



OTU	Class	Order	Family	Genus
1	Methanomicrobia	Methanosarcinales	Methanosaetaceae	Methanosaeta
2	Thermoplasmata	WCHA1-57	unclassified	unclassified
3	Methanomicrobia	Methanomicrobiales	Methanospirillaceae	Methanospirillum
4	Methanobacteria	Methanobacteriales	Methanobacteriaceae	Methanobacterium
5	Methanomicrobia	Methanomicrobiales	Methanoregulaceae	Methanolinea
6	Methanomicrobia	Methanosarcinales	Methanosarcinaceae	Methanosarcina

**Figure S5:** Archaeal community composition of the enrichment culture based on percent relative abundance.

The figure includes 6 archaeal OTUs identified based of 97% similarity of the sequences.