TABLE III

Apparent penetration of glucose-6-P through microsomal membrane

The basic incubation media (pH 6.5) contained 50 mM Tris/cacodylate buffer and 1.1 mg of microsomal protein in a final volume of 1.0 ml. Centrifugation was initiated 3 min after addition of microsomes. The means of duplicate determinations are presented. Other details are given under "Experimental Procedures."

Additions to basic system	Measured quantities				Calculated quantities			
	V_t	V_0	$[S]_m$	S_t	S_0	S_{i+a}	V_i	$[S]_i$
	μl/mg		*mM*	*nmol/mg*	*nmol/mg*		*μl/mg*	*mM*
Experiment I								
A. [G6P],[a] mM								
1	14.7	11.1	0.853	7.71	9.47	−1.8	3.6	
2	14.9	10.9	1.75	17.4	19.1	−1.7	4.0	
5	14.8	11.2	4.66	50.0	52.2	−2.2	3.6	
10	15.0	12.3	9.61	121	118	+3.0	2.7	1.1
B. [M6P],[a] mM								
1	14.5	11.4	0.971	10.1	11.1	−1.0	3.1	
2	14.0	11.4	1.96	21.8	22.3	−0.5	2.6	
10	14.5	12.3	9.88	120	122	−2.0	2.2	
Experiment II (+20 mM P_i)								
A. [G6P], mM								
1	17.1	11.5	0.904	12.2	10.4	+1.8	5.6	0.32
2	17.6	12.6	1.85	27.7	23.3	+4.4	5.0	0.88
5	19.9	15.2	4.77	81.0	72.5	+8.5	4.7	1.8
10	22.7	18.4	9.72	210	179	+31.0	4.3	7.2
B. [M6P], mM								
1	17.1	13.1	0.988	14.7	13.9	+0.72	4.0	0.18
10	22.7	18.3	9.93	186	182	+4.4	4.4	1.0

[a] G6P and M6P are abbreviations for glucose-6-P and mannose-6-P, respectively.