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Title: Functional modification of agarose: A facile synthesis of a fluorescent agarose-tryptophan based hydrogel

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Highlights

- Agarose and tryptophan based fluorescent hydrogel material (Ag-Trp_{Est}) was synthesized via carbodiimide chemistry
- Ag-Trp_{Est} was cross linked with genipin to produce blue colored hydrogel.
- Both the Ag-Trp_{Est} and G-Ag-Trp_{Est} hydrogels exhibited comparable gel strengths to those of agarose gel.
- Ag-Trp_{Est} and G-Ag-Trp_{Est} hydrogels were stable across pH 1.2, 7.0 and 12.5 media.

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