

Experiment Number: R20084B
Test Type: Teratology - Range Finding
Route: Oral Gavage
Species/Strain: Rat/Harlan Sprague Dawley

R09: Uterine Content Summary
Test Compound: Dimethylethanolamine
CAS Number: 108-01-0

Date Report Requested: 12/16/2016
Time Report Requested: 12:30:10
Lab: Southern Research

C Number:	R20084B
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	250	500	1000
Pregnancy Summary (a)				
Paired Females	10	10	10	10
Mated Females	10	10	10	10
Pregnant Females	9	7	10	8
Pregnant Females Examined on GD 21	9	7	10	8
Pre-implantation Loss (b)				
Corpora lutea per Female	14.89 ± 0.54 (9)	16.00 ± 1.23 (7)	15.40 ± 0.65 (10)	14.75 ± 0.65 (8)
Implantations per Female	11.33 ± 1.38 (9)	11.86 ± 1.90 (7)	13.10 ± 0.71 (10)	14.00 ± 0.65 (8)
Percent Pre-Implantation Loss	23.42 ± 9.81 (9)	25.91 ± 11.89 (7)	14.15 ± 4.58 (10)	5.07 ± 1.70 (8)
Intra-uterine Deaths (c)				
Number of Early Resorptions	5	1	3	4
Early Resorptions per Litter	0.56 ± 0.29 (9)	0.14 ± 0.14 (7)	0.30 ± 0.15 (10)	0.50 ± 0.19 (8)
Number of Late Resorptions	0	0	0	0
Late Resorptions per Litter	0.00 ± 0.00 (9)	0.00 ± 0.00 (7)	0.00 ± 0.00 (10)	0.00 ± 0.00 (8)
Total Resorptions per Litter	0.56 ± 0.29 (9)	0.14 ± 0.14 (7)	0.30 ± 0.15 (10)	0.50 ± 0.19 (8)
Whole Litter Resorptions	0	0	0	0
Number of Dead Fetuses	0	0	0	0
Dead Fetuses per Litter	0.00 ± 0.00 (9)	0.00 ± 0.00 (7)	0.00 ± 0.00 (10)	0.00 ± 0.00 (8)
Percent Post-Implantation Loss	10.22 ± 7.35 (9)	0.95 ± 0.95 (7)	2.30 ± 1.19 (10)	3.42 ± 1.30 (8)
Live Fetuses (b)				
Number of Live Fetuses	97	82	128	108
Live Fetuses per Litter	10.78 ± 1.55 (9)	11.71 ± 1.86 (7)	12.80 ± 0.71 (10)	13.50 ± 0.60 (8)
Live Male Fetuses per Litter	5.56 ± 1.09 (9)	7.00 ± 1.31 (7)	7.10 ± 0.80 (10)	6.38 ± 0.65 (8)
Live Female Fetuses per Litter	5.22 ± 0.88 (9) *	4.71 ± 1.02 (7)	5.70 ± 0.83 (10)	7.13 ± 0.30 (8)
Percent Live Male Fetuses per Litter	44.84 ± 8.15 (9)	64.57 ± 8.10 (7)	55.99 ± 5.40 (10)	46.54 ± 2.99 (8)

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	Female			
	Treatment Groups (mg/kg/day)			
	0	250	500	1000
Fetal Weight (d)				
Fetal Weight per Litter (g)	5.39 ± 0.05 (9)	5.39 ± 0.17 (7)	5.40 ± 0.05 (10)	5.08 ± 0.40 (8)
Male Fetal Weight per Litter (g)	5.53 ± 0.07 (8)	5.45 ± 0.16 (7)	5.52 ± 0.06 (10)	5.21 ± 0.41 (8)
Female Fetal Weight per Litter (g)	5.26 ± 0.09 (9)	5.18 ± 0.15 (6)	5.25 ± 0.05 (10)	4.97 ± 0.39 (8)
Fetal Weight (adjusted) (e)				
Fetal Weight per Litter (g)	5.32 ± 0.04 (97)	5.33 ± 0.05 (82)	5.38 ± 0.03 (128)	5.03 ± 0.10 (108) **
Male Fetal Weight per Litter (g)	5.45 ± 0.05 (50)	5.43 ± 0.06 (49)	5.51 ± 0.04 (71)	5.01 ± 0.17 (51) **
Female Fetal Weight per Litter (g)	5.18 ± 0.06 (47)	5.18 ± 0.09 (33)	5.22 ± 0.04 (57)	5.05 ± 0.13 (57)
Gravid Uterus Weight (f)				
Gravid Uterus Weight (g)	80.57 ± 10.81 (9)	84.13 ± 14.08 (7)	94.56 ± 4.66 (10)	93.54 ± 5.54 (8)
Terminal Body Weight (g)	363.1 ± 12.0 (9)	360.8 ± 12.9 (7)	377.8 ± 7.3 (10)	361.3 ± 16.0 (8)
Adjusted Body Weight (g)	282.56 ± 4.18 (9)	276.63 ± 5.67 (7)	283.24 ± 4.73 (10)	267.80 ± 11.29 (8)

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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 ****