Life 2017, 7, x; doi:

Supplementary Materials Mobility of a Mononucleotide within a Lipid Matrix: A Neutron Scattering Study

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1. Elastic Scattering Intensities

Figure S1 reports the temperature dependence of the normalized elastic intensities integrated all over Q values for AMP-dMPL at the four hydrations acquired on IN16b, IN13 and IN5, respectively (in descending of energy resolution). Summed all over Qs is intended until a value of Q \approx 1 Å⁻¹: this is due to the experimental observation of a multiplicity of Bragg peaks, as already shown in Figure S1; the only exception is I(T)/I(20 K) intensity scan for IN13 to improve the statistics (IN13 has only 3 detectors with a Q value below 1 Å⁻¹).

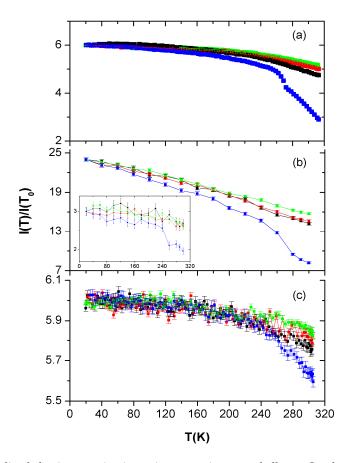


Figure S1. Normalized elastic scattering intensity curves integrated all over Q values for AMP-dMPL-h0 (**green**), AMP-dMPL-h15 (**red**), AMP-dMPL-h25 (**black**) and AMP-dMPL-h35 (**blue**), obtained with the neutron spectrometers (**a**) IN16b; (**b**) IN13 and (**c**) IN5. Curves are normalized to T = 20 K for IN16b and IN13, $T \approx 50 \text{ K}$ for IN5. Inset in panel b: integration over first 3 detectors for check.