

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

PA43: Hematology Summary
Test Compound: 1,4-Dichlorobenzene
CAS Number: 106-46-7

Date Report Requested: 11/25/2025
Time Report Requested: 13:03:57
Lab: Battelle

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

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	Phase Day	Treatment Groups (ppm)											
		0			1			10			50		
Hematocrit (%)	SD 5	44.0	± 0.8	(10)	42.7	± 0.8	(5)	44.0	± 0.7	(5)	44.2	± 0.6	(5)
Percent of Control						97.2			100.1			100.5	
Manual Hematocrit (%)	SD 5	46.0	± 0.9	(10)	46.8	± 0.5	(5)	48.2	± 0.6	(5)	46.6	± 0.8	(5)
Percent of Control						101.7			104.8			101.3	
Hemoglobin (g/dL)	SD 5	14.8	± 0.3	(10)	14.5	± 0.2	(5)	14.8	± 0.2	(5)	14.9	± 0.2	(5)
Percent of Control						98.1			100.1			100.5	
Erythrocytes (10 ⁶ /uL)	SD 5	7.83	± 0.15	(10)	7.73	± 0.13	(5)	7.99	± 0.25	(5)	7.79	± 0.16	(5)
Percent of Control						98.7			102.0			99.5	
Reticulocytes (10 ⁶ /uL)	SD 5	0.2350 ± 0.0071 (10) **			0.2148 ± 0.0098 (5)			0.2385 ± 0.0093 (5)			0.2546 ± 0.0081 (5)		
Percent of Control						91.4			101.5			108.3	
Mean Cell Volume (fL)	SD 5	56.2	± 0.4	(10)	55.3	± 0.8	(5)	55.2	± 0.9	(5)	56.8	± 0.8	(5)
Percent of Control						98.5			98.2			101.1	
Mean Cell Hemoglobin (pg)	SD 5	18.9	± 0.1	(10)	18.8	± 0.1	(5)	18.6	± 0.4	(5)	19.1	± 0.4	(5)
Percent of Control						99.3			98.4			101.2	
Mean Cell Hemoglobin Concentration (g/dL)	SD 5	33.7	± 0.1	(10)	34.0	± 0.2	(5)	33.7	± 0.3	(5)	33.7	± 0.2	(5)
Percent of Control						100.9			100.1			99.9	
Platelets (10 ³ /uL)	SD 5	1029	± 49	(10)	1001	± 61	(5)	1093	± 53	(5)	1061	± 142	(5)
Percent of Control						97.3			106.3			103.1	
White Blood Cells (10 ³ /uL)	SD 5	8.63	± 0.74	(10)	8.44	± 1.24	(5)	9.83	± 1.09	(5)	8.69	± 0.89	(5)
Percent of Control						97.9			113.9			100.7	
Neutrophils (10 ³ /uL)	SD 5	1.02	± 0.16	(10)	0.75	± 0.20	(5)	1.08	± 0.19	(5)	0.69	± 0.06	(5)
Percent of Control						74.3			106.8			68.2	

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	Phase Day	Treatment Groups (ppm)											
		0		1		10		50					
Lymphocytes (10 ³ /uL)	SD 5	7.17	± 0.56	(10)	7.35	± 1.03	(5)	8.26	± 0.81	(5)	7.62	± 0.81	(5)
Percent of Control					102.5			115.3			106.4		
Monocytes (10 ³ /uL)	SD 5	0.31	± 0.04	(10)	0.25	± 0.06	(5)	0.32	± 0.08	(5)	0.28	± 0.06	(5)
Percent of Control					79.0			103.2			89.8		
Basophils (10 ³ /uL)	SD 5	0.03	± 0.01	(10)	0.02	± 0.01	(5)	0.03	± 0.01	(5)	0.02	± 0.01	(5)
Percent of Control					64.3			107.1			71.4		
Eosinophils (10 ³ /uL)	SD 5	0.10	± 0.02	(10)	0.08	± 0.02	(5)	0.13	± 0.04	(5)	0.07	± 0.02	(5)
Percent of Control					73.8			124.3			68.0		

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	Phase Day	Treatment Groups (ppm)								
		150			400			800		
Hematocrit (%)	SD 5	42.6	± 0.6	(5)	42.5	± 0.8	(5)	44.7	± 1.0	(5)
Percent of Control			96.9			96.6			101.7	
Manual Hematocrit (%)	SD 5	46.4	± 0.4	(5)	43.8	± 0.5	(5)	46.0	± 0.5	(5)
Percent of Control			100.9			95.2			100.0	
Hemoglobin (g/dL)	SD 5	14.4	± 0.2	(5)	14.2	± 0.2	(5)	14.9	± 0.3	(5)
Percent of Control			97.4			96.1			100.8	
Erythrocytes (10 ⁶ /uL)	SD 5	7.69	± 0.25	(5)	7.63	± 0.17	(5)	7.87	± 0.17	(5)
Percent of Control			98.2			97.4			100.5	
Reticulocytes (10 ⁶ /uL)	SD 5	0.2214 ± 0.0166 (5)			0.2436 ± 0.0112 (5)			0.3177 ± 0.0137 (5) **		
Percent of Control			94.2			103.7			135.2	
Mean Cell Volume (fL)	SD 5	55.5	± 1.0	(5)	55.7	± 0.4	(5)	56.8	± 0.4	(5)
Percent of Control			98.8			99.1			101.2	
Mean Cell Hemoglobin (pg)	SD 5	18.8	± 0.3	(5)	18.6	± 0.1	(5)	19.0	± 0.2	(5)
Percent of Control			99.3			98.6			100.3	
Mean Cell Hemoglobin Concentration (g/dL)	SD 5	33.8	± 0.2	(5)	33.5	± 0.1	(5)	33.4	± 0.3	(5)
Percent of Control			100.5			99.5			99.2	
Platelets (10 ³ /uL)	SD 5	1037	± 80	(5)	1177	± 8	(5)	1049	± 86	(5)
Percent of Control			100.8			114.4			102.0	
White Blood Cells (10 ³ /uL)	SD 5	8.80	± 1.63	(5)	9.01	± 1.12	(5)	8.77	± 2.00	(5)
Percent of Control			102.0			104.4			101.6	
Neutrophils (10 ³ /uL)	SD 5	0.89	± 0.17	(5)	1.31	± 0.27	(5)	1.33	± 0.32	(5)
Percent of Control			87.9			129.1			130.6	

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	Phase Day	Treatment Groups (ppm)					
		150		400		800	
Lymphocytes (10 ³ /uL)	SD 5	7.51	± 1.48 (5)	7.20	± 0.88 (5)	6.92	± 1.64 (5)
Percent of Control		104.7		100.5		96.5	
Monocytes (10 ³ /uL)	SD 5	0.28	± 0.05 (5)	0.38	± 0.07 (5)	0.42	± 0.11 (5)
Percent of Control		89.2		121.0		133.1	
Basophils (10 ³ /uL)	SD 5	0.02	± 0.00 (5)	0.02	± 0.01 (5)	0.01	± 0.00 (5)
Percent of Control		78.6		78.6		42.9	
Eosinophils (10 ³ /uL)	SD 5	0.10	± 0.02 (5)	0.09	± 0.02 (5)	0.10	± 0.03 (5)
Percent of Control		95.1		87.4		93.2	

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LEGEND

Statistical analysis was performed by Jonckheere (trend) and Shirley or Dunn (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 $p \leq 0.01$

Values are displayed as mean \pm SEM (N).

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

SD = Study Day

SEM = Standard Error of the Mean

**** END OF REPORT ****