

Potential use of alginate bead as chondrocyte delivery vehicle and stepwisely dissolving porogen in hydrogel scaffold for cartilage tissue engineering

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Legends

Fig. S1 (A) Synthesis of photocrosslinkable CS-MA precursor; (B) ¹H NMR spectrum of CS-MA precursor, where the peaks (B-a) belonging to acrylate protons (A-a) are shown by arrows.

Fig. S2 Micrograph of alginate beads (a), and images of freshly prepared CS-ABG (b) and CS-MCG (c).

Fig. S3 Representative dissolution of alginate bead by incubating it into 50 mM EDTA solution for 0 minute, 10 minutes, and plus 2 minutes, respectively. The volume of alginate bead becomes smaller in response to EDTA treatments.

Fig. S4 Fluorescent images of chondrocytes encapsulated at the interior (a) and edge (b) of CS-G constructs after 21 days of culture.

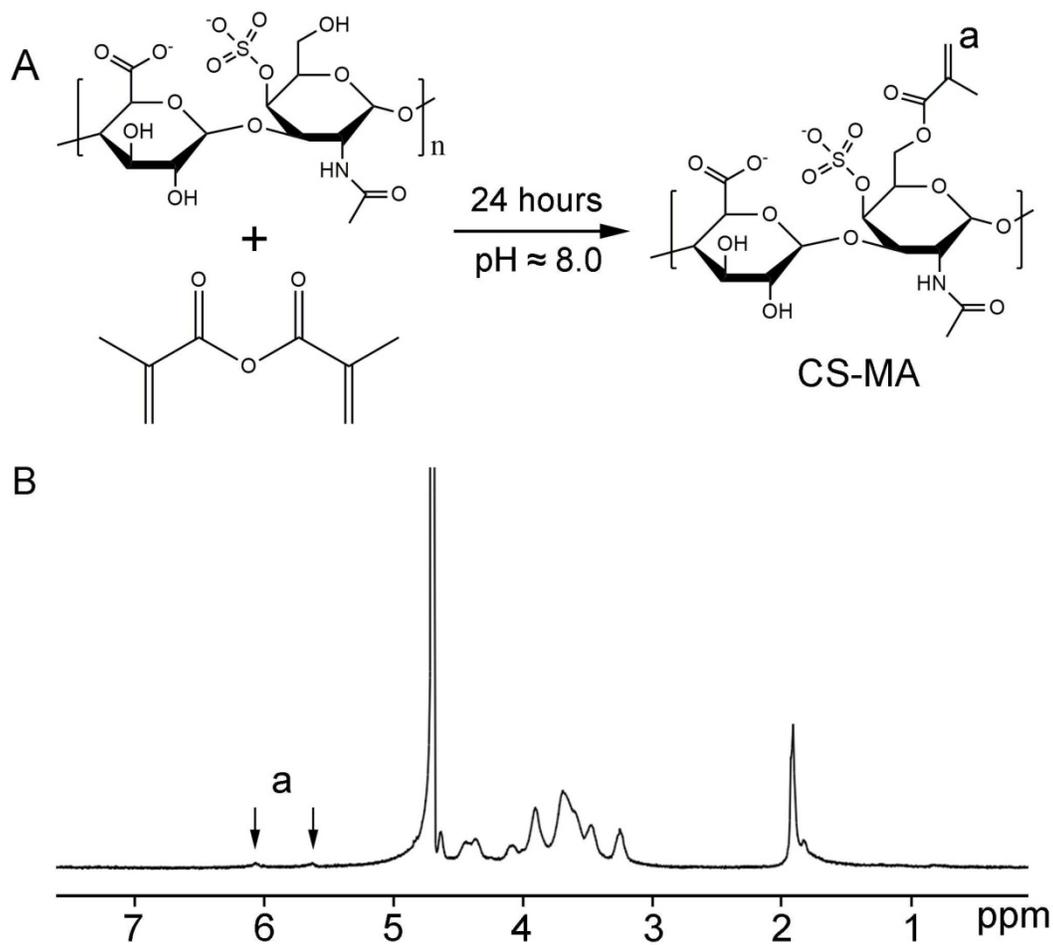


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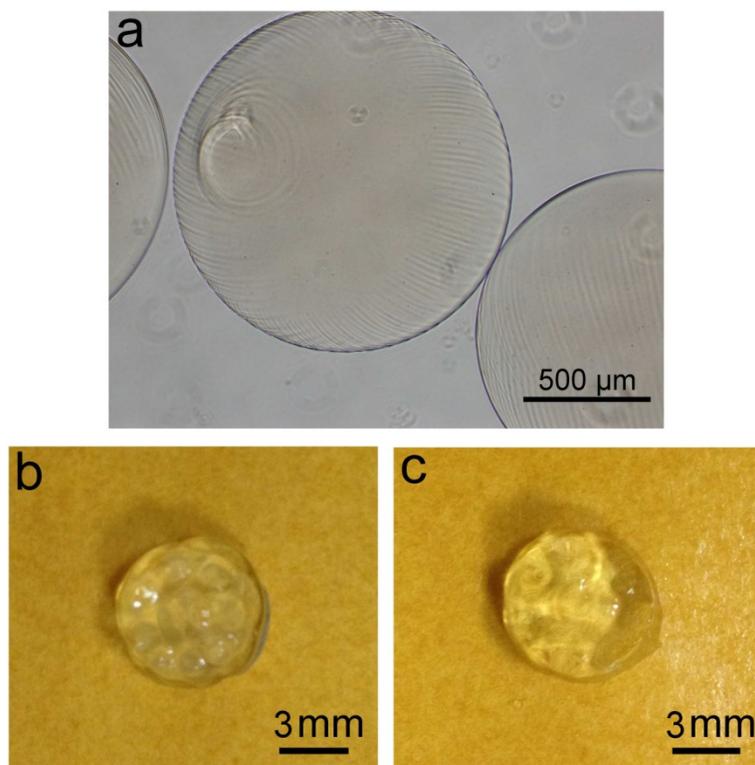


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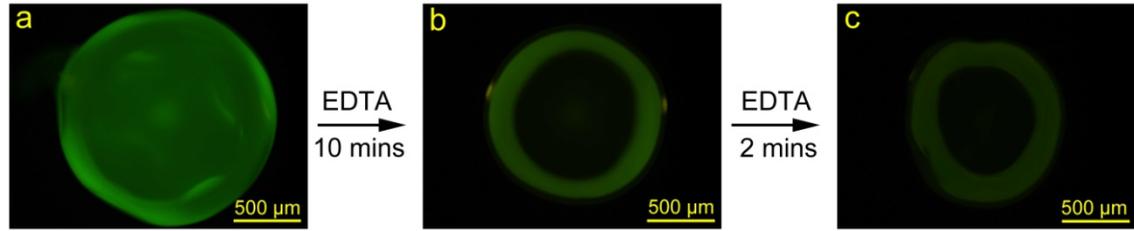


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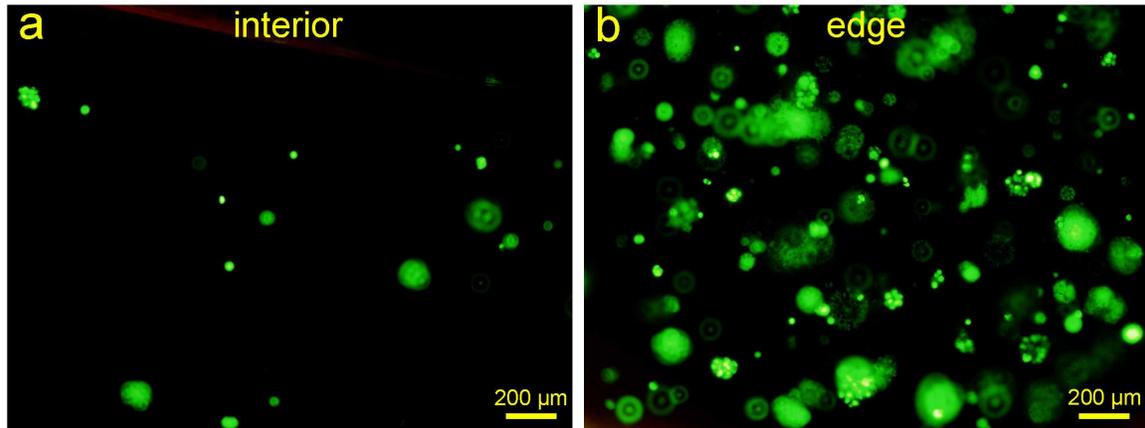


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