

TABLE I

*Kinetic constants of GalSGal/melibiose countertransport by lactose permease in cells and vesicles*

Sample <sup>a</sup>	Technique	$k_{\text{cat}}$ $s^{-1}$	$K_T$ $\mu M$
ML308-225 cells	Conventional <sup>b</sup>	12.1	63
ML308-225 CPM vesicles	Conventional <sup>b</sup>	1.0	46
<i>E. coli</i> lipid vesicles	Conventional <sup>b</sup>	0.6	83
DMPC vesicles	Conventional <sup>c</sup>	0.15	ND
DMPC vesicles	Rapid filtration <sup>c</sup>	13.0	78

<sup>a</sup> In all cases, the internal melibiose concentration was 15 mM, pH 7.6, and the temperature was 20 °C.

<sup>b</sup> Data from Ref. 5.

<sup>c</sup> This work.