Table 6.10. ATP requirement for polymer synthesis by Escherichia coliusing glucose-mineral salts medium

Polymer	ATP required for the synthesis of polymer to make up one gram dry wt cell material (mmol/g dry wt)
- Olymer	ary we can material (minoring ary we)
Polysaccharide	2.1
Protein	
Glucose to amino acids	1.4
Polymerization (translation)	19.1
Lipid	0.1
RNA	
Glucose to ribonucleotides	3.5
Polymerization	0.9
(transcription)	
DNA	
Glucose to	0.9
deoxyribonucleotides	
Polymerization	0.2
Transport	5.2
RNA turnover	1.4
Overall	34.8