

TABLE 4. *Cell size, volume, and percent dividing cells during growth phases 2 and 3^a of E. coli B in the maintenance fermentor^b*

Phase ^c	Cell dimensions ($\mu\text{m} \pm \text{SD}^d$)		Cell volume ^e (μm^3)	Dividing cells (%)
	Length	Width		
1	1.56 ± 0.43	0.42 ± 0.07	0.19	19.4
Late 2	1.06 ± 0.21	0.63 ± 0.10	0.27	12.8
Early 3	— ^f	—	—	12.4
Mid 3	0.99 ± 0.21	0.60 ± 0.06	0.23	12.6
Late 3	1.19 ± 0.26	0.73 ± 0.10	0.40	9.2

^a Phases are defined in the legends of Fig. 2, 3, and 5.

^b Growth was anaerobic, at 30°C, in minimal medium (5) with pH constant at 7.0.

^c The elapsed times after phase commencement for late 2 and early, mid, and late 3 phases, respectively, were 13, 7, 24, and 48 h.

^d SD, Standard deviation.

^e Volumes were calculated by treating the measurements as those of cylinders with hemispherical ends so that: $V = [4/3 \pi (W/2)^3] + [(L-W) (\pi) (W/2)^2]$.

^f —, Analysis not done.