**Electronic supplementary information**

Peculiarities of NMR Relaxation in Micellar Gels of Pluronic F-127

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**Figure S1** Decay of transverse magnetization for Sample 2 at 40° С (rigid gel-phase). The solid line is the approximation of the whole decay, the dashed line corresponds to the slowly-relaxing component, and the dotted line is the sum of intermediate-relaxing and slowly-relaxing components.



**Figure S2** Initial part of the transverse magnetization decay (1), fast-relaxing Gaussian component of the decay obtained after subtraction of slowly-relaxing and intermediate-relaxing components from the initial decay (2) and envelope of signal of solid-echo (3) for Sample 2 at 40 °С (rigid gel-phase).