Supplementary Data for “A Neutron Reflectivity Study of the Interfacial and Thermal Behavior of Surface-Attached Hairpin DNA”

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Received (in XXX, XXX) Xth XXXXXXXXX 200X, Accepted Xth XXXXXXXXX 200X
First published on the web Xth XXXXXXXXX 200X
DOI: 10.1039/b000000x

Results

Figure S1. The reflectivity profiles for a monolayer of PEG, immobilised at room temperature for 1 h. The diamonds represent the experimental data and the solid lines are the fitted data for three different contrasts, D2O (blue line/points), CM 2.5 (green line/points) and H2O (red line/points).

Figure S2. The neutron scattering length density (SLD) profile for a monolayer of PEG at room temperature for 1 h. The profiles shown were derived from data measured in 10 mM PBS buffer made up in three different solvents D2O (blue square), CM 2.5 (green triangle) and H2O (red dot).

Figure S3. The reflectivity profiles for the PEG:HPP 10:1 mSAM, immobilised for 1 h at room temperature. The diamonds represent the experimental data and the solid lines are the fitted data. The data shown were measured in 10 mM PBS buffer made up in three different solvents D2O (blue square), CM 2.5 (green triangle) and H2O (red dot).
Figure S4. The neutron SLD profile for the PEG:HPP 10:1 mSAM after immobilisation for 1 h at room temperature. The profiles shown were derived from data measured in 10 mM PBS buffer made up in three different solvents: D₂O (blue lines), CM 2.5 (green line) and H₂O (red lines).

Figure S5. The magnetic SLD profile for a HPP-SAM at 22 °C (blue solid line), at 65 °C (red dotted line) and after hybridisation (for 1 h at 35 °C) with complementary target ODN (green solid-dotted line) at 22 °C. The profiles shown were derived from data measured in 10 mM PBS buffer made up in D₂O for up-spin neutrons.

Notes and references

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