

Table S2. ATP yield per harvest timepoint

$\frac{1}{2}OD_{max}$	ATP yield [mM mM _s ⁻¹]		normalized ATP yield [mM mM _{cc} ⁻¹]	
Substrate	coupling ratio [H ⁺ ATP ⁻¹]		coupling ratio [H ⁺ ATP ⁻¹]	
	3.3	4.3	3.3	4.3
Glucose	1.92	1.79	0.32	0.30
Galactose	0.76	0.73	0.13	0.12
Fructose	1.72	1.62	0.29	0.27
Mannose	1.33	1.24	0.22	0.21
Rhamnose	1.88	1.76	0.31	0.29
Fucose	1.46	1.40	0.24	0.23
Glucuronate	3.47	3.17	0.58	0.53
Arabinose	2.10	1.95	0.42	0.39
Xylose	1.94	1.86	0.39	0.36
Maltose	3.48	3.20	0.28	0.27
Lactose	5.48	5.12	0.46	0.43
Sucrose	6.35	5.92	0.53	0.49
α-Cyclodextrin	9.26	8.71	0.26	0.24
Xylan	19.75	18.35	0.56	0.52

$\frac{1}{2}OD_{max}$	ATP yield [mM mM _s ⁻¹]		normalized ATP yield [mM mM _{cc} ⁻¹]	
Substrate	coupling ratio [H ⁺ ATP ⁻¹]		coupling ratio [H ⁺ ATP ⁻¹]	
	3.3	4.3	3.3	4.3
Glucose	1.87	1.74	0.31	0.29
Galactose	1.49	1.41	0.25	0.24
Fructose	2.20	2.06	0.37	0.34
Mannose	2.07	1.93	0.35	0.32
Rhamnose	1.25	1.16	0.21	0.19
Fucose	1.65	1.58	0.28	0.26
Glucuronate	3.59	3.28	0.60	0.55
Arabinose	2.31	2.15	0.46	0.43
Xylose	1.69	1.57	0.34	0.31
Maltose	3.65	3.44	0.30	0.29
Lactose	4.94	4.60	0.41	0.38
Sucrose	6.05	5.65	0.50	0.47
α-Cyclodextrin	13.72	12.88	0.38	0.52
Xylan	19.59	18.31	0.60	0.55

$\frac{3}{4}OD_{max}$	ATP yield [mM mM _s ⁻¹]		normalized ATP yield [mM mM _{cc} ⁻¹]	
Substrate	coupling ratio [H ⁺ ATP ⁻¹]		coupling ratio [H ⁺ ATP ⁻¹]	
	3.3	4.3	3.3	4.3
Glucose	1.91	1.77	0.32	0.30
Galactose	1.67	1.58	0.28	0.26
Fructose	2.34	2.18	0.39	0.36
Mannose	2.14	2.00	0.36	0.33
Rhamnose	1.16	1.07	0.19	0.18
Fucose	1.71	1.63	0.28	0.27
Glucuronate	3.67	3.36	0.61	0.56
Arabinose	1.87	1.73	0.37	0.35
Xylose	1.76	1.63	0.35	0.33
Maltose	2.97	2.78	0.25	0.23
Lactose	5.18	4.83	0.43	0.40
Sucrose	6.06	5.65	0.51	0.47
α-Cyclodextrin	14.56	13.67	0.40	0.38
Xylan	19.93	18.69	0.57	0.53

OD_{max}	ATP yield [mM mM _s ⁻¹]		normalized ATP yield [mM mM _{cc} ⁻¹]	
Substrate	coupling ratio [H ⁺ ATP ⁻¹]		coupling ratio [H ⁺ ATP ⁻¹]	
	3.3	4.3	3.3	4.3
Glucose	2.06	1.91	0.34	0.32
Galactose	1.73	1.61	0.29	0.27
Fructose	2.26	2.10	0.38	0.35
Mannose	1.94	1.81	0.32	0.30
Rhamnose	1.25	1.15	0.21	0.19
Fucose	1.86	1.77	0.31	0.29
Glucuronate	3.37	3.08	0.56	0.51
Arabinose	2.11	1.96	0.42	0.39
Xylose	1.91	1.77	0.38	0.35
Maltose	3.48	3.25	0.29	0.27
Lactose	4.63	4.30	0.39	0.36
Sucrose	5.46	5.09	0.45	0.42
α-Cyclodextrin	16.46	15.47	0.46	0.43
Xylan	19.77	18.71	0.56	0.53