

Table S1**Biomass monomer composition at different specific growth rates ($\mu\text{mol/g DCW}$).**

μ, h^{-1}	0.1	0.2	0.3	0.4	0.5
Glucose	1328	1162	999	842	692
NAG*	42	42	42	41	40
NAM*	42	42	42	41	40
dAMP	25	25	25	25	25
dTMP	25	25	25	25	25
dCMP	25	25	25	25	25
dGMP	25	25	25	25	25
AMP	51	73	95	117	139
UMP	42	60	78	96	114
CMP	39	55	72	89	106
GMP	62	89	117	144	171
glycerol	126	125	123	122	121
C14	21	21	21	20	20
C16	69	60	56	56	61
C16:1	48	57	63	66	66
C18:1	30	43	52	56	56
C17	78	67	56	45	34
C19	4	3	2	2	1
Ala	473	472	471	469	468
Arg	226	232	239	245	252
Asp+Asn	372	372	372	372	371
Cys	23	23	22	22	22
Glu+Gln	279	281	283	285	286
Gly	393	397	400	403	407
His	88	87	87	87	86
Ile	217	217	218	218	218
Leu	371	373	375	377	379
Lys	243	249	255	261	267
Met	105	105	106	106	106
Phe	160	159	157	156	154
Pro	171	172	173	175	176
Ser	223	222	220	218	217
Thr	238	238	237	237	236
Trp	17	18	18	18	19
Tyr	148	148	148	148	148
Val	288	292	296	300	304

*NAG - N-acetylglucosamine, NAM - N-acetylmuramic acid