

TABLE I  
EFFECT OF OSMOLALITY ON COMPOSITION  
AND GROWTH OF *E. coli*\*

Osmolality	Generation time	Dry weight/wet weight‡	[K] <sub>i</sub>	K contents
<i>mOsM</i>	<i>min.</i>		<i>mmols/liter cell H<sub>2</sub>O</i>	<i>mmols/gm dry weight</i>
148	66	0.247±0.002 (8)	150±2 (8)	0.457±0.007 (8)
270	51	0.285±0.003 (8)	246±2 (5)	0.617±0.007 (8)
539	63	0.297±0.002 (12)	399±2 (12)	0.945±0.006 (12)
938	86	0.326±0.002 (8)	495±2 (8)	1.02±0.01 (8)

\* Errors are standard errors of the mean; the figure in parentheses indicates the number of determinations.

‡ These data refer to the dry-to-wet weight ratios of the cells. The data obtained using bacterial pellets have been corrected for extracellular water and solute.