

Study Number: MOG06065
Test Type: MOG - Range Finding
Route: Oral Gavage
Species/Strain: Rat/Harlan Sprague Dawley

PA43: Hematology Summary
Test Compound: 2,2'-Dimorpholinodiethyl Ether
CAS Number: 6425-39-4

Date Report Requested: 04/14/2025
Time Report Requested: 16:44:19
Lab: Southern Research

Study Number: MOG06065
Study Sex: Both
PWG Approval Date: See web page for date of PWG Approval
Version: v1.7.2
Stat Version: 2023.02.27S

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F0 Female

	Phase Day	Treatment Groups (mg/kg/day)			
		0	62.5	125	250
Hematocrit (%)	LD 28	49.0 ± 0.5 (8)	46.5 ± 1.0 (6)	47.9 ± 1.0 (8)	47.1 ± 0.5 (6)
Percent of Control			95.0	97.7	96.1
Manual Hematocrit (%)	LD 28	48.6 ± 0.5 (8)	46.7 ± 0.8 (6)	48.5 ± 0.9 (8)	47.2 ± 0.6 (6)
Percent of Control			96.0	99.7	97.0
Hemoglobin (g/dL)	LD 28	16.1 ± 0.2 (8)	15.3 ± 0.3 (6)	15.7 ± 0.3 (8)	15.6 ± 0.2 (6)
Percent of Control			94.8	97.7	96.4
Erythrocytes (10 ⁶ /uL)	LD 28	8.02 ± 0.08 (8)	7.63 ± 0.15 (6)	7.78 ± 0.21 (8)	7.95 ± 0.05 (6)
Percent of Control			95.2	97.1	99.2
Reticulocytes (10 ⁵ /mm ³)	LD 28	1.46 ± 0.17 (8)	2.25 ± 0.19 (6)	2.09 ± 0.37 (8)	1.24 ± 0.14 (6)
Percent of Control			154.6	143.6	85.0
Mean Cell Volume (fL)	LD 28	61.1 ± 0.3 (8)	61.0 ± 0.5 (6)	61.6 ± 0.7 (8)	59.2 ± 0.7 (6)
Percent of Control			99.8	100.7	96.9
Mean Cell Hemoglobin (pg)	LD 28	20.1 ± 0.2 (8)	20.0 ± 0.1 (6)	20.3 ± 0.3 (8)	19.6 ± 0.2 (6)
Percent of Control			99.5	100.8	97.4
Mean Cell Hemoglobin Concentration (g/dL)	LD 28	32.9 ± 0.3 (8)	32.8 ± 0.2 (6)	33.0 ± 0.3 (8)	33.1 ± 0.3 (6)
Percent of Control			99.7	100.2	100.5
Platelets (10 ³ /uL)	LD 28	859 ± 50 (8)	979 ± 68 (6)	818 ± 50 (8)	867 ± 55 (6)
Percent of Control			113.9	95.2	100.9
White Blood Cells (10 ³ /uL)	LD 28	8.78 ± 0.42 (8) *	8.24 ± 0.71 (6)	8.27 ± 0.50 (8)	6.33 ± 0.60 (6) *
Percent of Control			93.9	94.2	72.1
Neutrophils (10 ³ /uL)	LD 28	1.08 ± 0.09 (8) *	1.29 ± 0.19 (6)	1.52 ± 0.30 (8)	1.76 ± 0.41 (6)
Percent of Control			119.7	141.3	163.7

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F0 Female

	Phase Day	Treatment Groups (mg/kg/day)			
		0	62.5	125	250
Lymphocytes (10 ³ /uL)	LD 28	7.23 ± 0.41 (8) **	6.33 ± 0.57 (6)	6.21 ± 0.43 (8)	4.15 ± 0.37 (6) **
Percent of Control			87.6	85.9	57.4
Monocytes (10 ³ /uL)	LD 28	0.15 ± 0.02 (8)	0.36 ± 0.09 (6) *	0.24 ± 0.03 (8)	0.25 ± 0.04 (6)
Percent of Control			237.8	160.0	164.4
Basophils (10 ³ /uL)	LD 28	0.05 ± 0.01 (8) *	0.04 ± 0.01 (6)	0.04 ± 0.00 (8)	0.02 ± 0.01 (6)
Percent of Control			75.7	75.7	54.1
Eosinophils (10 ³ /uL)	LD 28	0.24 ± 0.04 (8)	0.19 ± 0.04 (6)	0.22 ± 0.06 (8)	0.13 ± 0.03 (6)
Percent of Control			80.1	93.3	51.8
Large Unstained Cells (10 ³ /uL)	LD 28	0.04 ± 0.00 (8)	0.05 ± 0.01 (6)	0.04 ± 0.01 (8)	0.03 ± 0.00 (6)
Percent of Control			133.3	125.0	76.2

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F1 Male

	Phase Day	Treatment Groups (mg/kg/day)			
		0	62.5	125	250
Hematocrit (%)	PND 28	40.7 ± 0.5 (9)	42.7 ± 0.9 (8)	41.5 ± 1.1 (10)	42.4 ± 1.2 (7)
Percent of Control			104.7	101.8	104.1
Manual Hematocrit (%)	PND 28	41.1 ± 0.5 (9)	42.6 ± 0.9 (8)	41.5 ± 1.1 (10)	43.1 ± 1.3 (7)
Percent of Control			103.8	101.1	105.1
Hemoglobin (g/dL)	PND 28	12.6 ± 0.1 (9)	13.1 ± 0.2 (8)	12.7 ± 0.3 (10)	13.2 ± 0.3 (7)
Percent of Control			103.8	100.3	104.7
Erythrocytes (10 ⁶ /uL)	PND 28	5.86 ± 0.07 (9)	6.10 ± 0.14 (8)	5.88 ± 0.15 (10)	6.26 ± 0.14 (7) *
Percent of Control			104.1	100.4	106.9
Reticulocytes (10 ⁵ /mm ³)	PND 28	8.11 ± 0.19 (9)	8.46 ± 0.40 (8)	9.02 ± 0.35 (10)	8.30 ± 0.41 (7)
Percent of Control			104.4	111.3	102.4
Mean Cell Volume (fL)	PND 28	69.5 ± 0.6 (9)	70.0 ± 0.4 (8)	70.5 ± 0.3 (10)	67.7 ± 0.7 (7)
Percent of Control			100.6	101.5	97.4
Mean Cell Hemoglobin (pg)	PND 28	21.5 ± 0.1 (9)	21.5 ± 0.1 (8)	21.6 ± 0.1 (10)	21.1 ± 0.1 (7)
Percent of Control			100.0	100.2	98.0
Mean Cell Hemoglobin Concentration (g/dL)	PND 28	31.0 ± 0.1 (9)	30.7 ± 0.2 (8)	30.6 ± 0.1 (10)	31.2 ± 0.2 (7)
Percent of Control			99.2	98.6	100.6
Platelets (10 ³ /uL)	PND 28	1042 ± 33 (9)	1057 ± 43 (8)	1082 ± 42 (10)	1033 ± 35 (7)
Percent of Control			101.5	103.9	99.1
White Blood Cells (10 ³ /uL)	PND 28	8.31 ± 0.38 (9) *	7.63 ± 0.70 (8)	7.04 ± 0.72 (10)	6.09 ± 0.67 (7)
Percent of Control			91.8	84.7	73.2
Neutrophils (10 ³ /uL)	PND 28	0.85 ± 0.04 (9) *	0.70 ± 0.06 (8)	0.66 ± 0.07 (10)	0.71 ± 0.17 (7)
Percent of Control			81.4	76.8	83.2

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F1 Male

	Phase Day	Treatment Groups (mg/kg/day)			
		0	62.5	125	250
Lymphocytes (10 ³ /uL)	PND 28	7.05 ± 0.36 (9) *	6.53 ± 0.59 (8)	6.04 ± 0.66 (10)	5.11 ± 0.56 (7)
Percent of Control			92.6	85.7	72.4
Monocytes (10 ³ /uL)	PND 28	0.25 ± 0.02 (9) *	0.26 ± 0.05 (8)	0.20 ± 0.02 (10)	0.15 ± 0.02 (7) *
Percent of Control			102.6	80.5	59.5
Basophils (10 ³ /uL)	PND 28	0.03 ± 0.00 (9) *	0.03 ± 0.00 (8)	0.02 ± 0.00 (10)	0.02 ± 0.01 (7)
Percent of Control			100.8	76.9	83.0
Eosinophils (10 ³ /uL)	PND 28	0.10 ± 0.02 (9)	0.09 ± 0.02 (8)	0.09 ± 0.02 (10)	0.07 ± 0.02 (7)
Percent of Control			93.6	93.1	77.3
Large Unstained Cells (10 ³ /uL)	PND 28	0.03 ± 0.00 (9) *	0.04 ± 0.01 (8)	0.03 ± 0.00 (10)	0.02 ± 0.01 (7)
Percent of Control			101.6	79.8	68.4

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F1 Female

	Phase Day	Treatment Groups (mg/kg/day)			
		0	62.5	125	250
Hematocrit (%)	PND 28	40.9 ± 0.7 (8) **	42.3 ± 0.6 (8)	42.0 ± 0.5 (9)	46.9 ± 1.6 (7) *
Percent of Control			103.4	102.7	114.7
Manual Hematocrit (%)	PND 28	41.1 ± 0.6 (8) **	42.8 ± 0.8 (8)	41.8 ± 0.5 (9)	46.3 ± 1.5 (7) **
Percent of Control			104.1	101.7	112.5
Hemoglobin (g/dL)	PND 28	12.6 ± 0.2 (8) **	13.2 ± 0.1 (8) *	12.9 ± 0.1 (9)	14.4 ± 0.5 (7) **
Percent of Control			104.6	102.3	114.0
Erythrocytes (10 ⁶ /uL)	PND 28	5.89 ± 0.10 (8) **	6.12 ± 0.08 (8)	6.08 ± 0.08 (9)	6.83 ± 0.20 (7) **
Percent of Control			104.0	103.2	116.0
Reticulocytes (10 ⁵ /mm ³)	PND 28	7.75 ± 0.16 (8)	7.85 ± 0.32 (8)	8.48 ± 0.51 (9)	8.44 ± 0.69 (7)
Percent of Control			101.2	109.3	108.8
Mean Cell Volume (fL)	PND 28	69.5 ± 0.5 (8)	69.1 ± 0.5 (8)	69.2 ± 0.3 (9)	68.7 ± 0.9 (7)
Percent of Control			99.4	99.5	98.8
Mean Cell Hemoglobin (pg)	PND 28	21.4 ± 0.1 (8)	21.5 ± 0.1 (8)	21.2 ± 0.1 (9)	21.0 ± 0.2 (7)
Percent of Control			100.4	99.0	98.1
Mean Cell Hemoglobin Concentration (g/dL)	PND 28	30.8 ± 0.2 (8)	31.1 ± 0.1 (8)	30.7 ± 0.2 (9)	30.6 ± 0.1 (7)
Percent of Control			101.0	99.5	99.3
Platelets (10 ³ /uL)	PND 28	1070 ± 35 (8)	959 ± 47 (8)	1042 ± 40 (9)	948 ± 138 (7)
Percent of Control			89.6	97.3	88.6
White Blood Cells (10 ³ /uL)	PND 28	8.06 ± 0.34 (8)	8.33 ± 0.79 (8)	7.29 ± 0.63 (9)	5.55 ± 0.88 (7)
Percent of Control			103.4	90.4	68.9
Neutrophils (10 ³ /uL)	PND 28	0.79 ± 0.06 (8)	0.83 ± 0.08 (8)	0.68 ± 0.04 (9)	0.59 ± 0.09 (7)
Percent of Control			104.5	85.1	74.1

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F1 Female

	Phase Day	Treatment Groups (mg/kg/day)			
		0	62.5	125	250
Lymphocytes (10 ³ /uL)	PND 28	6.87 ± 0.30 (8)	7.08 ± 0.69 (8)	6.20 ± 0.57 (9)	4.62 ± 0.78 (7)
Percent of Control			103.1	90.3	67.3
Monocytes (10 ³ /uL)	PND 28	0.26 ± 0.03 (8)	0.23 ± 0.02 (8)	0.25 ± 0.03 (9)	0.15 ± 0.04 (7) *
Percent of Control			87.4	94.7	56.9
Basophils (10 ³ /uL)	PND 28	0.03 ± 0.00 (8)	0.03 ± 0.00 (8)	0.03 ± 0.00 (9)	0.02 ± 0.01 (7)
Percent of Control			111.6	97.2	74.4
Eosinophils (10 ³ /uL)	PND 28	0.07 ± 0.01 (8)	0.13 ± 0.03 (8)	0.11 ± 0.02 (9)	0.16 ± 0.05 (7)
Percent of Control			171.8	144.3	217.8
Large Unstained Cells (10 ³ /uL)	PND 28	0.04 ± 0.00 (8)	0.04 ± 0.01 (8)	0.03 ± 0.00 (9)	0.02 ± 0.01 (7)
Percent of Control			100.0	84.4	50.4

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LEGEND

For the F0 animals, values are given as mean \pm SEM (N), where N represents the number of animals in the group. For the F1 animals, values are given as mean \pm SEM of litter means (N), where N represents the number of litters in the group. Percent of Control is calculated by (dosed group mean / control group mean) x 100.

LD – Lactation Day; PND – Postnatal Day, adults post-weaning

Statistical analysis for the F0 animals was performed by Jonckheere (trend) and Shirley or Dunn (pairwise) tests.

Statistical analysis for the F1 animals was performed using a bootstrapped Jonckheere test for trend and a Datta-Satten modified Wilcoxon test with Hommel adjustment for pairwise comparisons.

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 $p \leq 0.01$

Hematology data not reported was removed as an outlier, or was due to pre-analytical or analytical conditions or errors including but not limited to: short sample, quantity not sufficient, or clotted sample.

**** END OF REPORT ****