

Study Number: C08004-03

Test Type: TOX

Route: Dosing in Water

Species/Strain: Rat/Harlan Sprague Dawley

R03: Summary of Litter Data

Test Compound: Vanadyl sulfate

CAS Number: 27774-13-6

Date Report Requested: 08/04/2021

Time Report Requested: 11:44:46

Lab: Battelle

Study Number:

C08004-03

Study Gender:

Both

PWG Approval Date:

See web page for date of PWG Approval

Version:

v1.2.9

Stat Version:

S

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F1 Pups from F0 Females

| | Treatment Groups (mg/L) | | | | | |
|-----------------------|-------------------------|------------------|--------------------|--------------------|---------------------|---------------------|
| | 0 | 21 | 41.9 | 83.8 | 168 | 335 |
| No. F0 Dams | | | | | | |
| PND 0 | 15 | 16 | 16 | 16 | 15 | 15 |
| Total No. Pups | | | | | | |
| PND 0 | 217 | 230 | 222 | 208 | 206 | 195 |
| Total Pups per Litter | | | | | | |
| PND 0 | 14.5 ± 0.4 (15) | 14.4 ± 0.5 (16) | 13.9 ± 0.9 (16) | 13.0 ± 0.7 (16) | 13.7 ± 0.7 (15) | 13.0 ± 0.8 (15) |
| Total No. Live | | | | | | |
| PND 0 | 213 | 222 | 209 | 188 | 199 | 192 |
| Live per Litter | | | | | | |
| PND 0 | 14.2 ± 0.4 (15) | 13.9 ± 0.5 (16) | 13.1 ± 0.8 (16) | 11.8 ± 0.8 (16) * | 13.3 ± 0.8 (15) | 12.8 ± 0.7 (15) |
| PND 1 | 14.2 ± 0.4 (15) | 13.8 ± 0.5 (16) | 12.9 ± 0.8 (16) | 11.5 ± 0.9 (16) * | 13.1 ± 0.8 (15) | 12.8 ± 0.7 (15) |
| PND 4 | 14.1 ± 0.4 (15) | 13.8 ± 0.5 (16) | 12.8 ± 0.7 (16) | 11.4 ± 0.8 (16) * | 13.1 ± 0.8 (15) | 12.7 ± 0.7 (15) |
| PND 4 post-cull | 8.0 ± 0.0 (15) | 8.0 ± 0.0 (16) | 7.8 ± 0.3 (16) | 7.6 ± 0.3 (16) | 7.8 ± 0.2 (15) | 7.9 ± 0.1 (15) |
| PND 7 | 7.9 ± 0.1 (15) | 7.9 ± 0.1 (16) | 8.0 ± 0.0 (15) | 7.9 ± 0.1 (15) | 7.8 ± 0.2 (15) | 7.9 ± 0.1 (15) |
| PND 10 | 7.8 ± 0.1 (15) | 7.9 ± 0.1 (16) | 8.0 ± 0.0 (15) | 7.9 ± 0.1 (15) | 7.8 ± 0.2 (15) | 7.9 ± 0.1 (15) |
| PND 13 | 7.7 ± 0.2 (15) | 7.9 ± 0.1 (16) | 8.0 ± 0.0 (15) | 7.9 ± 0.1 (15) | 7.8 ± 0.2 (15) | 7.9 ± 0.1 (15) |
| PND 16 | 7.7 ± 0.2 (15) | 7.9 ± 0.1 (16) | 8.0 ± 0.0 (15) | 7.9 ± 0.1 (15) | 7.8 ± 0.2 (15) | 7.9 ± 0.1 (15) |
| PND 19 | 7.7 ± 0.2 (15) | 7.9 ± 0.1 (16) | 8.0 ± 0.0 (15) | 7.9 ± 0.1 (15) | 7.8 ± 0.2 (15) | 7.9 ± 0.1 (15) |
| PND 21 | 7.7 ± 0.2 (15) | 7.9 ± 0.1 (16) | 8.0 ± 0.0 (15) | 7.9 ± 0.1 (14) | 7.8 ± 0.2 (15) | 7.9 ± 0.1 (15) |
| PND 25 | 7.7 ± 0.2 (15) | 7.9 ± 0.1 (16) | 8.0 ± 0.0 (15) | 7.9 ± 0.1 (14) | 7.8 ± 0.2 (15) | 7.9 ± 0.1 (15) |
| PND 28 | 7.7 ± 0.2 (15) | 7.9 ± 0.1 (16) | 8.0 ± 0.0 (15) | 7.9 ± 0.1 (14) | 7.8 ± 0.2 (15) | 7.9 ± 0.1 (15) |
| Dead per Litter | | | | | | |
| PND 0 | 0.27 ± 0.12 (15) | 0.50 ± 0.20 (16) | 0.81 ± 0.34 (16) | 1.25 ± 0.68 (16) | 0.47 ± 0.27 (15) | 0.20 ± 0.14 (15) |
| PND 1 - 4 | 0.07 ± 0.07 (15) | 0.06 ± 0.06 (16) | 0.31 ± 0.15 (16) | 0.31 ± 0.15 (16) | 0.13 ± 0.13 (15) | 0.07 ± 0.07 (15) |
| PND 5 - 28 | 0.33 ± 0.16 (15) ** | 0.06 ± 0.06 (16) | 0.00 ± 0.00 (15) * | 0.00 ± 0.00 (14) * | 0.00 ± 0.00 (15) ** | 0.00 ± 0.00 (15) ** |
| Number of Dead | | | | | | |
| PND 0 | 4 (4) | 8 (5) | 13 (6) | 20 (7) | 7 (4) | 3 (2) |

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| | Treatment Groups (mg/L) | | | | | |
|-----------------------------|-------------------------|-------------------|--------------------|--------------------|---------------------|---------------------|
| | 0 | 21 | 41.9 | 83.8 | 168 | 335 |
| PND 1 - 4 | 1 (1) | 1 (1) | 5 (4) | 5 (4) | 2 (1) | 1 (1) |
| PND 5 - 28 | 5 (4) | 1 (1) | 0 (0) | 0 (0) | 0 (0) | 0 (0) |
| % Live Male Pups per Litter | | | | | | |
| PND 0 | 45.83 ± 3.23 (15) | 50.20 ± 3.21 (16) | 49.74 ± 4.86 (16) | 45.06 ± 4.44 (16) | 51.22 ± 4.41 (15) | 50.19 ± 4.09 (15) |
| Survival Ratio | | | | | | |
| PND 0 | 0.98 ± 0.01 (15) | 0.97 ± 0.01 (16) | 0.95 ± 0.02 (16) | 0.92 ± 0.04 (16) | 0.97 ± 0.02 (15) | 0.99 ± 0.01 (15) |
| PND 1 - 4 | 1.00 ± 0.00 (15) | 0.99 ± 0.01 (16) | 0.98 ± 0.01 (16) | 0.96 ± 0.03 (16) | 0.99 ± 0.01 (15) | 1.00 ± 0.00 (15) |
| PND 5 - 28 | 0.96 ± 0.02 (15) ** | 0.99 ± 0.01 (16) | 1.00 ± 0.00 (15) * | 1.00 ± 0.00 (14) * | 1.00 ± 0.00 (15) ** | 1.00 ± 0.00 (15) ** |

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LEGEND

Total No. of Pups and Total Pups per Litter is inclusive of nonviable pups.

For the endpoints of Total Pups per Litter, Live per Litter, Dead per Litter, % Live Male Pups per Litter, and Survival Ratio for the F1 pups, data are displayed as the mean of litter values \pm SEM of litter values (number of litters produced by F0 dams).

For Number of Dead, N is displayed as the number of pups (number of litters contributing dead pups).

All calculations are based on the last litter observation of the day

Survival ratio on PND 0 is live pup count at the last PND 0 litter observation relative to the total number of pups upon completion of parturition.

Total Pups per Litter, Live per Litter, Dead per Litter, % Live Male Pups per Litter, and Survival Ratio endpoints were analyzed using Jonckheere's test for trend and Shirley's or Dunn's methods for pairwise comparison of controls to dose groups.

No trend or pairwise tests were conducted on the Total Number of Pups, Total Number of Live, or Number of Dead endpoints.

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 $P \leq 0.01$

**** END OF REPORT ****