

## Electronic Supplementary Data

### Synthesis of self-assembly of agarose-fatty acid ester nanoparticles

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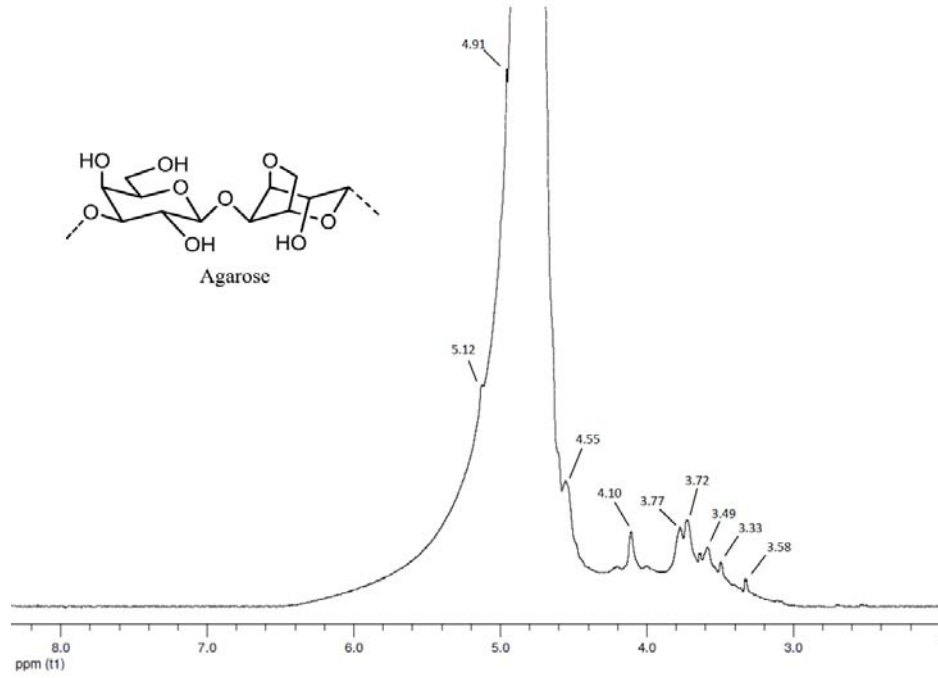
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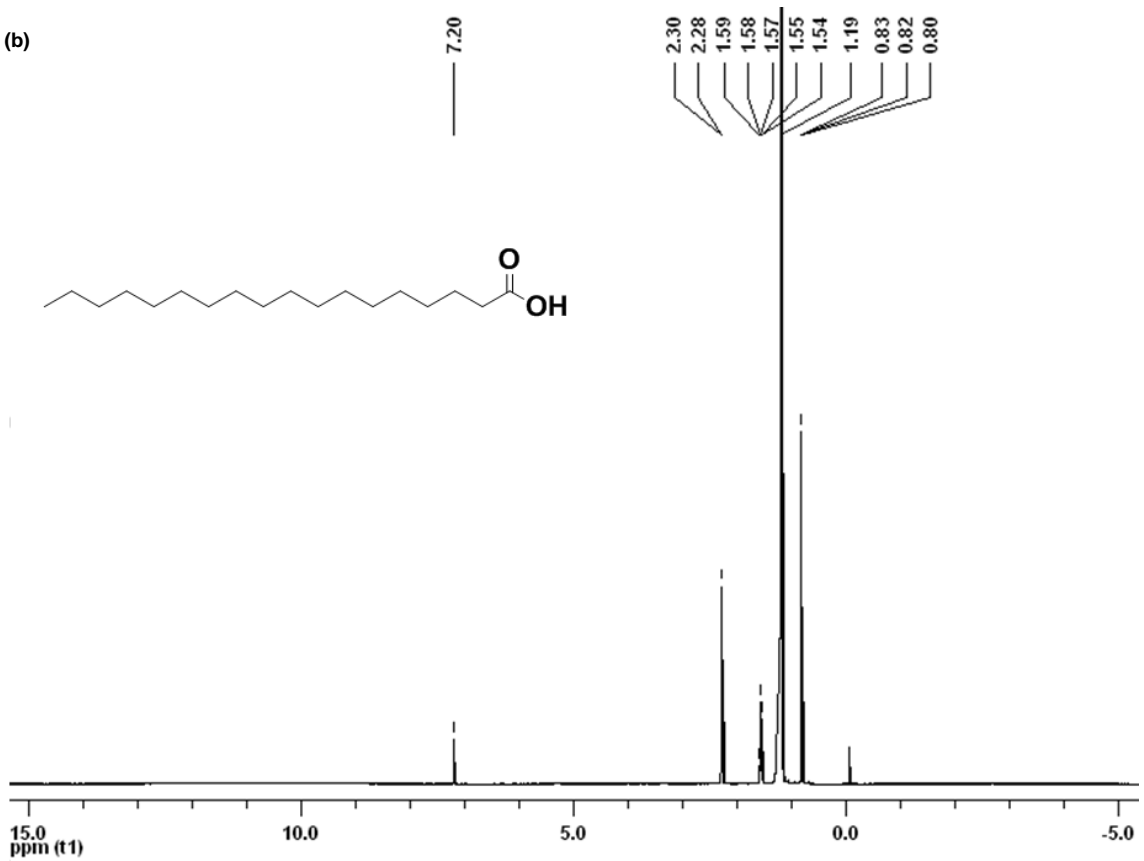
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No.	Contents	Pg. No.
1	Fig. S1 – <sup>1</sup> H NMR spectra of (a) agarose in DMSO-d <sub>6</sub> , (b) stearic acid, and, (c) palmitic acid in CDCl <sub>3</sub> at ambient temperature	2
2	Fig. S2 – Differential scanning calorimetry.[A: -20–25 °C of (a) agarose, (b) Ag-SA, (c) Ag-PA; B: 30–500 °C of (a) agarose, (b) Ag-SA, (c) Ag-PA]	4

(a)



(b)



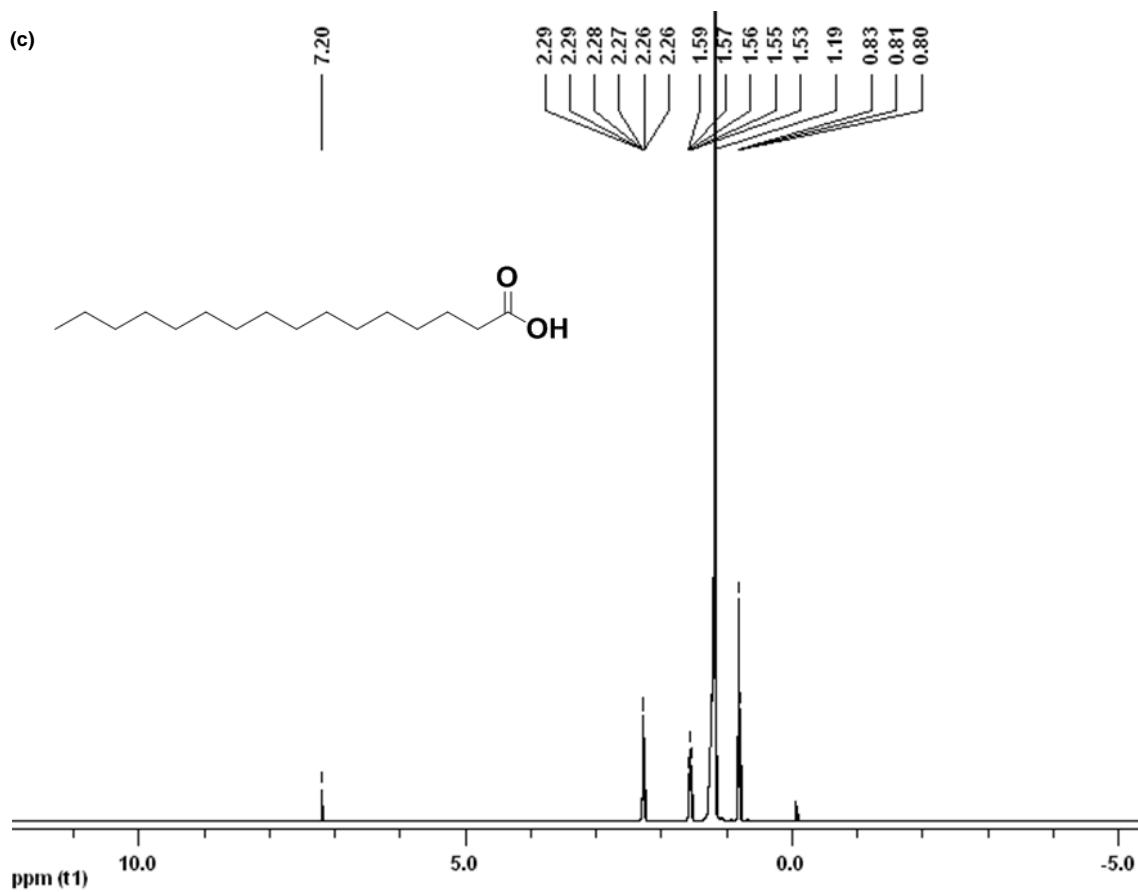


Fig. S1 –  $^1\text{H}$  NMR spectra of (a) agarose in  $\text{DMSO-d}_6$ , (b) stearic acid, and, (c) palmitic acid in  $\text{CDCl}_3$  at ambient temperature

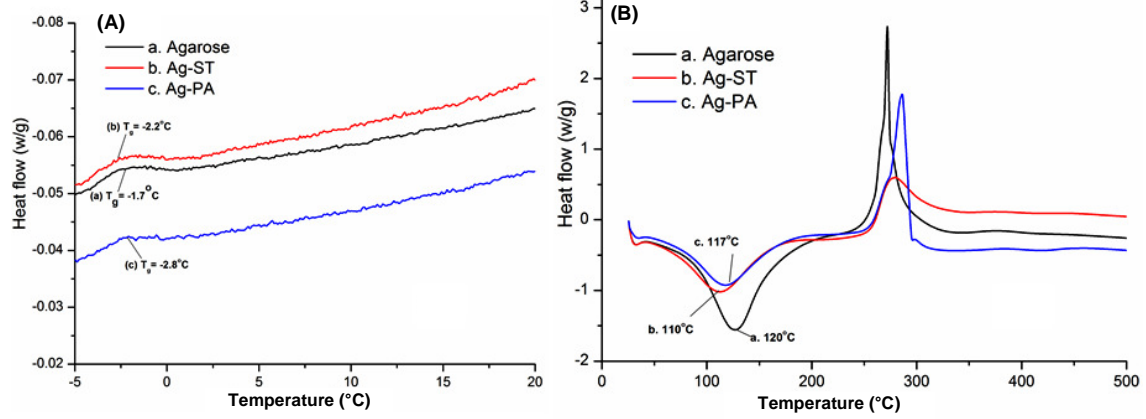


Fig. S2 – Differential scanning calorimetry.[A: -20–25 °C of (a) agarose, (b) Ag-SA, (c) Ag-PA; B: 30–500 °C of (a) agarose, (b) Ag-SA, (c) Ag-PA]