

Supplementary Materials: Cationic Single-Chained Surfactants with a Functional Group at the End of the Hydrophobic Tail DNA Compacting Efficiency

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Table S1. Values of the critical micellar concentration of the surfactants investigated in this work, taken from refs. 47-49. The cmcs were determined by conductivity.

Surfactant	DTEABr	12PhBr	12NBr	11PyBr ^a
cmc/mM	14.3 ± 0.4	3.7 ± 0.2	0.641 ± 0.015	---

^aThis surfactant does not self-aggregate.

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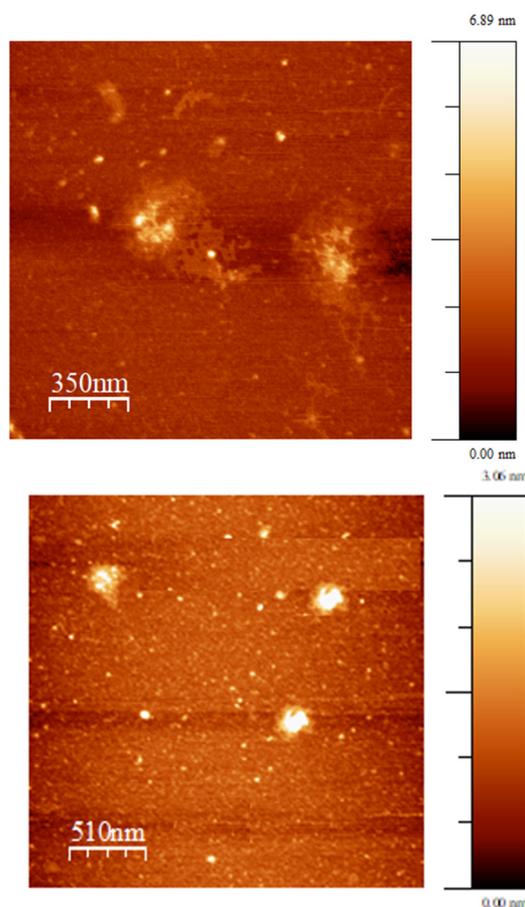
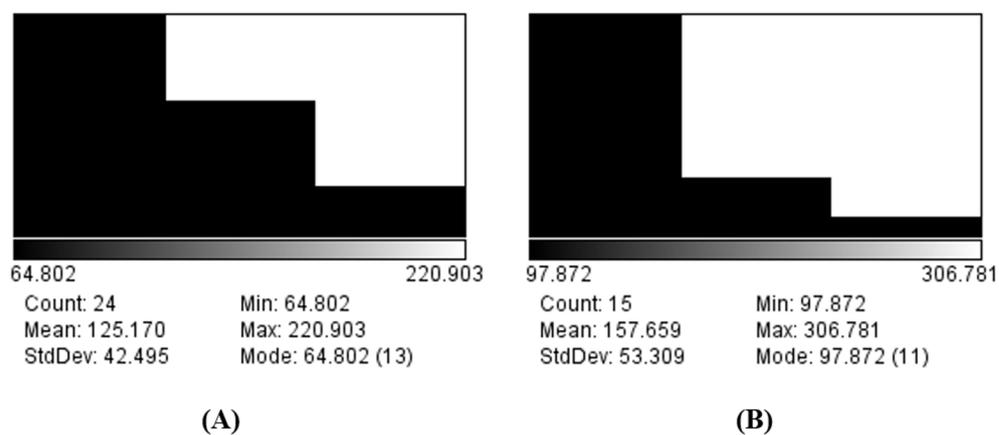


Figure S1. AFM topographic images of 12PhBr/ctDNA buffered solutions, in 10 mM HEPES (pH = 7.4), adsorbed on APTES modified mica surface. [ctDNA]= 0.6 μM. **A)** N/P = 9; **B)** N/P =



25.

Figure S2. Histograms generated using the size distribution tool of the ImageJ bundled with 64-bit Java 1.8.0_172 software of the TEM microscope for: (A) liposomes at $\alpha = 0.7$, and (B) lipoplexes at $\alpha = 0.7$ and $L/D = 8$.