

Table S1. The primers (forward and reverse) of the selected microbial groups for qPCR.

Microbial Groups *	Sequence (5'→3')	Size (bp)	References
Bacteria	F: CGGCAACGAGCGCAACCC R: CCATTGTAGCACGTGTGTAGCC	146	[69]
Protozoa	F: GCTTTCGWTGGTAGTGTATT R: CTTGCCCTCYAATCGTWCT	223	[70]
Fungi	F: GAGGAAGTAAAAGTCGTAACAAGGTTTC R: CAAATTCACAAAGGGTAGGATGATT	120	[69]
Methanogens	F: GGATTAGATACCCSGGTAGT R: GTTGARTCCAATTAAACCGCA	192	[71]
Selected groups of bacteria			
<i>Ruminococcus albus</i>	F: CCCTAAAAGCAGTCTTAGTTCG R: CCTCCTTGCGTTAGAACA	176	[72]
<i>Ruminococcus flavefaciens</i>	F: CGAACGGAGATAATTTGAGTTTACTTAGG R: CGGTCTCTGTATGTTATGAGGTATTACC	132	[69]
<i>Fibrobacter ccinogenes</i>	F: GTTCGGAATTACTGGGCGTAAA R: CGCCTGCCCCTGAACTATC	121	[69]
<i>Selenomonas ruminantium</i>	F: CAATAAGCATTCCGCCTGGG R: TTCACTCAATGTCAAGCCCTGG	138	[73]
<i>Prevotella ruminicola</i>	F: GAAAGTCGGATTAATGCTCTATGTTG R: CATCCTATAGCGGTAAACCTTTGG	74	[73]
<i>Prevotella</i>	F: GGTTCTGAGAGGAAGGTCCTCC R: TCCTGCACGCTACTTGGCTG	121	[73]
<i>Ruminobacter amylophilus</i>	F: CTGGGGAGCTGCCTGAATG R: GCATCTGAATGCGACTGGTTG	102	[73]

* F = forward; R = reverse.

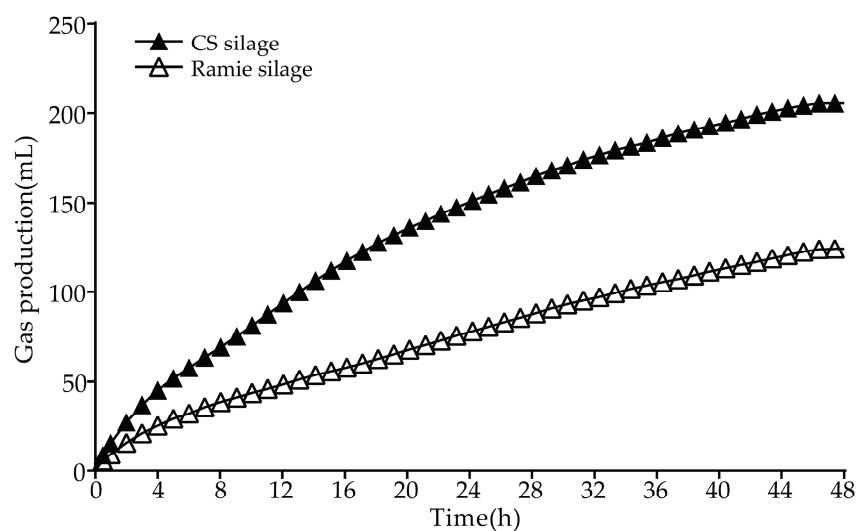


Figure S1. *In vitro* fermentation total gas production of corn stover (CS) silage or ramie silage after 48-h in vitro ruminal batch incubation (n = 3).

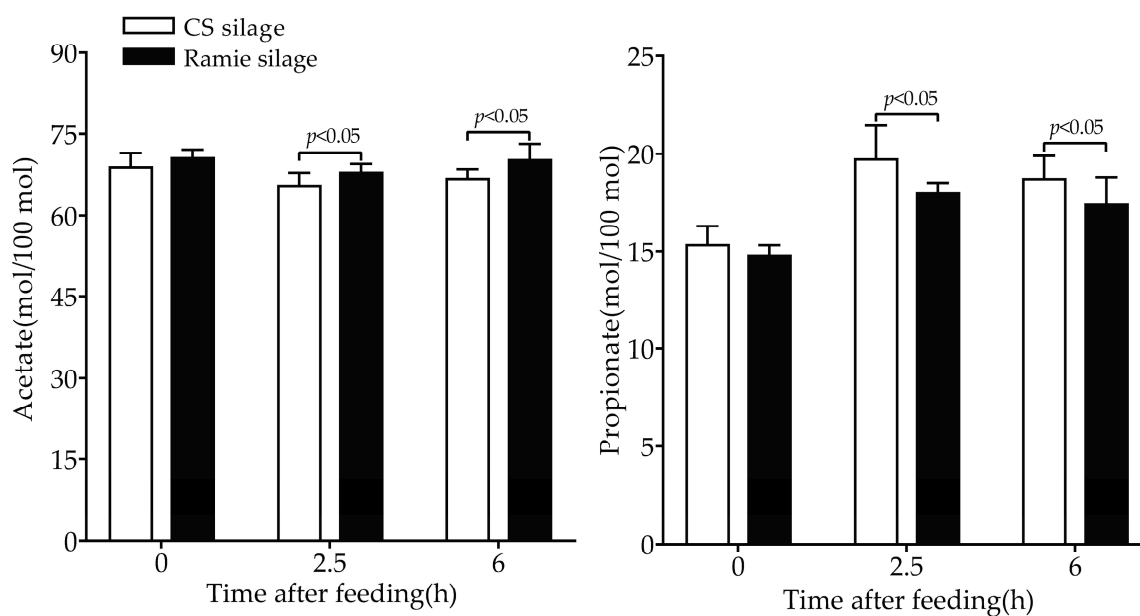


Figure S2. Acetate and propionate molar concentration in rumen fluid collected at 0, 2.5 and 6 h after morning feeding in goats fed with corn stover (CS) silage or ramie silage diets (n = 8). Means with different letters differ ($p \leq 0.05$). Error bars = SEM.