

Accepted Manuscript

Title: Polyelectrolyte-complex multilayer membrane with gradient porous structure based on natural polymers for wound care

Authors: Wenwen Sun, Guangkai Chen, Fahe Wang, Yimin Qin, Zai Wang, Jun Nie, Guiping Ma



PII: S0144-8617(17)31224-9
DOI: <https://doi.org/10.1016/j.carbpol.2017.10.068>
Reference: CARP 12917

To appear in:

Received date: 13-8-2017
Revised date: 12-10-2017
Accepted date: 20-10-2017

Please cite this article as: Sun, Wenwen., Chen, Guangkai., Wang, Fahe., Qin, Yimin., Wang, Zai., Nie, Jun., & Ma, Guiping., Polyelectrolyte-complex multilayer membrane with gradient porous structure based on natural polymers for wound care. *Carbohydrate Polymers* <https://doi.org/10.1016/j.carbpol.2017.10.068>

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.

Polyelectrolyte-complex multilayer membrane with gradient porous structure based on natural polymers for wound care

Wenwen Sun^{a, b}, Guangkai Chen^b, Fahe Wang^d, Yimin Qin^d, Zai Wang^{*.c}, Jun Nie^b,
Guiping Ma^{*.b}

^a School of Material Science and Engineering, Changzhou University, Changzhou, Jiangsu 213164, P.R. China.

^b Beijing Laboratory of Biomedical Materials, Beijing University of Chemical Technology, Beijing 100029, China.

^c Institute of Clinical Medical Sciences, China-Japan Friendship Hospital, Beijing, 100029, P.R. China.

^d State Key Laboratory of Bioactive Seaweed Substances, Qingdao Brightmoon Seaweed Group Co Ltd, Qingdao, 266400, P.R. China.

Corresponding Author

Tel(Fax):+86-01064421310

magp@mail.buct.edu.cn

wzai_163pass@163.com

Highlights

- **Polyelectrolyte-complex multilayer membrane was prepared via freeze-drying method.**
- **The gradient porous structure in PCMM was verified.**
- **The different layer number of PCMMs were evaluated.**
- **Alginate on both sides chitosan shows superior performances for wound care.**

Download English Version:

<https://daneshyari.com/en/article/7784454>

Download Persian Version:

<https://daneshyari.com/article/7784454>

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