

Electronic Supplementary Information

Controlled Synthesis of Hydroxyapatite Crystals Templated by Novel Surfactants and their enhanced Bioactivity

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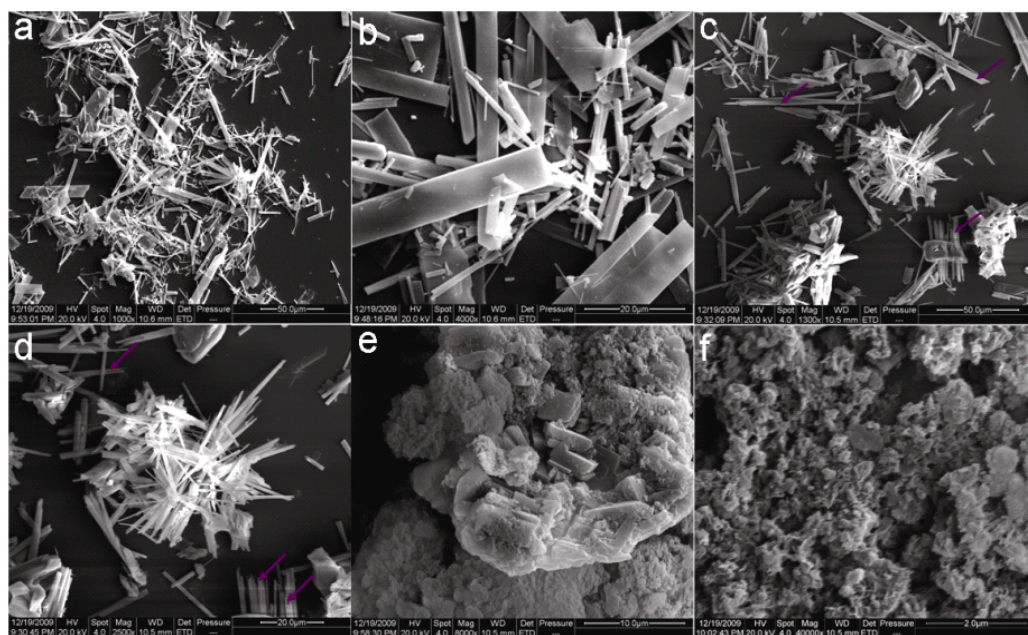


Figure. S1. SEM images of HAP obtained in isopropanol/NIW mixed solvents with different volume ratios. (a, b) pure NIW; (c, d) isopropanol/NIW = 2/1; (e, f) pure isopropanol. Reactions were carried out in the presence of 4-aminobenzenesulfonic acid (0.1 g) and PEG (0.4 g) at 160 °C for 16 h.

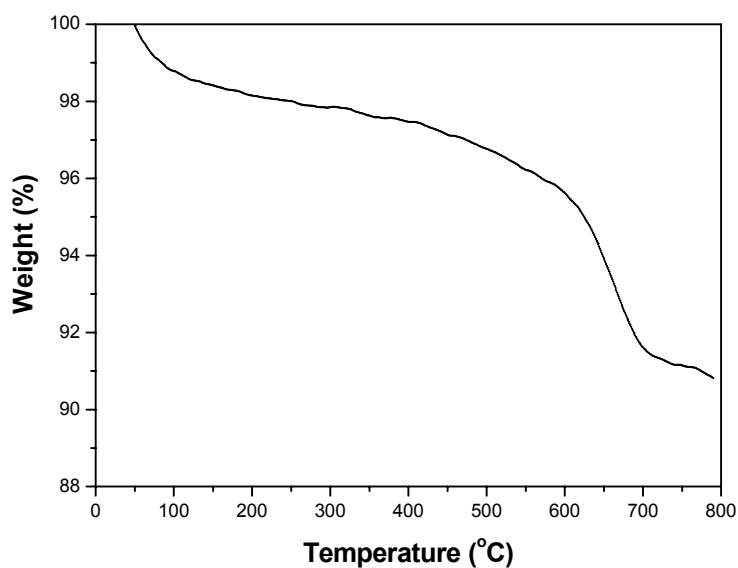


Figure. S2. TGA curve of the HAP samples synthesized in the presence of PEG-4000 (0.1 g) and 4-aminobenzenesulfonic acid (0.4 g) at 160 °C for 16 h.

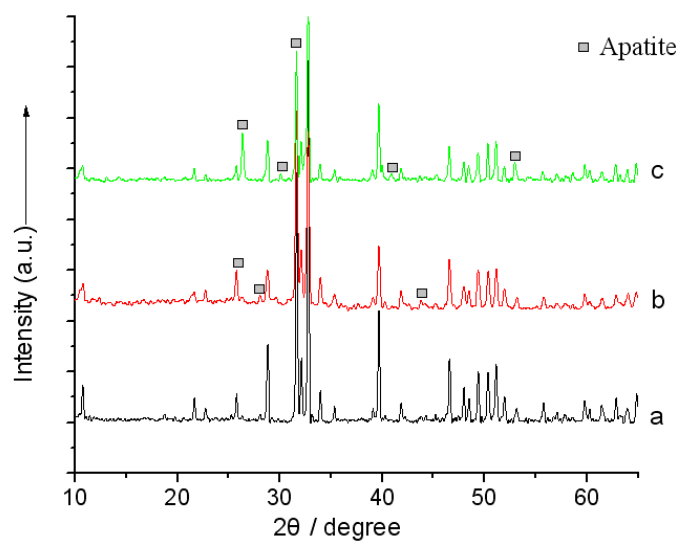


Figure S3. XRD patterns of the obtained HAP samples before (a) and after (b, c) immersing in SBF solution for 3 days at 37 °C. a) PEG-4000/ABSA= 4/1; b) PEG-4000/ABSA= 4/1; c) pure ABSA.

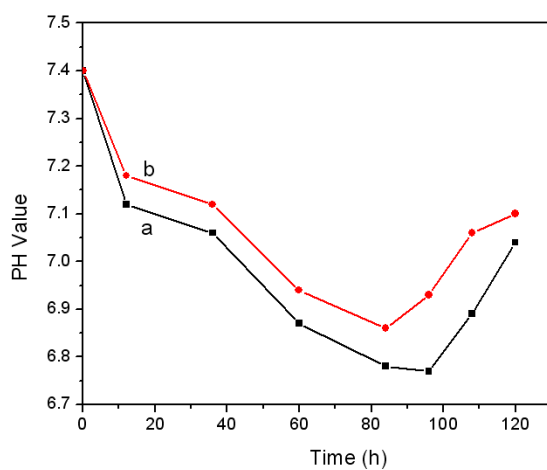


Figure S4. The curves of pH value via varying immersion intervals in SBF at 37 °C. a) PEG-4000/ABSA= 4/1; b) pure ABSA.