

Study Number: R16011

Test Type: Teratology

Route: Oral Gavage

Species/Strain: Rat/Harlan Sprague Dawley

C Number:

Study Gender:

PWG Approval Date

R09: Uterine Content Summary

Test Compound: 2-((1-(4-Phenoxyphenoxy)propan-2-yl)oxy)pyridine

CAS Number: 95737-68-1

R16011

Female

See web page for date of PWG Approval

Date Report Requested: 10/22/2019

Time Report Requested: 11:06:28

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F0 Females

Treatment Groups (mg/kg/day)

	0	62.5	125	250	500
Pregnancy Summary (a)					
Mated Females	25	25	25	25	25
Pregnant Females	23	20	22	20	23
Pregnant Females Examined on GD 21	23	20	22	20	22
Pre-implantation Loss (b)					
Corpora lutea per Female	17.65 ± 0.70 (23)	17.30 ± 0.54 (20)	16.95 ± 0.53 (21)	17.65 ± 0.73 (20)	18.27 ± 0.72 (22)
Implantations per Female	14.70 ± 0.68 (23)	14.85 ± 0.53 (20)	13.59 ± 0.88 (22)	13.85 ± 0.75 (20)	14.91 ± 0.57 (22)
Percent Pre-Implantation Loss	14.42 ± 4.10 (23)	13.08 ± 3.29 (20)	14.93 ± 4.21 (22)	20.02 ± 4.72 (20)	16.65 ± 3.35 (22)
Intra-uterine Deaths (c)					
Number of Early Resorptions	23	9	9	11	8
Early Resorptions per Litter	1.00 ± 0.25 (23)	0.45 ± 0.14 (20)	0.41 ± 0.13 (22)	0.55 ± 0.14 (20)	0.36 ± 0.14 (22)
Number of Late Resorptions	1	1	0	1	2
Late Resorptions per Litter	0.04 ± 0.04 (23)	0.05 ± 0.05 (20)	0.00 ± 0.00 (22)	0.05 ± 0.05 (20)	0.09 ± 0.06 (22)
Total Resorptions per Litter	1.04 ± 0.26 (23)	0.50 ± 0.15 (20)	0.41 ± 0.13 (22)	0.60 ± 0.13 (20)	0.45 ± 0.16 (22)
Whole Litter Resorptions	0	0	1	0	0
Number of Dead Fetuses	0	1	0	0	0
Dead Fetuses per Litter	0.00 ± 0.00 (23)	0.05 ± 0.05 (20)	0.00 ± 0.00 (22)	0.00 ± 0.00 (20)	0.00 ± 0.00 (22)
Percent Post-Implantation Loss	6.90 ± 1.74 (23)	3.80 ± 1.09 (20)	8.58 ± 4.91 (22)	4.22 ± 1.10 (20)	3.10 ± 1.11 (22)
Live Fetuses (b)					
Number of Live Fetuses	314	286	290	265	318
Live Fetuses per Litter	13.65 ± 0.68 (23)	14.30 ± 0.55 (20)	13.81 ± 0.74 (21)	13.25 ± 0.73 (20)	14.45 ± 0.58 (22)
Live Male Fetuses per Litter	7.35 ± 0.44 (23)	7.25 ± 0.56 (20)	6.71 ± 0.48 (21)	6.55 ± 0.54 (20)	7.45 ± 0.46 (22)
Live Female Fetuses per Litter	6.30 ± 0.56 (23)	7.05 ± 0.48 (20)	7.45 ± 0.41 (20)	6.70 ± 0.60 (20)	7.00 ± 0.52 (22)
Percent Live Male Fetuses per Litter	55.12 ± 2.77 (23)	49.97 ± 3.41 (20)	50.80 ± 3.53 (21)	49.87 ± 3.37 (20)	52.27 ± 2.70 (22)

Fetal Weight (d)

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F0 Females

Treatment Groups (mg/kg/day)

	0	62.5	125	250	500
Fetal Weight per Litter (g)	5.35 ± 0.05 (23) *	5.33 ± 0.05 (20)	5.43 ± 0.13 (21)	5.26 ± 0.06 (20)	5.17 ± 0.06 (22)
Male Fetal Weight per Litter (g)	5.47 ± 0.06 (23) *	5.47 ± 0.05 (20)	5.58 ± 0.12 (21)	5.39 ± 0.06 (20)	5.29 ± 0.06 (22)
Female Fetal Weight per Litter (g)	5.21 ± 0.05 (23) *	5.19 ± 0.06 (20)	5.17 ± 0.04 (20)	5.13 ± 0.06 (20)	5.02 ± 0.06 (22) *
Fetal Weight (adjusted) (e)					
Fetal Weight per Litter (g)	5.34 ± 0.05 (23)	5.35 ± 0.04 (20)	5.43 ± 0.09 (21)	5.22 ± 0.07 (20)	5.20 ± 0.07 (22)
Male Fetal Weight per Litter (g)	5.46 ± 0.06 (23)	5.49 ± 0.04 (20)	5.58 ± 0.09 (21)	5.36 ± 0.06 (20)	5.33 ± 0.07 (22)
Female Fetal Weight per Litter (g)	5.20 ± 0.05 (23) *	5.20 ± 0.05 (20)	5.18 ± 0.03 (20)	5.11 ± 0.06 (20)	5.03 ± 0.06 (22)
Gravid Uterus Weight (f)					
Gravid Uterus Weight (g)	98.91 ± 4.44 (23)	103.39 ± 3.26 (20)	99.80 ± 4.97 (21)	94.33 ± 4.80 (20)	102.13 ± 3.75 (22)
Terminal Body Weight (g)	387.8 ± 5.1 (23)	390.3 ± 4.1 (20)	383.7 ± 5.6 (21)	379.8 ± 6.0 (20)	386.5 ± 5.4 (22)
Adjusted Body Weight (g)	288.89 ± 3.42 (23)	286.94 ± 2.89 (20)	283.88 ± 3.33 (21)	285.47 ± 3.14 (20)	284.38 ± 2.71 (22)

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LEGEND

Values are reported per litter as mean \pm SEM (N)

Calculated values do not include non-pregnant animals, those that did not survive to terminal sacrifice, or those that delivered prior to c-section being performed.

Fetal weight endpoints and percent live male fetuses endpoints are the mean values of the litter means.

Dams that had whole litter resorptions are not included in the litter analysis.

Unsexed fetuses were included for litter size calculations but were excluded from fetal weight calculations and from the percent male calculation.

Dams where the number of implants was greater than the number of corpora lutea were assigned a percent pre-implantation loss of 0.

* Statistically significant at $P \leq 0.05$

** Statistically significant at $P \leq 0.01$

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

(a) Statistical analysis performed by Cochran-Armitage (trend) and Fisher Exact (pairwise) tests.

(b) Statistical analysis performed by Jonckheere (trend) and Shirley or Dunn (pairwise) tests.

(c) Whole litter resorptions analyzed by Cochran-Armitage (trend) and Fisher Exact (pairwise) tests. All "per litter" and implantation loss endpoints analyzed by Jonckheere (trend) and Shirley or Dunn (pairwise) tests.

(d) Statistical analysis performed by Jonckheere (trend) and Williams or Dunnett (pairwise) tests.

(e) Litter weights adjusted for litter size. Statistical analysis performed by Jonckheere (trend) and Williams or Dunnett (pairwise) tests.

(f) Statistical analysis performed by Jonckheere (trend) and Williams or Dunnett (pairwise) tests.

All Cochran-Armitage (trend) and Fisher Exact (pairwise) are reported as two-sided tests.

**** END OF REPORT ****