

Table 5 Humoral mediated Immunity in female B6C3F1/N mice exposed to gum guggul extract via oral gavage daily for 28 days

Parameter	Vehicle	Gum Guggul Extract (ug/kg/day)					CPS 50 mg/kg	Trend Analysis p-value
		31.25	62.5	125	250	500		
<i>Serum IgM</i>								
Serum anti-KLH IgM ($\mu\text{g/ml}$)	47.14 \pm 5.63	50.70 \pm 6.27	54.76 \pm 7.92	75.48 \pm 16.31	60.62 \pm 8.81	52.10 \pm 5.54	1.26 \pm 0.13**	0.459
Serum anti-SRBC IgM (log 2)	6.34 \pm 0.17	6.61 \pm 0.15	6.35 \pm 0.19	6.57 \pm 0.17	6.24 \pm 0.14	6.05 \pm 0.20	2.66 \pm 0.54**	0.259
<i>T-Dependent antibody response to SRBC Day 4</i>								
IgM AFC/ 10^6 spleen cells	1336 \pm 187	1261 \pm 89	1453 \pm 152	1408 \pm 176	1184 \pm 92	1449 \pm 168	3 \pm 1**	0.601
IgM AFC/spleen $\times 10^3$	255 \pm 36	247 \pm 16	270 \pm 42	268 \pm 30	193 \pm 17	301 \pm 39	0 \pm 0**	0.752
Cells/spleen $\times 10^7$	19.09 \pm 0.45	19.75 \pm 0.88	18.20 \pm 1.42	19.54 \pm 0.72	16.38 \pm 0.89	20.82 \pm 1.59	6.66 \pm 1.20**	0.914
Spleen weight (mg)	75 \pm 3	82 \pm 3	80 \pm 7	84 \pm 4	75 \pm 3	87 \pm 7	36 \pm 3**	0.401

Values represent the mean (\pm SE) from 8 animals per group; *p < 0.05; **p \leq 0.01.

GGE, Gugulipid® Lot # G51177/H, ~2.45% total guggulsterone content. CPS, Cyclophosphamide positive control; IgM, Immunoglobulin M; KLH, Keyhole Limpet Hemocyanin; SRBC, Sheep Red Blood Cells, AFC, Antibody Forming Cell.