Accepted Manuscript


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PII: S0014-3057(18)31087-5
DOI: https://doi.org/10.1016/j.eurpolymj.2018.10.003
Reference: EPJ 8636

To appear in: *European Polymer Journal*

Received Date: 21 June 2018
Revised Date: 24 September 2018
Accepted Date: 4 October 2018

Please cite this article as: Chen, S., Zhao, X., Du, C., Macroporous poly (L-lactic acid)/chitosan nanofibrous scaffolds through cloud point thermally induced phase separation for enhanced bone regeneration, *European Polymer Journal* (2018), doi: https://doi.org/10.1016/j.eurpolymj.2018.10.003

# Macroporous poly (L-lactic acid)/chitosan nanofibrous scaffolds through cloud point thermally induced phase separation for enhanced bone regeneration

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**ABSTRACT**

A new method called cloud point thermally induced phase separation (CP-TIPS) was developed to prepare poly (l-lactic acid) (PLLA) scaffolds with macropores over 300μm in PLLA/dioxane/$H_2O$ ternary system. The concentration of PLLA was 4% (w/v), and the solvent was dioxane with 14% of deionized water. By maintaining the clear solution of the ternary system near and above the cloud point for 2h, followed by a large enough quenching depth (-80℃), the crystallization of the α′-form crystal