

Table S1. Fermentation data on *L. digitata* hydrolysate by *C. acetobutylicum* ATCC 824 and *C. beijerinckii* strains NCIMB 8052 and DSM6423 on different conditions: raw hydrolysate (H), hydrolysate with addition of salts and nutrients (HSN), compared to fermentation on pure sugars mixtures containing mannitol (4 g/L) and glucose (22 g/L) (control), or only glucose (glucose only). Data from 6 days of cultivation. Data represent the average of two replicate experiments.

C.beijerinckii NCIMB8052	H	HSN	Control (pure sugars)	Glucose only
substrate initial (g/L)				
D-Glucose	9,58	9,49	22,11	20,9
Mannitol	5,9	5,6	4,6	
Glucan	10,67	10,44		
Lactic acid	1,2	1,2		
Acetic acid		2,25	2,28	2,2
substrate consumed (g/L)				
D-Glucose	9,3	9,33	22,08	20,9
Mannitol	0,14	3,82	1,52	
Glucan	1,67	8,6		
Lactic acid	1,2	1,12		
Acetic acid		0,83	1,57	1,3
Fermentation products (g/L)				
Acetic acid				
Butyrate	0,79	2,40	1,17	0,70
Isopropanol				
Ethanol	0,08	0,15	0,15	
Butanol	3,25	6,68	6,51	5,50
Acetone	0,23	0,64	1,14	1,40
Total ABE products (g/L)	3,56	7,47	7,80	6,90
Butanol ratio in ABE (%)	91%	89%	83%	80%
ABE yield total	0,14	0,29	0,29	0,33
ABE yield partial	0,32	0,34	0,33	0,33
Sugar consumption (%)	42%	85%	88%	100%

C. beijerinckii DSM6423	H	HSN	Control (pure sugars)	Glucose only (Diallo, Simons et al 2019)
substrate initial (g/L)				
D-Glucose	9,46	9,59	22,18	40,47
Mannitol	5,8	5,82	4,37	
Glucan	10,66	10,67		
Lactic acid	1,2	1,2		
Acetic acid		2,35	2,23	2,37
substrate consumed (g/L)				
D-Glucose	2,04	9,45	22,15	38,75
Mannitol	0,22	1,9	0,43	
Glucan	0,79	9,45		
Lactic acid	0,22	1,06		
Acetic acid		0,95	1,02	1,84
Fermentation products (g/L)				
Acetic acid				
Butyrate	1,09	3,61	1,05	0,19
Isopropanol		0,56	1,34	4,12
Ethanol		0,14	0,20	0
Butanol	0,05	5,41	5,83	8,29
Acetone			0,07	
Total I/ABE products (g/L)	0,05	6,11	7,44	12,41
Butanol ratio in I/ABE (%)	100%	89%	78%	67%
I/ABE yield total	0,00	0,23	0,28	0,31
I/ABE yield partial	0,02	0,29	0,33	0,32
Sugar consumption (%)	12%	80%	85%	96%

C. acetobutylicum ATCC 824	H	HSN	Control (pure sugars)	Glucose only
substrate initial (g/L)				
D-Glucose	9,66	9,95	21,87	21,2
Mannitol	5,15	6,08	5,3	
Glucan	11,6	11,6		
Lactic acid	1,2	1,2		
Acetic acid	2,29	2,36	2,22	2,2
substrate consumed (g/L)				
D-Glucose	9,5	9,83	21,84	21,2
Mannitol	3,9	3,88	4,05	
Glucan	11,4	11,3		
Lactic acid	1,2	1,16		
Acetic acid				
Fermentation products (g/L)				
Acetic acid	3,04	3,42	2,21	0,10
Butyrate	2,99	2,73	1,99	1,90
Isopropanol				
Ethanol	0,43	0,41	0,40	0,50
Butanol	4,21	4,59	4,16	3,15
Acetone	0,85	0,80	1,49	1,20
Total ABE products (g/L)	5,49	5,80	6,05	4,85
Butanol ratio in ABE (%)	77%	79%	69%	65%
ABE yield total	0,21	0,21	0,22	0,23
ABE yield partial	0,22	0,23	0,23	0,23
Sugar consumption (%)	94%	91%	95%	100%