

## Accepted Manuscript

Title: Polymeric blends of hydrocolloid from chia seeds/apple pectin with potential antioxidant for food packaging applications

Authors: Ingrid Souza Vieira da Silva, Raquel Maria Ferreira de Sousa, Alberto de Oliveira, Welles Junior de Oliveira, Leila Aparecida Castro Motta, Daniel Pasquini, Harumi Otaguro



PII: S0144-8617(18)30976-7  
DOI: <https://doi.org/10.1016/j.carbpol.2018.08.061>  
Reference: CARP 13958

To appear in:

Received date: 28-5-2018  
Revised date: 25-7-2018  
Accepted date: 16-8-2018

Please cite this article as: da Silva ISV, de Sousa RMF, de Oliveira A, de Oliveira WJ, Motta LAC, Pasquini D, Otaguro H, Polymeric blends of hydrocolloid from chia seeds/apple pectin with potential antioxidant for food packaging applications, *Carbohydrate Polymers* (2018), <https://doi.org/10.1016/j.carbpol.2018.08.061>

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.

## **Polymeric blends of hydrocolloid from chia seeds/apple pectin with potential antioxidant for food packaging applications**

Ingrid Souza Vieira da Silva <sup>a</sup>, Raquel Maria Ferreira de Sousa <sup>a</sup>, Alberto de Oliveira <sup>a</sup>, Welles Junior de Oliveira <sup>b</sup>, Leila Aparecida Castro Motta <sup>b</sup>, Daniel Pasquini <sup>a</sup>, Harumi Otaguro <sup>a,\*</sup>

<sup>a</sup> *Instituto de Química, Universidade Federal de Uberlândia, Campus Santa Mônica, Av. João Naves de Ávila, 2121, 38400-902, Uberlândia, Minas Gerais, Brazil*

<sup>b</sup> *Faculdade de Engenharia Civil, Universidade Federal de Uberlândia, Campus Santa Mônica, Av. João Naves de Ávila, 2121, 38400-902, Uberlândia, Minas Gerais, Brazil*

\* Corresponding author. *E-mail address*: harumi.otaguro@ufu.br (H. Otaguro)  
55 34 3291-6341

### **Highlights**

- Additives used directly impact mechanical and thermal properties of films.
- All formulation of blend films had a high antioxidant activity by DPPH method.
- Potential uses as packaging for food products.
- Compatible and miscible blends.
- The best formulations was (36:24:22:18) due to mechanical, antioxidant properties.

Download English Version:

<https://daneshyari.com/en/article/10141240>

Download Persian Version:

<https://daneshyari.com/article/10141240>

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