



Fig. S1. Histological characterization of GLU-PP, SAAH-PP, MPCH-PP and DACH-PP samples after subcutaneous implantation for 21 days in SD rats. (A-D) Alizarin red staining. Ca deposition was stained deep red. (E-H) Picrosirius red staining. Collagen fibers were stained red to show the structure integrity.

Supplemental Video Legends:

Supplemental Video 1. Video of GLU-PP sample recovering in PBS after being folded for 10 days.

Supplemental Video 2. Video of SAAH-PP sample recovering in PBS after being folded for 10 days.

Supplemental Video 3. Video of MPCH-PP sample recovering in PBS after being folded for 10 days.

Supplemental Video 4. Video of DACH-PP sample recovering in PBS after being folded for 10 days.