Supplementary materials

Adhesion and structural changes of PEGylated lipid nanocarriers on silica surfaces

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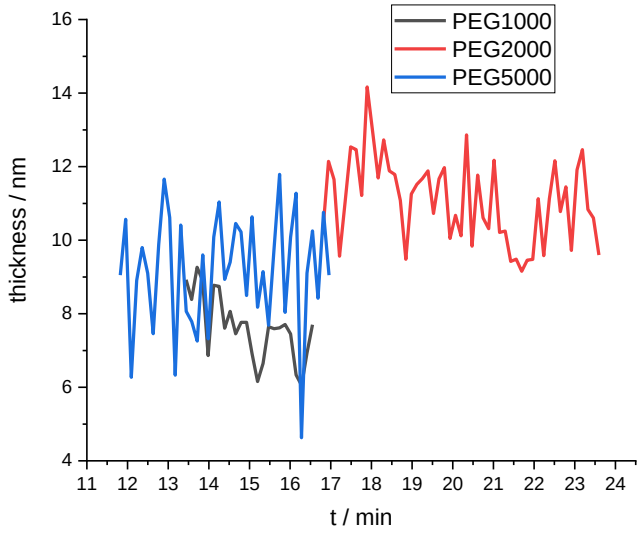

Figure S1 Calculated thickness of the lipodisks films formed on silica coated MP-SPR sensors. The lipodisks are composed of DSPC:DSPE-PEGx with a molar fraction of 80:20 and x=1000 (black line), x=2000 (red line) and x=5000 (blue line). The measurement was performed at 21 °C

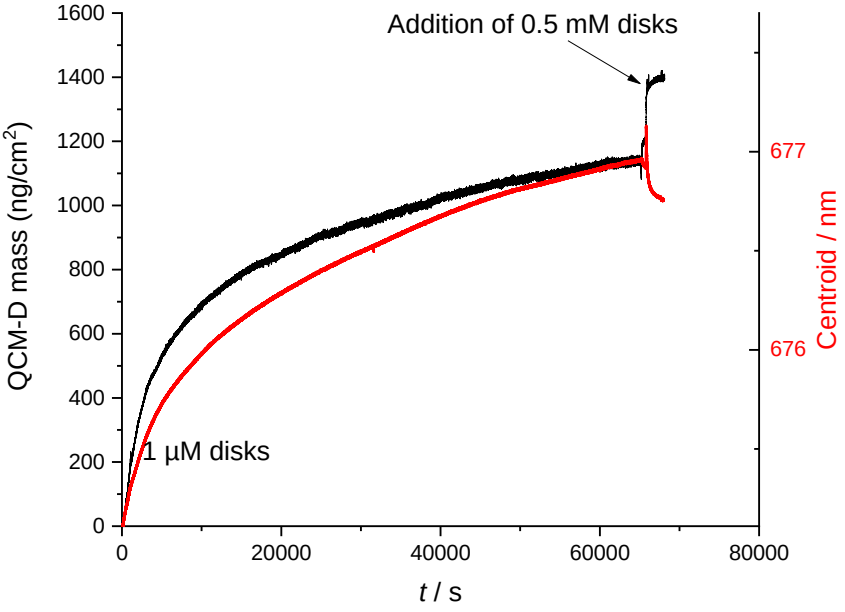

Figure S2 Simultaneously obtained QCM-D calculated mass and centroid position of the NPS signal for 1 µM lipodisks adsorbing on a silica sensor. The lipodisks are composed of DSPC:DSPE-PEG2000 with a molar fraction of 80:20. The measurement was performed at 21 °C

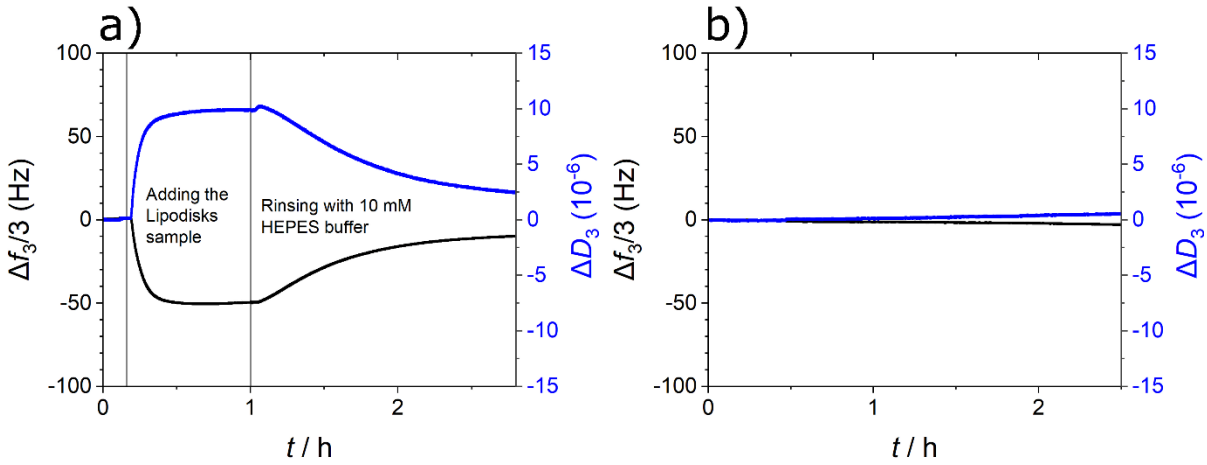

Figure S3 QCM-D graphs of the sample composed of DSPC:DPSE-PEG5000 with molar fractions of 75:25 applied to a silica sensor equilibrated with a) 10 mM HEPES buffer with 150 mM NaCl or b) with 10 mM HEPES buffer with 75 mM $CaCl_2$. Samples measured at 25°C.

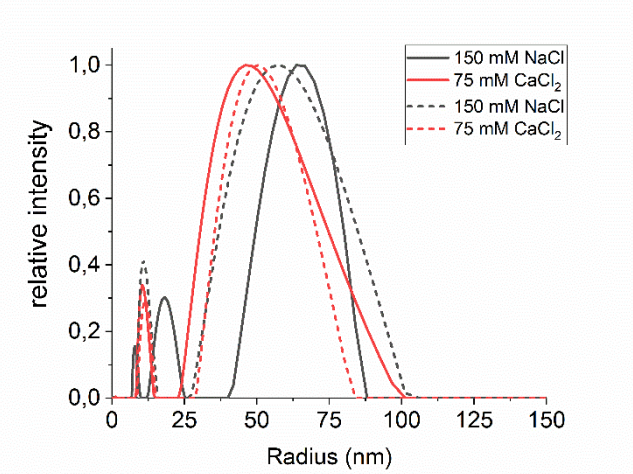

Figure S4 Comparative DLS experiments of samples composed of DSPC:DSPE-PEG2000 with molar fractions of 75:25. The samples have been dispersed in 10 mM HEPES buffer with 150 mM NaCl (black lines) or 75 mM $CaCl_2$ (red lines). The samples have been measured 2 hours (solid lines) and 3 days (dashed lines) after being dispersed.