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Title: Conjugation of curcumin onto alginate enhances aqueous solubility and stability of curcumin

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Highlights

- A novel Alginate-Curcumin (Alg-Ccm) conjugate was developed.
- The conjugate self-assembled in aqueous medium forming nanosized micelles.
- Alg-Ccm enhanced the aqueous solubility of curcumin compared to free curcumin.
- The conjugate micelles augmented the stability of curcumin in water at p^H 7.4.
- Alg-Ccm showed excellent cytotoxic activity compared to free curcumin.

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