

Study Number: C20302B-02
Test Type: TOX
Route: Whole-Body Inhalation
Species/Strain: Mouse/CD-1

R09: Uterine Content Summary
Test Compound: alpha-Pinene
CAS Number: 80-56-8

Date Report Requested: 07/27/2023
Time Report Requested: 15:44:46
Lab: Battelle

Study Number: C20302B-02
Study Sex: Both
PWG Approval Date: See web page for date of PWG Approval
Version: v1.5.2
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Females: Naive Females				
	Treatment Groups (ppm)			
	0	100	200	400
Pregnancy Summary				
Mated Females	25	25	25	25
Pregnant Females	23	23	23	25
Pregnant Females Examined on GD 14	23	22	22	23
Pre-implantation Loss				
Corpora lutea per Female	15.87 ± 0.52 (23) *	13.59 ± 0.62 (22) *	13.55 ± 0.44 (22) **	14.00 ± 0.60 (23) *
Implantations per Female	13.52 ± 0.43 (23)	11.00 ± 1.03 (22)	12.18 ± 0.63 (22)	12.48 ± 0.43 (23)
Percent Pre-Implantation Loss	13.55 ± 2.89 (23)	22.28 ± 6.02 (22)	10.98 ± 4.01 (22)	9.75 ± 2.30 (23)
Intra-uterine Deaths				
Number of Early Resorptions	17	7	7	8
Early Resorptions per Litter	0.74 ± 0.21 (23)	0.32 ± 0.12 (22)	0.32 ± 0.12 (22)	0.35 ± 0.13 (23)
Number of Late Resorptions	0	0	0	0
Late Resorptions per Litter	0.00 ± 0.00 (23)	0.00 ± 0.00 (22)	0.00 ± 0.00 (22)	0.00 ± 0.00 (23)
Total Resorptions per Litter	0.74 ± 0.21 (23)	0.32 ± 0.12 (22)	0.32 ± 0.12 (22)	0.35 ± 0.13 (23)
Percent Post-Implantation Loss	5.46 ± 1.61 (23)	2.68 ± 1.15 (22)	2.45 ± 0.90 (22)	3.12 ± 1.23 (23)
Number of Dead Embryos	0	0	0	0
Dead Embryos per Litter	0.00 ± 0.00 (23)	0.00 ± 0.00 (22)	0.00 ± 0.00 (22)	0.00 ± 0.00 (23)
Live Fetuses				
Number of Live Embryos	294	235	261	279
Live Embryos per Litter	12.78 ± 0.44 (23)	10.68 ± 1.02 (22)	11.86 ± 0.61 (22)	12.13 ± 0.47 (23)
Gravid Uterus Weight				
Terminal Body Weight (g)	47.5 ± 0.7 (23) *	46.3 ± 1.2 (22)	44.7 ± 0.8 (22)	45.7 ± 0.6 (23)

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LEGEND

Values are reported 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.

Dams where the number of implants was greater than the number of corpora lutea were assigned a pre-implantation loss of 0. Otherwise, pre-implantation loss was calculated as $((\# \text{ corpora lutea} - \# \text{ implants}) / \# \text{ corpora lutea}) * 100$.

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 $P \leq 0.01$

Statistical analysis for the Pregnant Females endpoint was performed by Cochran-Armitage (trend) and Fisher Exact (pairwise) tests. No statistical analysis was performed on the Mated Females or Pregnant Females Examined on GD 14 endpoints.

Statistical analysis for the percent pre- and post-implantation loss, "per litter" intra-uterine deaths, and the live embryos per litter endpoints was performed by Jonckheere (trend) and Shirley or Dunn (pairwise) tests.

Statistical analysis for the Gravid Uterus Weight endpoints was performed by Jonckheere (trend) and Williams or Dunnett (pairwise) tests.

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

Data for Number of Live Embryos was collected on GD 14.

F0 time mated females were vendor provided so endpoints involving number of females paired were not calculated. Pregnancy was defined as evidence of implantation or littering.

Naïve females were paired with dosed males; no dams were dosed in this study.

**** END OF REPORT ****