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Title: Collagen cryogel cross-linked by naturally derived dialdehyde carboxymethyl cellulose

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2 **dialdehyde carboxymethyl cellulose**

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7 **Highlights**

- 8 ➤ The M_w of water soluble DCMC is 2.38×10^5 g/mol measured by LLS.
9 ➤ Incorporation of minute DCMC can induce cross-linked collagen cryogel.
10 ➤ Crosslinking reaction and cryogenic treatment do not destroy collagen triple helix.
11 ➤ The cryogel has a heterophase structure and displays good biological properties.

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