

Accepted Manuscript

Title: Biodegradable blend membranes of poly (butylene succinate)/cellulose acetate/dextran: preparation, characterization and performance

Authors: Ali Hoseinzadeh Bahremand, Seyed Mahmoud Mousavi, Ali Ahmadpour, Mostafa Taherian



PII: S0144-8617(17)30647-1
DOI: <http://dx.doi.org/doi:10.1016/j.carbpol.2017.06.010>
Reference: CARP 12398

To appear in:

Received date: 2-3-2017
Revised date: 25-5-2017
Accepted date: 3-6-2017

Please cite this article as: Bahremand, Ali Hoseinzadeh., Mousavi, Seyed Mahmoud., Ahmadpour, Ali., & Taherian, Mostafa., Biodegradable blend membranes of poly (butylene succinate)/cellulose acetate/dextran: preparation, characterization and performance. *Carbohydrate Polymers* <http://dx.doi.org/10.1016/j.carbpol.2017.06.010>

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.

Biodegradable blend membranes of poly (butylene succinate)/cellulose acetate/dextran: preparation, characterization and performance

Ali Hoseinzadeh Bahremand, Seyed Mahmoud Mousavi*, Ali Ahmadpour, Mostafa Taherian

Chemical Engineering Department, Faculty of Engineering, Ferdowsi University of Mashhad,
Mashhad, Iran

*Corresponding author: Tel./Fax: +98 51 38816840, E-mail: mmousavi@um.ac.ir

Highlights

- The PBS/CA/DEX membrane was introduced as a novel biodegradable blend membrane.
- The membranes were prepared by immersion precipitation technique.
- The effect of DEX on characteristics and performance of the membrane was evaluated.
- The hydrophilicity and antifouling property were remarkably improved by adding DEX.
- The membranes showed enhanced porosity, biodegradability, and PWF.

Download English Version:

<https://daneshyari.com/en/article/5157427>

Download Persian Version:

<https://daneshyari.com/article/5157427>

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