

**Table 3.** Permeability coefficients of monosaccharides<sup>a</sup> measured with planar lecithin bilayers at  $26 \pm 2$  °C

Sugar	Duration of flux measurement (min)	Permeability coefficient (cm sec <sup>-1</sup> )	Mean value $\pm$ SD
D-fructose <sup>b</sup>	100	$0.66 \times 10^{-9}$	} $9.3 \pm 0.3$ $\times 10^{-10}$ cm sec <sup>-1</sup>
D-fructose	100	$1.09 \times 10^{-9}$	
D-fructose	145	$1.03 \times 10^{-9}$	
D-glucose <sup>c</sup>	180	$1.49 \times 10^{-10}$	} $1.1 \pm 0.3$ $\times 10^{-10}$ cm sec <sup>-1</sup>
D-glucose	240	$1.04 \times 10^{-10}$	
D-glucose	240	$0.77 \times 10^{-10}$	

<sup>a</sup> The sugar concentrations in the rear compartment (Fig. 1) at time  $t=0$  were 12.8 mM. Since the sugar concentration in the front compartment was zero at time  $t=0$ , net fluxes were measured under gradient conditions.

<sup>b</sup> Calculated from flux curves given in Fig. 5.

<sup>c</sup> Calculated from flux measurements in duplicate.