

Comparative Analysis of Tunicate vs. Plant-Based Cellulose in Chitosan Hydrogels for Bone Regeneration

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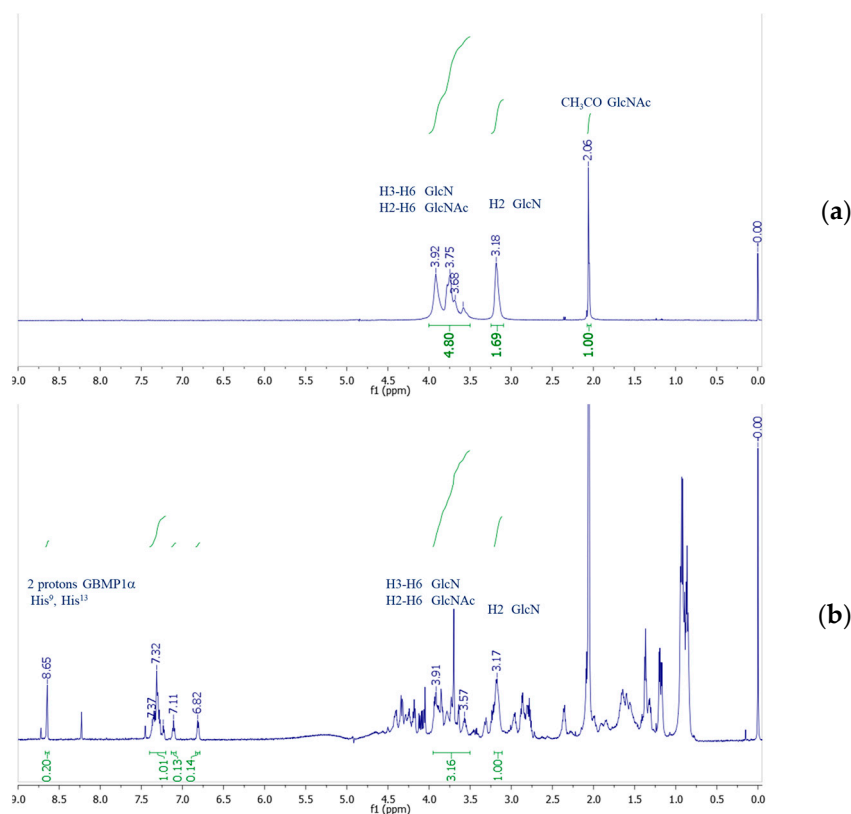
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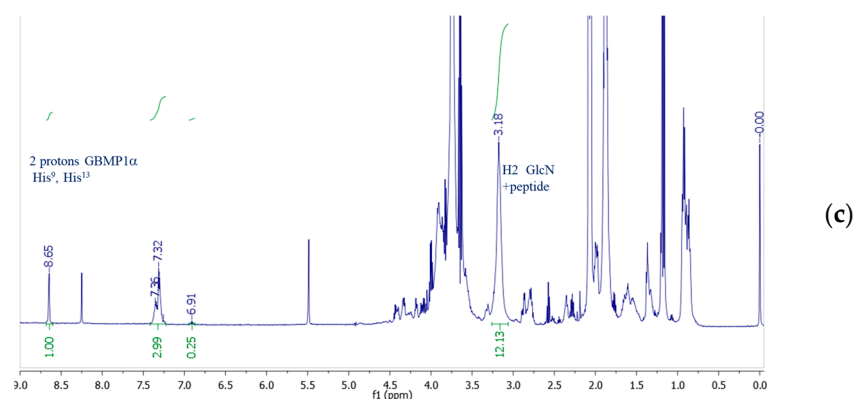


Figure S1. NMR spectra. (a) ^1H spectrum of CS in acidic D_2O (2% HCl) acquired at 298 K and 600 MHz. Chemical shift (ppm) and integral values are reported in blue and green above and below the signals, respectively. (b) ^1H spectra of CS1 in perdeuterated acetic acid 2M in D_2O acquired at 298 K and 700 MHz. Chemical shift (ppm) and integral values are reported in blue and green above and below the signals, respectively. (c) ^1H spectra of CS2 in perdeuterated acetic acid 2M in D_2O acquired at 298 K and 600 MHz. Chemical shift (ppm) and integral values are reported in blue and green above and below the signals, respectively.

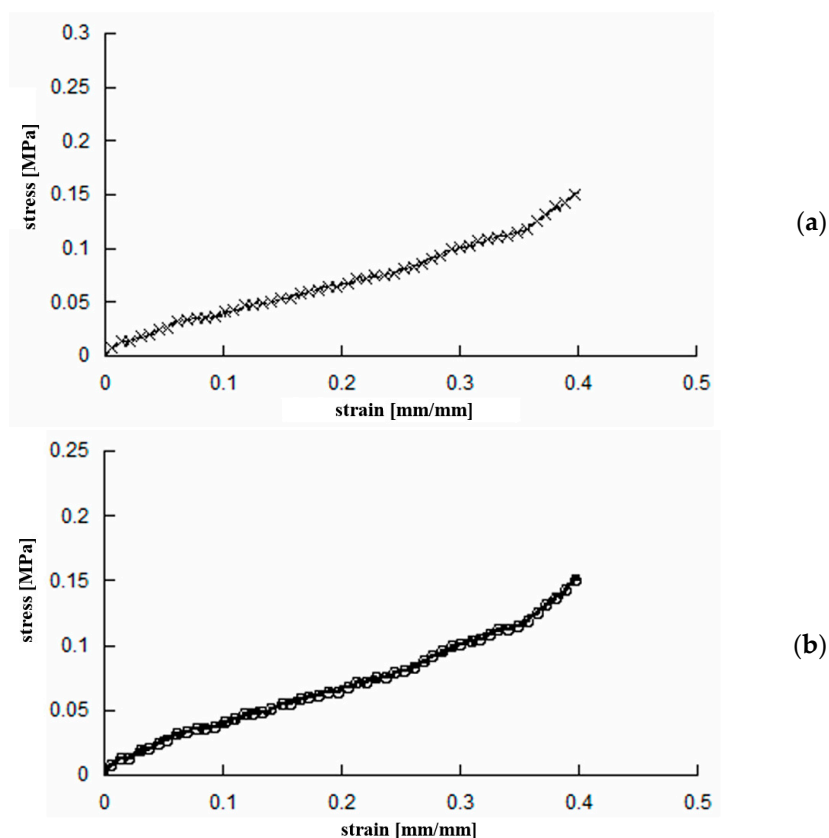


Figure S2. Results from mechanical measurements. (a) A typical stress-strain curve for peptide-grafted chitosan matrices enriched with (a) P-MC and (b) T-NC and their relative control samples.