

Supporting Information

**Bioactive Sr(II) loaded chitosan/PCL scaffolds for bone tissue regeneration.
Biphasic scaffolds for the bioactive regeneration of bone tissue**

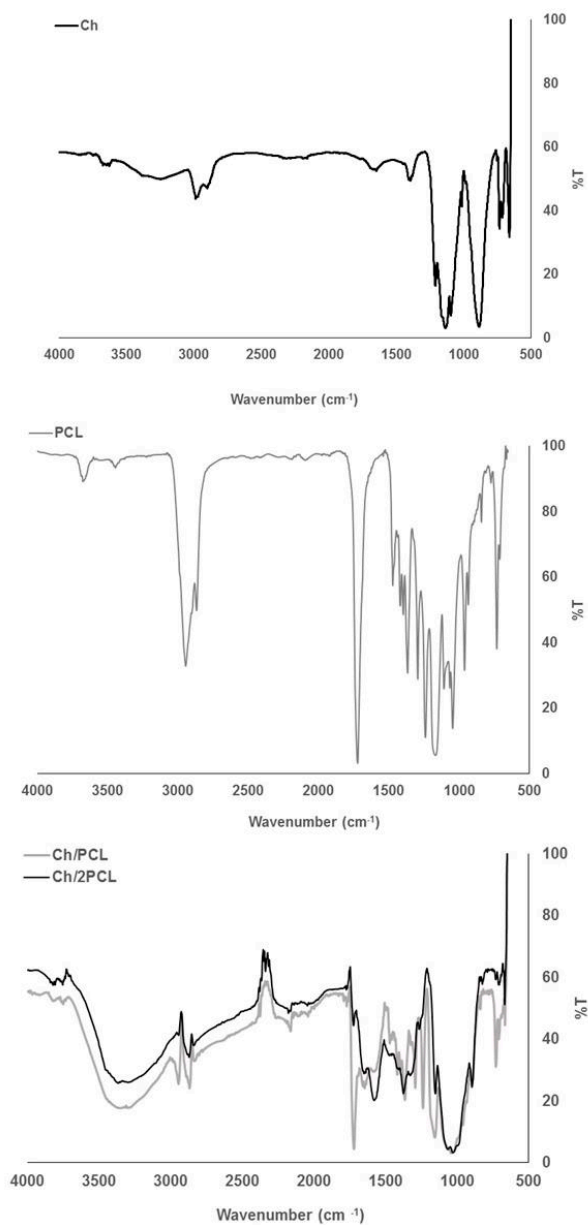


Figure S1. ATR-FTIR spectra of pure Ch and PCL and Ch/2PCL and Ch/PCL membranes. Ch: chitosan; PCL: poly(ε-caprolactone).

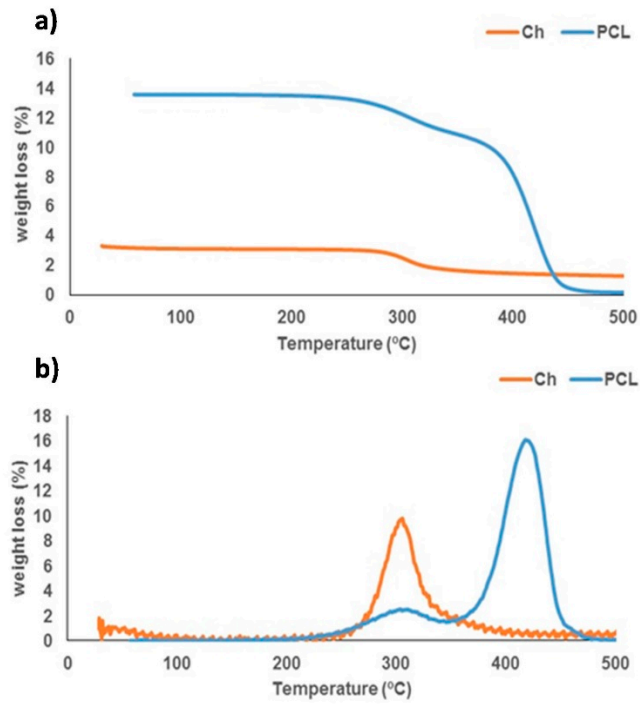


Figure S2. TGA (Termogravimetric analysis) (a) and DTG (Derivative Thermogravimetric analysis). (down) of pure Ch and PCL. Ch: chitosan; PCL: poly(ϵ -caprolactone).

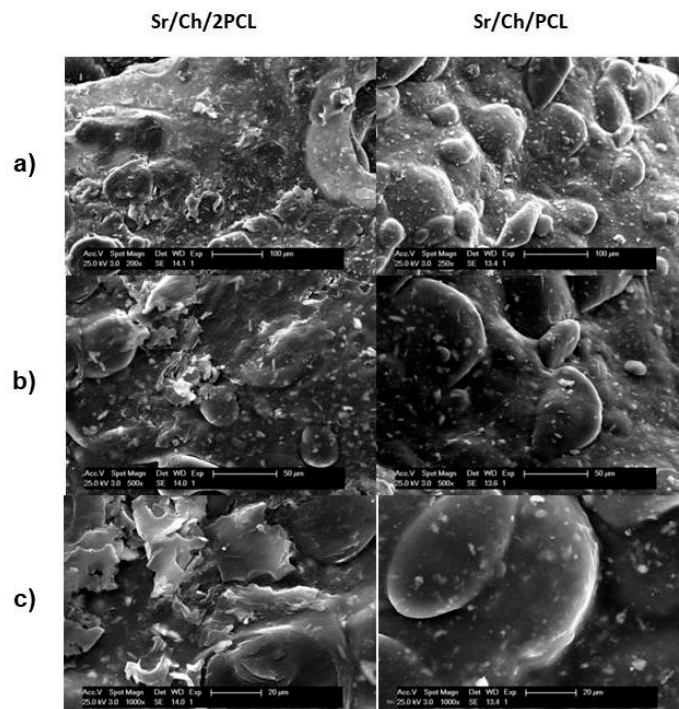


Figure S3. SEM images of Sr(II) membranes after 30 d immersion in PBS buffer at 37 °C. a) 200x; b) 500x; c) 1000x. Ch: chitosan; PCL: poly(ϵ -caprolactone).

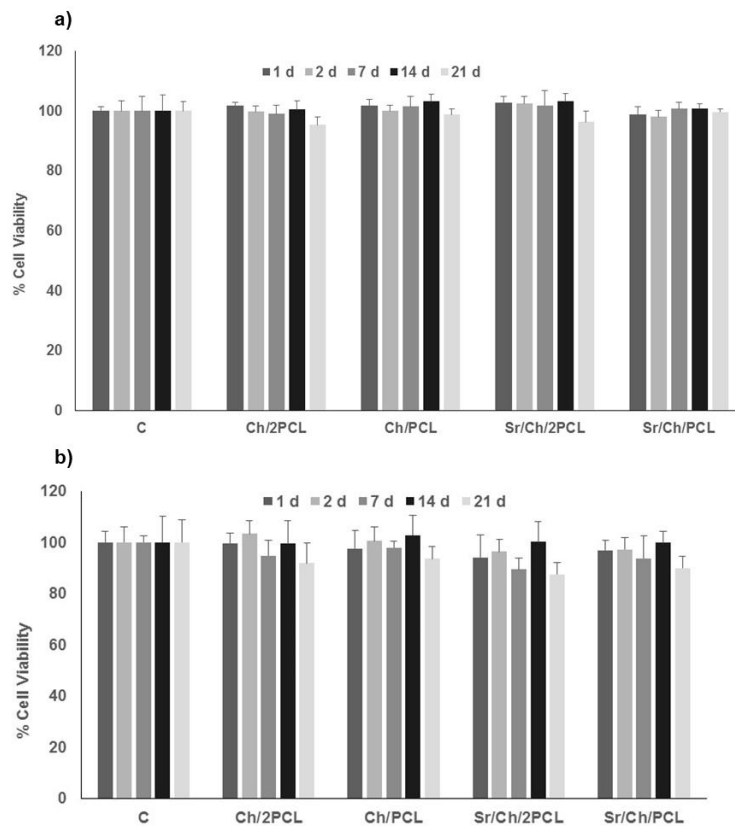


Figure S4. In vitro cytotoxicity results of blank and Sr (II) membranes using MG-63 cells (a) and hBMSCs (b). Results are given as mean \pm sd ($n = 5$). Ch: chitosan; PCL: poly(ϵ -caprolactone).

Table S1. DTG (Derivative Thermogravimetric analysis) results of pure PCL (poly(ϵ -caprolactone), chitosan (Ch), blank and Sr(II) membranes.

Sample	$T_{\max 1}$ ($^{\circ}\text{C}$)	$T_{\max 2}$ ($^{\circ}\text{C}$)
Ch	287	-
PCL	307	419
Ch/2PCL	271	416
Ch/PCL	290	420
Sr/Ch/2PCL	282	410
Sr/Ch/PCL	286	418