

Accepted Manuscript

Title: The preparation of hyaluronic acid grafted pullulan polymers and their use in the formation of novel biocompatible wound healing film

Authors: Haiying Li, Yuhan Xue, Bei Jia, Yun Bai, Yueyue Zuo, Shugeng Wang, Yanyan Zhao, Wenzhi Yang, Hongbo Tang



PII: S0144-8617(18)30126-7
DOI: <https://doi.org/10.1016/j.carbpol.2018.01.102>
Reference: CARP 13252

To appear in:

Received date: 8-6-2017
Revised date: 22-1-2018
Accepted date: 30-1-2018

Please cite this article as: Li, Haiying., Xue, Yuhan., Jia, Bei., Bai, Yun., Zuo, Yueyue., Wang, Shugeng., Zhao, Yanyan., Yang, Wenzhi., & Tang, Hongbo., The preparation of hyaluronic acid grafted pullulan polymers and their use in the formation of novel biocompatible wound healing film. *Carbohydrate Polymers* <https://doi.org/10.1016/j.carbpol.2018.01.102>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

The preparation of hyaluronic acid grafted pullulan polymers and their use in the formation of novel biocompatible wound healing film

Haiying LI¹, Yuhan XUE¹, Bei JIA¹, Yun BAI¹, Yueyue ZUO¹, Shugeng WANG¹, Yanyan ZHAO¹, Wenzhi YANG^{1,*}, Hongbo TANG^{2,*}

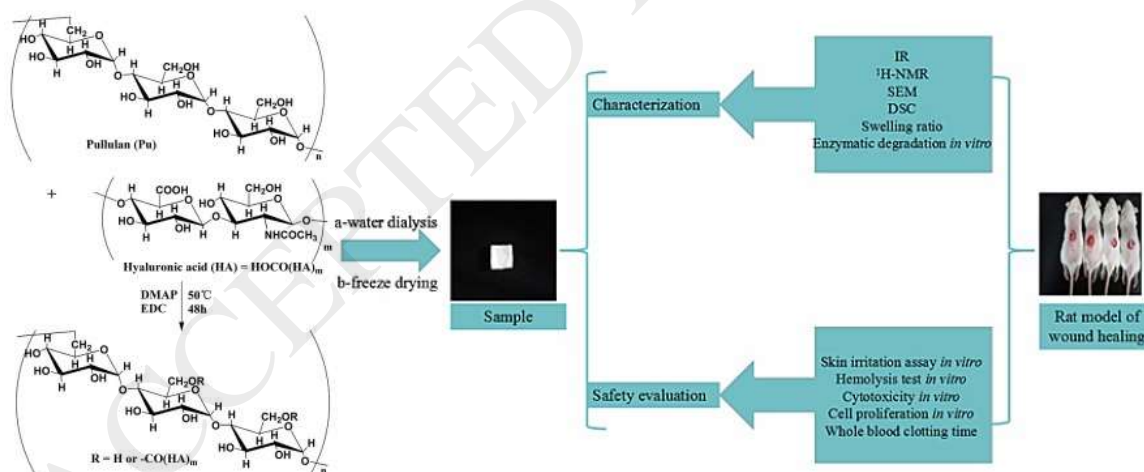
¹College of Pharmacy & Key Laboratory of Pharmaceutical Quality Control of Hebei Province,

Hebei University, Baoding 071002, China

²Department of Pharmacy, Beijing Obstetrics and Gynecology Hospital, Capital Medical University, Beijing 100026, PR China

Highlights

- ▶ A series of hyaluronic acid grafted pullulan (HA-g-Pu) polymers were synthesized and characterized.
- ▶ HA-g-Pu polymers obtained better anti-enzymatic degradation ability *in vitro*.
- ▶ HA-g-Pu polymers had a good biocompatibility.
- ▶ HA-g-Pu films significantly promoted the wound to heal.



* Corresponding Author: Tel (Fax.): +86 312 5971107.

* Corresponding Author at: Hebei University, 180 East Wusi Road, Baoding, Hebei Province, 071002, PR China or Beijing Obstetrics and Gynecology Hospital, Capital Medical University, Beijing 100026, PR China

E-mail addresses: wenzhi_yang@sina.com (W. YANG) or thongbo@126.com (H. TANG).

Download English Version:

<https://daneshyari.com/en/article/7783306>

Download Persian Version:

<https://daneshyari.com/article/7783306>

[Daneshyari.com](https://daneshyari.com)