

**Table S4.** Comparison of xylose fermentation data in this study with those reported previously in *S. passalidarum* strains.

Strains	Temp. (°C)	Conditions	Substrate conc. (g/l)	Time (h) <sup>a</sup>	EtOH production (g/l)	EtOH Yield (g/g)	Xylitol production (g/l)	Reference
<i>S. passalidarum</i> CMUWF1-2	30	Flask (WV 100 ml in 300 ml flask, 160 rpm)	(20) xylose	24	8.36 ± 0.22	0.43 ± 0.03	0.03	This study
			(20) glucose + (20) xylose	24	16.5 ± 0.75	0.42 ± 0.03	0.51	
	(20) xylose		24	6.77 ± 0.38	0.40 ± 0.04	0.19		
	(20) glucose + (20) xylose		36	16.0 ± 0.44	0.39 ± 0.02	0.87		
	(20) xylose		48	3.90 ± 2.46	0.20 ± 0.12	0.43		
	(20) glucose + (20) xylose		60	11.7 ± 1.57	0.33 ± 0.04	0.37		
<i>S. passalidarum</i> ATCC MYA-4345	25	Bioreactor (WV 2,000 ml)	(40) xylose + (60) cellobiose	68	~38.0	0.43	n	[1]
			(40) glucose + (40) xylose+ (20) cellobiose	68	~40.0	0.42	n	
	32	Anaerobic vials (WV 50 ml in 100 ml, 120 rpm)	(30) xylose + (30) glucose	96	~28.0	n	n	[2]
		Flask (WV 50 ml in 100 ml flask, 120 rpm)	(30) xylose + (30) glucose	24	~25.0	n	n	
	25	Flask (WV 70 ml in 125 ml flask, 110 rpm)	(150) xylose	120	~56.0	0.45	0.80 – 1.40	[3]
			(120) xylose + (30) glucose	120	58.3	0.43	2.90 – 3.80	
	30	Flask (WV 100 ml in 250 ml flask with cotton plugged)	(40–50) xylose	18	20.3 ± 0.20	0.48	0.60 ± 0.00	[4]
			Flask (WV 100 ml in 100 ml flask with rubber plugged and needle)	(40–50) xylose	24	20.5 ± 0.10	0.48	
27	Bioreactor-sequential fed batch cell recycle (WV 700 ml) <sup>b</sup>	Sugarcane bagasse hydrolysate (42.9) glucose + (14.9) xylose	24	23.3	0.46	0.67	[5]	
<i>S. passalidarum</i> UFMG-HMD-1.1, UFMG-HMD-1.3, UFMG-HMD-2.1, UFMG-HMD-10.2, UFMG-HMD-14.1, UFMG-HMD-16.2	30	Flask: (WV 50 mL in 125 ml flasks)	(50) xylose	24	15.0 - 18.0	0.31 - 0.37	1.00 - 2.20	[6]
<i>S. passalidarum</i> UFMG-CM-Y469	30	Flask (WV 100 ml in 250 ml flask with cotton plugged)	(40–50) xylose	18	20.2 ± 0.10	0.47	1.10 ± 0.00	[4]
		Flask (WV 100 ml in 100 ml flask with rubber plugged and needle)	(40–50) xylose	24	20.5 ± 0.60	0.48	1.40 ± 0.01	
<i>S. passalidarum</i> P16-1.1, G13-2.1, G13-3.8, G14-1.8, G14-2.2 and G18-3.7	28	Flask (50 ml WV in 125 ml flask, 120 rpm)	(40) xylose	30	17.9 - 18.9	0.42 - 0.45	ND	[7]

<sup>a</sup> cultivation times that required for reaching the maximum values or cultivation time of the end of the fermentation experiment; <sup>b</sup> Results for the best fermentation (fourth fed batch); WV, working volume, n; data not available or not tested; ND, not detected

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