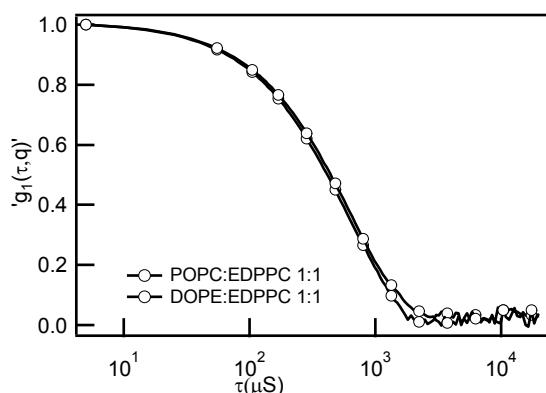


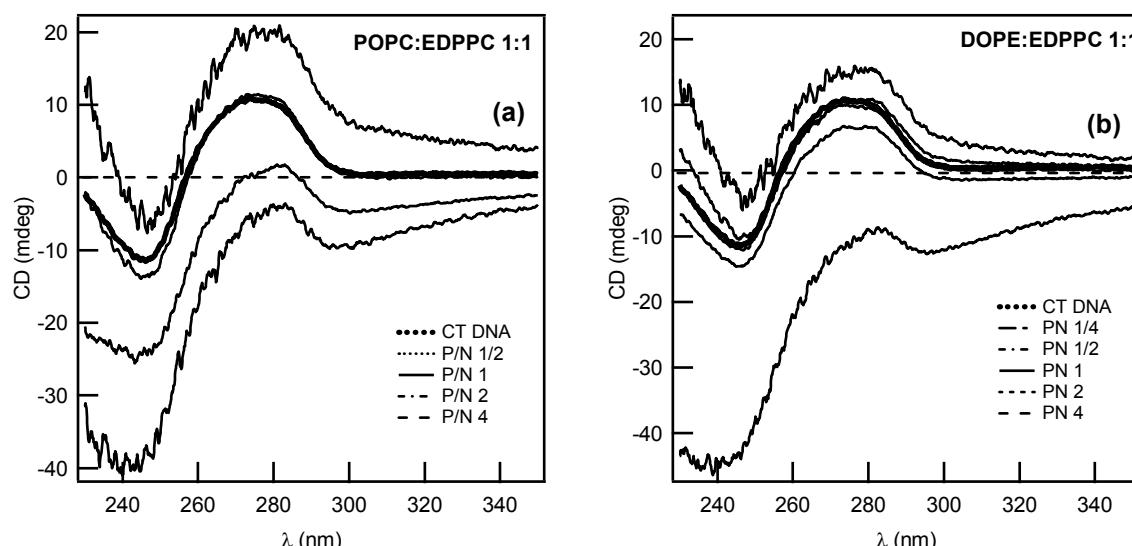
**Supporting Information for:**

**Biocompatible cationic lipids for the formulation of liposomal DNA vectors**

Costanza Montis, Silvia Sostegni, Silvia Milani, Piero Baglioni and Debora Berti



**Figure S1.** Normalized autocorrelation Functions of scattering intensity measured at 90° for POPC:EDPPC 1:1 and DOPE:EDPPC 1:1 liposomes.



**Figure S2.** CD spectra measured for POPC:EDPPC 1:1 lipoplexes P/N 1/4,1/2,1,2,4 (a), for DOPE:EDPPC 1:1 lipoplexes P/N 1/2,1,2,4 (b). The CD spectra measured for lipoplexes at different P/N ratios are compared with the CD spectrum measured for bare DNA (CT DNA). DNA concentration in each sample is  $1.75 \times 10^{-4}$  M. An increasing difference in the CD curve profiles from the bare Calf Thymus DNA (typical of an uncondensed B-form DNA) is observed with the increase of P/N values, highlighting the presence of DNA in a condensed *psi*-like form within lipoplexes, similarly to what observed for efficient cationic liposomes based DNA vectors. <sup>1,2</sup>

1. N. J. Zuidam, Y. Barenholz, and a Minsky, *FEBS Lett.*, 1999, **457**, 419–22.
2. D. Simberg, D. Danino, Y. Talmon, A. Minsky, M. E. Ferrari, C. J. Wheeler, and Y. Barenholz, *J. Biol. Chem.*, 2001, **276**, 47453–47459.