

Electronic Supplementary Information (ESI)

Formation of divalent ion mediated anionic disc bicelle-DNA complexes

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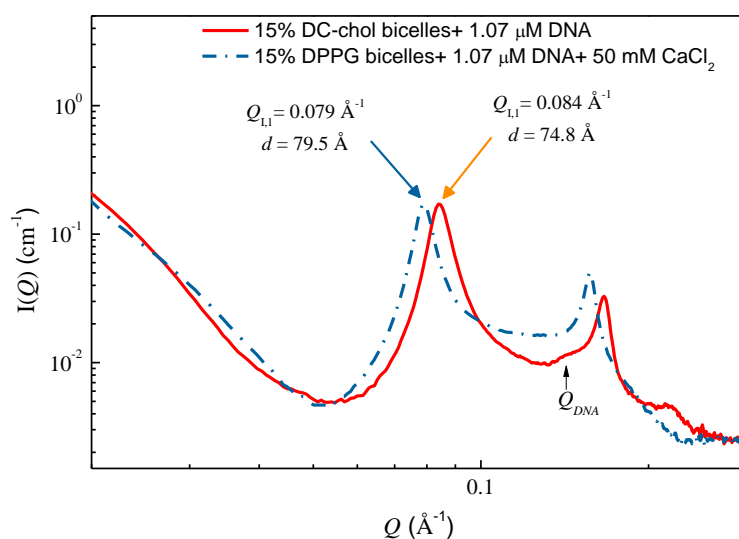


Fig. S1. The measured small-angle X-ray scattering profiles of cationic (DC-cholesterol) bicelle-DNA complexes and the anionic (DPPG) bicelles-DNA complexes at 50 mM calcium ions. The d -spacing of AB-DNA complexes is found to be slightly larger than the CB-DNA complexes by 4.7 Å.

The first diffraction peaks were fitted by non-linear least square method with a Lorentz function to model the diffraction peaks. The fitted results of the first diffraction peaks are listed here.

	Peak position (1/Å)	FWHM (1/Å)	Peak height (1/cm)	d -spacing (Å)
15% DC-chol bicelle/DNA	0.084±0.00003	0.00760±0.00009	0.160	74.8±0.03
15% DPPG bicelle/DNA/50 mM CaCl ₂	0.079±0.00002	0.00647±0.00007	0.156	79.5±0.02