

## Accepted Manuscript

Title: A synbiotic multiparticulate microcapsule for enhancing inulin intestinal release and Bifidobacterium gastro-intestinal survivability

Authors: Bahgat Fayed, Amira Abood, Hoda S. El-Sayed, Amal M. Hashem, Nayra SH. Mehanna



PII: S0144-8617(18)30332-1  
DOI: <https://doi.org/10.1016/j.carbpol.2018.03.068>  
Reference: CARP 13418

To appear in:

Received date: 17-12-2017  
Revised date: 22-2-2018  
Accepted date: 19-3-2018

Please cite this article as: Fayed, Bahgat., Abood, Amira., El-Sayed, Hoda S., Hashem, Amal M., & Mehanna, Nayra SH., A synbiotic multiparticulate microcapsule for enhancing inulin intestinal release and Bifidobacterium gastro-intestinal survivability. *Carbohydrate Polymers* <https://doi.org/10.1016/j.carbpol.2018.03.068>

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.

## **A synbiotic multiparticulate microcapsule for enhancing inulin intestinal release and Bifidobacterium gastro-intestinal survivability.**

**Bahgat Fayed<sup>a</sup>, Amira Abood<sup>b</sup>, Hoda S. El-Sayed<sup>c</sup>, Amal M. Hashem<sup>d\*</sup>,  
Nayra SH. Mehanna<sup>e</sup>**

<sup>a</sup> Chemistry of natural and microbial product, National research centre, Dokki, Cairo, Egypt.

bahgatfayed1982@yahoo.com

<sup>b</sup> Chemistry of natural and microbial product, National research centre, Dokki, Cairo, Egypt.

dr.amiraabood@yahoo.com

<sup>c</sup> Dairy science department, National research centre, Dokki, Cairo, Egypt.

drhodasamir@yahoo.com

<sup>d</sup> Chemistry of natural and microbial product, National research centre, Dokki, Cairo, Egypt.

Corresponding author: amal\_mhashem@yahoo.com

Tel: 00201022219842

<sup>e</sup> Dairy science department, National research centre, Dokki, Cairo, Egypt.

mehanna2006@hotmail.com

### **HIGHLIGHTS**

- A synbiotic combination were encapsulated into multiparticulate microcapsule.
- Survivability of the encapsulated probiotics in the GIT solution were enhanced.
- Release of the inulin was extended for three days in the GIT solution.

Download English Version:

<https://daneshyari.com/en/article/7782550>

Download Persian Version:

<https://daneshyari.com/article/7782550>

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