

Table 3
Estimation of soluble macromolecule concentrations in the cytoplasmic compartment of E. coli

Growth phase of cells	Assay method	Sucrose concentrations (mM/mM)	(RNA + protein) in extract (mg/ml)	Extract dilution (fold)	Estimated (RNA + protein) in cytoplasm (g/ml)
Exponential	I	39.0/25.7†	95	3.5	0.3
	II	0/0‡	87		
		21.9/30.5‡	86	3.6	0.31
	II	0/0‡	90		
		239/308‡	83	4.5	0.37
Stationary	I	37.4/25.7†	106	4.0	0.4
	II	0/0‡	80		
		24.6/30.8‡	69	5.0	0.34
	II	0/0‡	95		
		114/154‡	87	3.8	0.33
	240/308‡	77	4.5	0.35	

† Ratio of sucrose concentrations in supernatant fluid from mixture containing cells to control mixture without cells.

‡ Ratio of sucrose concentrations in cell extract to that in the extraction medium.