

Study Number: C06065

Test Type: TOX

Route: Oral Gavage

Species/Strain: Mouse/B6C3F1/N

PA43: Hematology Summary

Test Compound: 2,2'-Dimorpholinodiethyl Ether

CAS Number: 6425-39-4

Date Report Requested: 12/02/2021

Time Report Requested: 09:16:46

Lab: Southern Research

Study Number:

C06065

Study Sex:

Both

PWG Approval Date:

See web page for date of PWG Approval

Version:

v1.3.4

Stat Version:

v2.7.9A

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Male

	Phase Day	Treatment Groups (mg/kg/day)			
		0	62.5	125	250
Hematocrit (%)	SD 28	48.4 ± 0.7 (8) **	47.6 ± 0.7 (9)	47.6 ± 0.9 (9)	48.5 ± 1.0 (6)
Percent of Control			98.2	98.2	100.2
Manual Hematocrit (%)	SD 28	48.4 ± 1.0 (8) **	46.9 ± 1.1 (9)	47.3 ± 1.0 (9)	48.3 ± 1.0 (6)
Percent of Control			96.9	97.8	99.9
Hemoglobin (g/dL)	SD 28	16.1 ± 0.2 (8) **	15.8 ± 0.2 (9)	15.9 ± 0.3 (9)	16.3 ± 0.4 (6)
Percent of Control			98.0	99.2	101.2
Erythrocytes (10 ⁶ /uL)	SD 28	10.45 ± 0.15 (8) **	10.25 ± 0.12 (9)	10.32 ± 0.17 (9)	10.58 ± 0.22 (6)
Percent of Control			98.1	98.8	101.2
Reticulocytes (10 ⁵ /mm ³)	SD 28	3.41 ± 0.09 (8)	3.47 ± 0.12 (9)	3.46 ± 0.16 (9)	3.47 ± 0.13 (6)
Percent of Control			101.6	101.3	101.6
Mean Cell Volume (fL)	SD 28	46.3 ± 0.2 (8) *	46.4 ± 0.2 (9)	46.1 ± 0.3 (9)	45.9 ± 0.1 (6)
Percent of Control			100.1	99.5	99.1
Mean Cell Hemoglobin (pg)	SD 28	15.4 ± 0.1 (8)	15.4 ± 0.0 (9)	15.4 ± 0.1 (9)	15.4 ± 0.1 (6)
Percent of Control			99.8	100.2	99.8
Mean Cell Hemoglobin Concentration (g/dL)	SD 28	33.2 ± 0.1 (8)	33.2 ± 0.2 (9)	33.5 ± 0.2 (9)	33.5 ± 0.2 (6)
Percent of Control			99.8	100.9	100.9
Platelets (10 ³ /uL)	SD 28	929 ± 36 (8)	963 ± 25 (9)	926 ± 65 (9)	900 ± 94 (6)
Percent of Control			103.6	99.7	96.9
White Blood Cells (10 ³ /uL)	SD 28	4.86 ± 0.29 (8) *	4.54 ± 0.24 (9)	4.43 ± 0.26 (9)	4.79 ± 0.23 (6)
Percent of Control			93.4	91.1	98.5
Neutrophils (10 ³ /uL)	SD 28	0.60 ± 0.04 (8)	0.57 ± 0.07 (9)	0.51 ± 0.06 (9)	0.45 ± 0.02 (6)
Percent of Control			93.9	85.2	75.2

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Male

	Phase Day	Treatment Groups (mg/kg/day)			
		0	62.5	125	250
Lymphocytes (10 ³ /uL)	SD 28	3.88 ± 0.24 (8) *	3.60 ± 0.20 (9)	3.58 ± 0.21 (9)	4.05 ± 0.24 (6)
Percent of Control			92.9	92.2	104.3
Monocytes (10 ³ /uL)	SD 28	0.09 ± 0.00 (8) **	0.09 ± 0.01 (9)	0.10 ± 0.01 (9)	0.07 ± 0.01 (6) *
Percent of Control			93.7	104.5	73.9
Basophils (10 ³ /uL)	SD 28	0.03 ± 0.01 (8)	0.02 ± 0.00 (9)	0.02 ± 0.00 (9)	0.02 ± 0.00 (6)
Percent of Control			76.2	59.3	82.5
Eosinophils (10 ³ /uL)	SD 28	0.24 ± 0.05 (8)	0.25 ± 0.06 (9)	0.21 ± 0.05 (9)	0.19 ± 0.04 (6)
Percent of Control			104.5	87.1	77.0
Large Unstained Cells (10 ³ /uL)	SD 28	0.02 ± 0.00 (8) *	0.02 ± 0.00 (9)	0.02 ± 0.00 (9)	0.02 ± 0.00 (6)
Percent of Control			73.2	73.2	86.3

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Male

	Phase Day	Treatment Groups (mg/kg/day)	
		500	1000
Hematocrit (%)	SD 28	46.5 ± 0.9 (8)	44.5 ± 0.5 (9) **
Percent of Control		96.0	91.9
Manual Hematocrit (%)	SD 28	46.1 ± 1.0 (8)	44.4 ± 0.6 (9) **
Percent of Control		95.3	91.9
Hemoglobin (g/dL)	SD 28	15.6 ± 0.3 (8)	14.9 ± 0.1 (9) **
Percent of Control		97.1	92.6
Erythrocytes (10 ⁶ /uL)	SD 28	10.15 ± 0.17 (8)	9.71 ± 0.08 (9) **
Percent of Control		97.1	92.9
Reticulocytes (10 ⁵ /mm ³)	SD 28	3.34 ± 0.13 (8)	3.18 ± 0.18 (9)
Percent of Control		97.8	93.1
Mean Cell Volume (fL)	SD 28	45.8 ± 0.2 (8)	45.8 ± 0.3 (9)
Percent of Control		98.9	98.9
Mean Cell Hemoglobin (pg)	SD 28	15.4 ± 0.1 (8)	15.3 ± 0.0 (9)
Percent of Control		99.8	99.3
Mean Cell Hemoglobin Concentration (g/dL)	SD 28	33.5 ± 0.1 (8)	33.4 ± 0.3 (9)
Percent of Control		101.0	100.7
Platelets (10 ³ /uL)	SD 28	976 ± 45 (8)	968 ± 39 (9)
Percent of Control		105.0	104.2
White Blood Cells (10 ³ /uL)	SD 28	3.96 ± 0.29 (8)	3.86 ± 0.32 (9)
Percent of Control		81.4	79.3
Neutrophils (10 ³ /uL)	SD 28	0.51 ± 0.08 (8)	0.50 ± 0.04 (9)
Percent of Control		85.3	82.8

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Male

	Phase Day	Treatment Groups (mg/kg/day)	
		500	1000
Lymphocytes (10 ³ /uL)	SD 28	3.08 ± 0.27 (8)	2.95 ± 0.27 (9)
Percent of Control		79.4	76.1
Monocytes (10 ³ /uL)	SD 28	0.07 ± 0.01 (8) *	0.06 ± 0.01 (9) *
Percent of Control		70.3	62.5
Basophils (10 ³ /uL)	SD 28	0.02 ± 0.01 (8)	0.01 ± 0.00 (9)
Percent of Control		76.2	50.8
Eosinophils (10 ³ /uL)	SD 28	0.27 ± 0.05 (8)	0.33 ± 0.03 (9)
Percent of Control		109.8	134.7
Large Unstained Cells (10 ³ /uL)	SD 28	0.02 ± 0.00 (8)	0.01 ± 0.00 (9) *
Percent of Control		70.6	47.1

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Female

	Phase Day	Treatment Groups (mg/kg/day)			
		0	62.5	125	250
Hematocrit (%)	SD 28	47.8 ± 0.4 (7) **	48.4 ± 0.7 (9)	48.5 ± 0.7 (7)	49.0 ± 0.7 (10)
Percent of Control			101.3	101.5	102.6
Manual Hematocrit (%)	SD 28	47.6 ± 0.4 (7) **	48.1 ± 0.8 (9)	47.9 ± 0.4 (7)	48.4 ± 0.7 (10)
Percent of Control			101.1	100.6	101.7
Hemoglobin (g/dL)	SD 28	15.6 ± 0.1 (7) **	16.0 ± 0.2 (9)	16.0 ± 0.2 (7)	16.1 ± 0.2 (10)
Percent of Control			102.5	102.1	103.1
Erythrocytes (10 ⁶ /uL)	SD 28	9.91 ± 0.10 (7) *	10.15 ± 0.13 (9)	10.23 ± 0.12 (7)	10.27 ± 0.15 (10)
Percent of Control			102.4	103.3	103.6
Reticulocytes (10 ⁵ /mm ³)	SD 28	4.07 ± 0.28 (7)	3.56 ± 0.20 (9)	3.93 ± 0.20 (7)	3.89 ± 0.18 (10)
Percent of Control			87.3	96.5	95.5
Mean Cell Volume (fL)	SD 28	48.3 ± 0.3 (7) **	47.7 ± 0.4 (9)	47.4 ± 0.2 (7)	47.8 ± 0.3 (10)
Percent of Control			98.9	98.2	99.0
Mean Cell Hemoglobin (pg)	SD 28	15.8 ± 0.1 (7) **	15.8 ± 0.1 (9)	15.6 ± 0.1 (7)	15.7 ± 0.1 (10)
Percent of Control			100.0	98.9	99.5
Mean Cell Hemoglobin Concentration (g/dL)	SD 28	32.6 ± 0.1 (7)	33.1 ± 0.2 (9)	32.9 ± 0.2 (7)	32.9 ± 0.2 (10)
Percent of Control			101.4	100.9	100.7
Platelets (10 ³ /uL)	SD 28	846 ± 33 (7)	731 ± 50 (9)	730 ± 42 (7)	700 ± 66 (10)
Percent of Control			86.4	86.4	82.8
White Blood Cells (10 ³ /uL)	SD 28	4.80 ± 0.57 (7) **	4.24 ± 0.38 (9)	4.94 ± 0.39 (7)	3.80 ± 0.25 (10)
Percent of Control			88.3	103.0	79.1
Neutrophils (10 ³ /uL)	SD 28	0.54 ± 0.07 (7) *	0.46 ± 0.05 (9)	0.48 ± 0.04 (7)	0.38 ± 0.04 (10)
Percent of Control			84.5	88.5	69.6

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Female

	Phase Day	Treatment Groups (mg/kg/day)			
		0	62.5	125	250
Lymphocytes (10 ³ /uL)	SD 28	3.96 ± 0.45 (7) **	3.56 ± 0.32 (9)	4.12 ± 0.34 (7)	3.18 ± 0.21 (10)
Percent of Control			89.8	104.0	80.1
Monocytes (10 ³ /uL)	SD 28	0.10 ± 0.02 (7) **	0.06 ± 0.00 (9)	0.07 ± 0.01 (7)	0.05 ± 0.00 (10)
Percent of Control			59.7	71.0	54.8
Basophils (10 ³ /uL)	SD 28	0.02 ± 0.00 (7)	0.02 ± 0.00 (9)	0.02 ± 0.00 (7)	0.02 ± 0.00 (10)
Percent of Control			77.8	107.1	90.0
Eosinophils (10 ³ /uL)	SD 28	0.15 ± 0.04 (7)	0.13 ± 0.03 (9)	0.22 ± 0.03 (7)	0.16 ± 0.03 (10)
Percent of Control			86.5	146.7	101.4
Large Unstained Cells (10 ³ /uL)	SD 28	0.02 ± 0.00 (7) *	0.02 ± 0.00 (9)	0.02 ± 0.00 (7)	0.01 ± 0.00 (10)
Percent of Control			77.8	85.7	65.0

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Female

	Phase Day	Treatment Groups (mg/kg/day)	
		500	1000
Hematocrit (%)	SD 28	46.7 ± 0.4 (8)	42.2 ± 0.8 (7) **
Percent of Control		97.6	88.3
Manual Hematocrit (%)	SD 28	46.5 ± 0.5 (8)	42.7 ± 0.9 (7) **
Percent of Control		97.7	89.8
Hemoglobin (g/dL)	SD 28	15.5 ± 0.2 (8)	14.0 ± 0.2 (7) *
Percent of Control		99.1	89.3
Erythrocytes (10 ⁶ /uL)	SD 28	9.90 ± 0.13 (8)	9.03 ± 0.14 (7)
Percent of Control		99.9	91.1
Reticulocytes (10 ⁵ /mm ³)	SD 28	3.80 ± 0.19 (8)	3.34 ± 0.26 (7)
Percent of Control		93.3	82.1
Mean Cell Volume (fL)	SD 28	47.2 ± 0.3 (8) **	46.8 ± 0.4 (7) **
Percent of Control		97.8	96.9
Mean Cell Hemoglobin (pg)	SD 28	15.7 ± 0.0 (8)	15.5 ± 0.0 (7) **
Percent of Control		99.2	97.9
Mean Cell Hemoglobin Concentration (g/dL)	SD 28	33.2 ± 0.1 (8)	33.1 ± 0.3 (7)
Percent of Control		101.7	101.3
Platelets (10 ³ /uL)	SD 28	844 ± 27 (8)	827 ± 32 (7)
Percent of Control		99.8	97.8
White Blood Cells (10 ³ /uL)	SD 28	4.31 ± 0.51 (8)	3.00 ± 0.22 (7) *
Percent of Control		89.9	62.5
Neutrophils (10 ³ /uL)	SD 28	0.39 ± 0.09 (8)	0.42 ± 0.04 (7)
Percent of Control		72.1	76.6

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Female

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		500	1000
Lymphocytes (10 ³ /uL)	SD 28	3.63 ± 0.39 (8)	2.34 ± 0.19 (7) **
Percent of Control		91.5	59.0
Monocytes (10 ³ /uL)	SD 28	0.05 ± 0.01 (8) *	0.04 ± 0.01 (7) **
Percent of Control		54.5	39.1
Basophils (10 ³ /uL)	SD 28	0.02 ± 0.01 (8)	0.01 ± 0.00 (7)
Percent of Control		106.3	57.1
Eosinophils (10 ³ /uL)	SD 28	0.20 ± 0.04 (8)	0.19 ± 0.04 (7)
Percent of Control		128.4	123.4
Large Unstained Cells (10 ³ /uL)	SD 28	0.02 ± 0.00 (8)	0.01 ± 0.00 (7)
Percent of Control		87.5	42.9

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LEGEND

Values given as mean \pm SEM (N) with Percent of Control calculated by (dosed group mean / control group mean) x 100

SD – Study Day

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 $P \leq 0.01$

**** END OF REPORT ****