

Supplementary information for structural changes in block copolymer micelles induced by cosolvent mixtures

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1. Light scattering of PB-PEO in H₂O/THF mixtures

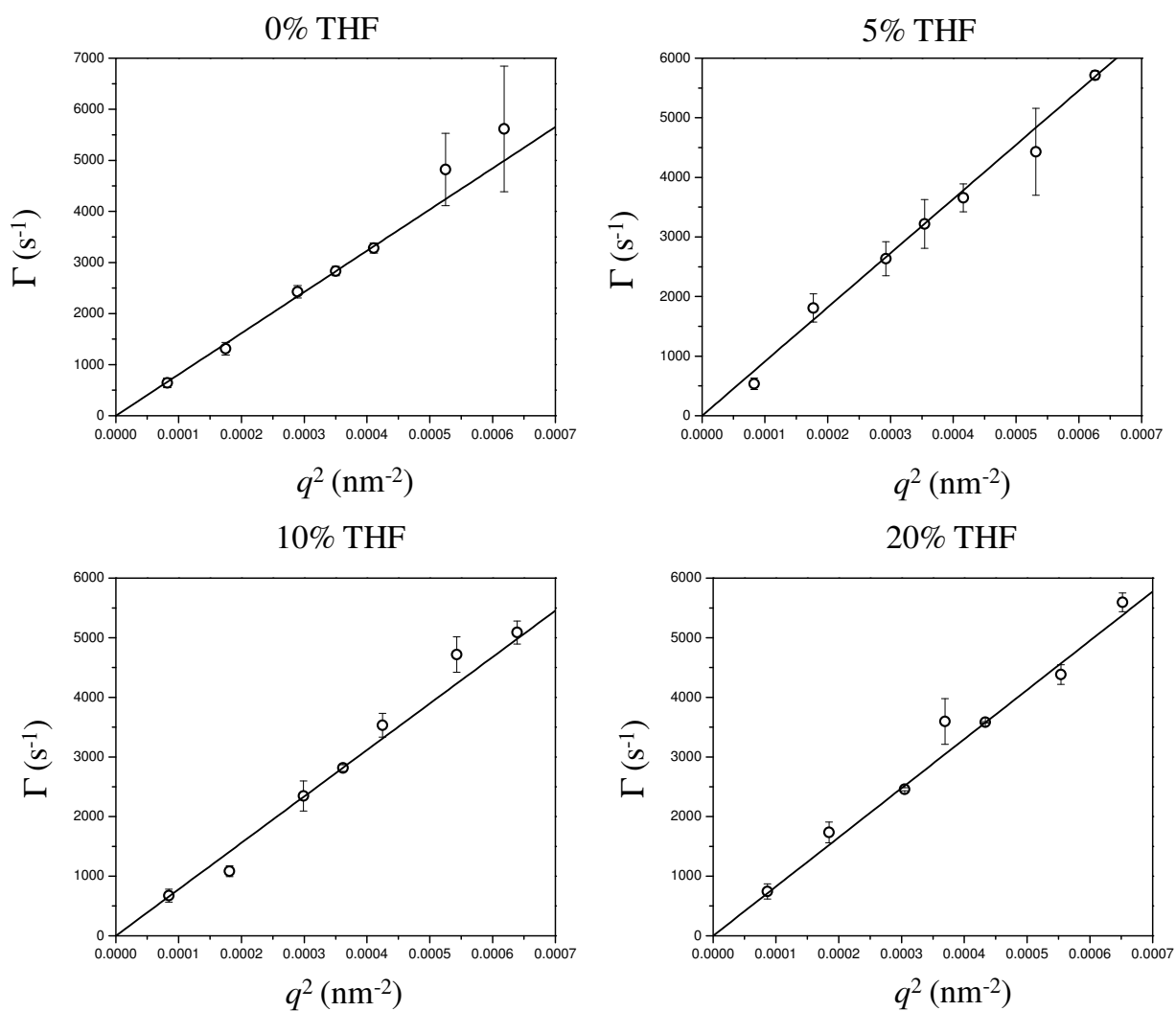


Fig. S1: Linear plots of the decay constant (Γ) versus q^2 determined by light scattering, indicative of the isotropic nature of the PB-PEO micelles (2.4 mg mL⁻¹) in a number of H₂O/THF co-solvent mixtures. Error bars represent the relative variance of Γ for each measurement.

2. Absorbance of PB homopolymer in H₂O/THF cosolvent mixtures

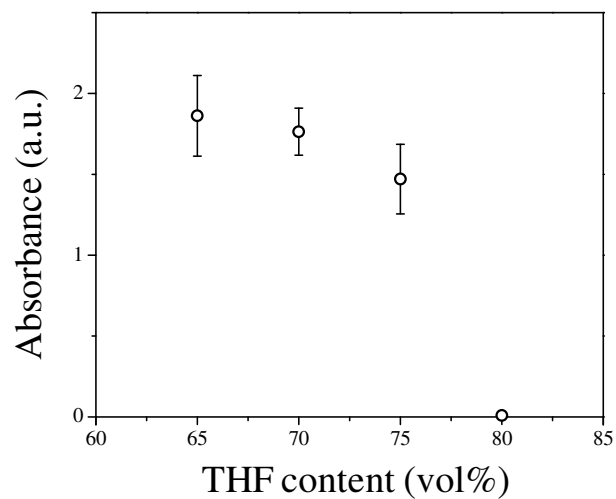


Fig. S2: Absorbance measurements for PB homopolymer ($M_n = 3.2 \text{ kg mol}^{-1}$, 0.73 mg mL^{-1}), in H₂O/THF mixtures, taken at 600 nm. Error bars represent standard deviation of measurements from three different polymer solutions.

3. Radius of gyration of PEO homopolymer in D₂O/THF-*d*₈ cosolvent mixtures

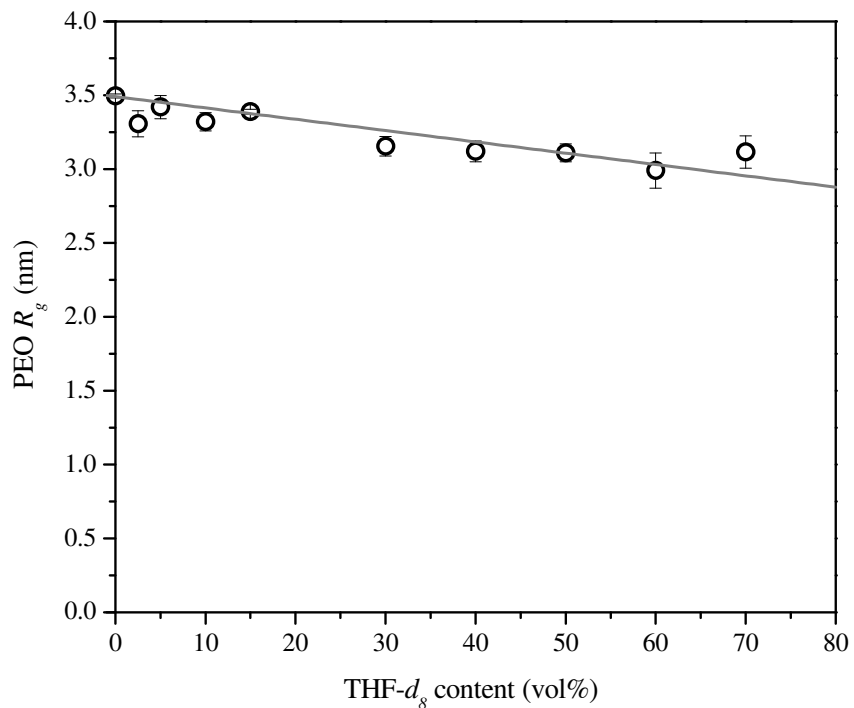


Fig. S3: Radius of gyration (R_g) of PEO homopolymer (6 kDa) in D₂O/THF-*d*₈ co-solvent mixtures determined from SANS measurements. SANS data were fit with a Debye function to determine the R_g . Error bars represent the range in fit values of R_g with similar goodness of fits.