

Study Number: 108020004
Test Type: 5-Day Toxicity
Route: Whole-Body Inhalation
Species/Strain: Rat/Harlan Sprague Dawley

PA06: Organ Weights Summary
Test Compound: 1,4-Dichlorobenzene
CAS Number: 106-46-7

Date Report Requested: 05/21/2025
Time Report Requested: 10:32:56
Lab: Battelle

Study Number: 108020004
Study Sex: Female
PWG Approval Date: See web page for date of PWG Approval
Version: v1.7.2
Stat Version: 2023.02.27S

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Females: Core Animals

	Treatment Groups (ppm)				
	0	1	10	50	150
Terminal Body Wt. (g)	197.3 ± 4.0 (10)	188.6 ± 5.2 (5)	193.5 ± 5.4 (5)	196.6 ± 3.0 (5)	192.5 ± 5.8 (5)
Heart					
Absolute (g)	0.86 ± 0.03 (10)	0.84 ± 0.03 (5)	0.82 ± 0.04 (5)	0.85 ± 0.02 (5)	0.81 ± 0.00 (4)
Relative (mg/g)	4.35 ± 0.09 (10)	4.44 ± 0.09 (5)	4.23 ± 0.11 (5)	4.30 ± 0.08 (5)	4.27 ± 0.14 (4)
R. Kidney					
Absolute (g)	0.63 ± 0.01 (10) *	0.64 ± 0.01 (5)	0.65 ± 0.02 (5)	0.63 ± 0.01 (5)	0.65 ± 0.02 (5)
Relative (mg/g)	3.22 ± 0.06 (10) *	3.39 ± 0.08 (5)	3.35 ± 0.07 (5)	3.23 ± 0.06 (5)	3.38 ± 0.13 (5)
L. Kidney					
Absolute (g)	0.62 ± 0.01 (10) **	0.62 ± 0.02 (5)	0.62 ± 0.02 (5)	0.62 ± 0.01 (5)	0.63 ± 0.02 (5)
Relative (mg/g)	3.14 ± 0.06 (10) **	3.29 ± 0.08 (5)	3.20 ± 0.09 (5)	3.15 ± 0.05 (5)	3.27 ± 0.11 (5)
Liver					
Absolute (g)	7.40 ± 0.18 (10) **	7.29 ± 0.33 (5)	7.25 ± 0.25 (5)	7.73 ± 0.13 (5)	7.43 ± 0.29 (5)
Relative (mg/g)	37.51 ± 0.75 (10) **	38.60 ± 0.90 (5)	37.46 ± 0.77 (5)	39.38 ± 0.97 (5)	38.54 ± 0.60 (5)
Lung					
Absolute (g)	1.69 ± 0.15 (10)	1.54 ± 0.19 (5)	1.68 ± 0.12 (5)	1.45 ± 0.03 (5)	1.42 ± 0.05 (5)
Relative (mg/g)	8.53 ± 0.68 (10)	8.15 ± 0.93 (5)	8.64 ± 0.43 (5)	7.40 ± 0.09 (5)	7.39 ± 0.30 (5)

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	Treatment Groups (ppm)	
	400	800
Terminal Body Wt. (g)	189.5 ± 2.7 (5)	193.0 ± 2.6 (5)
Heart		
Absolute (g)	0.84 ± 0.02 (5)	0.87 ± 0.03 (5)
Relative (mg/g)	4.42 ± 0.07 (5)	4.49 ± 0.21 (5)
R. Kidney		
Absolute (g)	0.69 ± 0.01 (5)	0.67 ± 0.02 (5)
Relative (mg/g)	3.62 ± 0.09 (5) **	3.47 ± 0.13 (5)
L. Kidney		
Absolute (g)	0.67 ± 0.00 (5) *	0.68 ± 0.03 (5) *
Relative (mg/g)	3.53 ± 0.05 (5) **	3.52 ± 0.15 (5) **
Liver		
Absolute (g)	8.68 ± 0.27 (5) **	11.50 ± 0.40 (5) **
Relative (mg/g)	45.81 ± 1.42 (5) **	59.64 ± 2.21 (5) **
Lung		
Absolute (g)	1.63 ± 0.18 (5)	1.77 ± 0.13 (5)
Relative (mg/g)	8.60 ± 1.02 (5)	9.17 ± 0.62 (5)

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LEGEND

Data are displayed as mean \pm SEM (N) unless otherwise noted.

Relative organ weights (organ-weight-to-body-weight ratios) are given as mg organ weight/g body weight.

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

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 $p \leq 0.01$

Females from the control and treatment groups were removed on Study Day 5.

Relative and absolute heart weights from a single female from the 150 ppm group were excluded as outliers.

**** END OF REPORT ****