

Supplemental Table S1. Effects of ethyl nitroacetate, α -lipoic acid or their combination on rumen mol% volatile fatty acid concentrations.

Measured variable	None	Ethyl nitroacetate		α -Lipoic acid		Both at		P	SEM
		3 mM	9 mM	3 mM	9 mM	3 mM	9 mM		
Total acids ($\mu\text{mol/mL}$) ¹	51.29	56.10	49.52	30.34	45.70	30.40	41.82	0.0664	6.680
Mol%									
Acetate	64.69 ^a	58.87 ^{ab}	54.93 ^{bc}	61.47 ^{ab}	64.46 ^a	52.08 ^c	56.08 ^{bc}	0.0004	1.539
Propionate	23.12 ^b	26.57 ^{ab}	32.33 ^a	26.09 ^{ab}	22.46 ^b	31.79 ^a	29.82 ^{ab}	0.0020	1.45
Butyrate	9.12 ^b	11.05 ^{ab}	9.98 ^b	9.16 ^b	9.47 ^b	12.10 ^a	10.95 ^{ab}	0.0040	0.488
Valerate	1.85 ^b	2.10 ^{ab}	1.53 ^b	2.31 ^{ab}	2.12 ^{ab}	2.63 ^a	1.37 ^b	0.0095	0.231
Isobutyrate	0.52	0.60	0.51	0.38	0.60	0.46	0.67	0.0675	0.060
Isovalerate	0.69 ^b	0.82 ^{ab}	0.71 ^b	0.59 ^b	0.88 ^{ab}	0.74 ^b	1.12 ^a	0.0167	0.081

¹Per mL of incubation fluid.

^{a,b,c,d}Means within rows with unlike superscripts differ ($P < 0.05$) using an LSMeans Differences with a Tukey's Honestly Significant Difference calculation.