

Accepted Manuscript

Title: Dehydration of an ethanol/water azeotrope through alginate-DNA membranes cross-linked with metal ions by pervaporation

Author: Tadashi Uragami Masashi Banno Takashi Miyata



PII: S0144-8617(15)00683-9
DOI: <http://dx.doi.org/doi:10.1016/j.carbpol.2015.07.054>
Reference: CARP 10156

To appear in:

Received date: 22-4-2015
Revised date: 25-6-2015
Accepted date: 15-7-2015

Please cite this article as: Uragami, Tadashi., Banno, Masashi., & Miyata, Takashi., Dehydration of an ethanol/water azeotrope through alginate-DNA membranes cross-linked with metal ions by pervaporation. *Carbohydrate Polymers* <http://dx.doi.org/10.1016/j.carbpol.2015.07.054>

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Dehydration of an ethanol/water azeotrope through alginate-DNA membranes cross-linked with metal ions by pervaporation

Tadashi Uragami^{*,1,2}, Masashi Banno¹, Takashi Miyata^{1,2}

¹Department of Chemistry and Materials Engineering, ²Organization for Research and Development of Innovative Science and Technology, Kansai University, Suita, Osaka 564-8680, Japan

*Corresponding author. Tel.: +81-6-6368-1121; fax: +81-6-6368-0080.

E-mail address: v701489@kansai-u.ac.jp (T. Uragami)

Highlights

- ▶ • DNA-Alg/M²⁺ cross-linked membranes showed excellent water-permselectivity.
- ▶ • Selectivity of DNA-Alg/Mg²⁺ membrane was higher than that of DNA-Alg/Ca²⁺ membrane.
- ▶ • Sorption selectivity of those membranes was greater than diffusion selectivity.

ABSTRACT

To obtain high dehydration membranes for an ethanol/water azeotrope, dried blend

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