

Supplementary data

Facile synthesis of agarose-L-phenylalanine ester hydrogels

Gaurav K. Mehta^a, Stalin Kondaveeti^a, A. K. Siddhanta^{a*}

^a *Marine Biotechnology and Ecology Discipline,
Central Salt & Marine Chemicals Research Institute,
(Council of Scientific & Industrial Research),
G. B Marg, Bhavnagar-364021 (Gujarat), India.
*E-mail: aks@csmcri.org;
Fax: +91-278- 2567562, Tel: +91-278-2567760*

Contents

Figure S1. Equilibrium swelling of dried gel of agarose derivatives (Ag-PA_{Est}, G-Ag-PA_{Est}) in aqueous media (pH 1.2).

Figure S2. Equilibrium swelling of dried gel of agarose derivatives (Ag-PA_{Est}, G-Ag-PA_{Est}) in aqueous media (pH 7.0).

Figure S3. Equilibrium swelling of dried gel of agarose derivatives (Ag-PA_{Est}, G-Ag-PA_{Est}) in aqueous media (pH 12.5).

Figure S4. ¹H NMR spectra of (a) agarose, (b) Ag-PA_{Est} and (c) genipin (d) G-Ag-PA_{Est} in D₂O at ambient temperature.

Scheme S5. Plausible reaction mechanism of the genipin cross-linked Ag-PA_{Est}

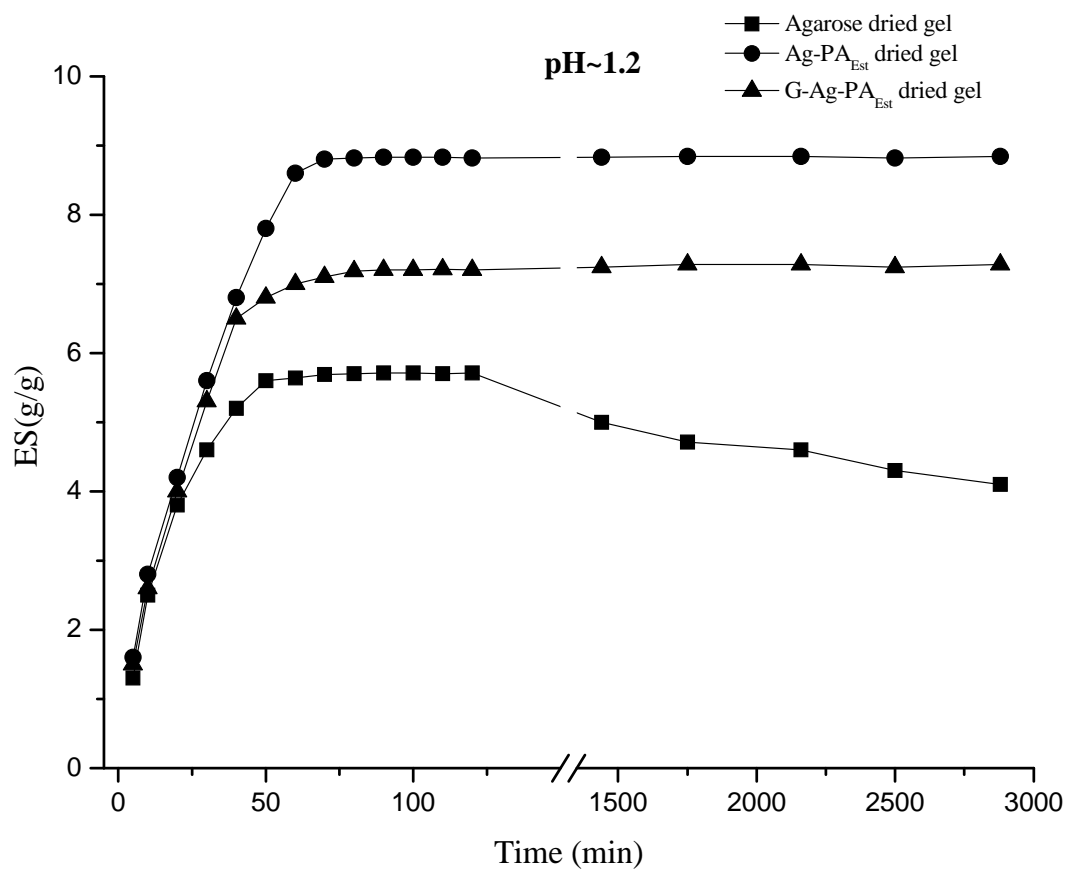


Figure S1

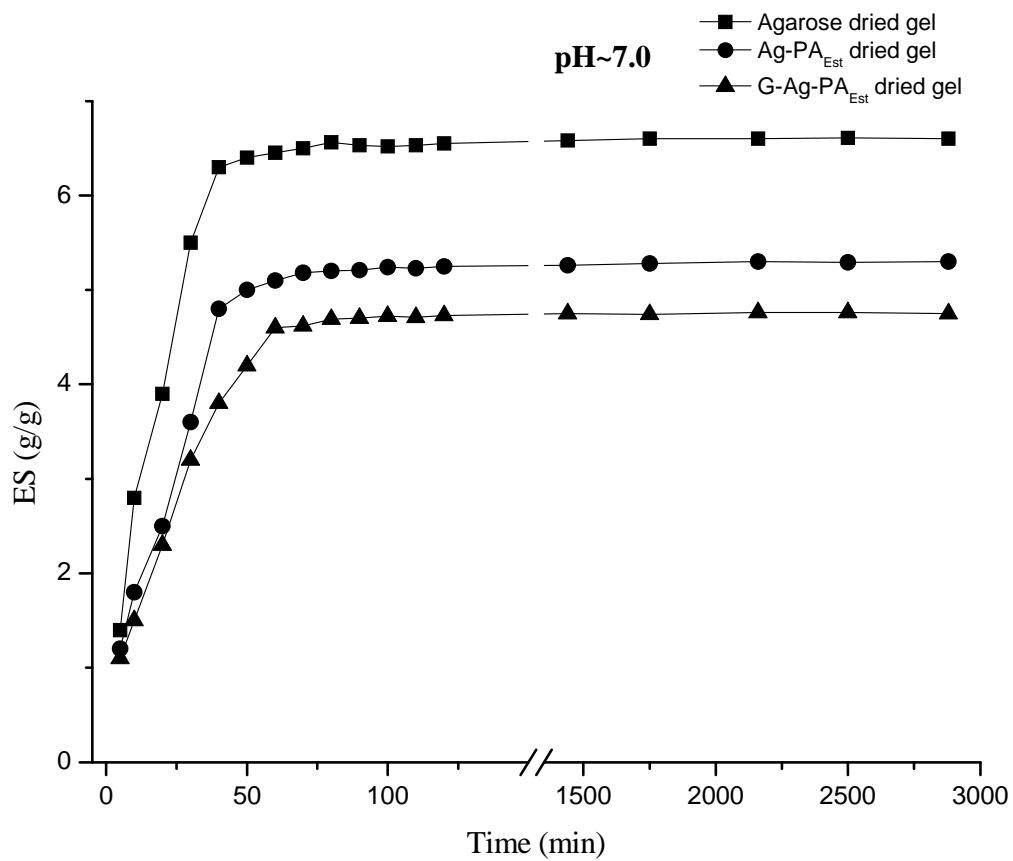


Figure S2

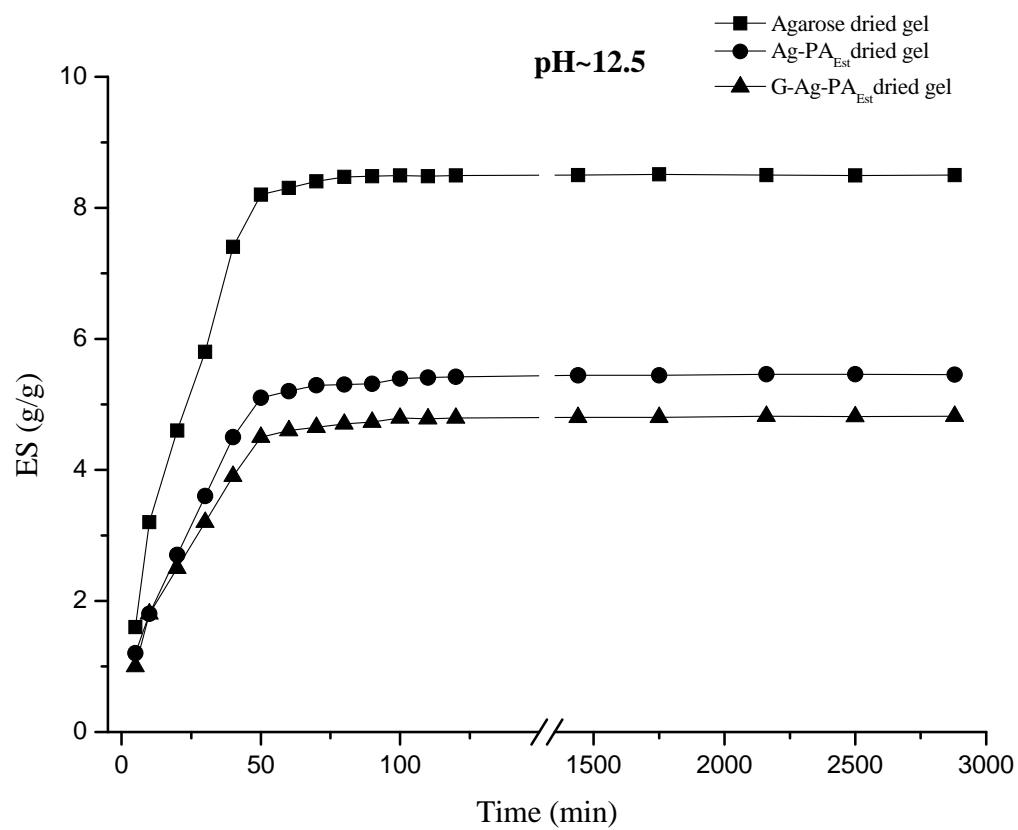


Figure S3

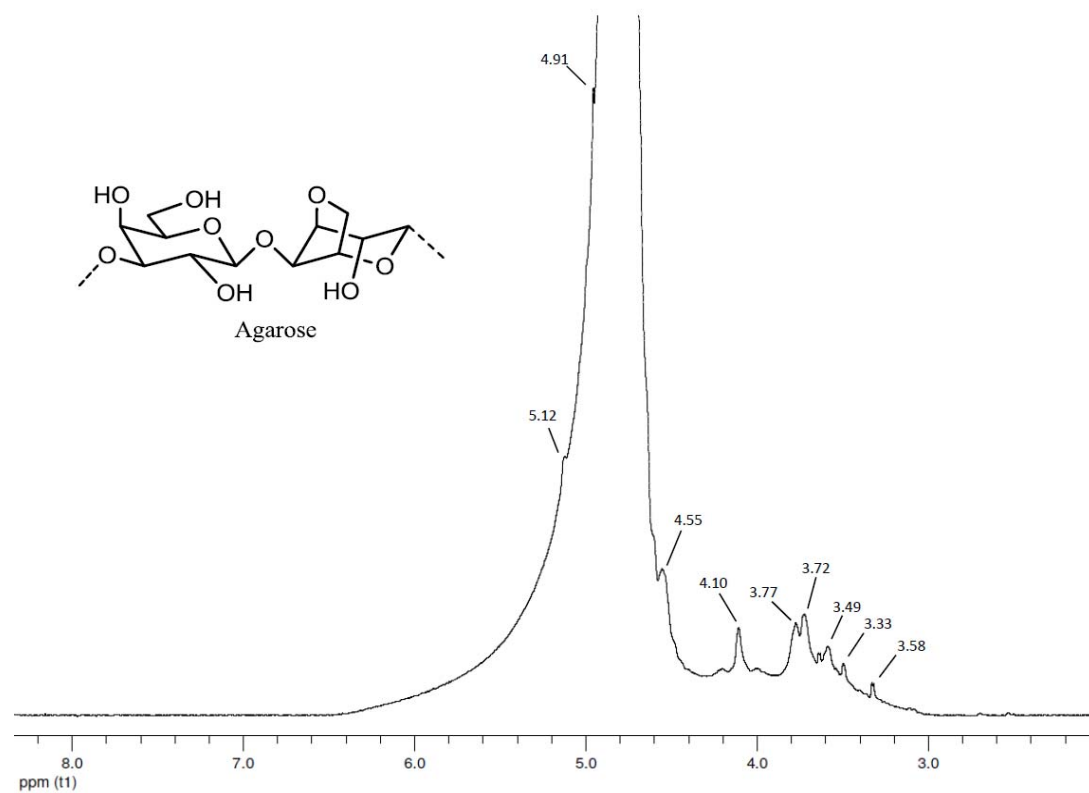


Figure S4a

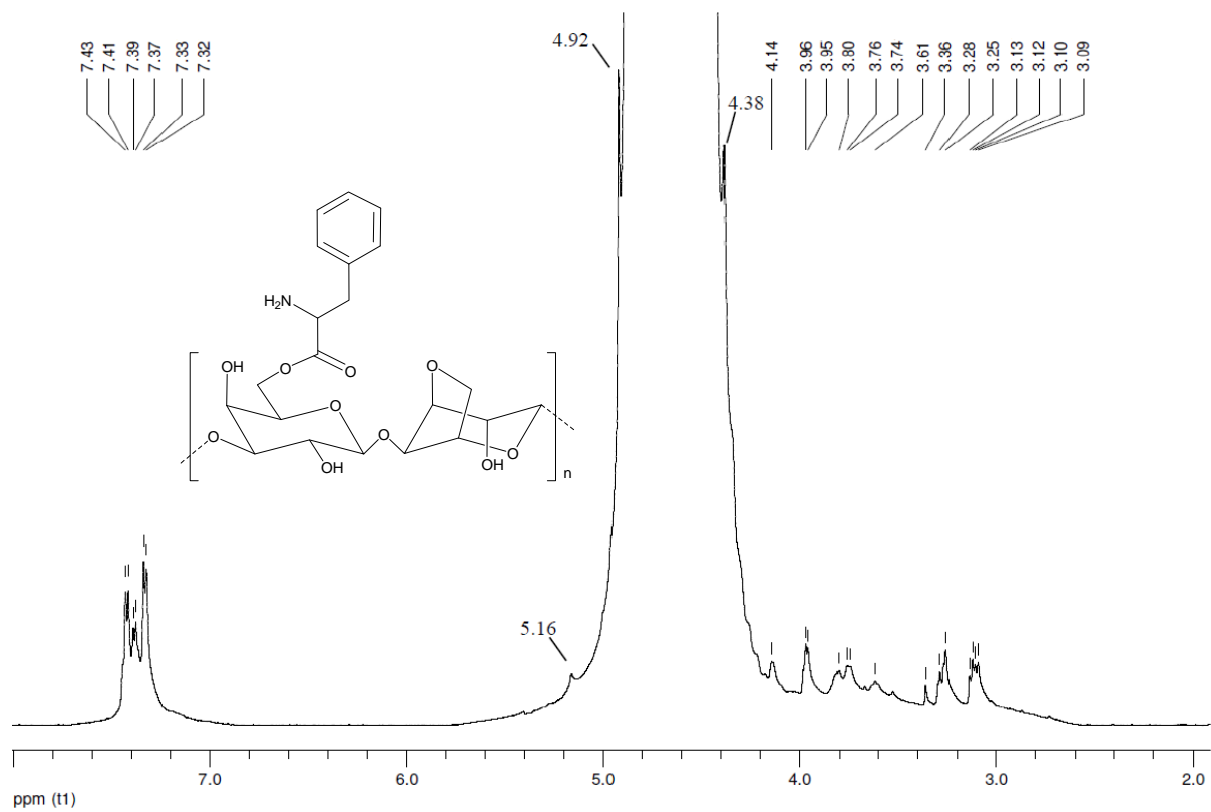


Figure S4b

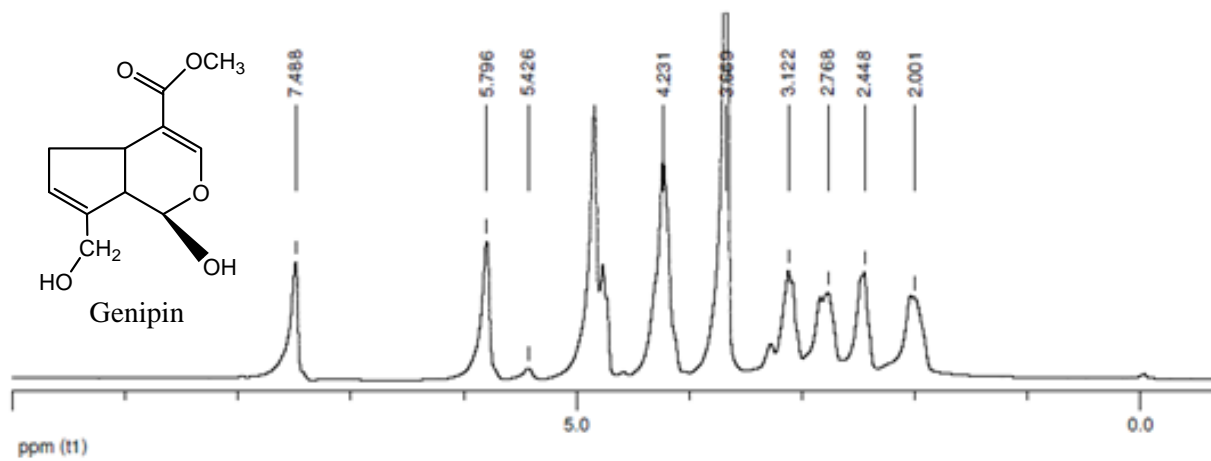


Figure S4c

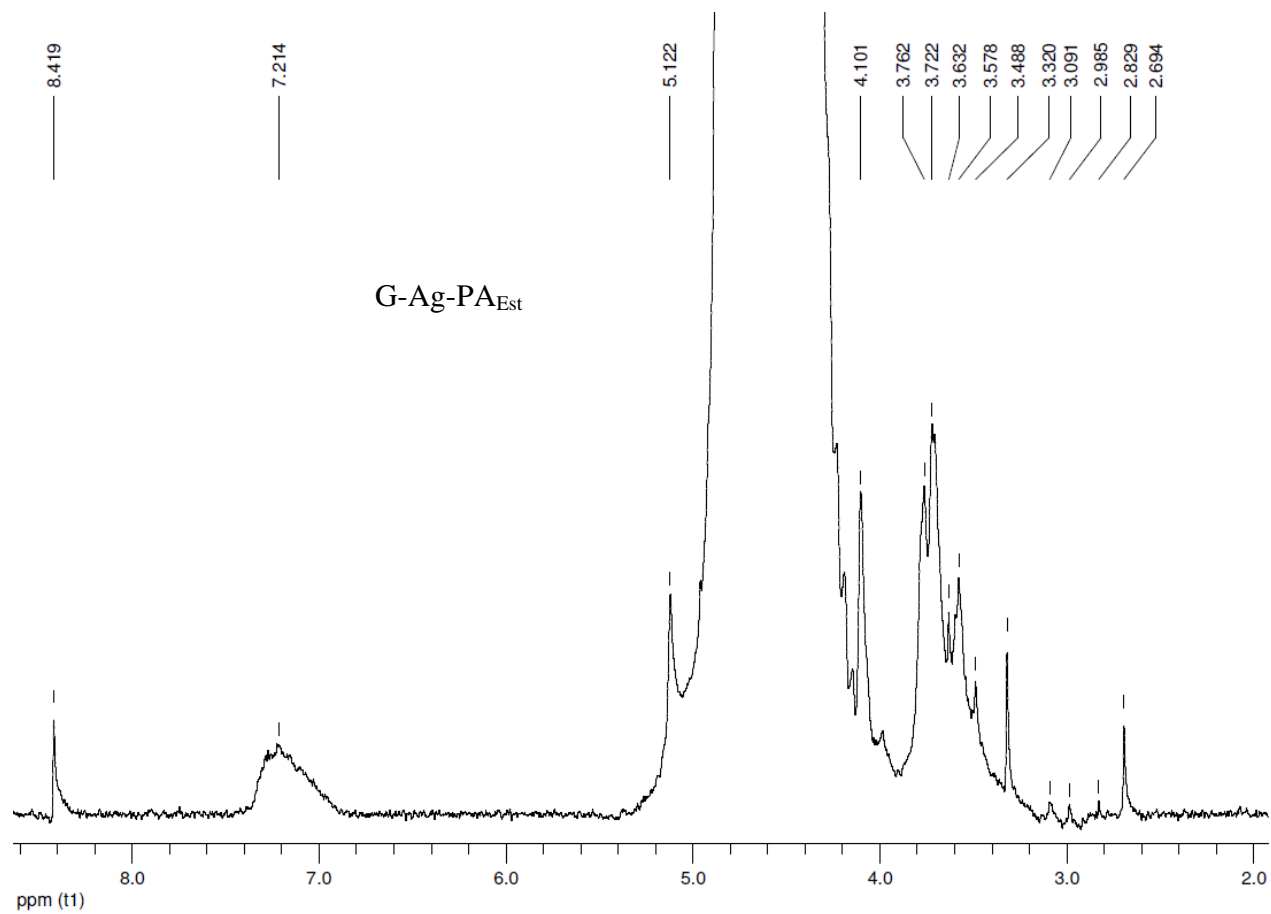
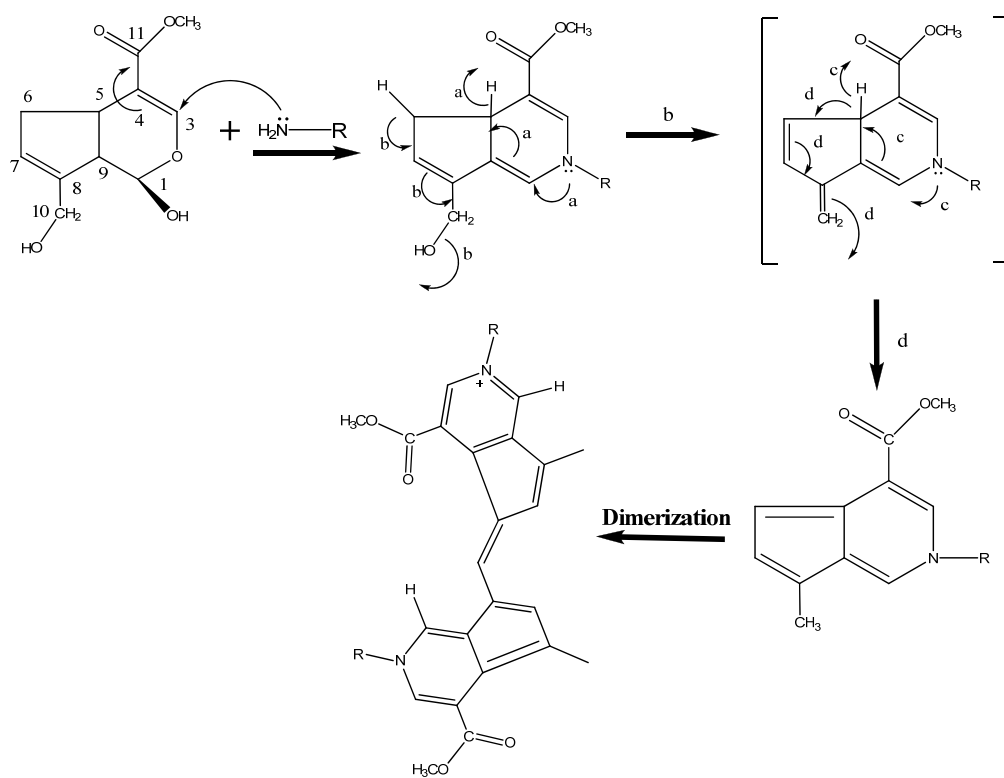


Figure S4d



Where $\text{R} = \text{Ag-PA}_{\text{Est}}$ ($\text{DS}_{\text{Est}} 0.62$)

Scheme S5.