

Supplementary Material

PICRUSt2 functionally predicts organic compounds degradation and sulfate reduction pathways in an acidogenic bioreactor

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There are 2 Table, and 1 Figure in Supplementary Material.

Table S1 Effect of influent sulfate content on relative abundance of SRB detected in the sludge samples by using Miseq high throughput sequencing.

SRB	Influent sulfate contents (mg/L)		
	4000	9000	12000
<i>Desulfovibrio</i>	13.80%	7.69%	4.28%
<i>Desulfomicrobium</i>	0.00%	0.13%	0.12%
<i>Desulfococcus</i>	0.00%	0.09%	0.42%
<i>Desulfocurvus</i>	0.00%	0.06%	0.03%
Total SRB	13.80%	7.97%	4.85%

Table S2 The hosts of genes encoding short-chain acyl-CoA dehydrogenase (EC: 1.3.8.1). (GPM, gene per million)

Order	Influent sulfate contents (mg/L)		
	4000	9000	12000
Bacteroidales	59.85	0.00	0.43
Burkholderiales	0.52	0.41	12.08
Clostridiales	622.62	5.06	1.00
Unassigned	0.00	0.00	0.00

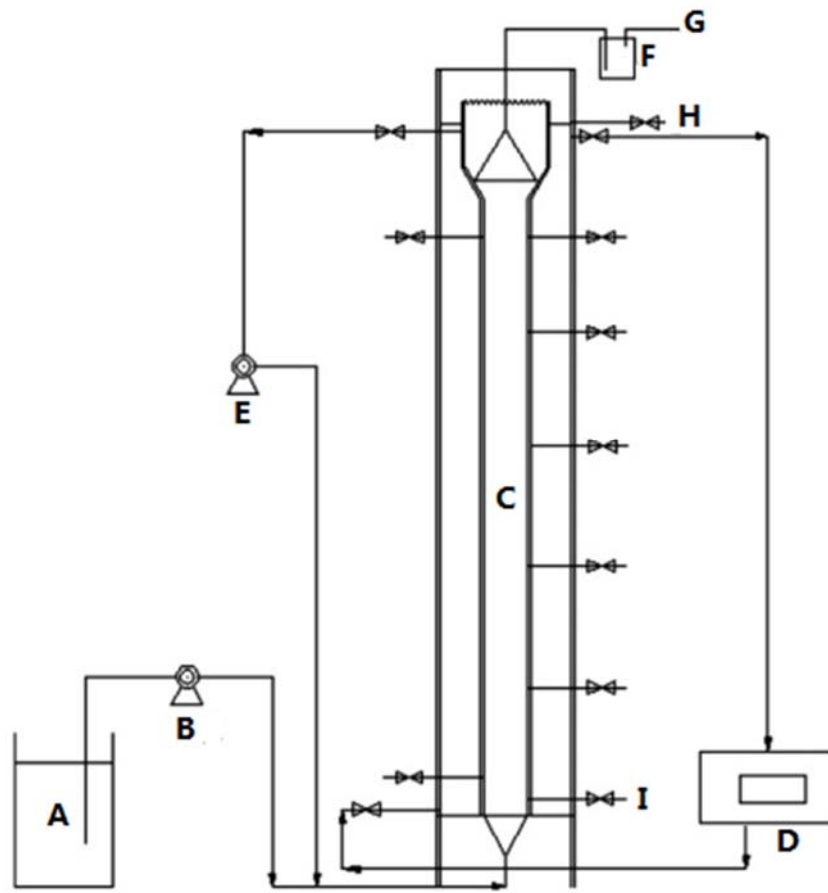


Figure S1 The EGSB reactor structure. (A) influent tank; (B) influent pump; (C) main body of EGSB reactor; (D) water bath temperature control system; (E) recycling