

Experiment Number: R12103
Test Type: Teratology - Range Finding
Route: Oral Gavage
Species/Strain: Rat/Harlan Sprague Dawley

R09: Uterine Content Summary

Test Compound: Vinpocetine
CAS Number: 42971-09-5

Date Report Requested: 12/16/2016

Time Report Requested: 07:23:28

Lab: Southern Research

C Number: R12103
Cage Range: All
Date Range: All
Reasons For Removal: All
Removal Date Range: All
Treatment Groups: All
Study Gender: Female

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	Female					
	Treatment Groups (mg/kg/day)					
	0	20	40	80	160	320
Pregnancy Summary (a)						
Paired Females	10	10	10	10	10	10
Mated Females	10	10	10	10	10	10
Pregnant Females	8	10	8	10	10	9
Pregnant Females Examined on GD 21	8	10	8	10	10	9
Pre-implantation Loss (b)						
Corpora lutea per Female	15.63 ± 0.50 (8)	16.20 ± 0.49 (10)	17.25 ± 1.08 (8)	16.50 ± 0.70 (10)	17.00 ± 0.54 (10)	15.44 ± 0.50 (9)
Implantations per Female	14.38 ± 0.42 (8)	14.10 ± 0.74 (10)	14.00 ± 0.65 (8)	13.40 ± 1.19 (10)	14.50 ± 0.76 (10)	14.56 ± 0.73 (9)
Percent Pre-Implantation Loss	8.66 ± 1.69 (8)	12.87 ± 3.95 (10)	17.32 ± 5.03 (8)	17.16 ± 8.15 (10)	14.66 ± 3.67 (10)	5.95 ± 2.84 (9)
Intra-uterine Deaths (c)						
Number of Early Resorptions	6	26	31	134	133	131
Early Resorptions per Litter	0.75 ± 0.25 (8) **	2.60 ± 1.65 (10)	3.88 ± 1.79 (8)	13.40 ± 1.19 (10) **	13.30 ± 1.56 (10) **	14.56 ± 0.73 (9) **
Number of Late Resorptions	0	0	0	0	0	0
Late Resorptions per Litter	0.00 ± 0.00 (8)	0.00 ± 0.00 (10)	0.00 ± 0.00 (8)	0.00 ± 0.00 (10)	0.00 ± 0.00 (10)	0.00 ± 0.00 (9)
Total Resorptions per Litter	0.75 ± 0.25 (8) **	2.60 ± 1.65 (10)	3.88 ± 1.79 (8)	13.40 ± 1.19 (10) **	13.30 ± 1.56 (10) **	14.56 ± 0.73 (9) **
Whole Litter Resorptions	0 **	1	1	10 **	9 **	9 **
Number of Dead Fetuses	0	0	0	0	0	0
Dead Fetuses per Litter	0.00 ± 0.00 (8)	0.00 ± 0.00 (10)	0.00 ± 0.00 (8)	0.00 ± 0.00 (10)	0.00 ± 0.00 (10)	0.00 ± 0.00 (9)
Percent Post-Implantation Loss	5.30 ± 1.78 (8) **	18.41 ± 11.70 (10)	27.55 ± 12.35 (8)	100.00 ± 0.00 (10) **	90.77 ± 9.23 (10) **	100.00 ± 0.00 (9) **
Live Fetuses (b)						
Number of Live Fetuses	109	115	81	0	12	0
Live Fetuses per Litter	13.63 ± 0.53 (8) **	11.50 ± 1.78 (10)	10.13 ± 1.85 (8)	0.00 ± 0.00 (10) **	1.20 ± 1.20 (10) **	0.00 ± 0.00 (9) **
Live Male Fetuses per Litter	5.88 ± 0.55 (8) **	5.70 ± 0.96 (10)	6.13 ± 1.08 (8)	0.00 ± 0.00 (10) **	0.40 ± 0.40 (10) **	0.00 ± 0.00 (9) **
Live Female Fetuses per Litter	7.75 ± 0.73 (8) **	5.80 ± 1.04 (10)	4.00 ± 1.16 (8) *	0.00 ± 0.00 (10) **	0.80 ± 0.80 (10) **	0.00 ± 0.00 (9) **
Percent Live Male Fetuses per Litter	43.35 ± 4.01 (8)	48.83 ± 4.82 (9)	64.60 ± 7.92 (7)		33.33 (1)	

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	Treatment Groups (mg/kg/day)					
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Fetal Weight (d)						
Fetal Weight per Litter (g)	5.18 ± 0.07 (8)	5.26 ± 0.16 (9)	5.06 ± 0.16 (7)		4.98 (1)	
Male Fetal Weight per Litter (g)	5.33 ± 0.07 (8)	5.41 ± 0.16 (9)	5.16 ± 0.16 (7)		5.06 (1)	
Female Fetal Weight per Litter (g)	5.06 ± 0.07 (8)	5.11 ± 0.14 (9)	4.92 ± 0.19 (6)		4.95 (1)	
Fetal Weight (adjusted) (e)						
Fetal Weight per Litter (g)	5.21 ± 0.03 (109) **	5.24 ± 0.04 (115)	5.00 ± 0.06 (81) **		4.91 ± 0.07 (12) *	
Male Fetal Weight per Litter (g)	5.39 ± 0.05 (47) **	5.43 ± 0.06 (57)	5.09 ± 0.07 (49)		5.00 ± 0.17 (4)	
Female Fetal Weight per Litter (g)	5.07 ± 0.04 (62)	5.05 ± 0.05 (58)	4.87 ± 0.10 (32)		4.87 ± 0.07 (8)	
Gravid Uterus Weight (f)						
Gravid Uterus Weight (g)	96.41 ± 3.22 (8) **	83.23 ± 11.81 (10)	71.35 ± 12.39 (8) *	2.35 ± 0.20 (10) **	10.78 ± 8.21 (10) **	3.09 ± 0.56 (9) **
Terminal Body Weight (g)	383.2 ± 4.7 (8) **	376.2 ± 10.7 (10)	347.5 ± 13.9 (8) **	276.1 ± 3.4 (10) **	266.3 ± 5.4 (10) **	250.2 ± 5.3 (9) **
Adjusted Body Weight (g)	286.83 ± 3.30 (8) **	292.96 ± 8.77 (10)	276.18 ± 4.45 (8)	273.76 ± 3.31 (10)	255.53 ± 10.69 (10) **	247.10 ± 5.39 (9) **

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LEGEND

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

Calculated values do not include non-pregnant animals and those that did not survive to terminal sacrifice

* 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

(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) Statistical analysis performed by Jonckheere (trend) and Shirley or Dunn (pairwise) tests or Cochran-Armitage (trend) and Fisher Exact (pairwise) tests

(d) Statistical analysis performed using the Random Effects Model (trend and pairwise)

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

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

**** END OF REPORT ****