

Table 6 Cell mediated Immunity in female B6C3F1/N mice exposed to gum guggul extract via oral gavage daily for 28 days (part 1)

Parameter	Vehicle	Gum Guggul Extract (ug/kg/day)					CPS 50 mg/kg	Trend Analytics p-value
		31.25	62.5	125	250	500		
<i>Anti-CD3 Proliferation</i>								
Total cells (X10 ⁷) per spleen	14.02 ± 0.55	15.46 ± 0.95	15.62 ± 0.38	15.03 ± 0.79	13.89 ± 0.56	15.48 ± 1.06	5.40 ± 0.42**	0.632
Spleen cells stimulated with anti-CD3 (cpm/10 ⁵ spleen cells)	197822 ± 11589	171344 ± 8160	178630 ± 7854	173681 ± 8982	176566 ± 8907	161356 ± 14441	62615 ± 3873**	0.100
Unstimulated spleen cells (cpm/10 ⁵ spleen cells)	2532 ± 141	2543 ± 354	2581 ± 183	2656 ± 324	2847 ± 214	3222 ± 577	396 ± 47**	0.170
<i>Mixed Leukocyte Response Study 1</i>								
Total cells (X10 ⁷) per spleen	14.02 ± 0.55	15.46 ± 0.95	15.62 ± 0.38	15.03 ± 0.79	13.89 ± 0.56	15.48 ± 1.06	5.40 ± 0.42**	0.632
Responders + Stimulator (DBA/2) cells (cpm/10 ⁵ spleen cells)	100212 ± 8876	74750 ± 6715	67745 ± 4950	88553 ± 16340	89730 ± 11087	88363 ± 17836	17070 ± 3025**	0.527
Responder (B6C3F1/N) cells only (cpm/10 ⁵ spleen cells)	2262 ± 498	2510 ± 448	2224 ± 239	1971 ± 315	1669 ± 221	2339 ± 748	615 ± 91**	0.295
<i>Mixed Leukocyte Response Study 2</i>								
Total cells (X10 ⁷) per spleen	12.47 ± 0.91	11.70 ± 0.60	11.98 ± 0.76	12.45 ± 0.75	12.05 ± 0.89	11.41 ± 0.51	4.58 ± 0.26**	0.652
Responders + Stimulator (DBA/2) cells (cpm/10 ⁵ spleen cells)	30254 ± 5405	50532 ± 5707	58524 ± 10548	34755 ± 11762	31658 ± 4326	37726 ± 5702	3464 ± 648**	0.732
Responder (B6C3F1/N) cells only (cpm/10 ⁵ spleen cells)	711 ± 94	1120 ± 155	1252 ± 245	1006 ± 268	968 ± 321	1616 ± 401	419 ± 23*	0.295

Values represent the mean (±SE) from 8 animals/group; *p < 0.05; **p < 0.01.

GGE, Gugulipid® Lot # G51177/H, ~2.45% total guggulsterone content. CPS, cyclophosphamide; cpm, counts per minute.