

Experiment Number: C20323-04

Test Type: TOX

Route: Oral Gavage

Species/Strain: Mouse/B6C3F1/N

C Number:

C20323-04

Cage Range:

All

Date Range:

All

Reasons For Removal:

All

Removal Date Range:

All

Treatment Groups:

All

Study Gender:

Both

PA43: Hematology Summary

Test Compound: Resveratrol

CAS Number: 501-36-0

Date Report Requested: 09/14/2017

Time Report Requested: 13:34:09

Lab: NTP

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Lab: NTP

Male

	Phase Day	Treatment Groups (mg/kg)			
		0	156	312	625
Hematocrit (%)	SD 92	47.8 ± 0.3 (10)	49.5 ± 0.8 (10)	49.6 ± 1.6 (10)	47.5 ± 0.8 (10)
Percent of Control			103.6	103.9	99.5
Manual Hematocrit (%)	SD 92	48.6 ± 0.2 (10)	50.9 ± 0.7 (10)	49.9 ± 1.2 (9)	48.6 ± 0.5 (10)
Percent of Control			104.7	102.7	100.0
Hemoglobin (g/dL)	SD 92	15.5 ± 0.1 (10)	16.2 ± 0.2 (10)	16.3 ± 0.5 (10)	15.7 ± 0.2 (10)
Percent of Control			104.5	105.1	101.2
Erythrocytes (10 ⁶ /uL)	SD 92	10.34 ± 0.07 (10)	10.75 ± 0.15 (10)	10.75 ± 0.31 (10)	10.35 ± 0.18 (10)
Percent of Control			104.04	104.02	100.10
Reticulocytes (10 ³ /uL)	SD 92	255.7 ± 4.4 (10)	275.9 ± 6.2 (10)	256.4 ± 10.3 (10)	248.1 ± 5.9 (10)
Percent of Control			107.9	100.3	97.0
Mean Cell Volume (fL)	SD 92	46.2 ± 0.1 (10)	46.0 ± 0.2 (10)	46.1 ± 0.2 (10)	45.9 ± 0.3 (10)
Percent of Control			99.6	99.8	99.4
Mean Cell Hemoglobin (pg)	SD 92	15.0 ± 0.1 (10)	15.0 ± 0.1 (10)	15.1 ± 0.1 (10)	15.2 ± 0.2 (10)
Percent of Control			100.4	101.1	101.3
Mean Cell Hemoglobin Concentration (g/dL)	SD 92	32.4 ± 0.2 (10)	32.7 ± 0.1 (10)	32.8 ± 0.2 (10)	33.0 ± 0.4 (10)
Percent of Control			100.7	101.2	101.9
Platelets (10 ³ /uL)	SD 92	819. ± 31 (10)	773. ± 45 (10)	784. ± 45 (10)	838. ± 36 (10)
Percent of Control			94.	96.	102.
White Blood Cells (10 ³ /uL)	SD 92	4.57 ± 0.25 (10)	4.42 ± 0.34 (10)	4.12 ± 0.43 (10)	4.39 ± 0.35 (10)
Percent of Control			96.63	90.15	95.97
Neutrophils (10 ³ /uL)	SD 92	0.62 ± 0.05 (10)	0.62 ± 0.05 (10)	0.53 ± 0.07 (10)	0.57 ± 0.07 (10)
Percent of Control			100.48	86.27	92.73

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Male

	Phase Day	Treatment Groups (mg/kg)			
		0	156	312	625
Lymphocytes (10 ³ /uL)	SD 92	3.80 ± 0.23 (10)	3.63 ± 0.28 (10)	3.39 ± 0.36 (10)	3.61 ± 0.30 (10)
Percent of Control			95.57	89.25	95.05
Total Lymphocytes (10 ³ /uL)	SD 92	3.80 ± 0.23 (10)	3.64 ± 0.28 (10)	3.40 ± 0.36 (10)	3.62 ± 0.30 (10)
Percent of Control			95.71	89.40	95.24
Monocytes (10 ³ /uL)	SD 92	0.08 ± 0.02 (10)	0.09 ± 0.01 (10)	0.10 ± 0.01 (10)	0.11 ± 0.01 (10)
Percent of Control			123.68	132.89	142.11
Basophils (10 ³ /uL)	SD 92	0.00 ± 0.00 (10)	0.00 ± 0.00 (10)	0.00 ± 0.00 (10)	0.00 ± 0.00 (10)
Percent of Control			150.00	150.00	200.00
Eosinophils (10 ³ /uL)	SD 92	0.07 ± 0.01 (10)	0.06 ± 0.02 (10)	0.08 ± 0.03 (10)	0.08 ± 0.02 (10)
Percent of Control			86.15	124.62	116.92
Large Unstained Cells (10 ³ /uL)	SD 92	0.01 ± 0.00 (10)	0.01 ± 0.00 (10)	0.01 ± 0.00 (10)	0.01 ± 0.00 (10)
Percent of Control			171.43	171.43	200.00

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Male

	Phase Day	Treatment Groups (mg/kg)	
		1250	2500
Hematocrit (%)	SD 92	49.2 ± 0.7 (10)	48.6 ± 0.5 (10)
Percent of Control		102.9	101.8
Manual Hematocrit (%)	SD 92	50.3 ± 0.6 (10)	49.5 ± 0.6 (10)
Percent of Control		103.5	101.9
Hemoglobin (g/dL)	SD 92	16.0 ± 0.2 (10)	15.9 ± 0.2 (10)
Percent of Control		103.5	102.6
Erythrocytes (10 ⁶ /uL)	SD 92	10.72 ± 0.13 (10)	10.55 ± 0.11 (10)
Percent of Control		103.75	102.03
Reticulocytes (10 ³ /uL)	SD 92	273.0 ± 5.0 (10)	270.0 ± 6.2 (10)
Percent of Control		106.7	105.6
Mean Cell Volume (fL)	SD 92	45.8 ± 0.1 (10)	46.1 ± 0.2 (10)
Percent of Control		99.2	99.8
Mean Cell Hemoglobin (pg)	SD 92	14.9 ± 0.1 (10)	15.0 ± 0.0 (10)
Percent of Control		99.8	100.5
Mean Cell Hemoglobin Concentration (g/dL)	SD 92	32.6 ± 0.1 (10)	32.6 ± 0.1 (10)
Percent of Control		100.5	100.6
Platelets (10 ³ /uL)	SD 92	685. ± 55 (10)	819. ± 39 (10)
Percent of Control		84.	100.
White Blood Cells (10 ³ /uL)	SD 92	4.26 ± 0.24 (10)	4.62 ± 0.28 (10)
Percent of Control		93.15	101.16
Neutrophils (10 ³ /uL)	SD 92	0.50 ± 0.06 (10)	0.63 ± 0.10 (10)
Percent of Control		80.45	102.26

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Male

	Phase Day	Treatment Groups (mg/kg)	
		1250	2500
Lymphocytes (10 ³ /uL)	SD 92	3.63 ± 0.21 (10)	3.83 ± 0.20 (10)
Percent of Control		95.71	100.87
Total Lymphocytes (10 ³ /uL)	SD 92	3.64 ± 0.21 (10)	3.84 ± 0.20 (10)
Percent of Control		95.71	100.87
Monocytes (10 ³ /uL)	SD 92	0.06 ± 0.02 (10)	0.07 ± 0.01 (10)
Percent of Control		75.00	96.05
Basophils (10 ³ /uL)	SD 92	0.00 ± 0.00 (10)	0.01 ± 0.00 (10)
Percent of Control		50.00	250.00
Eosinophils (10 ³ /uL)	SD 92	0.06 ± 0.02 (10)	0.07 ± 0.02 (10)
Percent of Control		92.31	112.31
Large Unstained Cells (10 ³ /uL)	SD 92	0.01 ± 0.00 (10)	0.01 ± 0.00 (10)
Percent of Control		100.00	100.00

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Female

	Phase Day	Treatment Groups (mg/kg)			
		0	156	312	625
Hematocrit (%)	SD 92	47.1 ± 0.4 (10) *	47.8 ± 0.7 (10)	47.3 ± 1.1 (10)	45.9 ± 1.1 (10)
Percent of Control			101.5	100.5	97.5
Manual Hematocrit (%)	SD 92	47.9 ± 0.4 (10)	48.6 ± 0.7 (10)	48.9 ± 1.2 (10)	47.3 ± 1.0 (10)
Percent of Control			101.5	102.1	98.7
Hemoglobin (g/dL)	SD 92	15.6 ± 0.1 (10)	15.9 ± 0.2 (10)	15.9 ± 0.3 (10)	15.3 ± 0.4 (10)
Percent of Control			101.5	101.5	98.0
Erythrocytes (10 ⁶ /uL)	SD 92	10.11 ± 0.08 (10)	10.27 ± 0.15 (10)	10.17 ± 0.23 (10)	9.93 ± 0.22 (10)
Percent of Control			101.65	100.59	98.29
Reticulocytes (10 ³ /uL)	SD 92	288.0 ± 20.2 (10)	312.5 ± 26.5 (10)	285.6 ± 15.0 (10)	308.6 ± 17.7 (10)
Percent of Control			108.5	99.2	107.2
Mean Cell Volume (fL)	SD 92	46.6 ± 0.2 (10)	46.6 ± 0.2 (10)	46.6 ± 0.3 (10)	46.2 ± 0.2 (10)
Percent of Control			99.9	99.9	99.1
Mean Cell Hemoglobin (pg)	SD 92	15.5 ± 0.1 (10)	15.4 ± 0.1 (10)	15.6 ± 0.2 (10)	15.4 ± 0.1 (10)
Percent of Control			99.9	101.0	99.7
Mean Cell Hemoglobin Concentration (g/dL)	SD 92	33.2 ± 0.2 (10)	33.1 ± 0.1 (10)	33.5 ± 0.3 (10)	33.3 ± 0.1 (10)
Percent of Control			99.9	101.0	100.5
Platelets (10 ³ /uL)	SD 92	669. ± 59 (10)	678. ± 43 (10)	678. ± 71 (10)	635. ± 51 (10)
Percent of Control			101.	101.	95.
White Blood Cells (10 ³ /uL)	SD 92	3.36 ± 0.21 (10)	3.47 ± 0.19 (10)	3.14 ± 0.15 (10)	3.70 ± 0.29 (10)
Percent of Control			103.06	93.34	110.02
Neutrophils (10 ³ /uL)	SD 92	0.51 ± 0.05 (10)	0.56 ± 0.05 (10)	0.33 ± 0.03 (10)	0.53 ± 0.09 (10)
Percent of Control			111.24	65.48	104.73

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Female

	Phase Day	Treatment Groups (mg/kg)			
		0	156	312	625
Lymphocytes (10 ³ /uL)	SD 92	2.73 ± 0.17 (10)	2.76 ± 0.15 (10)	2.69 ± 0.14 (10)	2.99 ± 0.22 (10)
Percent of Control			101.06	98.50	109.37
Total Lymphocytes (10 ³ /uL)	SD 92	2.74 ± 0.17 (10)	2.77 ± 0.15 (10)	2.70 ± 0.14 (10)	3.00 ± 0.22 (10)
Percent of Control			101.02	98.47	109.18
Monocytes (10 ³ /uL)	SD 92	0.06 ± 0.01 (10)	0.08 ± 0.01 (10)	0.06 ± 0.01 (10)	0.08 ± 0.01 (10)
Percent of Control			127.12	94.92	137.29
Basophils (10 ³ /uL)	SD 92	0.00 ± 0.00 (10)	0.00 ± 0.00 (10)	0.00 ± 0.00 (10)	0.00 ± 0.00 (10)
Percent of Control			50.00	100.00	200.00
Eosinophils (10 ³ /uL)	SD 92	0.05 ± 0.01 (10)	0.05 ± 0.01 (10)	0.05 ± 0.01 (10)	0.08 ± 0.02 (10)
Percent of Control			103.92	94.12	162.75
Large Unstained Cells (10 ³ /uL)	SD 92	0.01 ± 0.00 (10)	0.01 ± 0.00 (10)	0.01 ± 0.00 (10)	0.01 ± 0.00 (10)
Percent of Control			91.67	91.67	66.67

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Female

	Phase Day	Treatment Groups (mg/kg)	
		1250	2500
Hematocrit (%)	SD 92	46.8 ± 0.5 (10)	45.7 ± 0.8 (10)
Percent of Control		99.3	97.0
Manual Hematocrit (%)	SD 92	48.2 ± 0.6 (10)	46.7 ± 0.6 (10)
Percent of Control		100.6	97.5
Hemoglobin (g/dL)	SD 92	15.6 ± 0.2 (10)	15.2 ± 0.2 (10)
Percent of Control		99.7	97.5
Erythrocytes (10 ⁶ /uL)	SD 92	10.07 ± 0.10 (10)	9.83 ± 0.17 (10)
Percent of Control		99.68	97.25
Reticulocytes (10 ³ /uL)	SD 92	313.9 ± 14.6 (10)	292.9 ± 22.3 (10)
Percent of Control		109.0	101.7
Mean Cell Volume (fL)	SD 92	46.4 ± 0.2 (10)	46.5 ± 0.1 (10)
Percent of Control		99.6	99.7
Mean Cell Hemoglobin (pg)	SD 92	15.4 ± 0.1 (10)	15.5 ± 0.1 (10)
Percent of Control		99.9	100.4
Mean Cell Hemoglobin Concentration (g/dL)	SD 92	33.3 ± 0.1 (10)	33.3 ± 0.2 (10)
Percent of Control		100.3	100.5
Platelets (10 ³ /uL)	SD 92	622. ± 44 (10)	714. ± 44 (10)
Percent of Control		93.	107.
White Blood Cells (10 ³ /uL)	SD 92	3.21 ± 0.33 (10)	4.03 ± 0.30 (10)
Percent of Control		95.33	119.89
Neutrophils (10 ³ /uL)	SD 92	0.43 ± 0.06 (10)	0.65 ± 0.06 (10)
Percent of Control		84.22	127.42

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Female

	Phase Day	Treatment Groups (mg/kg)	
		1250	2500
Lymphocytes (10 ³ /uL)	SD 92	2.65 ± 0.28 (10)	3.21 ± 0.24 (10)
Percent of Control		97.07	117.39
Total Lymphocytes (10 ³ /uL)	SD 92	2.66 ± 0.28 (10)	3.23 ± 0.24 (10)
Percent of Control		96.87	117.53
Monocytes (10 ³ /uL)	SD 92	0.07 ± 0.01 (10)	0.08 ± 0.01 (10)
Percent of Control		111.86	133.90
Basophils (10 ³ /uL)	SD 92	0.00 ± 0.00 (10)	0.00 ± 0.00 (10)
Percent of Control		150.00	150.00
Eosinophils (10 ³ /uL)	SD 92	0.05 ± 0.01 (10)	0.08 ± 0.02 (10)
Percent of Control		98.04	158.82
Large Unstained Cells (10 ³ /uL)	SD 92	0.01 ± 0.00 (10)	0.02 ± 0.00 (10)
Percent of Control		50.00	150.00

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LEGEND

SD – Study Day; GD – Gestation Day; LD – Lactation Day; PND – Postnatal Day, adults post-weaning

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

Hematology for gestation phase includes pregnant females only

Statistical analysis performed by Jonckheere (trend) and Shirley or Dunn (pairwise) tests (unless otherwise noted).

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 ****