Table 5
Parameters of equivalent homogeneous solutions

Growth phase of cells	Estimated excluded volume fraction in cytoplasm, Φ† (ml/ml)	Two-phase assay		Gel filtration	
		R_e (nm)	d_e‡ $\times 10^{-18}$ (cm^{-3})	R_a (nm)	d_a§ $\times 10^{-18}$ (cm^{-3})
Exponential	0·34	3·06	2·8	3·17	2·6
	0·44	3·52	2·4	3·51	2·4
Stationary	0·34	2·88	3·4	3·10	2·7
	0·44	3·30	2·9	3·43	2·6

† Using eqn (10) with $C_{\text{cytoplasm}} = 0.34$ g/ml and $v = 1.0$ or 1.3 ml/g.
‡ Number density of particles of radius R_e for the excluded volume fraction in column 2.
§ Number density of particles of radius R_a for the excluded volume fraction in column 2.