

Additional file 5. Results from the ¹³C flux analysis: Estimated intracellular fluxes under methanol : glucose condition with the calculated standard deviations. The results are in mmol/gDCWh.

<i>flux</i>	<i>value</i>	<i>sd</i>	<i>flux</i>	<i>value</i>	<i>sd</i>
aa_ala_bwd	0.511	0.044	feedGlcB_fwd	0.141	0.001
aa_ala_fwd	0.511	0.044	feedGlcC_fwd	0.564	0.006
aa_asp_bwd	27.326	11.017	feedMeOHB_fwd	0.938	0.019
aa_asp_fwd	27.768	11.000	Met1_fwd	0.504	0.071
aa_glu_bwd	41.163	25.000	Met2_fwd	0.217	0.034
aa_glu_fwd	41.163	25.000	Met2B_fwd	0.217	0.034
bio1_fwd	0.110	0.005	Met3_fwd	0.434	0.068
bio2_fwd	0.052	0.002	Met4_fwd	0.434	0.068
bio3_fwd	0.070	0.034	ppp1_fwd	0.550	0.098
bio4_fwd	0.093	0.003	ppp2_bwd	0.217	0.061
bio5_fwd	0.028	0.001	ppp2_fwd	0.696	0.033
bio6_fwd	0.033	0.002	ppp3_bwd	0.000	0.064
bio7_fwd	0.008	0.000	ppp3_fwd	0.070	0.038
bio8_fwd	0.121	0.002	ppp4_bwd	1.665	0.168
bio9_fwd	0.295	0.008	ppp4_fwd	1.674	0.160
CO2out1_fwd	1.904	0.104	ppp5_bwd	0.077	0.140
emp1_bwd	1.102	0.066	ppp5_fwd	0.114	0.130
emp1_fwd	1.148	0.072	ppp6_bwd	1.264	0.077
emp10_wd	0.214	0.004	ppp6_fwd	1.301	0.057
emp11_fwd	0.001	0.012	Tca1_fwd	0.247	0.055
emp11A_fwd	0.541	0.056	Tca2_fwd	0.372	0.069
emp11B_fwd	0.293	0.015	Tca3_fwd	0.372	0.069
emp11C_fwd	1.087	0.072	Tca4_fwd	0.125	0.035
emp11D_fwd	1.087	0.072	Tca4B_fwd	0.125	0.035
emp12_fwd	0.124	0.044	Tca5_bwd	0.188	0.066
emp2_fwd	0.186	0.020	Tca5_fwd	0.313	0.056
emp2B_fwd	0.145	0.024	Tca5B_fwd	0.313	0.056
emp3_bwd	1.650	0.621	Tca5B_bwd	0.188	0.066
emp3_fwd	1.691	0.620	Tca6_bwd	0.993	1.352
emp4_bwd	96.980	150.000	Tca6_fwd	1.257	1.200
emp4_fwd	97.454	150.000	Tca7_bwd	6.018	7.028
emp5_bwd	3.750	4.900	Tca7_fwd	6.282	7.010
emp5_fwd	4.700	4.900	Tca8_fwd	0.013	0.021
emp6_bwd	0.995	3.300	TRE1_fwd	0.010	0.016
emp6_fwd	1.945	3.300	TRE2_fwd	0.010	0.016
emp7_bwd	0.005	0.096	TRE3_fwd	0.010	0.016
emp7_fwd	0.955	0.079	upt1	0.716	0.001
emp8_fwd	0.950	0.054	upt2	0.938	0.019
emp9_fwd	0.194	0.009	uptGlc	0.705	0.006
			uptMeOH	0.938	0.019

Estimated parameters ($\mu\text{mol/gDCW}$)

Metabolites	value	sd	Metabolites	value	sd
Form	2.86	1.9	Metoh _{ext}	1.414	2.3
GAP	0.0047	1.1	Metoh _{int}	0.1355	1.2
DHA	0.109	0.55	OAA	0.1165	2.9
ACCoA _{mit}	0.48	5	CO2	0.0338	7.3
