

TABLE I  
A SELECTION OF SUBSTRATES OF THE *lac* PERMEASE

	$K_m$ (transport) (mM)	$V_{max}$ ( $\mu$ mol/min per mg dry weight)	$K_i^a$ (mM)	Ref.
Isopropyl-thio- $\beta$ -D-galactopyranoside (IPTG)			2	193
<i>o</i> -Nitrophenyl- $\beta$ -D-galactopyranoside ( <i>o</i> NPG)	1.6 (1.0)			339
<i>p</i> -Nitrophenyl- $\alpha$ -D-galactopyranoside ( $\alpha$ NPG)			< 0.05	139; 140; 193; 344; 345
Methyl-thio- $\beta$ -D-galactopyranoside (TMG)	0.5	148	2.5	193; 339
Lactose ( $\beta$ -linkage)	0.19 (0.07)	158	0.3	193; 339; 340; 341
Melibiose ( $\alpha$ -linkage)	1		0.4	193
Thio- $\beta$ -D-digalactoside (TDG)	0.05 (0.02)	20.4	< 0.05	2; 193; 339; 342

<sup>a</sup> Inhibition of the cellular hydrolysis of *o*-nitrophenyl- $\beta$ -D-galactopyranoside (*o*NPG).