ± 3.0 | 11 | 15.3 ± 0.4 | 143.4 ± 3.0 * | 9 |
| | 35 - 42 | 27.5 ± 2.4 | 171.5 ± 9.9 | 10 | 25.7 ± 0.9 | 169.4 ± 4.9 | 11 | 21.8 ± 0.6 ** | 150.1 ± 2.4 ** | 9 |
| | 42 - 49 | 31.2 ± 1.9 | 149.8 ± 5.8 | 10 | 29.1 ± 0.9 | 146.9 ± 3.6 | 11 | 24.3 ± 0.8 ** | 129.1 ± 2.5 ** | 9 |
| | 49 - 56 | 31.5 ± 1.4 | 123.5 ± 3.7 * | 10 | 28.7 ± 0.9 * | 118.1 ± 2.8 ** | 11 | 26.1 ± 0.8 ** | 112.4 ± 2.7 ** | 9 |
| | 56 - 63 | 29.9 ± 1.5 | 100.0 ± 3.4 * | 10 | 28.2 ± 1.0 * | 98.9 ± 3.1 ** | 11 | 25.1 ± 0.8 ** | 91.4 ± 2.4 ** | 9 |
| | 63 - 70 | 29.2 ± 1.2 | 87.1 ± 2.2 * | 10 | 26.2 ± 0.8 ** | 82.2 ± 2.0 ** | 11 | 23.9 ± 0.7 ** | 76.9 ± 1.5 ** | 9 |
| | 70 - 77 | 28.4 ± 1.3 | 78.2 ± 2.4 * | 10 | 25.0 ± 0.8 ** | 72.6 ± 1.6 ** | 11 | 22.7 ± 0.7 ** | 67.6 ± 1.3 ** | 9 |
| | 77 - 84 | 27.6 ± 1.1 | 71.8 ± 2.1 ** | 10 | 24.9 ± 0.7 ** | 68.0 ± 1.5 ** | 11 | 22.6 ± 0.6 ** | 63.4 ± 1.1 ** | 9 |
| | 84 - 91 | 26.6 ± 1.0 | 66.0 ± 1.9 * | 10 | 23.8 ± 0.6 ** | 62.4 ± 1.4 ** | 11 | 21.4 ± 0.4 ** | 57.5 ± 1.0 ** | 9 |
| | 91 - 98 | 25.6 ± 1.7 | 60.6 ± 3.3 * | 10 | 23.0 ± 0.7 ** | 57.6 ± 1.4 ** | 11 | 21.0 ± 0.5 ** | 54.0 ± 1.0 ** | 9 |
| | 98 - 105 | 24.6 ± 1.0 | 55.9 ± 1.7 ** | 10 | 22.1 ± 0.6 ** | 53.9 ± 1.2 ** | 11 | 19.1 ± 0.3 ** | 47.4 ± 0.7 ** | 9 |
| | 105 - 112 | 24.8 ± 1.1 | 55.1 ± 2.0 * | 10 | 21.8 ± 0.6 ** | 52.0 ± 1.3 ** | 11 | 19.5 ± 0.4 ** | 47.3 ± 0.5 ** | 9 |
| 28 - 112 | 27.1 ± 1.4 | 85.8 ± 2.8 * | 10 | 24.7 ± 0.7 ** | 82.7 ± 1.8 ** | 11 | 21.9 ± 0.5 ** | 75.3 ± 0.8 ** | 9 | |

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I07: Mean Water Consumption

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Lab: Battelle

F1 Females: All F1 Animals

Treatment Groups (mg/L)

| Phase | Days | 0 | | | 21 | | | 41.9 | | |
|-----------|--------------|----------------------|------------------|------------|----------------------|------------------|------------|----------------------|------------------|---|
| | | Wt (g/animal/day) | Wt (g/kg/day) | N | Wt (g/animal/day) | Wt (g/kg/day) | N | Wt (g/animal/day) | Wt (g/kg/day) | N |
| Postnatal | 28 - 35 | 16.1 ± 1.6 | 159.3 ± 10.4 | 6 | 15.7 ± 0.9 | 158.9 ± 11.3 | 6 | 17.4 ± 0.7 | 172.1 ± 7.7 | 9 |
| | 35 - 42 | 24.1 ± 2.4 | 183.0 ± 12.6 | 6 | 22.3 ± 1.1 | 172.8 ± 7.1 | 6 | 23.6 ± 1.5 | 173.8 ± 8.8 | 9 |
| | 42 - 49 | 26.5 ± 2.0 | 166.4 ± 11.2 | 6 | 21.5 ± 0.5 | 137.9 ± 6.5 | 6 | 23.5 ± 0.9 | 142.5 ± 3.8 | 9 |
| | 49 - 56 | 25.4 ± 2.2 * | 138.6 ± 11.5 | 6 | 22.0 ± 0.9 | 122.1 ± 6.5 | 6 | 23.4 ± 1.3 | 124.4 ± 4.8 | 9 |
| | 56 - 63 | 24.2 ± 2.4 | 118.8 ± 10.6 | 6 | 19.4 ± 0.6 | 97.9 ± 5.4 | 6 | 22.4 ± 0.9 | 107.5 ± 2.6 | 9 |
| | 63 - 70 | 24.8 ± 2.8 | 113.5 ± 12.6 * | 6 | 20.9 ± 0.6 | 98.4 ± 5.8 | 6 | 23.9 ± 1.3 | 106.4 ± 4.4 | 9 |
| | 70 - 77 | 25.1 ± 2.4 * | 108.1 ± 10.1 * | 6 | 21.0 ± 0.6 | 93.0 ± 4.8 | 6 | 23.4 ± 1.1 | 97.9 ± 3.1 | 9 |
| | 77 - 84 | 25.8 ± 2.6 * | 105.6 ± 10.4 * | 6 | 19.8 ± 0.6 | 84.1 ± 5.2 | 6 | 24.2 ± 1.4 | 96.1 ± 4.5 | 9 |
| | 84 - 91 | 24.0 ± 2.9 * | 95.5 ± 11.4 ** | 6 | 20.1 ± 0.9 | 81.7 ± 4.8 | 6 | 22.1 ± 1.3 | 85.0 ± 3.1 | 9 |
| | 91 - 98 | 26.4 ± 3.3 * | 101.8 ± 11.9 * | 6 | 19.8 ± 1.0 | 78.0 ± 4.2 | 6 | 23.4 ± 1.1 | 88.3 ± 4.8 | 9 |
| | 98 - 105 | 24.9 ± 3.1 ** | 93.4 ± 11.1 ** | 6 | 18.5 ± 0.5 | 71.7 ± 3.6 | 6 | 22.5 ± 1.5 | 81.8 ± 3.6 | 9 |
| | 105 - 112 | 24.4 ± 3.1 * | 90.6 ± 10.6 * | 6 | 18.9 ± 1.5 | 72.8 ± 8.1 | 6 | 22.7 ± 1.6 | 81.2 ± 4.1 | 9 |
| 28 - 112 | 24.3 ± 2.5 * | 117.1 ± 10.9 * | 6 | 20.0 ± 0.4 | 98.9 ± 5.1 | 6 | 22.7 ± 1.0 | 106.3 ± 3.1 | 9 | |

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F1 Females: All F1 Animals

Treatment Groups (mg/L)

| Phase | Days | 83.8 | | | 168 | | | 335 | | |
|-----------|------------|----------------------|------------------|------------|----------------------|------------------|--------------|----------------------|------------------|---|
| | | Wt (g/animal/day) | Wt (g/kg/day) | N | Wt (g/animal/day) | Wt (g/kg/day) | N | Wt (g/animal/day) | Wt (g/kg/day) | N |
| Postnatal | 28 - 35 | 17.6 ± 1.1 | 172.2 ± 8.9 | 8 | 15.6 ± 1.0 | 164.2 ± 6.9 | 8 | 13.7 ± 0.6 | 150.3 ± 7.4 | 7 |
| | 35 - 42 | 25.0 ± 1.5 | 188.3 ± 9.7 | 8 | 22.2 ± 1.1 | 176.2 ± 9.3 | 8 | 18.3 ± 0.9 | 155.2 ± 7.0 | 7 |
| | 42 - 49 | 24.7 ± 1.4 | 151.9 ± 6.7 | 8 | 24.4 ± 0.9 | 156.3 ± 5.0 | 8 | 20.3 ± 0.6 ** | 138.7 ± 5.1 | 7 |
| | 49 - 56 | 23.1 ± 1.1 | 125.7 ± 5.0 | 8 | 23.3 ± 1.2 | 128.5 ± 5.7 | 8 | 19.8 ± 0.5 * | 115.8 ± 3.4 | 7 |
| | 56 - 63 | 21.9 ± 0.9 | 107.9 ± 3.6 | 8 | 21.3 ± 1.1 | 104.4 ± 4.2 | 8 | 18.1 ± 0.9 | 93.8 ± 4.1 | 7 |
| | 63 - 70 | 23.0 ± 1.0 | 106.2 ± 4.1 | 8 | 21.2 ± 1.0 | 96.3 ± 3.8 | 8 | 18.4 ± 0.9 | 87.4 ± 3.3 | 7 |
| | 70 - 77 | 23.0 ± 1.4 | 100.4 ± 5.2 | 8 | 22.6 ± 0.9 | 96.9 ± 3.2 | 8 | 17.6 ± 0.7 * | 78.7 ± 2.4 ** | 7 |
| | 77 - 84 | 23.3 ± 1.5 | 96.0 ± 4.5 | 8 | 20.8 ± 1.0 | 85.5 ± 3.2 | 8 | 18.5 ± 0.9 * | 78.6 ± 3.6 * | 7 |
| | 84 - 91 | 22.2 ± 1.1 | 89.1 ± 4.4 | 8 | 19.9 ± 1.1 | 78.9 ± 3.2 | 8 | 17.3 ± 0.8 | 70.4 ± 2.6 * | 7 |
| | 91 - 98 | 22.8 ± 1.8 | 89.6 ± 7.3 | 8 | 20.3 ± 1.1 | 78.4 ± 4.0 | 8 | 18.7 ± 0.8 * | 73.6 ± 2.6 | 7 |
| | 98 - 105 | 21.8 ± 1.3 | 83.6 ± 5.1 | 8 | 19.6 ± 1.1 | 73.5 ± 2.7 | 8 | 15.9 ± 0.6 ** | 61.5 ± 1.9 ** | 7 |
| | 105 - 112 | 23.4 ± 2.1 | 87.6 ± 7.5 | 8 | 20.6 ± 1.4 | 75.4 ± 4.1 | 8 | 16.3 ± 0.9 * | 61.2 ± 3.0 * | 7 |
| 28 - 112 | 22.6 ± 1.1 | 109.8 ± 5.2 | 8 | 21.0 ± 0.9 | 101.5 ± 3.6 | 8 | 17.8 ± 0.7 * | 89.1 ± 2.8 * | 7 | |

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LEGEND

Reported as the mean \pm SEM. N is the number of animals, or number of cages for group housed adult animals.

Water consumption values were excluded when excessive spillage was recorded.

For post-weaning F1 animals, All F1 Animals includes F1 Core and F1 Biosampling animals.

Statistical analysis was performed by 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 $P \leq 0.01$

Consumption is not reported for the non-pregnant animals during gestation and lactation phases

Consumption is not reported for animals during mating

**** END OF REPORT ****