Accepted Manuscript

Title: Studies on the binding characteristics of three polysaccharides with different molecular weight and flavonoids from corn silk (Maydis stigma)



Authors: Qingwen Guo, Qiqi Ma, Zihan Xue, Xudong Gao, Haixia Chen

PII: DOI: Reference: S0144-8617(18)30775-6 https://doi.org/10.1016/j.carbpol.2018.06.120 CARP 13794

To appear in:

| Received date: | 16-2-2018 |
|----------------|-----------|
| Revised date: | 17-6-2018 |
| Accepted date: | 28-6-2018 |

Please cite this article as: Guo Q, Ma Q, Xue Z, Gao X, Chen H, Studies on the binding characteristics of three polysaccharides with different molecular weight and flavonoids from corn silk (Maydis stigma), *Carbohydrate Polymers* (2018), https://doi.org/10.1016/j.carbpol.2018.06.120

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

Title:

Studies on the binding characteristics of three polysaccharides with different molecular weight and flavonoids from corn silk (*Maydis stigma*)

Authors:

Qingwen Guo, Qiqi Ma, Zihan Xue, Xudong Gao, Haixia Chen*

Institutional affiliation:

Tianjin Key Laboratory for Modern Drug Delivery & High-Efficiency, School of Pharmaceutical Science and Technology, Tianjin University, Tianjin, 300072, P. R. China

**Correspondence author:*

Haixia Chen

Mailing address: Tianjin Key Laboratory for Modern Drug Delivery & High-Efficiency, School of Pharmaceutical Science and Technology, Tianjin University, Tianjin, 300072, P. R.

China

Telephone: **86-22-27401483**

Fax: 86-22-27892025

E-mail address: chenhx@tju.edu.cn

Highlights

- The interaction between CSP and CSF occurred quickly and spontaneously.
- Van der Waals forces and hydrogen bonds played major roles in the interaction of CSP and CSF.
- The α-amylase and α-glucosidase inhibitory activities of complex were significantly increased after binding.

Download English Version:

https://daneshyari.com/en/article/7781587

Download Persian Version:

https://daneshyari.com/article/7781587

Daneshyari.com