

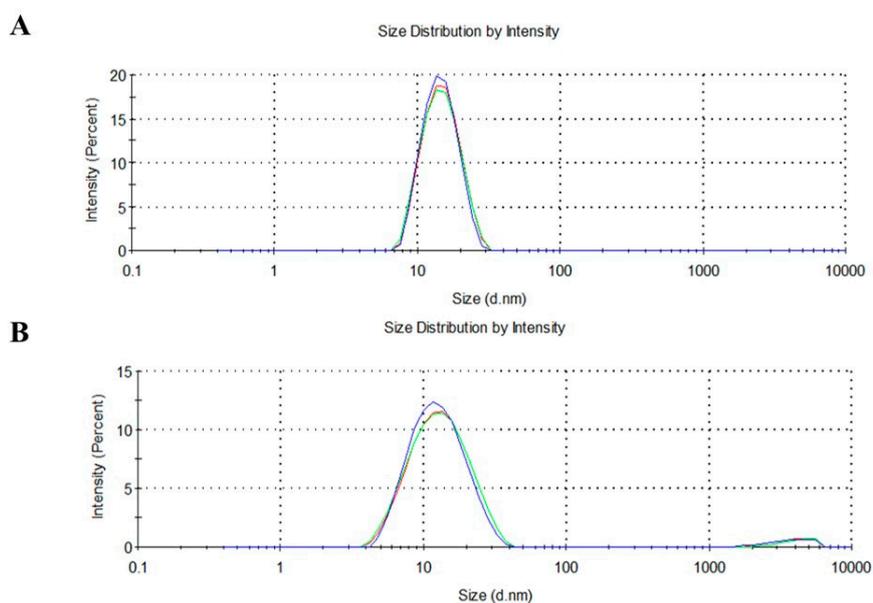
## Formulation of polymeric micelles to increase the solubility and photostability of caffeic acid

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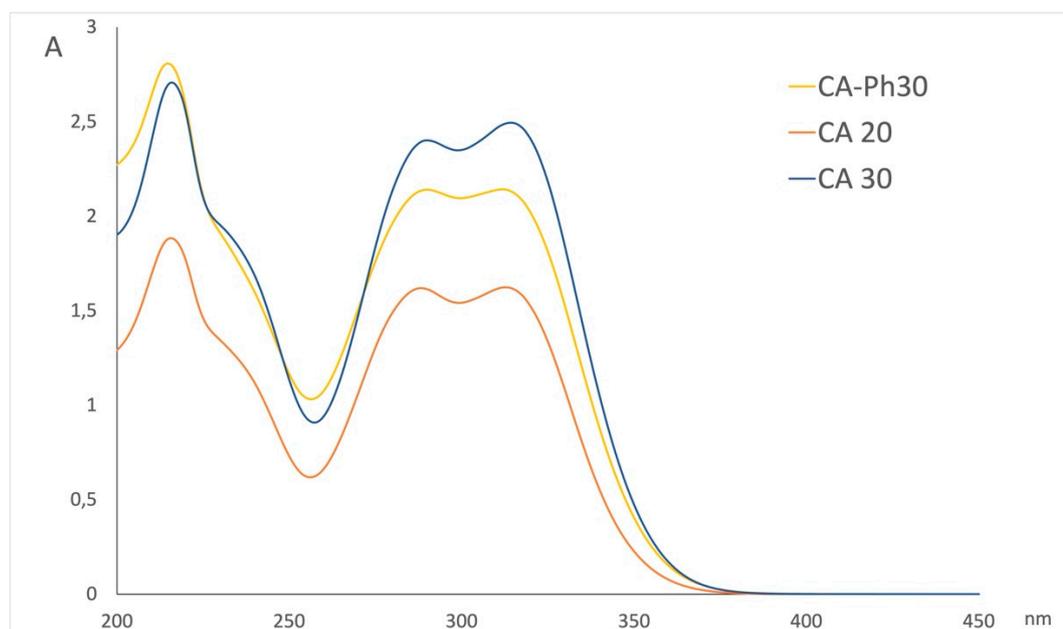
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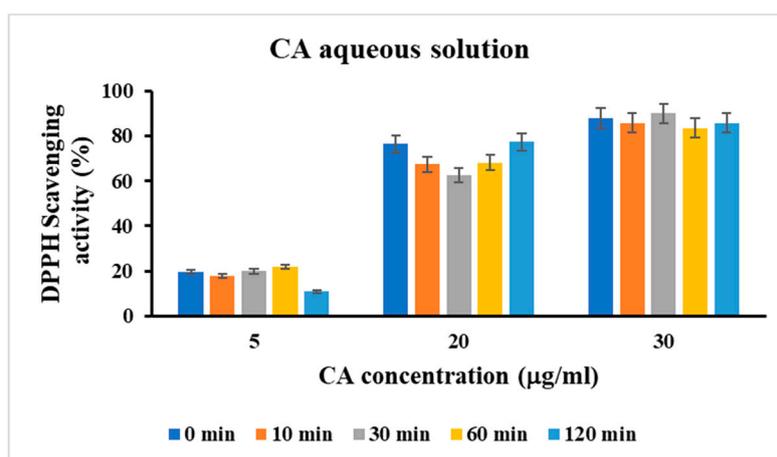
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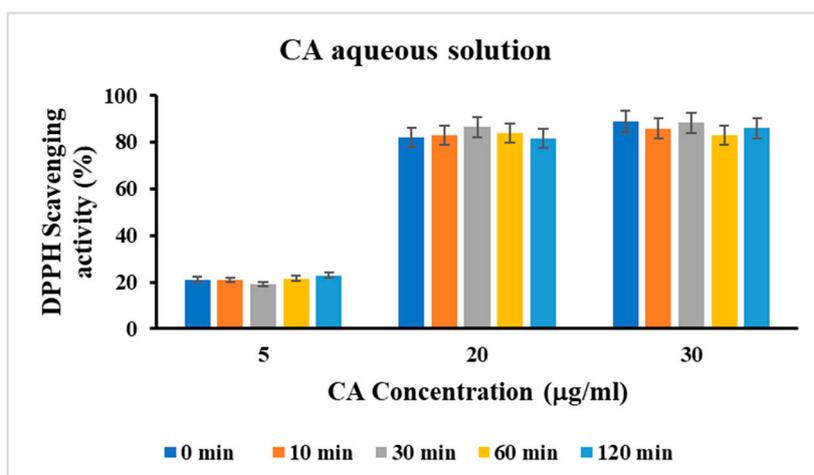
**Figure S1.** Intensity size distribution of MC10CA0.5 (A) and MC20CA0.5 (B) determined by DLS.



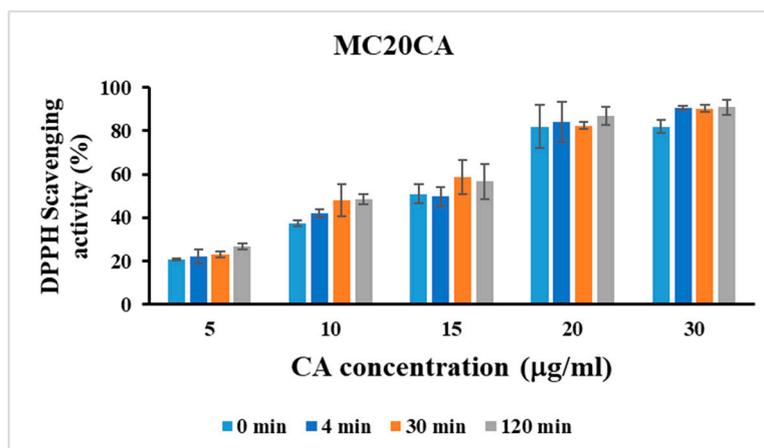
**Figure S2.** Absorbance spectra of CA 20  $\mu\text{g mL}^{-1}$  (red line), CA 20  $\mu\text{g mL}^{-1}$  (grey line) and the photodegradation product obtained for CA 30  $\mu\text{g mL}^{-1}$  (blue line).



**Figure S3.** DPPH scavenging activity of CA aqueous solutions after thermal degradation experiment carried out at 60°C



**Figure S4.** DPPH scavenging activity of CA aqueous solutions after thermal degradation experiment carried out at 80°C



**Figure S5.** DPPH scavenging activity of MC20 formulations after photodegradation experiment. Data is represented as Mean  $\pm$  SD, n=3.