

Variable	Symbol	Value	Unit
Extraluminal pH	pH_o	7.1	-
Luminal pH	pH_i	Experiment	-
Luminal protons	H_i^+	See text	number
Pumping rate	I_p	Model output	H^+/s
Membrane permeability	P_{leak}	Model output	cm/s
Transprotein permeability	$P_{V-ATPase}$	Model output	cm/s
pHrodo-DOPE log dissociation constant	pK_{a1}	5.29	-
MOPS log dissociation constant	pK_{a2}	7.20	-
Extraluminal chloride concentration	$[Cl^-]_o$	30	mM
Luminal chloride concentration	$[Cl^-]_i$	See text	mM
Bilayer capacitance	C_0	1	F/cm ²
Donnan particles	B	Constant	mM
Vesicle radius	R	Experiment	Nm
Chloride permeability	P_{Cl}	1.2	cm/s