

Table S1. Nutrients composition of biogas fertilizer.

Element	Concentration (PPM)	Element	Concentration (PPM)
N	581.31	Cr	0.141
P	6.64	Cu	0.367
K	1521.30	Fe	4.68
Al	3.83	Ga	ND
Bi	1.16	In	ND
Hg	1.02	Li	0.812
Ag	ND	Mg	154.18
B	1.32	Mn	0.293
Ba	0.13	Ni	ND
Ca	246.69	Pb	ND
Cd	0.004	Sr	1.47
Co	0.067	Zn	0.373

ND, means no result was detected.

Table S2 Sequences of oligonucleotide primers used in QRT-PCR.

Gene name	Primer orientation	Sequence (5'-3')
ZmActin	Forward	CGTTACCGGCTCATTG
ZmActin	Reverse	AGGGAGCACCAGACTCAT
ZmGA20ox1	Forward	GGAGATGGACAAGGTGGTCA
ZmGA20ox1	Reverse	ACGTGAAGTCCGGGTACG
ZmGA3ox2	Forward	ACGACGACGATCATCAGGTA
ZmGA3ox2	Reverse	AGGTGAAGAAGCCCGAGTC
ZmCYP707A2	Forward	GGAAGTACAACGAAGGCACT
ZmCYP707A2	Reverse	TGCAACTTGTAAGAAGAGTGATCC
ZmCPK11	Forward	CTAAGATGCTGGACAATTTTCGT
ZmCPK11	Reverse	CAGCCATCCCTCTTCTCTAGC
Amyb5	Forward	GAACGCGCTAGCCAACTATGT
Amyb5	Reverse	CGAACGTGTTGTCGACAGTGA
Amyb73	Forward	CCGGCTCCACGCAGAAC
Amyb73	Reverse	GAGAGCGCGATCAGGTAAGT