

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

José Antonio Lebrón Pilar López-Cornejo Elena García-Dionisio Pablo Huertas Margarita García-Calderón María Luisa Moyáa Francisco José Ostos and Manuel López-López

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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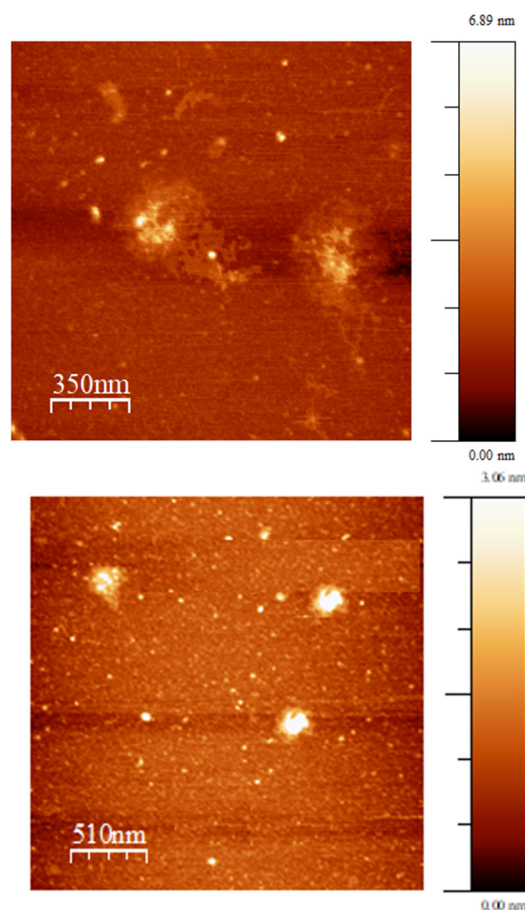
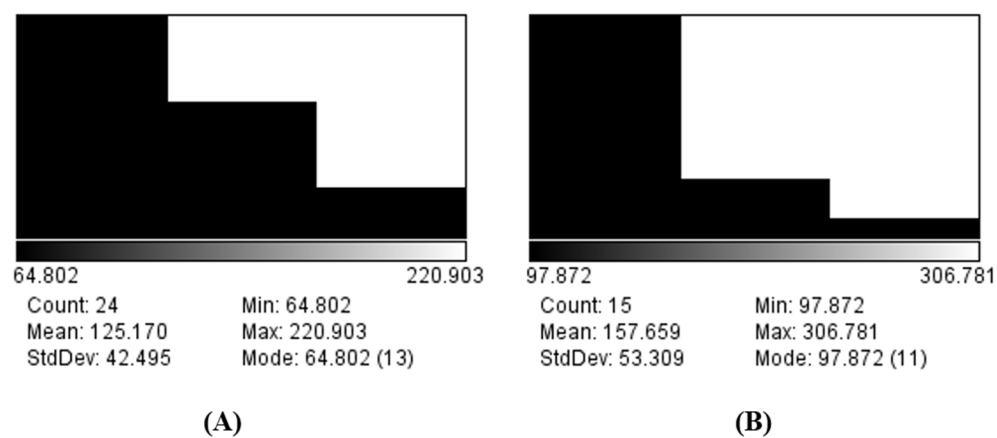


Figure S1. AFM topographic images of 12PhBr/ctDNA buffered solutions, in 10 mM HEPES (pH = 7.4), adsorbed on APTES modified mica surface. [ctDNA] = 0.6 µM. **A)** N/P = 9; **B)** N/P =



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 $L/D = 8$.