

Properties of polyethylene glycol/cyclodextrin hydrogels revealed by spin probe and spin labelling methods

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Supporting information

Figure S1. EPR spectra of spin labelled PEG900/ β -CD (10:1) in 273-353 K interval

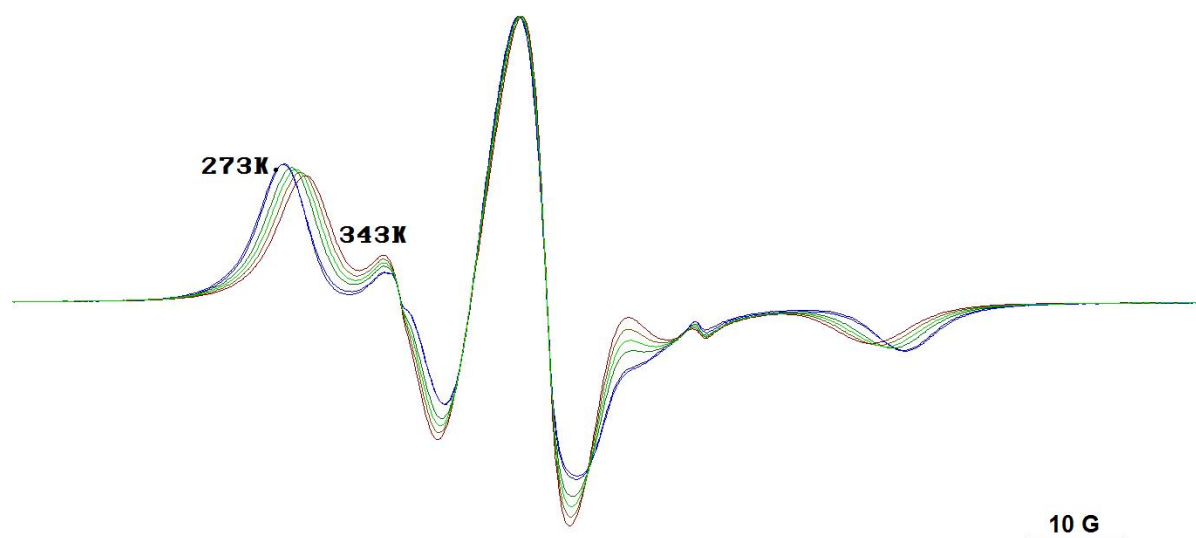


Figure S2. Simulation parameters for β -CD/PEG2000 spectra and Arrhenius plots for rotational diffusion rate.

Magnetic parameters: $g_x=2.009$, $g_y=2.0061$, $g_z=2.0027$, $A_{xx}=A_{yy}=6.8\text{G}$, $A_{zz}=36.4\text{G}$, $\beta_D=90^\circ$

Temperature, K	293	300	313	323	333	343	353
% 1 st component	93.7	93.9	94.8	93.5	95.5	95.6	95.5
$\log(\bar{R})$, 1 st component ^a	7.46	7.53	7.65	7.69	7.74	7.84	7.85
gib0 , 1 st component	0.03	0.03	0.01	0.01	0.01	0.01	0.01
$\log(\bar{R})$, 2 nd component	8.44	8.49	8.51	8.55	8.61	8.76	8.85
gib0 , 2 nd component	1.88	1.20	1.30	1.47	1.48	1.47	1.38

\bar{R} is isotropic rotational diffusion rate, s^{-1} ; gib0 is peak to peak Gaussian inhomogeneous broadening, G.

Arrhenius plot for the rotational diffusion rates

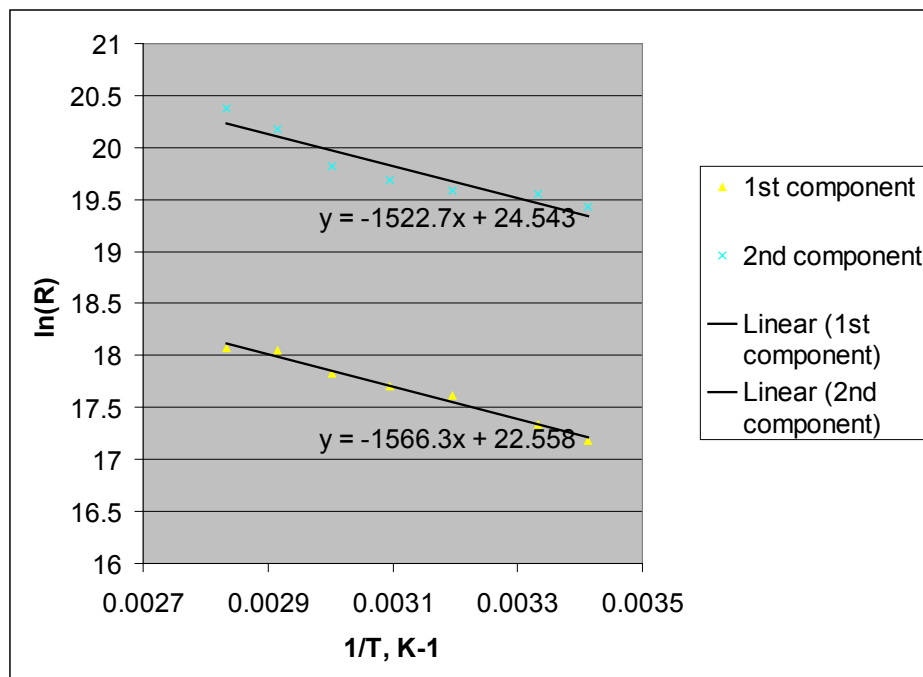


Figure S3. EPR spectra of AT in PEG900/ β -CD (4:1, 10:1, 14:1) and in PEG2000/ β -CD hydrogels recorded at room temperature

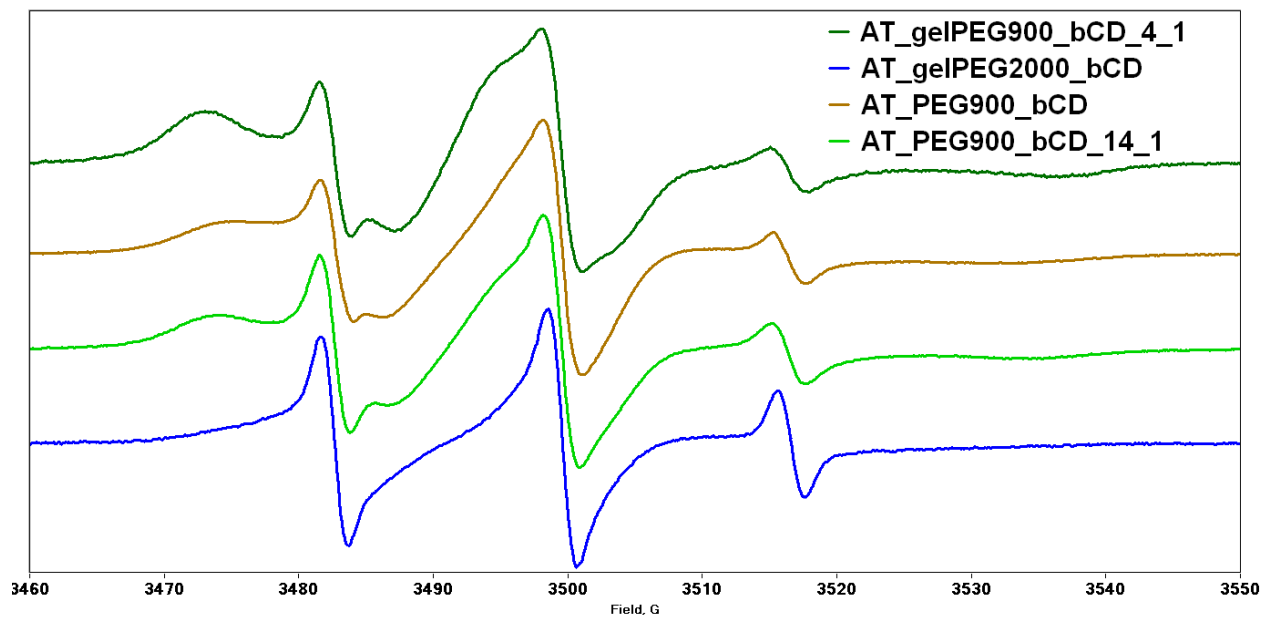


Figure S4 EPR spectra of AT loaded in the PEG2000/ β -CD gel at different temperatures: 293 K (A), 273 K (B), 263 K (C), 258 K (D), 253 K (E), 248 K (F), 233 K (G) and 120 K (H).

