Effect of the Spacer Length on the Counterion-Cationic Gemini Surfactant Interaction

Rohit Sood¹, Juha-Matti Alakoskela¹, Anjali Sood², Pavol Vitovič¹ and Paavo K.J. Kinnunen¹

¹Helsinki Biophysics and Biomembrane Group, Department of Biomedical Engineering and Computational Science, Aalto University, P.O.B. 12200, FIN-00076, Espoo, Finland

²Department of Chemistry, Laboratory of Inorganic Chemistry, Aalto University, P.O. Box 16100, FI-00076 Espoo, Finland

SUPPORTING MATERIAL

Figure S1: Variation of Z-average diameter vs temperature for one mM G2 (panel A), G4 (panel B), and G6 (panel C), in the presence of [NaF] = 0 (–), 50 (●), and 100 mM (▲).
Figure S2: Variation of Z-average diameter vs temperature for one mM G2 (panel A), G4 (panel B), and G6 (panel C), in the presence of [NaCl] = 0 (—), 50 (●), and 100 mM (▲). For panel A the Y axis is on a logarithmic scale to better illustrate the changes whereas a linear scale was used in panels B and C.
Figure S3: Variation of Z-average diameter vs temperature for one mM G2 (panel A), G4 (panel B), and G6 (panel C), in the presence of [NaBr] = 0 (○), 50 (●), and 100 (▲) mM. For panel B, Y axis is on a logarithmic scale to better illustrate the changes whereas a linear scale was used in panels A and C.
Figure S4: Variation of Z-average diameter vs temperature for one mM G2 (panel A), G4 (panel B), and G6 (panel C), in the presence of [NaI] = 0 (−), 0.1 (▲), and 1 (●) mM.
Figure S5: DSC traces of G2 (panel A), and G4 (panel B) in the presence of indicated [NaI]. No endotherms were observed by DSC for G6 dispersions in the presence of NaI.