

TABLE I
*Intracellular free and total calcium as a function of extracellular
 [Ca²⁺] in control and energy-depleted cells of E. coli*

[Ca ²⁺] _o	Control cells ^a		Starved cells ^b	
	[Ca ²⁺] _i ^c	[Ca ²⁺] _{total} ^d	[Ca ²⁺] _i	[Ca ²⁺] _{total}
<i>mM</i>	<i>μM</i>	<i>mM</i>	<i>μM</i>	<i>mM</i>
0.08	0.094	0.013	0.21	0.07
0.18	0.098	0.048	0.34	0.16
0.33	0.100	0.181	0.41	0.42
1.08	0.094	0.350	0.54	1.27
5.08	0.110	0.670	0.69	6.27
10.08	0.120	1.390	0.70	9.54

^a Control cells were not depleted of endogenous energy reserves and assayed without addition of exogenous energy source.

^b Starved cells were depleted of endogenous energy reserves and assayed without addition of exogenous energy source.

^c Free intracellular calcium was determined from fura-2 fluorescence.

^d Total intracellular calcium was determined from ⁴⁵Ca²⁺ distribution and expressed as a nominal concentration using a value of 0.9 μl of cell water/mg of cell protein.