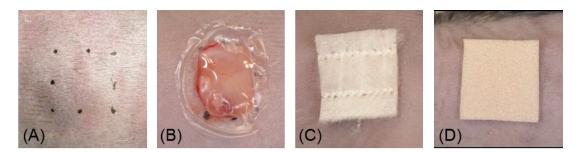
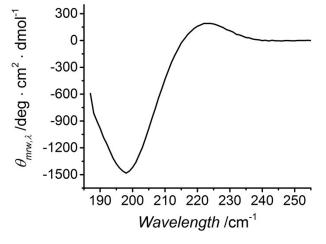
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## **Supporting information**



**Figure S1.** (A-D): digital macrographs taken during in vivo surgery. (A): The mouse dorsum was shaved and incised to create a 10×10 mm wound (A). (B-D): AC hydrogel (B) and two commercial dressings, i.e. Aquacel® (C) and Mepilex® (D), were applied on the top of the wound. Samples were replaced every four days over a 20-d time window.



**Figure S2.** Far-UV CD spectrum of AC solution in 10 mM HCl. 195-200 and 220-225 nm peaks are clearly detected, confirming the presence of collagen polyproline II and triple helices, respectively.