

TABLE 7. ATP requirement for biosyntheses during bacterial growth

Carbon source	ATP requirement (mol of ATP/g of cells)	Y_{ATP}^{max} (g of cells/mol of ATP)	Reference
Glucose	0.037	27	626
Lactate ⁻	0.075	13.4	626
Malate ²⁻	0.065	15.4	626
Acetate ⁻ + CO ₂	0.065	15.4	129, 642
Acetate ⁻	0.1	10	626
CO ₂	0.2	5	177