



Journal

International Journal of Polymeric Materials and Polymeric Biomaterials >

Volume 63, 2014 - Issue 2

Submit an article

Journal homepage

Enter keywords, authors, DOI etc.

91

Views

4


CrossRef citations

0

Altmetric

Original Articles

Preparation and Characterization of Modified Nylon 66 Membrane for Blood Purification

M. Shakaib  Iqbal Ahmad, Rosli M. Yunus & M. Z. Noor

Pages 80-85 | Received 14 Oct 2012, Accepted 19 Jan 2013, Accepted author version posted online: 14 Jun 2013, Published online: 14 Jun 2013

 Download citation  <https://doi.org/10.1080/00914037.2013.769251> Check for updates Full Article Figures & data References Citations Metrics Reprints & Permissions

Get access

Abstract

Membranes were synthesized using polyamide (nylon 66) and monosodium glutamate (MSG) additive. The membranes with higher concentration of MSG additive were found to be thermally more stable and of porous structure. Due to porous structure, the permeation rate of impurities in blood through the membrane was increased. The effect of coagulant liquid temperature was also investigated and it was shown that increasing/decreasing the temperature does not significantly affect the performance of the polyamide-MSG membrane.

Keywords: Dialysis, diffusive permeability, monosodium glutamate, nylon 66, thermal