Electronic Supplementary Material (ESI) for Journal of Materials Chemistry B. This journal is © The Royal Society of Chemistry 2021

Supplementary information

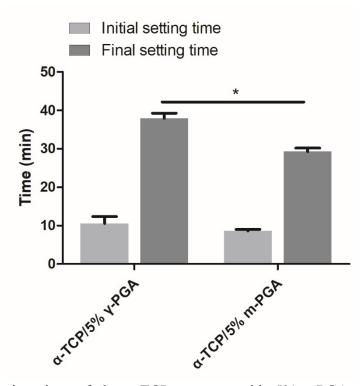


Figure S1. Setting time of the α-TCP cements with 5% γ-PGA or 5% m-PGA solutions (* indicates p<0.05).

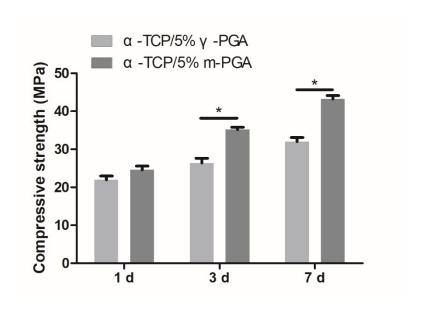


Figure S2. Compressive strength of the α -TCP cements with 5% γ -PGA or 5% m-PGA solutions (* indicates p<0.05).

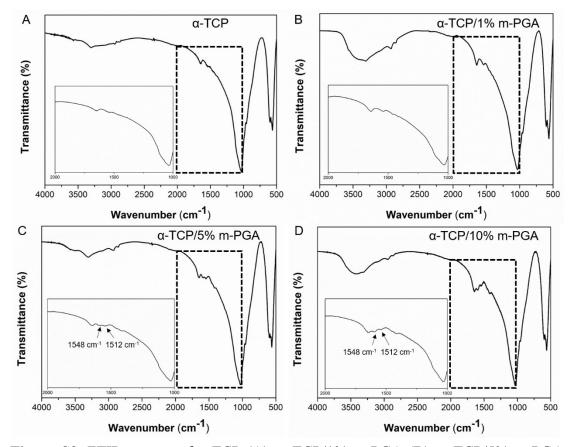


Figure S3. FTIR spectra of α -TCP (A), α -TCP/1% m-PGA (B), α -TCP/5% m-PGA (C) and α -TCP/10% m-PGA (D) cements.

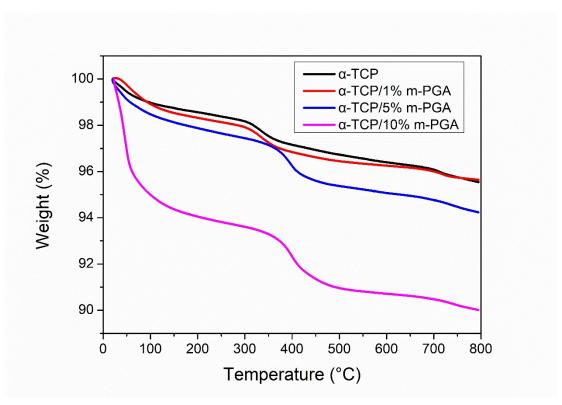


Figure S4. TGA of α -TCP cements with different concentrations of m-PGA solutions.

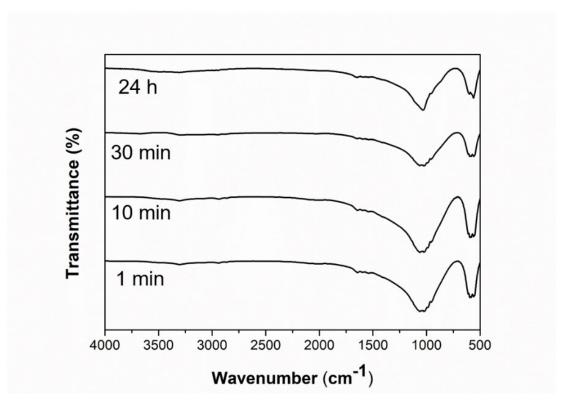


Figure S5. FTIR spectra of α -TCP/5% m-PGA cements after mixing for 1 min, 10 min, 30 min and 24 h.

* Hydroxyapatite

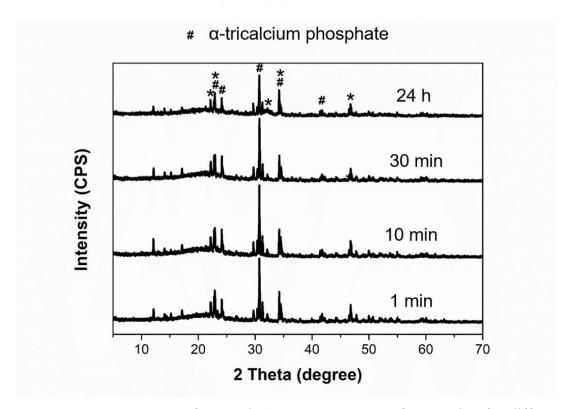


Figure S6. XRD patterns of α -TCP/5% m-PGA cements after reacting for different times.

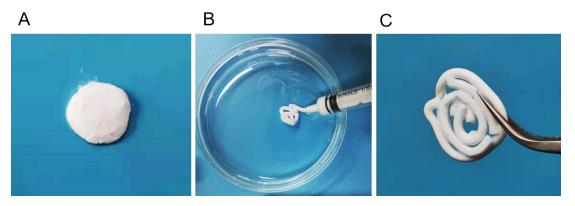


Figure S7. Images of α -TCP/5% m-PGA cements after mixing (A), injection (B) and molding (C).

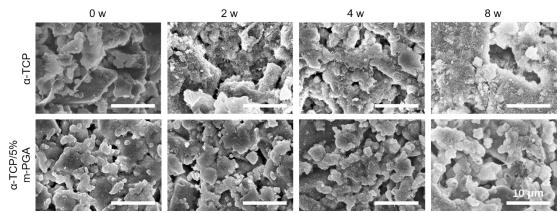


Figure S8. SEM images of α -TCP cements and α -TCP/5% m-PGA cements after soaking for 0, 2, 4 and 8 weeks.