TABLE IV

FLUXES OF D-GLUCOSE AND D-MANNITOL IN GHOSTS PRETREATED AND MEASURED AT HIGHER TEMPERATURES

All ghosts were prepared in an identical manner as described in the experimental procedures. The fluxes were estimated from the initial 12–16-sec time-course of the equilibration at pH 7.4. Two different glucose concentrations were applied. The fluxes for mannitol could not be measured precisely with such a short equilibration time as adopted here, and represent only an indication as to whether the ghosts are leaky or not. Each value represents a single estimation.

Temp.	*Flux of* D-*glucose* ($\mu moles \cdot cm^{-3} \cdot sec^{-1}$)		*Flux of* D-*mannitol* ($\mu moles \cdot cm^{-3} \cdot sec^{-1}$)
	5 mM glucose	*130.4 mM glucose*	*5 mM mannitol*
23°	1.28, 1.31		
37°		16.1, 15.9	<0.01
45°	1.81, 1.76	22.3, 21.7	<0.01
50°		25.4, 23.3	<0.01
55°	1.45, 1.57	26.7, 24.7	<0.01
60°		27.1, 26.4	<0.01
65°	1.30, 1.37		<0.01
70°	>4, >4		>5
75°	>4, >5		>5
80°			>4