

Supplementary information

Cannabidiol-loaded mixed polymeric micelles of chitosan/poly(vinyl alcohol) and poly(methyl methacrylate) for trans-corneal delivery

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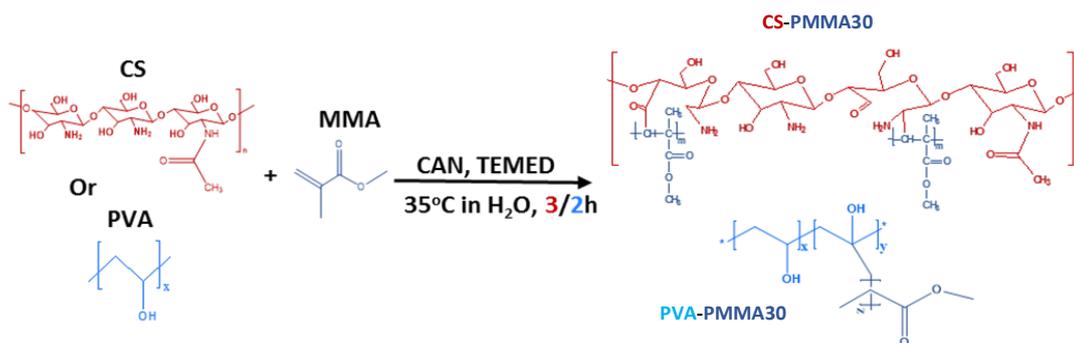


Figure S1. Synthetic pathway of CS-PMMA30 and PVA-PMMA16 copolymers by the free radical graft polymerization of MMA. The reaction time was 3 and 2 h for the synthesis of CS- and PVA-based copolymers, respectively.

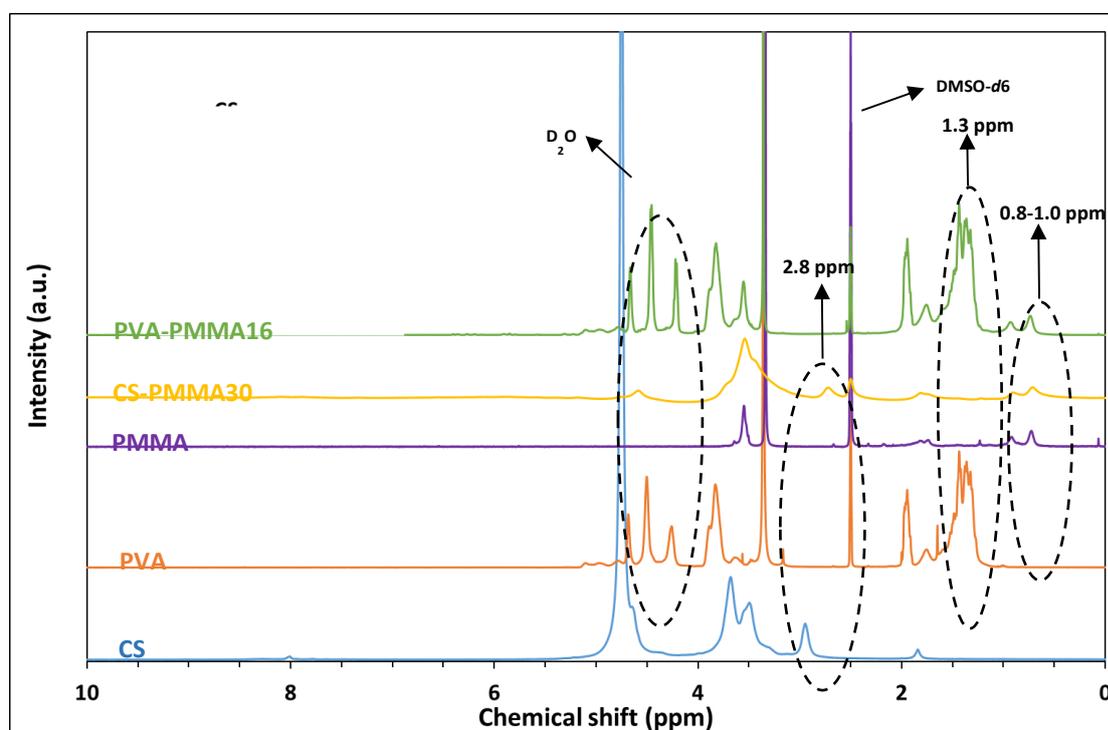


Figure 2. ¹H-NMR spectra of pure CS (in D₂O), pure PMMA, pure PVA, CS-PMMA30 and PVA-PMMA16 (in DMSO-*d*₆).

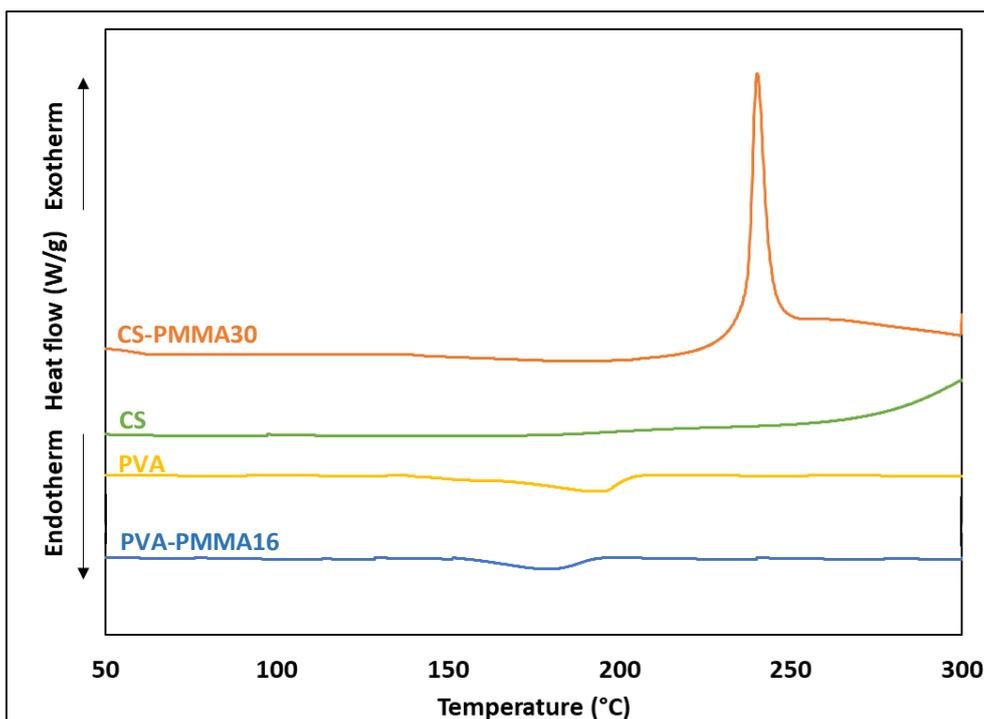


Figure S3. Thermal analysis of pristine polymers and graft copolymers, as measured by DSC.

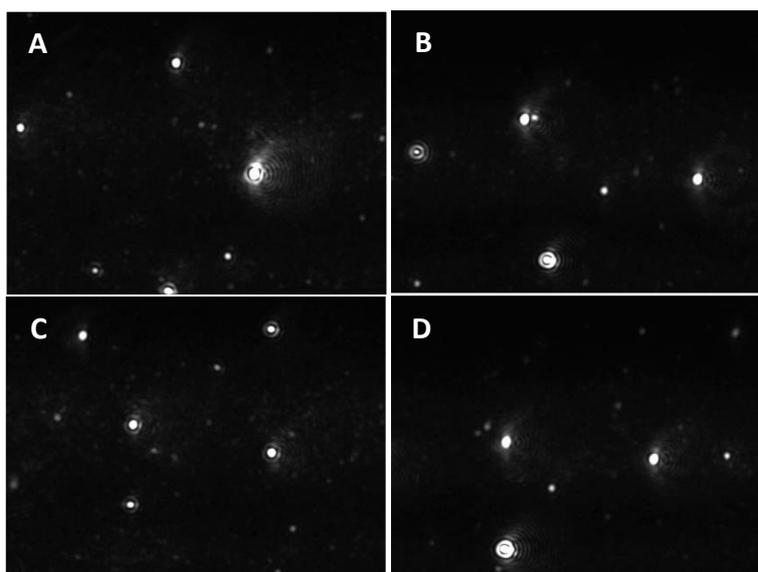


Figure S4. Representative NTA snapshots of (A) non-crosslinked mixed PMs, (B) crosslinked mixed PMs, (C) CBD-loaded non-crosslinked mixed PMs, and (D) CBD-loaded crosslinked mixed PMs, at 37°C under scattering mode. The CBD loading is 20% w/w.