

**Table S1. Sterol composition in *Leishmania* promastigotes**

	Ergosterol	5-Dehydro-episterol	Cholesterol	Cholesta-5,7,24-trienol	14-Methyl sterols	Total
<i>L. major</i>	1.1±0.2	2.2±0.3	0.17±0.02	0.43±0.02	ND	3.9±0.5
<i>L. major</i> +ITZ	ND	ND	0.19±0.07	ND	4.0±0.4	4.2±0.5
<i>c14dm<sup>-</sup></i>	ND	ND	0.14±0.04	ND	3.8±0.3	3.9±0.4
<i>c14dm<sup>-</sup></i> +C14DM	1.0±0.3	2.1±0.2	0.20±0.01	0.24±0.04	ND	3.6±0.5
<i>L. donovani</i>	0.9±0.3	2.0±0.5	0.21±0.04	1.3±0.13	ND	4.4±0.9
<i>L. donovani</i> +ITZ	ND	ND	0.24±0.06	ND	4.0±0.3	4.3±0.4
<i>L. mexicana</i>	0.26±0.11	4.0±0.2	0.20±0.04	0.29±0.17	ND	4.7±0.6
<i>L. mexicana</i> +ITZ	ND	ND	0.15±0.01	ND	3.0±0.6	3.2±0.6
<i>L. amazonensis</i>	0.32±0.1	3.8±0.2	0.17±0.02	1.1±0.5	ND	5.4±0.8
<i>L. amazonensis</i> +ITZ	ND	ND	0.18±0.03	ND	4.1±0.2	4.3±0.3

Promastigotes were cultured in the absence or presence of ITZ (provided at IC25 concentrations: 120 nM for *L. major*, 81 nM for *L. donovani*, 3.3 nM for *L. mexicana*, and 25 nM for *L. amazonensis*) from early log phase to day 1 stationary phase and total lipids were analyzed by GC-MS. Abundances of ergosterol, 5-dehydroepisterol, cholesterol, cholesta-5,7,24-trienol, 14-methyl sterols (14-methylfecosterol + 14-methylzymosterol), and total sterols were estimated in relation to the internal standard cholesta-3,5-diene (provided at  $2.0 \times 10^7$  molecules/cell). Analyses were repeated 3 times and averaged values  $\pm$  standard deviations (SDs) were shown. ND: not detectable.