

# Supplementary Materials: Intensification of Short Chain Fatty Acid Production during the Alkaline Pretreatment of Fine-Sieving Fractions

Yanqing Duan, Aijuan Zhou, Xiuping Yue, Zhichun Zhang, Yanjuan Gao and Yanhong Luo

Table S1. Environmental impact of chemical agents manufacture.

Chemical agents	PED	GWP	AP	ET	EP
	MJ	kg CO <sub>2</sub> eq	kg SO <sub>2</sub> eq	CTUe	kg PO <sub>4</sub> <sup>3-</sup> eq
Methanol	65304.4	1388.4	8.3	32.7	0.6
Caustic soda	23397.8	1716.0	34.3	3.0	6.1

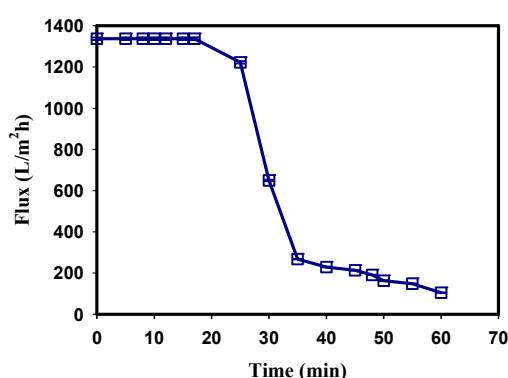


Figure S1. Time-course profiles of flux in POM recovery by sieves with pore size of 131  $\mu\text{m}$ .

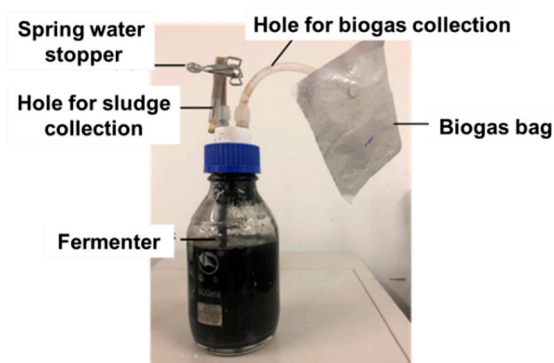


Figure S2. Picture of batch fermenter.

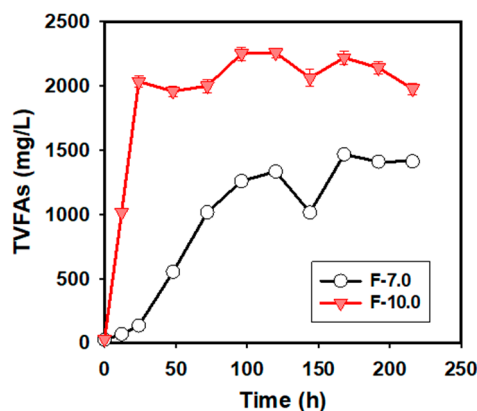


Figure S3. Time-course profiles of total SCFAs production in F-10.0 and F-7.0 groups.