Accepted Manuscript

Title: Comparison of microparticles produced with combinations of gelatin, chitosan and gum Arabic

Authors: Nathalia D. Gonçalves, Carlos R.F. Grosso, Renata

S. Rabelo, Miriam D. Hubinger, Ana S. Prata

PII: S0144-8617(18)30557-5

DOI: https://doi.org/10.1016/j.carbpol.2018.05.027

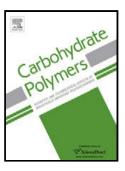
Reference: CARP 13608

To appear in:

Received date: 3-11-2017 Revised date: 22-4-2018 Accepted date: 8-5-2018

Please cite this article as: Gonçalves, Nathalia D., Grosso, Carlos RF., Rabelo, Renata S., Hubinger, Miriam D., & Prata, Ana S., Comparison of microparticles produced with combinations of gelatin, chitosan and gum Arabic. *Carbohydrate Polymers* https://doi.org/10.1016/j.carbpol.2018.05.027

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.



Comparison of microparticles produced with combinations of gelatin, chitosan

and gum Arabic

Nathalia D Gonçalves^{1*}, Carlos R. F. Grosso², Renata S. Rabelo³, Miriam D. Hubinger³, Ana S

Prata³

¹ School of Applied Sciences, Unicamp, Limeira, Brazil

² Federal Technological University, UTFPR, Londrina, Brazil

³ School of Food Engineering, Unicamp, Campinas, Brazil

*Corresponding author: ndg_nathydias@hotmail.com + 00 55 19 3521 0069

E-mail addresses

Carlos Raimundo Ferreira Grosso: grosso@fea.unicamp.br

Renata Santos Rabelo: rerabelo.eng@gmail.com

Miriam Dupas Hubinger: mhub@fea.unicamp.br

Ana Silvia Prata: asprata@unicamp.br

Highlights

Complex coacervation with three polymers was explored

High charge density of chitosan impacts complexation of gelatin and gum Arabic

Oil distribution in the particles depends on the polymer combination

Yield of polymer complexation changes in the presence of the oil

Abstract

The complexation between proteins and/or polysaccharides has been studied during decades and

despite the knowledge of how these interactions occur provides a basis for identifying the

1

Download English Version:

https://daneshyari.com/en/article/7781928

Download Persian Version:

https://daneshyari.com/article/7781928

<u>Daneshyari.com</u>