

**Table S1.** Median  $\pm$  interquartile range of alpha diversity as richness index (ACE and Chao 1) and diversity estimators (Fisher, Simpson, and Shannon) of ruminal microbial population in Nellore cattle grazing *Urochloa brizantha* cv. Marandu and supplemented or not with phytogetic compounds during the rainy season.

	Supplements <sup>1</sup>				P-value <sup>2</sup>		
	EW	EPHA	MW	MPHA	ST	PHA	ST $\times$ PHA
ACE	103.78 $\pm$ 45.96	120.11 $\pm$ 38.86	89.32 $\pm$ 67.53	98.35 $\pm$ 39.41	0.363	0.813	0.729
Chao1	100.50 $\pm$ 45.75	116.50 $\pm$ 39.50	86.50 $\pm$ 66.50	95.00 $\pm$ 38.00	0.363	0.782	0.723
Fisher	13.35 $\pm$ 4.13	15.27 $\pm$ 2.92	11.61 $\pm$ 6.38	13.27 $\pm$ 4.98	0.236	0.937	0.639
Shannon	3.61 $\pm$ 0.27	3.59 $\pm$ 0.25	3.52 $\pm$ 0.40	3.46 $\pm$ 0.24	0.144	0.693	0.429
Simpson	0.95 $\pm$ 0.012	0.95 $\pm$ 0.012	0.95 $\pm$ 0.016	0.94 $\pm$ 0.011	0.198	0.621	0.498

<sup>1</sup>EW= energy supplement without phytogetic compounds addition. EPHA= energy supplement with phytogetic compounds addition. MW= mineral supplement without phytogetic compounds addition. MPHA = mineral supplement with phytogetic compounds addition. <sup>2</sup>ST = effect of the type of supplement as mineral or energy supplement by a Friedman test. PHA = effect of the addition of phytogetic compounds blend containing 10% of carvacrol and cinnamaldehyde oil and 90% hydrolyzable tannins extracted from berries and grapes at a dose of 1.5 g/kg of ingested dry matter by a Friedman test.