

Table S2 Comparison of fluxes distribution in the central carbon metabolism among experimental method and seven predictive methods in the wild-type strain (REF)

Reactions	Measured	HPCOF	E-Fmin	*GIMME	*E-Flux	*IMAT	*Lee	*FBA
ACKr	-5.5	-4.3	0.5147	0.4457	-11.0406	4	-3.0734	0.0005
ACONTa	2.5	0.33	4.428	6.8389	0.367	14.1982	9.3251	0.0044
ACONTb	2.5	0.33	4.428	6.8389	0.367	14.1982	9.3251	0.0044
AKGDH	1.6	0.01	3.4753	6.0139	0	11.1982	5.3997	0.0035
CS	2.5	0.36	4.428	6.8389	0.367	14.1982	9.3251	0.0044
ENO	14.1	15.6	13.1865	14.4233	8.1498	4.1982	9.3251	0.0132
EX_ac(e)	5.52	4.7	0	0	11.2228	0	0	0
Ec_biomass	0.67	0	0.886	0.7672	0.3136	0	0	0.0009
FBA	7.1	5.7	6.8566	5.3363	2.7993	3.9967	5.5833	0.0069
FUM	1.6	-0.65	4.3973	6.8123	0.3562	17.1982	9.3251	0.0044
G6PDH2r	4.4	1.6	4.7275	2.6121	6.1304	11.6142	3.6181	0.0047
GAPD	15.3	16	14.7056	15.6972	8.688	12.1982	11.1666	0.0147
GLCptspp	9.2	9	9.2	9.2014	6.9973	2.056	6.3939	0.0092
GND	4.4	0.4	4.7275	2.6121	0	10.6142	3.6181	0.0047
ICDHyr	2.5	0.23	4.428	6.8389	0.3373	13.1982	5.3997	0.0044

MDH	1.6	-0.73	4.3973	6.8128	0.3862	18.1982	12.8664	0.0044
ME1	0	0.02	0	0	0	0	0	0
NADTRHD	0.7	0.04	0	0	0	1	6.7602	0
PDH	9.5	10	7.3295	9.269	0	6.1982	0	0.0073
PFK	7.1	5.7	6.8566	5.3363	2.7993	3.9967	5.5833	0.0069
PGI	4.7	7.6	4.4725	6.5894	0.8668	-2.4127	5.5833	0.0045
PGK	-15.3	-16	-14.7056	-15.6972	-8.688	-12.1982	-11.1666	-0.0147
PGL	4.4	1.6	4.7275	2.6121	6.1304	11.6142	3.6181	0.0047
PGM	-14.1	-15.6	-13.1865	-14.4233	-8.1498	-4.1982	-9.3251	-0.0132
PPC	4	1.4	2.6227	2.2705	0.8984	2.6422	0	0.0026
PPCK	2	0.02	0	0	0	1	3.5413	0
PTAr	5.5	4.3	-0.5147	-0.4457	11.0406	-4	3.0734	-0.0005
PYK	2.4	3.4	0.646	0	0	1	6.4724	0.0006
RPE	2.4	-0.1	2.4678	1.1492	-0.2421	6.4094	0	0.0025
RPI	-2	-0.5	-2.2244	-1.4323	-0.2296	-4.2047	-3.6181	-0.0022
SUCDi	1.6	0	3.4759	6.0144	6.6879	14.1982	12.1978	0.0038
SUCOAS	-1.6	-0.43	-3.0102	-5.6112	0.1646	-11.1982	-7.7567	-9.2

TALA	1.3	-0.04	1.3987	0.7173	-0.0627	3.2047	0	0.0014
TKT1	1.3	-0.04	1.3987	0.7173	-0.0627	3.2047	0	0.0014
TKT2	1.1	-0.09	1.0691	0.4319	-0.1794	3.2047	0	0.0011
TPI	7.1	7	6.7315	7.5577	-0.0793	2.9967	5.5833	0.0067

* Results are taken from the reference 14.