

**Table 1** Comparison of turnover numbers for the *lac* carrier protein : ML 308-225 membrane vesicles versus proteoliposomes reconstituted with purified carrier

Reaction	Turnover numbers (sec)	
	Membrane vesicles <sup>a</sup> [ $K_m$ (mM)]	Proteoliposomes [ $K_m$ (mM)]
$\Delta\Psi$ -driven influx ( $\Delta\Psi = 100$ mV)	16 [0.2]	18 [0.5]
Counterflow	16–39 [0.45]	28 [0.65]
Facilitated diffusion	8–15.5 [20]	13 [7]
Efflux	8 [2.1]	6 [2.0]

<sup>a</sup> Determination of the amount of *lac* carrier protein in ML 308-225 membrane vesicles is based on photolabeling experiments with [<sup>3</sup>H]NPG that indicate that the carrier represents about 0.5% of the membrane protein. From Viitanen et al (181).