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

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

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

\textbf{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.

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