

TABLE 1. Dimensions and shape of *E. coli* K-12 at various conditions

Media	Rep	Thymine concn <sup>a</sup> (μg/ml)	$\tau$ (min)	$C^b$ (min)	Avg cell length ( $\bar{L}$ ) (μm)	Avg cell diam ( $2\bar{R}$ ) (μm)	Shape factor ( $\alpha = \bar{L}/2\bar{R}$ )
Glucose	+	5	51	62	2.68	0.97	2.76
	+	5 + dG	57	41	2.62	0.68	3.83
	-	5	54	127	3.19	1.04	3.07
	-	5 + dG	60	105	4.00	0.73	5.47
Glucose + Case- amino Acids	+	3 + dG	31	41	2.79	0.98	2.86
	-	5 + dG	38	79	3.70	1.03	3.59

<sup>a</sup> +dG, Deoxyguanosine was added to medium.

<sup>b</sup> Values of  $C$  were calculated from relative DNA-mass ratios (38, 39) normalized to give 41 min for Rep<sup>+</sup> in deoxyguanosine.