TABLE 1 Rupture tension $\tau_{\rm m}^{\star}$ and apparent permeability P_{fapp} to water measured at 21°C on single-bilayer vesicles made from polyunsaturated PC bilayers

Lipid	$\tau_{\rm m}^*$ (mN/m)	P_{fapp} (μ m/sec)	T_m (°C)
C18:0/1	9.0 ± 1.7	28 ± 6	6
C18:1/0	10.0 ± 1.8	30 ± 2	(Davis and Keough, 1983)
diC18:1 _{c9}	9.9 ± 2.6	42 ± 6	(Davis and Keough, 1983) -22
1.010.1	0.5 2.0	20 + 5	(Barton and Gunstone, 1975)
diC18:1 _{t9}	8.5 ± 2.0	30 ± 5	12 (Silvius and McElhaney, 1979)
diC18:1 _{c6}	9.9 ± 1.9	35 ± 4	1
C18:0/2	4.9 ± 1.6	49 ± 6	(Barton and Gunstone, 1975) -15
diC18:2	5.1 ± 1.0	91 ± 24	(Keough and Parsons, 1990) -53
diC18:3	3.1 ± 1.0	146 ± 26	(Keough and Kariel, 1987) -60
			(Keough and Kariel, 1987)

Values are given as mean \pm standard deviation. Gel-to-liquid crystalline phase transition temperatures ($T_{\rm m}$) reported in the literature for PCs with two 18-carbon chains.

- Barton, P. G., and F. D. Gunstone. 1975. Hydrocarbon chain packing and molecular motion in phospholipid bilayers formed from unsaturated lecithins. *J. Biol. Chem.* 250:4479–4476.
- Davis, P. J., and K. M. W. Keough. 1983. Differential scanning calorimetric studies of aqueous dispersions of mixtures of cholesterol with some mixed-acid and single-acid phosphatidylcholines. *Biochemistry*. 22: 6334–6340.
- Keough, K. M. W., and N. Kariel. 1987. Differential scanning calorimetric studies of aqueous dispersions of phosphatidylcholines containing 2 polyenoic chains. *Biochim. Biophys. Acta.* 902:11–18.
- Keough, K. M. W., and C. S. Parsons. 1990. Differential scanning calorimetry of dispersions of products of oxidation of 1-stearoyl-2-linoleoyl-sn-glycero-3-phosphocholine. *Biochem. Cell Biol.* 68:300–307.
- Silvius, J. R., and R. N. McElhaney. 1979. Effects of phospholipid acyl chain structure on thermotropic phase properties. 2. Phosphatidylcholines with unsaturated or cyclopropane acyl chains. *Chem. Phys. Lipids*. 25:125–134.