

Strain	LpXI	n	Concentrations of xylose			
			500 mM	100 mM	50 mM	10 mM
SS81	Wild-type	1	0.0133	0.0079	0.0065	0.0024
		2	0.0134	0.0080	0.0066	0.0024
		3	0.0132	0.0071	0.0061	0.0022
		mean	0.0133	0.0077	0.0064	0.0023
		sd	0.0001	0.0005	0.0003	0.0001
SS82	T63I/A121A	1	0.0145	0.0156	0.0110	0.0047
		2	0.0145	0.0152	0.0109	0.0043
		3	0.0148	0.0150	0.0103	0.0042
		mean	0.0146	0.0153	0.0107	0.0044
		sd	0.0002	0.0003	0.0004	0.0003
SS92	V162A/T273T/N303T	1	0.0104	0.0120	0.0074	0.0034
		2	0.0105	0.0110	0.0080	0.0032
		3	0.0105	0.0107	0.0078	0.0031
		mean	0.0105	0.0112	0.0077	0.0032
		sd	0.0001	0.0007	0.0003	0.0002
SS104	V162A	1	0.0098	0.0113	0.0068	0.0031
		2	0.0100	0.0104	0.0074	0.0029
		3	0.0103	0.0103	0.0074	0.0030
		mean	0.0100	0.0107	0.0072	0.0030
		sd	0.0003	0.0006	0.0003	0.0001
SS105	N303T	1	0.0048	0.0062	0.0040	0.0020
		2	0.0048	0.0051	0.0039	0.0019
		3	0.0050	0.0054	0.0039	0.0019
		mean±SD	0.0049	0.0056	0.0039	0.0019
		sd	0.0001	0.0006	0.0001	0.0001
SS120	T63I/V162A	1	0.0161	0.0165	0.0118	0.0041
		2	0.0161	0.0162	0.0116	0.0043
		3	0.0166	0.0158	0.0118	0.0043
		mean±SD	0.0163	0.0162	0.0117	0.0042
		sd	0.0003	0.0004	0.0001	0.0001

1/n			
500 mM	100 mM	50 mM	10 mM
75.18796992	126.58227848	153.84615385	416.66666667
74.62686567	125.00000000	151.51515152	416.66666667
75.75757576	140.84507042	163.93442623	454.54545455
75.18796992	130.43478261	156.25000000	428.57142857
0.56536037	8.72732391	6.60107562	21.86932838
68.96551724	64.10256410	90.90909091	212.76595745
68.96551724	65.78947368	91.74311927	232.55813953
67.56756757	66.66666667	97.08737864	238.09523810
68.49315068	65.50218341	93.16770186	227.27272727
0.80710662	1.30318542	3.35231141	13.31642088
96.15384615	83.33333333	135.13513514	294.11764706
95.23809524	90.90909091	125.00000000	312.50000000
95.23809524	93.45794393	128.20512821	322.58064516
95.54140127	89.02077151	129.31034483	309.27835052
0.52870904	5.26618923	5.18039263	14.43186617
102.04081633	88.49557522	147.05882353	322.58064516
100.00000000	96.15384615	135.13513514	344.82758621
97.08737864	97.08737864	135.13513514	333.33333333
99.66777409	93.75000000	138.88888889	333.33333333
2.48947248	4.71415745	6.88414470	11.12553023
208.33333333	161.29032258	250.00000000	500.00000000
208.33333333	196.07843137	256.41025641	526.31578947
200.00000000	185.18518519	256.41025641	526.31578947
205.47945205	179.64071856	254.23728814	517.24137931
4.81125224	17.79438013	3.70096326	15.19342814
62.11180124	60.60606061	84.74576271	243.90243902
62.11180124	61.72839506	86.20689655	232.55813953
60.24096386	63.29113924	84.74576271	232.55813953
61.47540984	61.85567010	85.22727273	236.22047244
1.08012847	1.34854559	0.84358602	6.54963436

Km/Vmax	1/Vmax (340 nm)	Vmax (340 nm)	Vmax (umol/min/mg protein)	Km
3362.792322	82.09862061	0.0122	0.0650	41.0
3376.469886	80.52866471	0.0124	0.0662	41.9
3698.028049	86.73570612	0.0115	0.0615	42.6
3479.0968	83.1210	0.0120	0.064	41.8
189.7234	3.2273	0.0005	0.002	0.8
1538.908744	58.40179387	0.0171	0.0913	26.4
1746.526654	57.12868285	0.0175	0.0934	30.6
1799.335898	57.9761281	0.0172	0.0920	31.0
1694.9238	57.8355	0.0173	0.092	29.3
137.6689	0.6481	0.0002	0.001	2.6
2122.916347	82.12875098	0.0122	0.0649	25.8
2320.951522	79.32039631	0.0126	0.0672	29.3
2414.496242	80.19207714	0.0125	0.0665	30.1
2286.1214	80.5471	0.0124	0.066	28.4
148.8777	1.4374	0.0002	0.001	2.3
2358.893133	87.20049166	0.0115	0.0612	27.1
2608.190152	82.95886684	0.0121	0.0643	31.4
2494.121361	83.35480151	0.0120	0.0640	29.9
2487.0682	84.5047	0.0118	0.063	29.5
124.7981	2.3430	0.0003	0.002	2.2
3266.426358	172.1138442	0.0058	0.0310	19.0
3409.513225	184.2705162	0.0054	0.0289	18.5
3492.284532	176.7324182	0.0057	0.0302	19.8
3389.4080	177.7056	0.0056	0.030	19.1
114.2635	6.1365	0.0002	0.001	0.6
1938.900987	48.85778333	0.0205	0.1092	39.7
1807.984185	50.98783	0.0196	0.1046	35.5
1814.66076	50.32519626	0.0199	0.1060	36.1
1853.8486	50.0569	0.0200	0.107	37.1
73.7331	1.0901	0.0004	0.002	2.3

1/[S]	0.0020	0.0100	0.0200	0.1000
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