

Table 3. Growth energetics during glucose-limited continuous cultures

The ATP formation rate r_{ATP} was calculated according to equation 9 by adjustment of the growth-associated ATP consumption $Y_{\text{X/ATP}}$ to the experimentally determined biomass yield coefficient $Y_{\text{X/Glucose}}$ using the detailed stoichiometric model.

D (h^{-1})	$Y_{\text{X/Glucose}}$ (g g^{-1})	$Y_{\text{X/ATP}}$ (g mol^{-1})	r_{ATP} ($\text{mmol g}^{-1} \text{h}^{-1}$)
0.044	0.51	10.6	6.95
0.066	0.51	10.5	9.08
0.134	0.53	11.6	14.34
0.150	0.52	12.0	15.26
0.170	0.52	11.4	17.77
0.203	0.54	12.5	19.05
0.265	0.53	12.8	23.48
0.280	0.55	13.2	24.09
0.300	0.55	13.2	25.61
0.347	0.57	13.7	28.14
0.375	0.59	15.4	27.19
0.388	0.60	16.7	26.09
0.397	0.55	14.3	30.60