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PII: S0141-8130(17)34730-X
DOI: doi:10.1016/j.ijbiomac.2018.02.096
Reference: BIOMAC 9151

To appear in:

Received date: 28 November 2017
Revised date: 4 February 2018
Accepted date: 14 February 2018

Please cite this article as: Karine Modolon Zepon, Morgana Souza Marques, Marcos Marques da Silva Paula, Fernando Dal Pont Morisso, Luiz Alberto Kanis , Facile, green and scalable method to produce carrageenan-based hydrogel containing in situ synthesized AgNPs for application as wound dressing. The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. Biomac(2017), doi:10.1016/j.ijbiomac.2018.02.096

Facile, green and scalable method to produce carrageenan-based hydrogel containing *in situ* synthesized AgNPs for application as wound dressing

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Abstract

This manuscript was focused on introducing a facile, green and scalable method to produce *kappa*-carrageenan (κC) hydrogel membranes containing *in situ* synthesized silver nanoparticles (AgNPs). In a typical protocol, κC hydrogels were obtained by heating (sol phase), followed by cooling (gel phase) the polysaccharide solution, which enabled the simultaneous synthesis of AgNPs during the heating time. The as synthesized AgNPs were