

Electronic Supplementary Information

Poly(γ -glutamic acid) induced homogeneous mineralization of the poly(ethylene glycol)-*co*-2-hydroxyethyl methacrylate cryogel for potential application in bone tissue engineering

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Table S1. Properties of cryogels.

mPGA (%)	Before mineralization			After mineralization		
	Pore diameter (μm)	Wall thickness (μm)	EWC (%)	Pore diameter (μm)	Wall thickness (μm)	EWC (%)
0	48.7 \pm 25.0	10.9 \pm 7.9	95.0 \pm 0.3	43.2 \pm 31.6	15.2 \pm 10.0	93.0 \pm 0.6
0.01	48.8 \pm 28.2	9.4 \pm 5.9	94.4 \pm 0.2	41.1 \pm 35.0	19.3 \pm 11.6	93.3 \pm 0.1
0.1	49.1 \pm 25.7	9.4 \pm 5.5	94.6 \pm 0.4	28.7 \pm 27.7	18.1 \pm 9.2	93.1 \pm 0.2
0.25	51.9 \pm 29.2	9.6 \pm 6.3	93.3 \pm 0.5	35.0 \pm 30.2	15.3 \pm 9.1	92.0 \pm 0.7
0.5	52.9 \pm 32.9	10.8 \pm 6.8	93.3 \pm 0.8	31.8 \pm 29.8	11.9 \pm 7.2	91.7 \pm 0.3

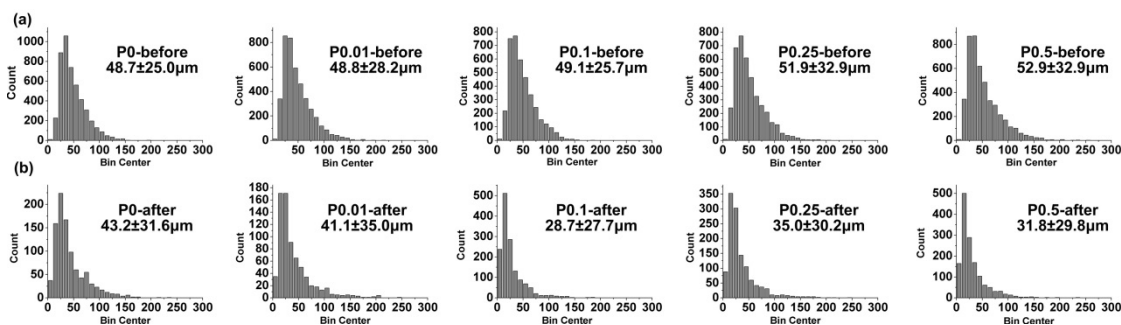


Fig. S1. Pore sizes distribution of cryogels with different concentration of mPGA before (a) and after (b) mineralization.

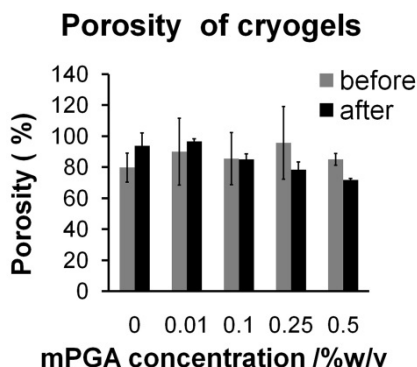


Fig. S2. Porosity of cryogels with different concentration of mPGA before (a) and after (b) mineralization.

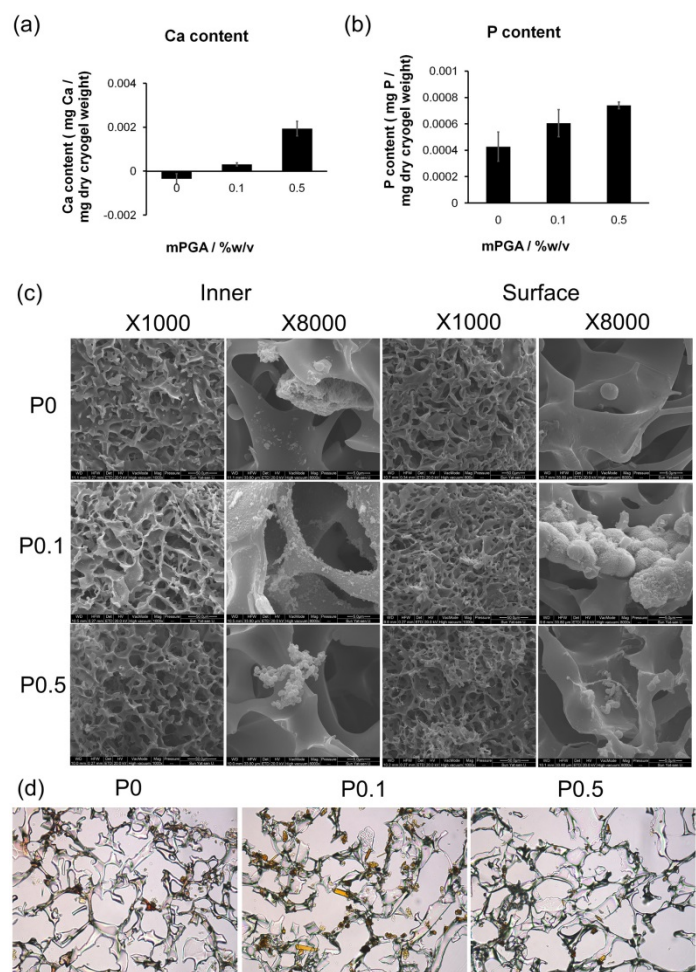


Fig. S3. (a) Ca & (b) P content in the cryogels after mineralization in SBF for 4 weeks. (c) SEM and (d) OM images (stained with alizarin red) of cryogels after mineralization in SBF for 4 weeks.