

Study Number: I99067

Test Type: TOX

Route: Oral Gavage

Species/Strain: Rat/Harlan Sprague Dawley

I04G: Mean Body Weight Gain

Test Compound: Echinacea purpurea root extract

CAS Number: 90028-20-9

Date Report Requested: 06/09/2025

Time Report Requested: 15:30:16

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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Females: NK/Pheno

Treatment Groups (mg/kg)

Phase	Days	0		125		250		500		1000		2000	
		Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N
SD	0 - 7	2.1 ± 0.9	12	0.8 ± 1.5	12	1.5 ± 2.0	12	3.4 ± 0.9	12	4.6 ± 1.7	12	4.6 ± 1.9	12
	7 - 14	5.8 ± 1.0	12	8.6 ± 0.9	12	8.1 ± 0.8	12	6.4 ± 1.0	12	5.8 ± 1.2	12	5.9 ± 1.8	12
	14 - 21	6.8 ± 2.6	12	3.9 ± 1.1	12	5.8 ± 1.9	12	3.0 ± 1.1	12	7.3 ± 2.0	12	4.3 ± 1.4	12
	21 - 28	-1.5 ± 2.4	12	-0.2 ± 0.6	12	1.3 ± 1.9	12	4.4 ± 1.2 *	12	2.1 ± 0.9	12	1.8 ± 1.7	12
	0 - 28	13.2 ± 3.4 *	12	13.1 ± 1.3	12	16.7 ± 2.0	12	17.3 ± 1.8	12	19.8 ± 3.1	12	16.5 ± 2.6	12

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Females: Immunopath

Treatment Groups (mg/kg)

Phase	Days	0		125		250		500		1000		2000	
		Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N
SD	0 - 7	12.0 ± 1.8	12	9.5 ± 1.1	12	8.2 ± 2.3	12	9.6 ± 1.2	12	10.3 ± 1.0	12	10.0 ± 2.3	12
	7 - 14	4.2 ± 2.3	12	5.9 ± 1.6	12	5.6 ± 1.3	12	3.9 ± 1.2	11	5.2 ± 1.0	12	6.8 ± 1.7	12
	14 - 21	7.8 ± 1.3	12	7.2 ± 1.2	12	6.8 ± 1.2	12	9.2 ± 0.4	11	7.3 ± 1.7	12	7.2 ± 0.9	12
	21 - 28	-1.7 ± 1.5	12	0.0 ± 1.1	12	3.2 ± 3.0	12	-3.3 ± 1.0	11	-0.3 ± 1.7	12	3.0 ± 3.7	12
	0 - 28	22.3 ± 2.8	12	22.6 ± 1.9	12	23.8 ± 2.9	12	19.4 ± 1.0	11	22.4 ± 1.4	12	26.9 ± 3.2	12

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Females: SRBC

Treatment Groups (mg/kg)

Phase	Days	0		125		250		500		1000		2000	
		Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N
SD	0 - 7	4.7 ± 1.2	12	5.8 ± 2.0	12	5.6 ± 2.0	12	4.7 ± 2.1	12	4.3 ± 1.2	12	5.6 ± 2.5	12
	7 - 14	5.3 ± 1.5	12	8.6 ± 2.0	12	4.5 ± 1.7	12	8.1 ± 2.4	12	8.5 ± 2.1	12	8.0 ± 2.6	12
	14 - 21	4.7 ± 1.2	12	2.6 ± 1.2	12	4.4 ± 1.1	12	4.0 ± 2.5	12	2.8 ± 1.5	12	5.3 ± 1.2	12
	21 - 28	-3.9 ± 1.3	11	0.0 ± 2.0	12	-2.9 ± 0.9	12	-1.8 ± 2.0	12	-4.6 ± 2.5	12	-4.8 ± 2.6	12
	0 - 28	10.5 ± 0.9	11	16.9 ± 3.8	12	11.6 ± 2.1	12	14.9 ± 3.3	12	11.0 ± 2.8	12	14.0 ± 2.8	12

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Females: KLH

Treatment Groups (mg/kg)

Phase	Days	0		125		250		500		1000		2000	
		Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N
SD	0 - 7	11.2 ± 1.4 *	12	7.7 ± 1.4	12	13.1 ± 2.5	12	13.3 ± 1.8	12	13.7 ± 2.0	12	13.7 ± 1.4	12
	7 - 14	9.7 ± 1.4	12	12.4 ± 1.9	12	9.2 ± 2.9	11	9.9 ± 2.4	12	6.3 ± 2.5	12	9.7 ± 1.8	12
	14 - 21	2.0 ± 2.1 *	12	1.0 ± 1.7	12	5.5 ± 2.5	11	7.1 ± 2.0	12	6.4 ± 1.4	12	6.1 ± 1.5	12
	21 - 28	7.1 ± 2.5	12	3.6 ± 1.3	12	2.2 ± 1.8	11	4.3 ± 1.6	12	4.6 ± 2.0	12	-0.1 ± 2.3 *	12
	0 - 28	29.9 ± 2.1	12	24.7 ± 2.4	12	29.0 ± 2.0	11	34.7 ± 2.4	12	31.0 ± 2.4	12	29.3 ± 2.1	12

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Females: CTL

Treatment Groups (mg/kg)

Phase	Days	0		125		250		500		1000		2000	
		Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N	Wt Gain (g)	N
SD	0 - 7	7.2 ± 2.3	12	6.5 ± 1.5	12	4.7 ± 2.1	12	4.8 ± 1.3	12	8.8 ± 1.4	12	6.4 ± 1.8	12
	7 - 14	5.6 ± 2.1	12	11.1 ± 1.5	12	8.2 ± 1.4	12	8.8 ± 2.5	12	5.6 ± 2.1	12	9.9 ± 1.7	12
	14 - 21	5.9 ± 1.3	12	1.9 ± 2.1	11	4.6 ± 1.9	12	4.4 ± 3.0	12	6.8 ± 2.6	12	1.4 ± 1.8	12
	21 - 28	-7.5 ± 2.5	11	-5.0 ± 4.1	11	-1.5 ± 1.9	12	0.2 ± 1.0	12	-4.3 ± 3.1	12	-2.3 ± 1.8	12
	0 - 28	11.8 ± 2.9	11	14.7 ± 3.8	11	15.9 ± 2.7	12	18.2 ± 1.8	12	16.9 ± 3.7	12	15.5 ± 2.2	12

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LEGEND

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.

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

**** END OF REPORT ****