#### Accepted Manuscript

Title: Purification, Chemical Characterization and Antioxidant Activities of Polysaccharides Isolated from *Mycena dendrobii* 

Authors: Xiao-xia Liang, Ying-ying Gao, Yan Pan, Yuan-feng Zou, Min He, Chang-liang He, Li-xia Li, Zhong-qiong Yin, Cheng Lv

PII: S0144-8617(18)31120-2

DOI: https://doi.org/10.1016/j.carbpol.2018.09.046

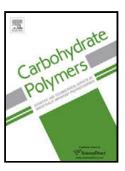
Reference: CARP 14089

To appear in:

Received date: 13-5-2018 Revised date: 1-9-2018 Accepted date: 18-9-2018

Please cite this article as: Liang X-xia, Gao Y-ying, Pan Y, Zou Y-feng, He M, He C-liang, Li L-xia, Yin Z-qiong, Lv C, Purification, Chemical Characterization and Antioxidant Activities of Polysaccharides Isolated from *Mycena dendrobii*, *Carbohydrate Polymers* (2018), https://doi.org/10.1016/j.carbpol.2018.09.046

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

# Purification, Chemical Characterization and Antioxidant Activities of Polysaccharides Isolated from *Mycena dendrobii*

Xiao-xia Liang<sup>a1,\*</sup>, Ying-ying Gao<sup>a1</sup>, Yan Pan<sup>a</sup>, Yuan-feng Zou<sup>a</sup>, Min He<sup>a</sup>, Chang-liang He<sup>a</sup>, Li-xia Li<sup>a</sup>, Zhong-qiong Yin<sup>a</sup>, Cheng Lv<sup>a</sup>

### Highlights

- Two polysaccharides were isolated from the fermentation liquid of M. dendrobii.
- MDP-1 mainly composed of mannose, xylose, and galactose with  $M_w$  of  $6.02 \times 10^5$  Da.
- MDP-2 mainly composed of galacturonic acid, galactose and rhamnose with  $M_w$  of 1.70  $\times$  10<sup>6</sup> Da.
- MDPs could effectively scavenge superoxide, hydroxyl and DPPH radicals.
- MDP-2 performed noticeable antioxidant activities.

<sup>&</sup>lt;sup>a</sup> Natural Medicine Research Center, College of veterinary medicine, Sichuan Agricultural University, Chengdu 611130, P. R. China;

<sup>&</sup>lt;sup>1</sup> These two authors contributed equally to this work.

<sup>\*</sup> Correspondence: liangxiaoxial@sicau.edu.cn

#### Download English Version:

## https://daneshyari.com/en/article/10154861

Download Persian Version:

https://daneshyari.com/article/10154861

<u>Daneshyari.com</u>