

Table S1 Characteristics of feedstock and inoculum used in this study ^a

Parameter	Corn stover	Inoculum
TS (%) ^b	93.37±0.08	15.98±0.03
VS (%) ^b	87.69±0.05	7.29±0.05
VS/TS (%) ^c	93.91±0.02	45.60±0.33
TC (% TS) ^c	43.84±0.03	24.36±0.27
TH (% TS) ^c	5.77±0.29	3.96±0.29
TN (% TS) ^c	0.96±0.01	2.67±0.01
TO (% TS) ^c	43.24±0.62	ND ^d
C/N ^c	45.91±0.26	9.11±0.01
pH	ND ^d	7.77±0.02
Ash content (% TS) ^c	5.68±0.03	8.69±0.06

^a Values are means ± SD (n = 3). ^b Content of fresh matter. ^c Content of dry matter. ^d ND: not determined.

Table S2 PCR primer design

	Sequencing area	Primer name	Primer sequence
Bacteria	338F_806R	338F	ACTCCTACGGGAGGCAGCAG
		806R	GGACTACHVGGGTWTCTAAT
Archaea	524F10ext_Arch958Rmod	524F10ext	TGYCAGCCGCCGCGGTAA
		Arch958Rmod	YCCGGCGTTGAVTCCAATT