

Table S1. Richness and diversity of rumen microbiome of Holstein and Jersey steers at different seasons.

Parameters	Breed	Season				SEM	Mixed <i>p</i> value	
		Winter	Spring	Summer	Overall		Season	Breed
OTUs	Hol	741.92	912.58	618.25	757.58	46.443	<0.01	0.40
	Jer	743.33	975.67	663.42	797.03	51.422		
	Total	746.96 ^b	944.13 ^a	640.83 ^b	-	48.649		
Chao1	Hol	854.09	1064.00	798.35	905.48	52.821	<0.01	0.55
	Jer	849.84	1135.61	834.77	944.19	54.175		
	Total	858.15 ^b	1099.81 ^a	816.56 ^b	-	53.106		
Shannon	Hol	5.63	6.46	6.77	6.29	0.198	0.01	0.85
	Jer	5.76	6.21	6.63	6.23	0.314		
	Total	5.74 ^b	6.33 ^a	6.70 ^a	-	0.261		
Inverse Simpson	Hol	0.92	0.96	0.96	0.95	0.010	0.02	0.68
	Jer	0.91	0.93	0.96	0.93	0.020		
	Total	0.92 ^b	0.94 ^{ab}	0.96 ^a	-	0.015		

OTUs, operational taxonomic units; SEM, standard error of the mean; Hol, Holstein steer; Jer, Jersey steer. ^{a, b, c} in the same row indicate the significant differences ($p < 0.05$) of data among three different seasons regardless of breed.