

Experiment Number: C00058-01
Test Type: TOX
Route: Oral Gavage
Species/Strain: Mouse/B6C3F1/N

PA43: Hematology Summary
Test Compound: Black Cohosh
CAS Number: 84776-26-1

Date Report Requested: 01/09/2018
Time Report Requested: 12:29:50
Lab: NTP

C Number:	C00058-01
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Female

Experiment Number: C00058-01
Test Type: TOX
Route: Oral Gavage
Species/Strain: Mouse/B6C3F1/N

PA43: Hematology Summary
Test Compound: Black Cohosh
CAS Number: 84776-26-1

Date Report Requested: 01/09/2018
Time Report Requested: 12:29:50
Lab: NTP

F1 Female									
		Treatment Groups (mg/kg)							
Phase Day		0		62.5		125		250	
Hematocrit (%)	SD 92	47.4	± 0.5 (15) **	46.6	± 0.5 (11)	45.9	± 0.4 (13)	45.7	± 0.4 (15) *
Percent of Control				98.4		96.9		96.4	
Manual Hematocrit (%)	SD 92	49.1	± 0.6 (12) **	48.9	± 0.7 (10)	47.3	± 0.5 (12)	47.5	± 0.4 (15)
Percent of Control				99.6		96.4		96.7	
Hemoglobin (g/dL)	SD 92	15.5	± 0.1 (15) **	15.3	± 0.2 (11)	15.0	± 0.1 (13) *	14.8	± 0.1 (15) **
Percent of Control				98.7		96.6		95.4	
Erythrocytes (10 ⁶ /uL)	SD 92	10.49	± 0.18 (15) **	9.76	± 0.09 (11) **	9.39	± 0.07 (13) **	9.09	± 0.07 (15) **
Percent of Control				93.02		89.47		86.63	
Reticulocytes (10 ³ /uL)	SD 92	266.2	± 10.5 (15)	300.6	± 13.8 (11)	251.5	± 14.3 (13)	233.6	± 10.0 (15)
Percent of Control				112.9		94.5		87.8	
Mean Cell Volume (fL)	SD 92	45.2	± 0.4 (15) **	47.7	± 0.2 (11) **	48.9	± 0.2 (13) **	50.2	± 0.2 (15) **
Percent of Control				105.6		108.2		111.1	
Mean Cell Hemoglobin (pg)	SD 92	14.8	± 0.2 (15) **	15.7	± 0.1 (11) **	15.9	± 0.1 (13) **	16.2	± 0.0 (15) **
Percent of Control				105.9		107.6		109.8	
Mean Cell Hemoglobin Concentration (g/dL)	SD 92	32.7	± 0.1 (15)	32.8	± 0.2 (11)	32.6	± 0.1 (13)	32.3	± 0.1 (15)
Percent of Control				100.4		99.7		98.9	
Platelets (10 ³ /uL)	SD 92	672.	± 39 (15) **	778.	± 44 (11)	774.	± 55 (13) *	878.	± 34 (15) **
Percent of Control				116.		115.		131.	
White Blood Cells (10 ³ /uL)	SD 92	5.60	± 0.27 (15) *	5.60	± 0.41 (11)	5.94	± 0.29 (13)	5.30	± 0.44 (15)
Percent of Control				99.90		106.03		94.57	
Neutrophils (10 ³ /uL)	SD 92	0.71	± 0.08 (15)	0.56	± 0.09 (11)	0.79	± 0.06 (13)	0.63	± 0.07 (15)
Percent of Control				79.40		112.66		89.79	

Experiment Number: C00058-01
Test Type: TOX
Route: Oral Gavage
Species/Strain: Mouse/B6C3F1/N

PA43: Hematology Summary
Test Compound: Black Cohosh
CAS Number: 84776-26-1

Date Report Requested: 01/09/2018
Time Report Requested: 12:29:50
Lab: NTP

F1 Female

	Phase Day	Treatment Groups (mg/kg)							
		0		62.5		125		250	
Total Lymphocytes (10 ³ /uL)	SD 92	4.53 ±	0.20 (15) *	4.90 ±	0.36 (11)	4.96 ±	0.27 (13)	4.45 ±	0.36 (15)
Percent of Control				108.36		109.57		98.41	
Monocytes (10 ³ /uL)	SD 92	0.07 ±	0.02 (15)	0.07 ±	0.01 (11)	0.09 ±	0.02 (13)	0.12 ±	0.03 (15)
Percent of Control				97.40		124.66		162.50	
Basophils (10 ³ /uL)	SD 92	0.01 ±	0.00 (15)	0.00 ±	0.00 (11)	0.01 ±	0.00 (13)	0.01 ±	0.00 (15)
Percent of Control				37.19		83.92		100.00	
Eosinophils (10 ³ /uL)	SD 92	0.29 ±	0.16 (15)	0.06 ±	0.02 (11)	0.09 ±	0.02 (13)	0.08 ±	0.01 (15)
Percent of Control				19.17		30.04		29.03	

Experiment Number: C00058-01
Test Type: TOX
Route: Oral Gavage
Species/Strain: Mouse/B6C3F1/N

PA43: Hematology Summary
Test Compound: Black Cohosh
CAS Number: 84776-26-1

Date Report Requested: 01/09/2018
Time Report Requested: 12:29:50
Lab: NTP

F1 Female

	Phase Day	Treatment Groups (mg/kg)	
		500	1000
Hematocrit (%)	SD 92	44.2 ± 0.4 (13) **	44.0 ± 0.3 (15) **
Percent of Control		93.2	92.8
Manual Hematocrit (%)	SD 92	46.2 ± 0.4 (15) **	45.4 ± 0.5 (14) **
Percent of Control		94.1	92.6
Hemoglobin (g/dL)	SD 92	14.4 ± 0.1 (13) **	14.2 ± 0.1 (15) **
Percent of Control		92.9	91.9
Erythrocytes (10 ⁶ /uL)	SD 92	8.64 ± 0.08 (13) **	8.36 ± 0.05 (15) **
Percent of Control		82.36	79.65
Reticulocytes (10 ³ /uL)	SD 92	266.8 ± 11.2 (13)	249.7 ± 11.5 (15)
Percent of Control		100.2	93.8
Mean Cell Volume (fL)	SD 92	51.1 ± 0.2 (13) **	52.6 ± 0.2 (15) **
Percent of Control		113.1	116.3
Mean Cell Hemoglobin (pg)	SD 92	16.6 ± 0.1 (13) **	17.0 ± 0.1 (15) **
Percent of Control		112.4	115.1
Mean Cell Hemoglobin Concentration (g/dL)	SD 92	32.5 ± 0.1 (13)	32.4 ± 0.2 (15)
Percent of Control		99.6	99.2
Platelets (10 ³ /uL)	SD 92	824. ± 53 (13) **	871. ± 31 (15) **
Percent of Control		123.	130.
White Blood Cells (10 ³ /uL)	SD 92	4.87 ± 0.34 (13)	4.63 ± 0.35 (15)
Percent of Control		86.99	82.60
Neutrophils (10 ³ /uL)	SD 92	0.60 ± 0.07 (13)	0.58 ± 0.09 (15)
Percent of Control		84.96	82.80

F1 Female				
Treatment Groups (mg/kg)				
	Phase Day	500	1000	
Total Lymphocytes (10 ³ /uL)	SD 92	4.16 ± 0.31 (13)	3.93 ± 0.30 (15)	
Percent of Control		91.94	86.92	
Monocytes (10 ³ /uL)	SD 92	0.05 ± 0.01 (13)	0.05 ± 0.01 (15)	
Percent of Control		67.99	62.50	
Basophils (10 ³ /uL)	SD 92	0.00 ± 0.00 (13)	0.01 ± 0.00 (15)	
Percent of Control		62.94	72.73	
Eosinophils (10 ³ /uL)	SD 92	0.06 ± 0.01 (13)	0.06 ± 0.01 (15)	
Percent of Control		19.67	19.59	

Experiment Number: C00058-01
Test Type: TOX
Route: Oral Gavage
Species/Strain: Mouse/B6C3F1/N

PA43: Hematology Summary
Test Compound: Black Cohosh
CAS Number: 84776-26-1

Date Report Requested: 01/09/2018
Time Report Requested: 12:29:50
Lab: NTP

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

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 ****