Shape Fidelity Evaluation of Alginate-Based Hydrogels through Extrusion-Based Bioprinting

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Supplementary Figures:

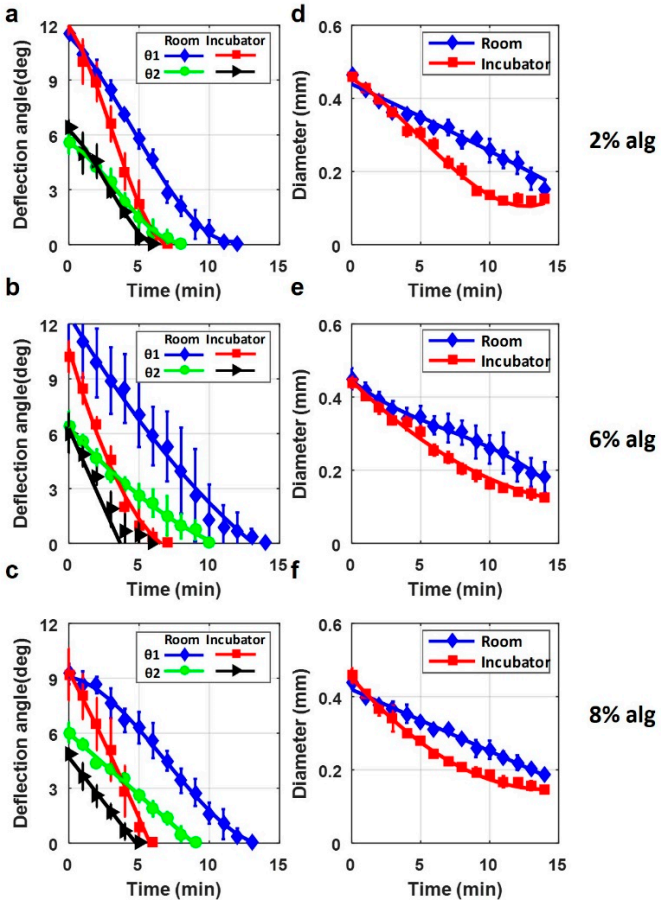

Figure S1. Characterization of filament deformation in room and incubator temperatures. (a-c) A comparison of two deflection angles on the filament in room (24°C) and incubator temperatures (37°C) over time (the experiment continued as long as filaments became straight) (a) for 2% alginate, (b) for 6% alginate, and (c) for 8% alginate (w/v) concentration. (d-f) A comparison on filament diameter changing in room and incubator temperature over time (d) for 2% alginate (e) for 6% alginate, and (f) for 8% alginate (w/v) concentration.

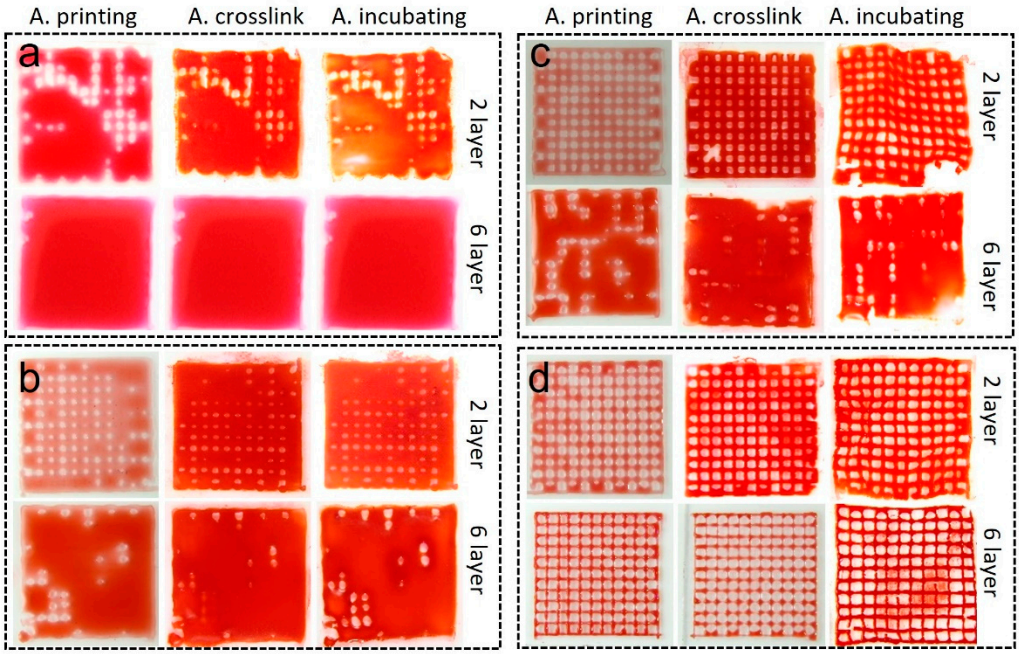

Figure S2. Characterization of print quality and pore area for multiple-layer grid pattern. (a) Images of 2-layer and 6-layer printed pattern for 4A0G bio-ink, (b) for 4A1G, (c) for 4A2G, and (d) for 4A3G. The first column is composed of the images that were taken immediately after printing, the second column represents 3D print outcomes after 2 mins of crosslinking in a calcium bath, and the third column depicts the same patterns after a 2-day incubation.