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Supporting Information

Tuning the Properties of Injectable Poly(Oligoethylene Glycol Methacrylate) Hydrogels by Controlling Precursor Polymer Molecular Weight

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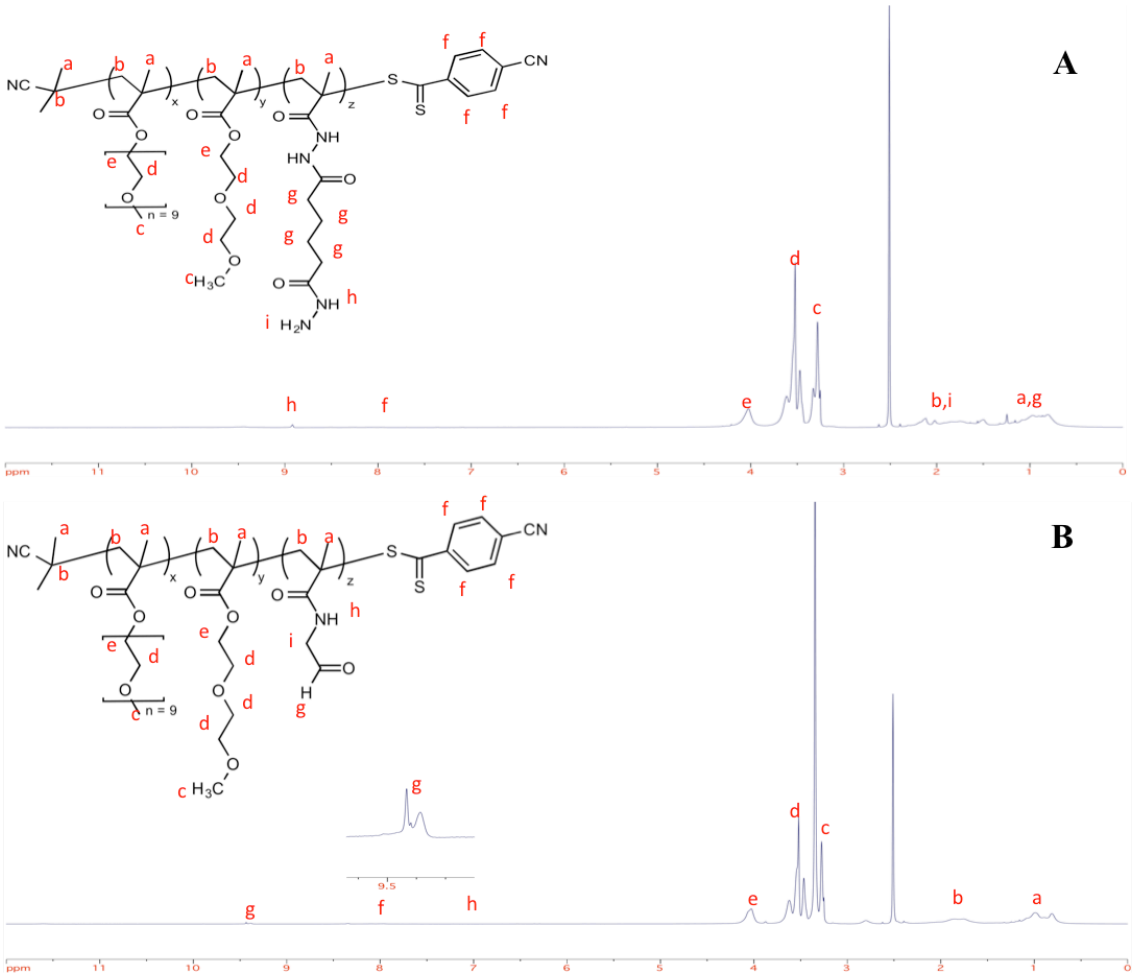

Figure S1. ^{1}H NMR of $POH_{15.9}$ (A) and $POA_{15.0}$ (B) in DMSO at 600 MHz.

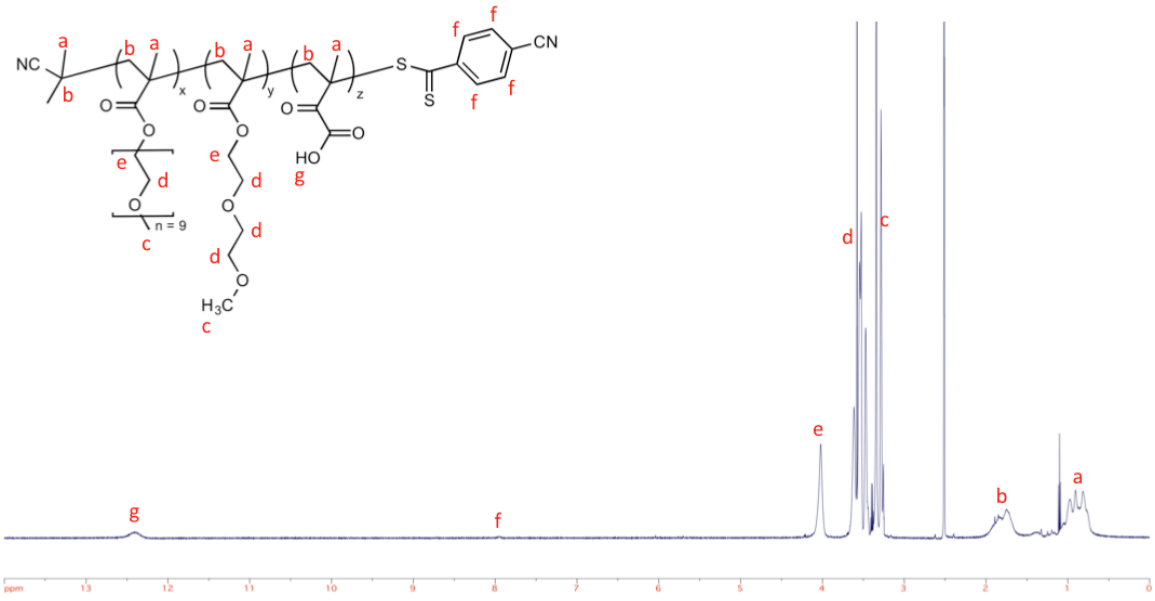

Figure S2. ^{1}H NMR of unfunctionalized POEGMA-co-MAA in DMSO at 600 MHz.

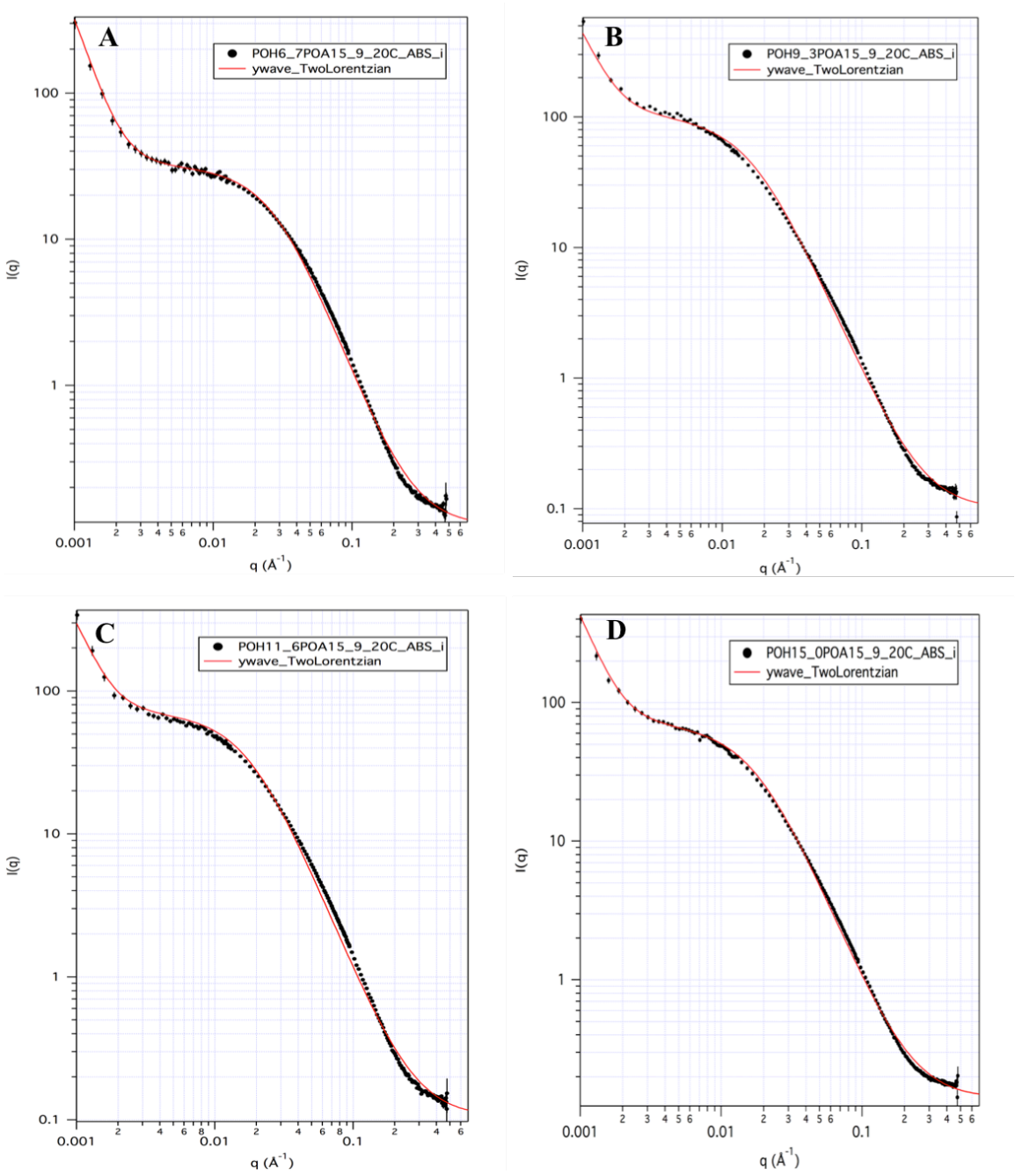

Figure S3. Scattering intensities as a function of q for $POH_{6.7}/POA_{15.9}$ (A), $POH_{9.3}/POA_{15.9}$ (B), $POH_{11.6}/POA_{15.9}$ (C), and $POH_{15.0}/POA_{15.9}$ (D) at 20 °C. The Ornstein-Zernike (OZ) – squared Lorentzian (SL) fits of the scattering intensities are shown as red solid lines, while the raw SANS data is shown as black points.

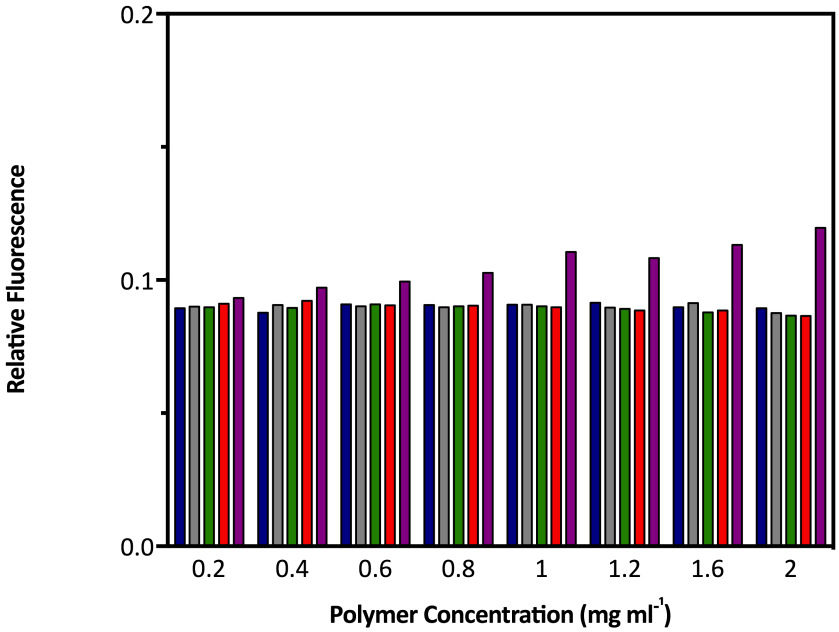

Figure S4. Fluorescence readings of wells containing resazurin (10 μg/ml) + DMEM + one of: $POH_{6.7}$ (blue), $POH_{9.3}$ (grey), $POH_{11.6}$ (green), $POH_{15.9}$ (red) and $POA_{15.0}$ (purple) at concentrations ranging from 0.2 – 2 mg ml^{-1} as a proportion of the fluorescence readings from control wells containing only cells, DMEM, and resazurin.