

Supplementary Results

Table S1. Results for growth of *L. tetrasporus* on 60%v/v normal SPORL-EH using a seed culture grown in the presence of 0 – 40%v/v of the same SPORL-EH

Trial	Data for Production Cultures ¹				
	Seed Culture % SPORL	Production Culture % SPORL ²	Glucose % used	Man/Xyl % used	Final Biomass OD ₆₀₀
1A	0%	60%	0.0	0.0	3.48
1B	0%	60%	0.0	0.0	2.01
2A	10%	60%	0.0	0.0	2.31
2B	10%	60%	0.0	0.0	2.05
3A	20%	60%	94.3	52.5	19.6
3B	20%	60%	51.6	0.0	15.1
4A	40%	60%	100	89.1	24.2
4B	40%	60%	100	100	22.3
5A ³	0%	0%	100	62.6	18.3
5B	0%	0%	100	71.9	18.6

¹cultures were grown for 5 days

²seed cultures were grown YPD supplemented with 0-40% SPORL-EH.

³ synthetic SPORL medium control

Table S2. Fatty acid profiles for sequential batch cultures (%w/w)

<u>Fatty Acid</u>	<u>0.5 x Media A</u>	<u>1.0 x Media A</u>
16:0	22.9±2.6	24.6±1.5
16:1	2.9±0.4	3.4±0.3
18:0	19.9±9.3	13.2±5.4
18:1	41.4±6.1	49.7±5.2
18:1w6	1.4±0.2	1.2±0.3
18:3w9,12	2.9±1.5	1.5±0.4
Others	8.6±1.5	6.4±1.6

Supplemental Results

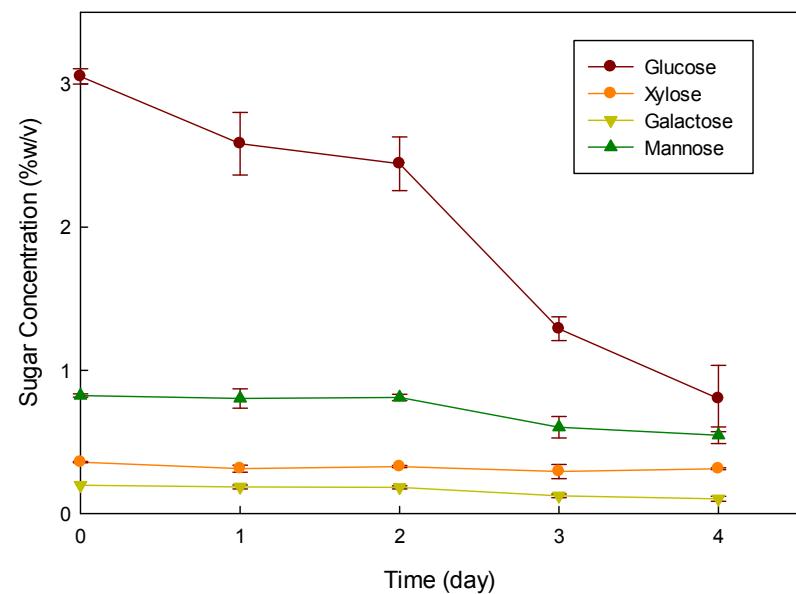


Figure S1A: sugar time profile for acclimated *Y. lipolytica* culture grown on normal profile hydrolysate .

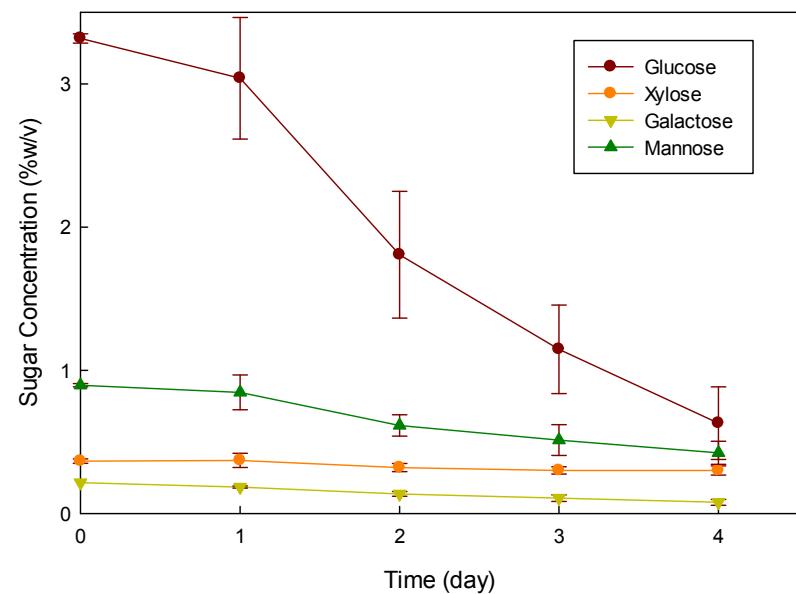


Figure S1B: sugar time profile for acclimated *Y. lipolytica* culture grown on pH profile hydrolysate .

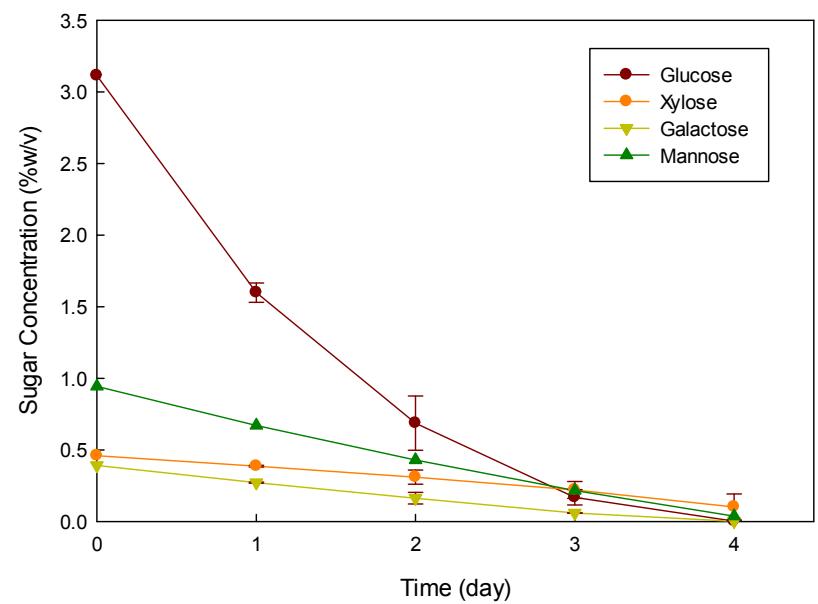


Figure S1C: sugar consumption profile for *Y. lipolytica* culture grown in synthetic control medium.

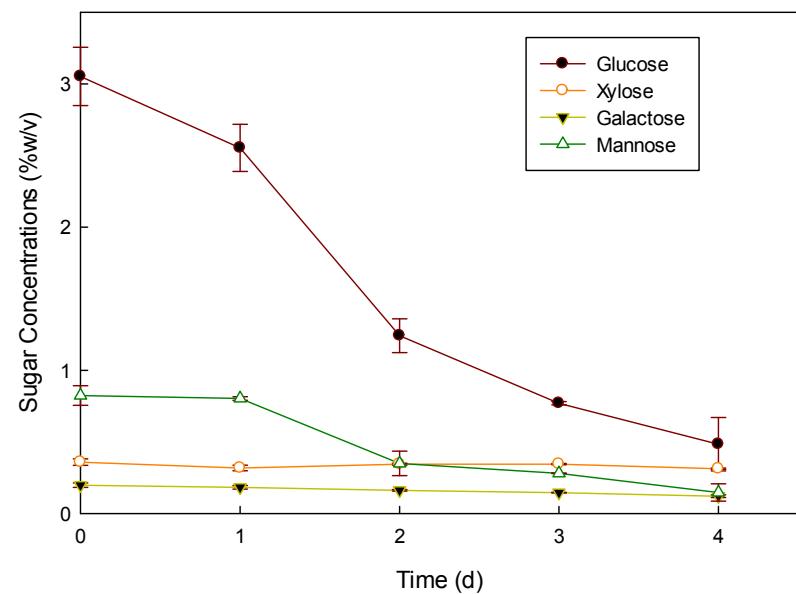


Figure S2A: sugar time profile for acclimated *L. tetrasporus* culture grown on normal hydrolysate .

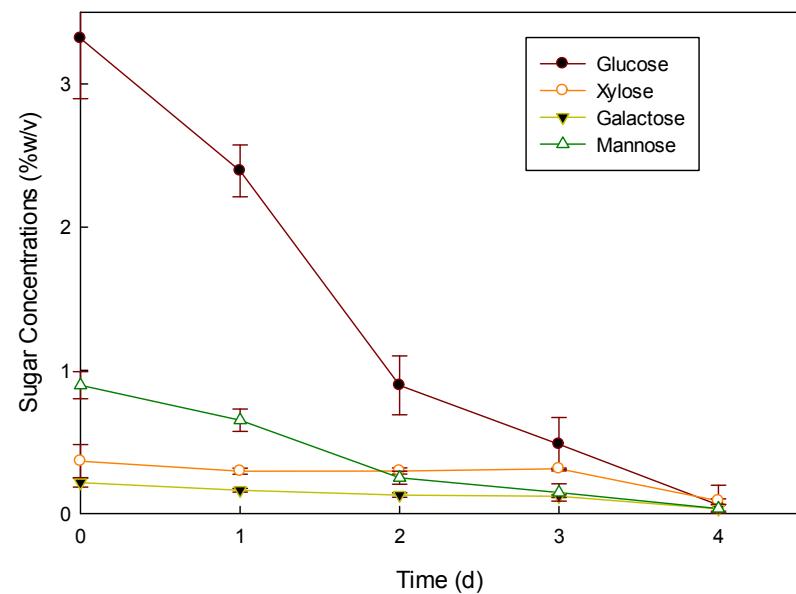


Figure S2B: sugar time profile for acclimated *L. tetrasporus* culture grown on normal hydrolysate.

