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Polyurea-Crosslinked Biopolymer Aerogel Beads

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Table of contents

Figure S5. Representative N ₂ -sorption diagrams for native Ca-alginate and X-Ca-alginate aerogels (2% w/w initial	
sodium alginate concentration). Insets: Pore size distributions by the BJH method	7
Figure S6. Representative N2-sorption diagrams for native Ca-alginate and X-Ca-alginate aerogels (1% w/w initial	
sodium alginate concentration). Insets: Pore size distributions by the BJH method.	8

Figure S7. Representative N2-sorption diagrams for native chitosan and X-chitosan aerogels (top: 1% w/w init	ial
chitosan concentration; bottom: 0.5% w/w initial chitosan concentration). Insets: Pore size distributions by the	BJH
method	9
Figure S8. SEM images of native Ca-alginate aerogel beads at three different magnifications	10
Figure S9. SEM images of X-Ca-alginate aerogel beads at three different magnifications.	10
Figure S10. SEM images of native chitosan aerogel beads at two different magnifications	11
Figure S11. SEM images of X-chitosan aerogel beads at three different magnifications.	11



Figure S1. Size distributions of native Ca-alginate and X-Ca-alginate aerogel beads, as indicated (diameters measured with ImageJ; histograms were calculated using IBM SPSS Statistics 24). Mean diameter and sample size (N) are shown on the Figure. "2%" refers to the initial concentration of the sodium alginate solution that was 2% w/w.



Figure S2. Size distributions of native Ca-alginate and X-Ca-alginate aerogel beads, as indicated (diameters measured with ImageJ; histograms were calculated using OriginPro 9.0). Mean diameter and sample size (N) are shown on the Figure. "1%" refers to the initial concentration of the sodium alginate solution that was 1% w/w.



Figure S3. Size distributions of native chitosan and X-chitosan aerogel beads, as indicated (diameters measured with ImageJ; histograms were calculated using OriginPro 9.0). Mean diameter and sample size (N) are shown on the Figure. "1%" and "0.5" refer to the initial concentration of the chitosan solution that was 1% w/w and 0.5% w/w, respectively.



Figure S4. Weight loss with temperature for native Ca-alginate and X-Ca-alginate aerogels (left; 2% w/w initial sodium alginate concentration) and native chitosan and X-chitosan aerogels (right; 0.5% w/w initial chitosan concentration).



Figure S5. Representative N_2 -sorption diagrams for native Ca-alginate and X-Ca-alginate aerogels (2% w/w initial sodium alginate concentration). Insets: Pore size distributions by the BJH method.



Figure S6. Representative N_2 -sorption diagrams for native Ca-alginate and X-Ca-alginate aerogels (1% w/w initial sodium alginate concentration). Insets: Pore size distributions by the BJH method.



Figure S7. Representative N_2 -sorption diagrams for native chitosan and X-chitosan aerogels (top: 1% w/w initial chitosan concentration; bottom: 0.5% w/w initial chitosan concentration). Insets: Pore size distributions by the BJH method.



Figure S8. SEM images of native Ca-alginate aerogel beads at three different magnifications.



Figure S9. SEM images of X-Ca-alginate aerogel beads at three different magnifications.



Figure S10. SEM images of native chitosan aerogel beads at two different magnifications.



Figure S11. SEM images of X-chitosan aerogel beads at three different magnifications.