Accepted Manuscript

Title: Mathematical modeling of gallic acid release from chitosan films with grape seed extract and carvacrol

Authors: Javiera F. Rubilar, Rui M.S. Cruz, Rommy N. Zuñiga, Igor Khmelinskii, Margarida C. Vieira

PII: S0141-8130(16)33091-4

DOI: http://dx.doi.org/doi:10.1016/j.ijbiomac.2017.05.187

Reference: BIOMAC 7676

To appear in: International Journal of Biological Macromolecules

Received date: 31-12-2016 Revised date: 22-5-2017 Accepted date: 30-5-2017

Please cite this article as: Javiera F.Rubilar, Rui M.S.Cruz, Rommy N.Zuñiga, Igor Khmelinskii, Margarida C.Vieira, Mathematical modeling of gallic acid release from chitosan films with grape seed extract and carvacrol, International Journal of Biological Macromoleculeshttp://dx.doi.org/10.1016/j.ijbiomac.2017.05.187

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.



ACCEPTED MANUSCRIPT

Mathematical modeling of gallic acid release from chitosan films with grape seed extract and carvacrol

Javiera F. Rubilar^{1*}, Rui M. S. Cruz^{2,3,4}, Rommy N. Zuñiga⁵, Igor Khmelinskii^{4,6} and Margarida C. Vieira^{2,3}

Department of Chemical and Bioprocesses Engineering, Pontificia Universidad Católica de Chile, Avenida Vicuña Mackenna 4860, Macul, Santiago, Chile.

Tel: +56-2-23541269 Fax: +56-2-23545803

*Corresponding author:

E-mail: jrubilar@ing.puc.cl (J.F. Rubilar)

Submitted for publication to *International Journal of Biological Macromolecules*

¹Department of Chemical and Bioprocesses Engineering, Pontificia Universidad Católica de Chile, Avenida Vicuña Mackenna 4860, Macul, Santiago, Chile.

²Department of Food Engineering, Institute of Engineering, University of Algarve, Campus da Penha, 8005-139 Faro, Portugal. E-mail addresses: rcruz@ualg.pt and mvieira@ualg.pt

³MeditBio-Centre for Mediterranean Bioresources and Food, Faculty of Sciences and Technology, University of Algarve, Campus de Gambelas, 8005-139 Faro, Portugal.

⁴CIQA-Chemistry Research Centre of Algarve, Faculty of Sciences and Technology, University of Algarve, Campus de Gambelas, 8005-139 Faro, Portugal.

⁵Department of Biotechnology, Universidad Tecnológica Metropolitana, Las Palmeras 3360, Ñuñoa, Santiago, Chile.

⁶Departament of Chemistry and Pharmacy, Faculty of Sciences and Technology, University of Algarve, Campus de Gambelas, 8005-139 Faro, Portugal. E-mail address: ikhmelin@ualg.pt.

Download English Version:

https://daneshyari.com/en/article/5511639

Download Persian Version:

https://daneshyari.com/article/5511639

<u>Daneshyari.com</u>