Table VIII. Estimated ATP stoichiometry parameters for *E. coli* metabolic network with their standard errors and comparison with published parameters for *S. cerevisiae* (Van Gulik and Heijnen 1995) and *P. chrysogenum* (Van Gulik et al., 2001).

	$\delta (\text{mol ATP}/^1/_2 \text{mol O}_2)$	K_X (mol ATP/CmolX)	$m_{\mathrm{ATP}}~(\mathrm{mol}~\mathrm{ATP/CmolX/h})$
E. coli	1.49 ± 0.26	0.46 ± 0.27	0.075 ± 0.015
S. cerevisiae ^a	1.20	0.80	_
P. chrysogenum ^b	1.84 ± 0.08	0.38 ± 0.11	0.033 ± 0.012

^aTo express K_X per Cmol of biomass a protein content of 50% and a MW of 26.4 g/Cmol was used (Lange and Heijnen 2001), $m_{\rm ATP}$ was not determined. ^bErrors were given as 95% confidence intervals.