

Study Number: C20323-03
Test Type: TOX
Route: Oral Gavage
Species/Strain: Rat/Wistar Han

PA43: Hematology Summary
Test Compound: Resveratrol
CAS Number: 501-36-0

Date Report Requested: 06/05/2019
Time Report Requested: 13:24:11
Lab: NTP

C Number:

C20323-03

Study Gender:

Both

PWG Approval Date

See web page for date of PWG Approval

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F1 Male

	Phase Day	Treatment Groups (mg/kg)			
		0	78	156	312.5
Hematocrit (%)	SD 95	48.1 ± 0.5 (4)	46.5 ± 0.5 (5)	46.1 ± 0.6 (5)	46.2 ± 0.5 (5)
Percent of Control			96.5	95.9	96.0
Manual Hematocrit (%)	SD 95	47.4 ± 0.2 (4)	46.4 ± 0.5 (5)	45.5 ± 0.4 (5) *	45.6 ± 0.5 (5)
Percent of Control			97.9	96.0	96.3
Hemoglobin (g/dL)	SD 95	15.5 ± 0.1 (4)	15.0 ± 0.2 (5)	14.9 ± 0.1 (5)	15.0 ± 0.2 (5)
Percent of Control			96.7	96.0	96.8
Erythrocytes (10 ⁶ /uL)	SD 95	8.64 ± 0.13 (4)	8.35 ± 0.12 (5)	8.35 ± 0.12 (5)	8.35 ± 0.07 (5)
Percent of Control			96.7	96.7	96.7
Reticulocytes (10 ³ /uL)	SD 95	196.4 ± 15.4 (4)	187.0 ± 3.8 (5)	204.8 ± 4.2 (5)	204.2 ± 12.6 (5)
Percent of Control			95.2	104.3	104.0
Mean Cell Volume (fL)	SD 95	55.8 ± 0.3 (4)	55.7 ± 0.9 (5)	55.2 ± 0.1 (5)	55.3 ± 0.2 (5)
Percent of Control			99.9	99.0	99.2
Mean Cell Hemoglobin (pg)	SD 95	18.0 ± 0.2 (4)	18.0 ± 0.4 (5)	17.8 ± 0.2 (5)	18.0 ± 0.2 (5)
Percent of Control			100.0	99.2	99.9
Mean Cell Hemoglobin Concentration (g/dL)	SD 95	32.3 ± 0.2 (4)	32.3 ± 0.2 (5)	32.3 ± 0.2 (5)	32.5 ± 0.3 (5)
Percent of Control			100.0	100.1	100.6
Platelets (10 ³ /uL)	SD 95	744 ± 41 (4)	725 ± 44 (5)	754 ± 29 (5)	669 ± 40 (5)
Percent of Control			97.4	101.3	89.8
White Blood Cells (10 ³ /uL)	SD 95	6.32 ± 0.26 (4)	7.15 ± 0.93 (5)	6.82 ± 0.54 (5)	6.95 ± 1.11 (5)
Percent of Control			113.0	107.8	109.9
Neutrophils (10 ³ /uL)	SD 95	0.98 ± 0.06 (4)	1.15 ± 0.14 (5)	1.26 ± 0.11 (5)	1.05 ± 0.13 (5)
Percent of Control			117.6	129.0	107.0

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F1 Male

	Phase Day	Treatment Groups (mg/kg)			
		0	78	156	312.5
Total Lymphocytes (10 ³ /uL)	SD 95	5.13 ± 0.21 (4)	5.80 ± 0.81 (5)	5.34 ± 0.49 (5)	5.71 ± 0.98 (5)
Percent of Control			113.0	104.0	111.2
Monocytes (10 ³ /uL)	SD 95	0.12 ± 0.01 (4)	0.12 ± 0.02 (5)	0.13 ± 0.01 (5)	0.10 ± 0.02 (5)
Percent of Control			102.6	115.7	89.6
Basophils (10 ³ /uL)	SD 95	0.01 ± 0.00 (4)	0.01 ± 0.00 (5)	0.01 ± 0.00 (5)	0.01 ± 0.00 (5)
Percent of Control			101.8	72.7	101.8
Eosinophils (10 ³ /uL)	SD 95	0.08 ± 0.01 (4)	0.07 ± 0.00 (5)	0.08 ± 0.02 (5)	0.08 ± 0.01 (5)
Percent of Control			83.8	95.0	97.5

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F1 Male

	Phase Day	Treatment Groups (mg/kg)	
		625	1250
Hematocrit (%)	SD 95	46.4 ± 1.0 (5)	46.3 ± 0.7 (5)
Percent of Control		96.4	96.1
Manual Hematocrit (%)	SD 95	45.9 ± 0.9 (5)	45.4 ± 0.5 (5)
Percent of Control		96.9	95.8
Hemoglobin (g/dL)	SD 95	14.8 ± 0.3 (5)	14.9 ± 0.2 (5)
Percent of Control		95.7	96.3
Erythrocytes (10 ⁶ /uL)	SD 95	8.47 ± 0.18 (5)	8.46 ± 0.14 (5)
Percent of Control		98.1	98.0
Reticulocytes (10 ³ /uL)	SD 95	192.7 ± 11.8 (5)	208.2 ± 8.1 (5)
Percent of Control		98.1	106.0
Mean Cell Volume (fL)	SD 95	54.7 ± 0.3 (5)	54.7 ± 0.1 (5)
Percent of Control		98.2	98.1
Mean Cell Hemoglobin (pg)	SD 95	17.5 ± 0.1 (5)	17.7 ± 0.1 (5)
Percent of Control		97.4	98.3
Mean Cell Hemoglobin Concentration (g/dL)	SD 95	32.0 ± 0.1 (5)	32.3 ± 0.2 (5)
Percent of Control		99.1	100.1
Platelets (10 ³ /uL)	SD 95	693 ± 25 (5)	737 ± 29 (5)
Percent of Control		93.0	99.0
White Blood Cells (10 ³ /uL)	SD 95	7.42 ± 0.58 (5)	8.34 ± 0.52 (5)
Percent of Control		117.3	131.9
Neutrophils (10 ³ /uL)	SD 95	1.19 ± 0.04 (5)	1.15 ± 0.08 (5)
Percent of Control		121.6	117.5

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F1 Male

	Phase Day	Treatment Groups (mg/kg)	
		625	1250
Total Lymphocytes (10 ³ /uL)	SD 95	6.02 ± 0.57 (5)	6.96 ± 0.44 (5)
Percent of Control		117.3	135.7
Monocytes (10 ³ /uL)	SD 95	0.12 ± 0.01 (5)	0.15 ± 0.01 (5)
Percent of Control		104.3	128.7
Basophils (10 ³ /uL)	SD 95	0.01 ± 0.00 (5)	0.02 ± 0.00 (5)
Percent of Control		101.8	145.5
Eosinophils (10 ³ /uL)	SD 95	0.07 ± 0.01 (5)	0.07 ± 0.00 (5)
Percent of Control		92.5	81.3

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F1 Female

	Phase Day	Treatment Groups (mg/kg)			
		0	78	156	312.5
Hematocrit (%)	SD 95	45.9 ± 0.4 (5)	45.3 ± 0.8 (5)	44.0 ± 0.6 (5)	45.3 ± 0.7 (5)
Percent of Control			98.6	95.8	98.6
Manual Hematocrit (%)	SD 95	45.2 ± 0.4 (5)	45.0 ± 0.7 (5)	43.9 ± 0.6 (5)	45.6 ± 0.7 (5)
Percent of Control			99.6	97.1	100.9
Hemoglobin (g/dL)	SD 95	15.1 ± 0.1 (5) **	14.8 ± 0.2 (5)	14.5 ± 0.2 (5)	14.9 ± 0.2 (5)
Percent of Control			98.2	96.0	98.6
Erythrocytes (10 ⁶ /uL)	SD 95	8.16 ± 0.09 (5)	8.03 ± 0.17 (5)	7.84 ± 0.16 (5)	8.01 ± 0.11 (5)
Percent of Control			98.3	96.1	98.2
Reticulocytes (10 ³ /uL)	SD 95	188.6 ± 8.3 (5)	185.0 ± 13.3 (5)	182.4 ± 11.6 (5)	186.1 ± 5.5 (5)
Percent of Control			98.1	96.7	98.7
Mean Cell Volume (fL)	SD 95	56.3 ± 0.6 (5)	56.5 ± 0.7 (5)	56.1 ± 0.5 (5)	56.5 ± 0.2 (5)
Percent of Control			100.3	99.7	100.4
Mean Cell Hemoglobin (pg)	SD 95	18.5 ± 0.2 (5)	18.5 ± 0.3 (5)	18.5 ± 0.2 (5)	18.6 ± 0.1 (5)
Percent of Control			99.9	99.9	100.3
Mean Cell Hemoglobin Concentration (g/dL)	SD 95	32.9 ± 0.1 (5)	32.8 ± 0.2 (5)	33.0 ± 0.2 (5)	32.9 ± 0.2 (5)
Percent of Control			99.5	100.1	99.9
Platelets (10 ³ /uL)	SD 95	750 ± 38 (5)	712 ± 53 (5)	767 ± 40 (5)	740 ± 31 (5)
Percent of Control			95.0	102.3	98.7
White Blood Cells (10 ³ /uL)	SD 95	5.20 ± 0.38 (5)	5.14 ± 0.64 (5)	5.05 ± 0.40 (5)	4.66 ± 0.46 (5)
Percent of Control			99.0	97.1	89.7
Neutrophils (10 ³ /uL)	SD 95	1.00 ± 0.13 (5)	0.86 ± 0.12 (5)	0.88 ± 0.14 (5)	0.85 ± 0.17 (5)
Percent of Control			85.7	87.3	84.5

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F1 Female

	Phase Day	Treatment Groups (mg/kg)			
		0	78	156	312.5
Total Lymphocytes (10 ³ /uL)	SD 95	3.94 ± 0.34 (5)	4.10 ± 0.59 (5)	3.99 ± 0.26 (5)	3.65 ± 0.34 (5)
Percent of Control			104.0	101.3	92.6
Monocytes (10 ³ /uL)	SD 95	0.16 ± 0.01 (5)	0.09 ± 0.01 (5) *	0.10 ± 0.02 (5) *	0.09 ± 0.01 (5) *
Percent of Control			54.7	62.9	55.3
Basophils (10 ³ /uL)	SD 95	0.01 ± 0.00 (5)	0.01 ± 0.00 (5)	0.01 ± 0.00 (5)	0.01 ± 0.00 (5)
Percent of Control			91.7	75.0	75.0
Eosinophils (10 ³ /uL)	SD 95	0.08 ± 0.01 (5)	0.08 ± 0.02 (5)	0.07 ± 0.00 (5)	0.06 ± 0.01 (5)
Percent of Control			112.0	86.7	78.7

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F1 Female

	Phase Day	Treatment Groups (mg/kg)	
		625	1250
Hematocrit (%)	SD 95	44.6 ± 0.9 (5)	43.3 ± 0.6 (5)
Percent of Control		97.1	94.3
Manual Hematocrit (%)	SD 95	44.2 ± 0.7 (5)	43.2 ± 0.8 (5)
Percent of Control		97.8	95.6
Hemoglobin (g/dL)	SD 95	14.6 ± 0.2 (5)	14.1 ± 0.2 (5) *
Percent of Control		96.6	93.6
Erythrocytes (10 ⁶ /uL)	SD 95	7.94 ± 0.14 (5)	7.68 ± 0.15 (5)
Percent of Control		97.3	94.1
Reticulocytes (10 ³ /uL)	SD 95	185.0 ± 12.4 (5)	187.6 ± 9.2 (5)
Percent of Control		98.1	99.5
Mean Cell Volume (fL)	SD 95	56.2 ± 0.3 (5)	56.4 ± 0.5 (5)
Percent of Control		99.8	100.2
Mean Cell Hemoglobin (pg)	SD 95	18.4 ± 0.1 (5)	18.4 ± 0.3 (5)
Percent of Control		99.1	99.5
Mean Cell Hemoglobin Concentration (g/dL)	SD 95	32.7 ± 0.2 (5)	32.7 ± 0.2 (5)
Percent of Control		99.2	99.2
Platelets (10 ³ /uL)	SD 95	714 ± 18 (5)	745 ± 39 (5)
Percent of Control		95.3	99.3
White Blood Cells (10 ³ /uL)	SD 95	5.78 ± 0.50 (5)	6.08 ± 0.41 (5)
Percent of Control		111.2	117.1
Neutrophils (10 ³ /uL)	SD 95	0.87 ± 0.09 (5)	0.84 ± 0.15 (5)
Percent of Control		87.0	83.9

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F1 Female

	Phase Day	Treatment Groups (mg/kg)	
		625	1250
Total Lymphocytes (10 ³ /uL)	SD 95	4.72 ± 0.43 (5)	5.05 ± 0.27 (5)
Percent of Control		119.8	128.1
Monocytes (10 ³ /uL)	SD 95	0.10 ± 0.01 (5) *	0.11 ± 0.01 (5) *
Percent of Control		61.6	67.9
Basophils (10 ³ /uL)	SD 95	0.01 ± 0.00 (5)	0.01 ± 0.00 (5)
Percent of Control		108.3	83.3
Eosinophils (10 ³ /uL)	SD 95	0.07 ± 0.01 (5)	0.07 ± 0.00 (5)
Percent of Control		88.0	89.3

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LEGEND

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

SD – Study Day

Statistical analysis 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 $P \leq 0.01$

**** END OF REPORT ****