

**Study Number:** I99067  
**Test Type:** TOX  
**Route:** Oral Gavage  
**Species/Strain:** Rat/Harlan Sprague Dawley

**I04: Mean Body Weight Summary**  
**Test Compound:** Echinacea purpurea root extract  
**CAS Number:** 90028-20-9

**Date Report Requested:** 06/04/2025  
**Time Report Requested:** 17:22:28  
**Lab:** Burleson Research Technologies

**Study Number:** I99067  
**Study Sex:** Female  
**PWG Approval Date:** See web page for date of PWG Approval  
**Version:** v1.7.2  
**Stat Version:** 2025.02.11S

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Lab: Burleson Research Technologies

Females: Immunopath

Treatment Groups (mg/kg)

Phase Day	0		125			250			500		
	Wt (g)	N	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N
SD0	213.9 ± 3.7	12	215.8 ± 4.1	100.9	12	219.8 ± 3.2	102.8	12	218.3 ± 4.6	102.1	12
SD7	225.9 ± 4.8	12	225.3 ± 4.4	99.7	12	228.0 ± 3.4	100.9	12	227.9 ± 4.3	100.9	12
SD14	230.1 ± 4.3	12	231.3 ± 4.5	100.5	12	233.6 ± 3.0	101.5	12	231.8 ± 5.4	100.8	11
SD21	237.9 ± 4.0	12	238.4 ± 5.3	100.2	12	240.4 ± 3.3	101.1	12	241.0 ± 5.4	101.3	11
SD24	NA		NA			NA			NA		
SD28	236.3 ± 3.8	12	238.4 ± 5.0	100.9	12	243.6 ± 3.6	103.1	12	237.7 ± 5.4	100.6	11

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**Lab:** Burleson Research Technologies

**Females: Immunopath**

Phase Day	Treatment Groups (mg/kg)								
	1000			2000			15 mg/kg CPS		
	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N
SD0	217.6 ± 2.9	101.7	12	212.9 ± 4.2	99.5	12	NA		
SD7	227.8 ± 3.3	100.8	12	222.9 ± 3.2	98.7	12	NA		
SD14	233.0 ± 3.1	101.3	12	229.7 ± 3.9	99.8	12	NA		
SD21	240.3 ± 3.3	101.0	12	236.8 ± 3.3	99.5	12	NA		
SD24	NA			NA			247.6 ± 3.6		8
SD28	240.0 ± 3.1	101.6	12	239.8 ± 4.4	101.5	12	235.3 ± 3.1	99.6	8

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Females: NK/Pheno

Treatment Groups (mg/kg)

Phase Day	0		125			250			500		
	Wt (g)	N	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N
SD0	223.2 ± 3.9	12	234.7 ± 3.7	105.2	12	230.5 ± 3.7	103.3	12	229.0 ± 3.8	102.6	12
SD7	225.3 ± 3.8	12	235.4 ± 4.3	104.5	12	232.0 ± 3.1	103.0	12	232.4 ± 3.8	103.2	12
SD14	231.0 ± 3.6	12	244.0 ± 4.2	105.6	12	240.1 ± 3.5	103.9	12	238.8 ± 4.3	103.4	12
SD21	237.8 ± 5.3	12	247.9 ± 3.9	104.2	12	245.8 ± 3.8	103.4	12	241.8 ± 3.8	101.7	12
SD24	NA		NA			NA			NA		
SD28	236.3 ± 4.9	12	247.8 ± 4.1	104.8	12	247.2 ± 3.0	104.6	12	246.3 ± 3.4	104.2	12

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Lab: Burleson Research Technologies

Females: NK/Pheno

Phase Day	Treatment Groups (mg/kg)								
	1000			2000			15 mg/kg CPS		
	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N
SD0	225.6 ± 3.6	101.1	12	233.3 ± 3.1	104.6	12	NA		
SD7	230.2 ± 4.2	102.2	12	237.9 ± 3.6	105.6	12	NA		
SD14	235.9 ± 3.7	102.1	12	243.8 ± 3.2	105.6	12	NA		
SD21	243.3 ± 5.1	102.3	12	248.1 ± 3.6	104.3	12	NA		
SD24	NA			NA			243.3 ± 3.4		8
SD28	245.3 ± 5.2	103.8	12	249.8 ± 4.0	105.7	12	235.8 ± 3.6	99.8	8

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Lab: Burleson Research Technologies

Females: SRBC

Treatment Groups (mg/kg)

Phase Day	0		125			250			500		
	Wt (g)	N	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N
SD0	233.1 ± 3.0	12	233.9 ± 4.1	100.4	12	229.3 ± 3.1	98.4	12	236.1 ± 3.7	101.3	12
SD7	237.8 ± 3.0	12	239.7 ± 4.7	100.8	12	234.9 ± 4.1	98.8	12	240.8 ± 3.0	101.3	12
SD14	243.1 ± 3.2	12	248.3 ± 5.2	102.1	12	239.4 ± 4.0	98.5	12	248.8 ± 3.9	102.4	12
SD21	247.8 ± 2.9	12	250.8 ± 5.3	101.2	12	243.8 ± 3.8	98.4	12	252.8 ± 4.3	102.1	12
SD24	NA		NA			NA			NA		
SD28	243.6 ± 3.1	11	250.8 ± 6.2	103.0	12	240.9 ± 3.8	98.9	12	251.0 ± 4.1	103.0	12

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Lab: Burleson Research Technologies

Females: SRBC

Phase Day	Treatment Groups (mg/kg)								
	1000			2000			15 mg/kg CPS		
	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N
SD0	235.6 ± 4.4	101.1	12	233.1 ± 3.9	100.0	12	NA		
SD7	239.9 ± 4.0	100.9	12	238.7 ± 4.6	100.4	12	NA		
SD14	248.4 ± 4.4	102.2	12	246.7 ± 4.1	101.5	12	NA		
SD21	251.2 ± 4.6	101.4	12	251.9 ± 3.7	101.7	12	NA		
SD24	NA			NA			262.9 ± 4.0		8
SD28	246.6 ± 5.1	101.2	12	247.1 ± 4.8	101.4	12	245.4 ± 7.1	100.7	8

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Lab: Burlison Research Technologies

Females: KLH

Treatment Groups (mg/kg)

Phase Day	0		125			250			500		
	Wt (g)	N	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N
SD0	211.0 ± 3.6	12	209.5 ± 2.9	99.3	12	210.3 ± 2.3	99.6	12	204.6 ± 2.4	97.0	12
SD7	222.2 ± 4.0	12	217.2 ± 3.3	97.7	12	223.3 ± 3.9	100.5	12	217.9 ± 3.0	98.1	12
SD14	231.8 ± 3.9	12	229.6 ± 4.3	99.0	12	230.7 ± 3.2	99.5	11	227.8 ± 2.9	98.3	12
SD21	233.8 ± 3.7	12	230.6 ± 4.3	98.6	12	236.3 ± 3.7	101.0	11	234.9 ± 2.9	100.5	12
SD28	240.9 ± 4.2	12	234.2 ± 4.3	97.2	12	238.5 ± 3.2	99.0	11	239.3 ± 3.0	99.3	12

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Lab: Burleson Research Technologies

Females: KLH

Phase Day	Treatment Groups (mg/kg)								
	1000			2000			15 mg/kg CPS		
	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N
SD0	210.4 ± 3.5	99.7	12	205.3 ± 2.5	97.3	12	NA		
SD7	224.1 ± 4.9	100.9	12	218.9 ± 3.0	98.5	12	NA		
SD14	230.4 ± 3.7	99.4	12	228.6 ± 3.4	98.6	12	230.4 ± 3.7	99.4	8
SD21	236.8 ± 3.4	101.3	12	234.7 ± 3.1	100.4	12	222.8 ± 3.6	95.3	8
SD28	241.4 ± 4.9	100.2	12	234.6 ± 2.9	97.4	12	215.0 ± 2.0 **	89.2	8

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Lab: Burleson Research Technologies

Females: CTL

Treatment Groups (mg/kg)

Phase Day	0		125			250			500		
	Wt (g)	N	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N
SD0	216.7 ± 2.8	12	220.2 ± 2.0	101.6	12	222.9 ± 3.8	102.9	12	222.7 ± 3.4	102.8	12
SD7	223.8 ± 3.3	12	226.7 ± 2.7	101.3	12	227.6 ± 4.1	101.7	12	227.5 ± 3.4	101.6	12
SD14	229.4 ± 3.5	12	237.8 ± 3.6	103.6	12	235.8 ± 3.5	102.8	12	236.3 ± 3.9	103.0	12
SD20	NA		NA			NA			NA		
SD21	235.3 ± 4.2	12	241.1 ± 2.0	102.4	11	240.3 ± 4.0	102.1	12	240.7 ± 3.4	102.3	12
SD27	NA		NA			NA			NA		
SD28	228.4 ± 4.0	11	236.1 ± 3.7	103.4	11	238.8 ± 3.9	104.6	12	240.8 ± 3.3	105.5	12

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Females: CTL

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	1000			2000			15 mg/kg CPS		
	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N	Wt (g)	% of CNTL	N
SD0	218.3 ± 1.9	100.8	12	219.6 ± 3.2	101.3	12	NA		
SD7	227.2 ± 2.6	101.5	12	226.0 ± 3.3	101.0	12	NA		
SD14	232.8 ± 3.0	101.5	12	235.9 ± 3.2	102.8	12	NA		
SD20	NA			NA			245.3 ± 5.3		8
SD21	239.5 ± 3.1	101.8	12	237.3 ± 2.7	100.8	12	NA		
SD27	NA			NA			235.3 ± 3.8		8
SD28	235.3 ± 3.8	103.0	12	235.1 ± 3.7	102.9	12	226.8 ± 3.2	99.3	8

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LEGEND

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Weights are displayed as mean  $\pm$  SEM, with N as the number of animals.

Statistical analysis performed by Jonckheere (trend) and Williams or Dunnett (pairwise) tests. The positive control group (15 mg/kg CPS) was excluded from trend test.

Statistical analysis for the positive control group (15 mg/kg CPS) compared to the vehicle control group was performed using the t-test on days where both vehicle control and positive control data were available.

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  $p \leq 0.01$

SEM = Standard Error of the Mean

SD = Study Day

CPS = Cyclophosphamide

NA - Not Available

**\*\* END OF REPORT \*\***