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Title: Agarose based multifunctional materials: Evaluation of thixotropy, self-healability and stretchability

Author: Jai Prakash Chaudhary Dharmesh R. Chejara Dipak Makwana Kamallesh Prasad Ramavatar Meena



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Highlights

- Multifunctional ester derivative of agarose has been described
- Agr-GA_{Est} formed gel in ethylene glycol, exhibited excellent thixotropic property
- Gel system exhibited excellent stretching ability (> 20 times)
- Gel upon cleavage got self-healed with or without external stimuli within 12 min
- Multifunctional properties of this material allow for wider applications

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