

Accepted Manuscript

Title: Surface and swelling properties of mucoadhesive blends and their ability to release fluconazole in a mucin environment

Authors: A. Bartkowiak, M. Rojewska, K. Hyla, J. Zembrzuska, K. Prochaska



PII: S0927-7765(18)30625-8
DOI: <https://doi.org/10.1016/j.colsurfb.2018.09.014>
Reference: COLSUB 9616

To appear in: *Colloids and Surfaces B: Biointerfaces*

Received date: 2-6-2018
Revised date: 27-8-2018
Accepted date: 5-9-2018

Please cite this article as: Bartkowiak A, Rojewska M, Hyla K, Zembrzuska J, Prochaska K, Surface and swelling properties of mucoadhesive blends and their ability to release fluconazole in a mucin environment, *Colloids and Surfaces B: Biointerfaces* (2018), <https://doi.org/10.1016/j.colsurfb.2018.09.014>

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.

Statistical summary of the article

1. total number of words : 5763 (with references)
2. total number of tables: 1
3. total number of figures: 7

Surface and swelling properties of mucoadhesive blends and their ability to release fluconazole in a mucin environment

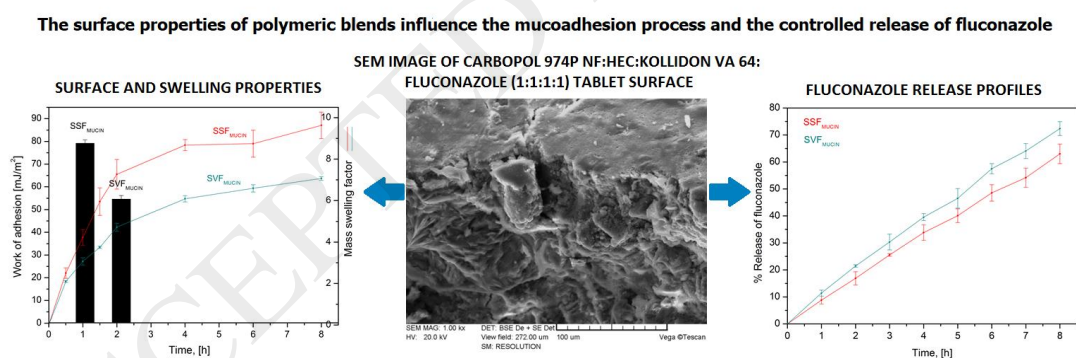
A.Bartkowiak¹, M. Rojewska¹, K. Hyla², J. Zembruska¹, K. Prochaska^{1*}

¹ – Poznan University of Technology, Department of Chemical Technology, Berdychowo 4, 60-965 Poznan, Poland

² – Poznan University of Medical Sciences, Department of Pharmaceutical Technology, Grunwaldzka 6, 60-780 Poznan, Poland

*e-mail: krystyna.prochaska@put.poznan.pl

Graphical abstract



Highlights

- The mucoadhesion process depends on the surface properties of mucoadhesive polymers and their blends.
- The surface free energy determined using the van Oss-Chaudhury-Good model.
- Multicomponent blends as potential matrices in oral and vaginal mucoadhesive drug delivery systems.
- The profile and kinetics of drug release depend on the composition of mucoadhesive polymeric carriers.

Download English Version:

<https://daneshyari.com/en/article/9952509>

Download Persian Version:

<https://daneshyari.com/article/9952509>

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