

Table S5: Statistical analysis of alpha diversity measures

Metricres	Mean values					Kruskal-Wallis test (P-value)	Dunn post hoc test –FDR adjusted P values									
	C	V	Y	EO1	EO2		C_V	C_Y	C_E O1	C_E O2	V_Y	V_E O1	V_E O2	Y_EO 1	Y_EO 2	EO1_E O2
Richness																
Observed richness	625.8	769.5	901	916	1034	0.026	1.00	0.616	0.217	0.028	1.00	1.00	0.358	1.00	1.00	1.00
Chao1	936	1430	1809	1825	2126	0.007	1.00	0.059	0.059	0.012	1.00	1.00	0.663	1.00	1.00	1.00
ACE	1009	1618	2055	2102	2469	0.003	1.00	0.043	0.048	0.004	1.00	1.00	0.304	1.00	1.00	1.00
Diversity																
Simpson	0.896	0.888	0.930	0.876	0.963	0.139										
Shannon	3.98	3.81	4.12	4.01	4.63	0.113										
Fisher	159	204	253	264	306	0.026	1.00	0.616	0.217	0.028	1.00	1.00	0.358	1.00	1.00	1.00

C, control (basal diet); V; virginiamycin (40g/ton); Y, Yeast (*S. cerevisiae*, 25 billion CFU/g;500g/ton); EO1, Essential oil mix immobilized microspheres (200g/ton), EO2, Essential oil mix immobilized microspheres (400g/ton)