

Supplementary Materials

Effect of Subcritical Water Pre-Treatment on Empty Fruit Bunch for Volatile Fatty Acid Production: A Response Surface Methodology Study

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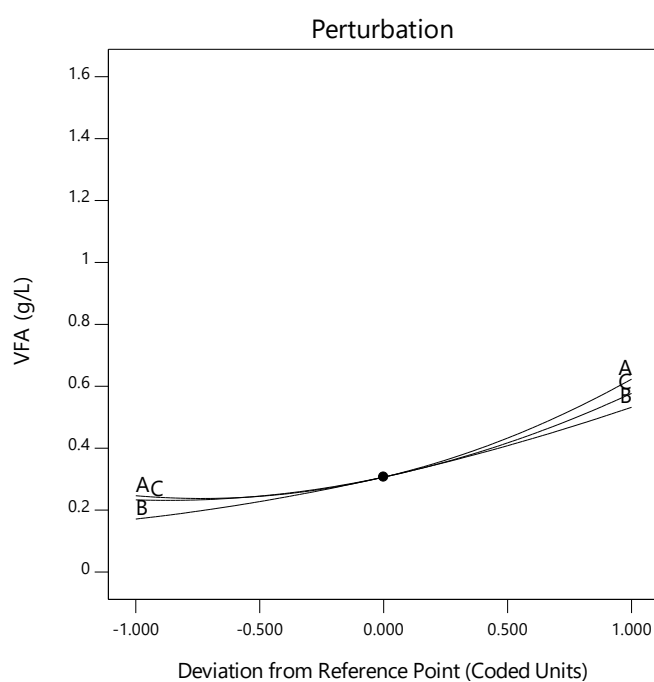
Table S1. Characteristic of EFB used in this study

Characteristic	EFB
TS (g/L)	26.67 ± 0.32
VS (g/L)	25.52 ± 0.32
VFA (g/L)	0.08 ± 0.00
MC (%)	97.33 ± 0.03
C (%)	43.24 ± 0.05
N (%)	0.53 ± 0.01
Cellulose	51.61 ± 1.30
Hemicellulose	21.49 ± 2.26
Lignin	16.70 ± 1.45
pH	5.35 ± 0.09

Data displayed as mean ± standard deviation ($n = 3$)

Table S2. List of optimised parameters generated by numerical optimisation

Number	Temperature (°C)	Time (min)	L/S ratio (-)	VFA	Desirability	
1	179.94	29.98	20	1.431	1.000	Selected
2	180.00	30.00	20	1.430	1.000	
3	180.00	29.82	20	1.428	0.999	
4	180.00	29.73	20	1.427	0.998	
5	179.44	30.00	20	1.424	0.996	
6	180.00	29.59	20	1.423	0.995	
7	180.00	30.00	20	1.420	0.993	
8	178.95	30.00	20	1.420	0.993	
9	180.00	29.36	20	1.418	0.991	
10	178.73	30.00	20	1.415	0.989	

**Figure S1.** Perturbation plot