

Supporting information for the publication of:

“Versatility of a Dilute Acid/Butanol Pretreatment investigated on Various Lignocellulosic Biomasses to Produce Lignin, Monosaccharides and Cellulose in distinct phases.” SUITE

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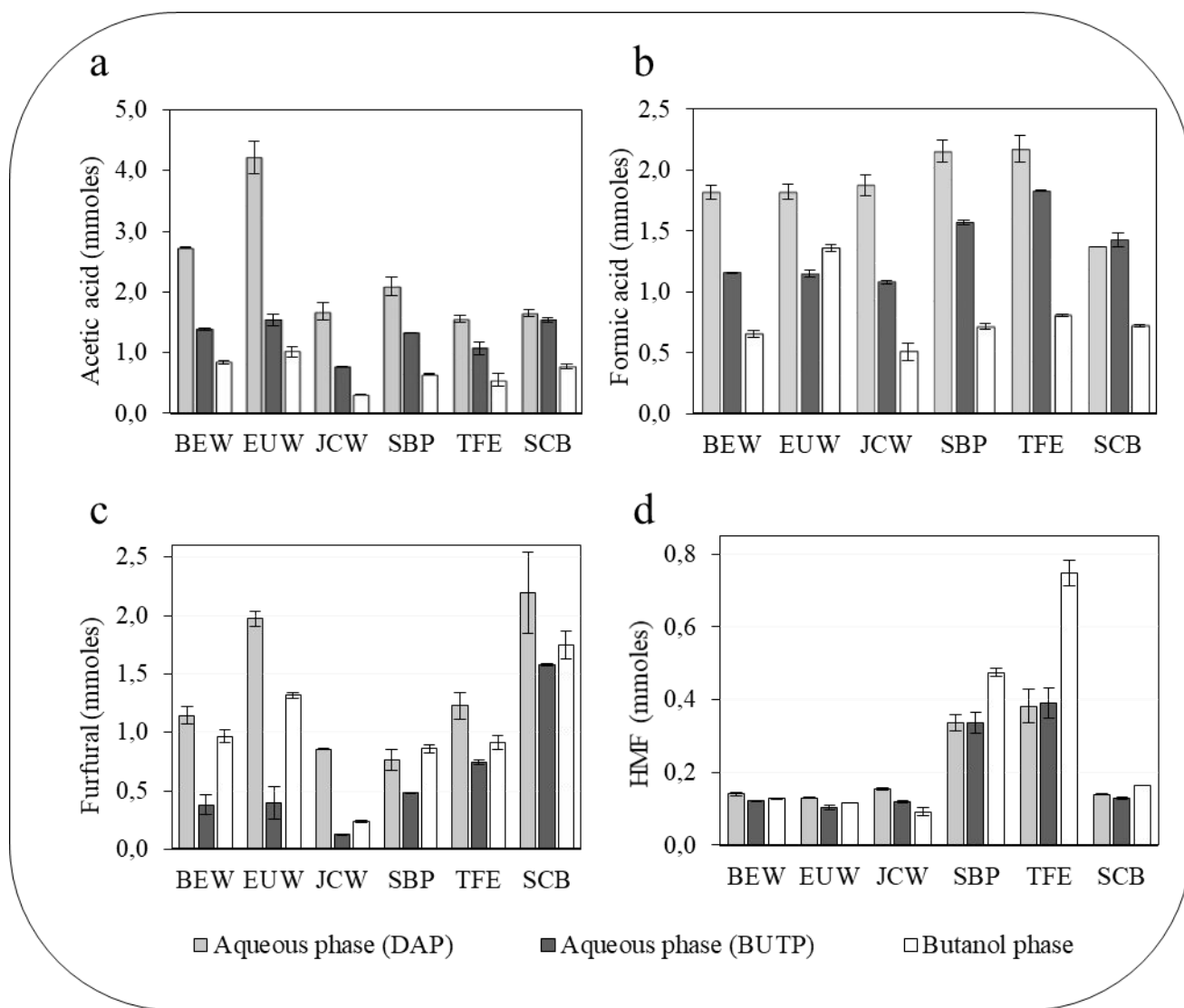


Figure S2. Amount of inhibitors of fermentation in aqueous phase from DAP and BUTP and in butanol phases. Acetic acid (A), formic acid (B), furfural (C) and 5-HMF (D).

Components ^a	TFE	SBP	BEW	JCW	EUW	SCB
	wt% dry basis					
Lignin	95.7 ± 2.9	95.4 ± 0.0	93.8 ± 0.7	93.0 ± 2.0	96.4 ± 3.1	95.7 ± 0.7
Klason	93.6 ± 2.6	92.6 ± 0.0	91.9 ± 0.6	91.1 ± 1.6	93.0 ± 2.9	92.4 ± 0.7
Acid soluble	2.1 ± 0.3	2.8 ± 0.0	1.9 ± 0.1	1.9 ± 0.4	3.39 ± 0.2	3.32 ± 0.0
Protein	8.2 ± 0.3	8.8 ± 1.4	0.7 ± 0.1	1.0 ± 0.1	1.0 ± 0.1	1.5 ± 0.4
Ash	0.1 ± 0.0	0.0 ± 0.1	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.1
Total	103.7 ± 3.6	103.3 ± 1.2	94.5 ± 0.8	93.9 ± 2.0	96.4 ± 3.1	97.1 ± 1.2

^aEach analysis was performed in duplicate

		^a Cellulose (%)	^b Saccharification (%)	^c Yield (%)	^d [C] _{glucose} (mg mL ⁻¹)
BEW	DAP	52.3 ± 0.8	3.5 ± 0.6	6.7	1.5 ± 0.1
	BUTP	71.0 ± 1.5	46.0 ± 2.0	64.8	9.7 ± 0.4
EUW	DAP	53.8 ± 0.3	7.5 ± 0.3	13.9	2.0 ± 0.0
	BUTP	74.0 ± 0.4	48.5 ± 2.4	65.5	9.5 ± 0.1
JCW	DAP	40.1 ± 1.5	0.0 ± 0.0	0.0	0.4 ± 0.0
	BUTP	43.9 ± 0.5	0.5 ± 0.0	1.1	0.6 ± 0.0
SBP	DAP	60.5 ± 2.9	46.7 ± 3.3	77.2	8.9 ± 0.0
	BUTP	68.1 ± 0.4	69.1 ± 2.5	100	11.6 ± 0.6
TFE	DAP	51.6 ± 1.2	20.2 ± 2.9	39.1	3.7 ± 0.1
	BUTP	70.4 ± 2.4	73.7 ± 1.5	100	11.0 ± 0.2
SCB	DAP	53.0 ± 1.0	9.9 ± 0.4	18.7	2.3 ± 0.3
	BUTP	80.7 ± 1.9	77.5 ± 0.7	96.0	11.6 ± 0.3

^aAmount of cellulose in the solid residue after pretreatment
^bYield of dried residue hydrolyzed by enzymatic saccharification
^cPercentage of cellulose hydrolyzed/ ^dConcentration of glucose produced