

Accepted Manuscript

Title: Characterization, antioxidant and antiinflammation of mycelia selenium polysaccharides from *Hypsizygus marmoreus* SK-03

Authors: Min Liu, Wangjinsong Yao, Yongfa Zhu, Hui Liu, Jianjun Zhang, Le Jia



PII: S0144-8617(18)31008-7
DOI: <https://doi.org/10.1016/j.carbpol.2018.08.099>
Reference: CARP 13996

To appear in:

Received date: 13-3-2018
Revised date: 24-7-2018
Accepted date: 24-8-2018

Please cite this article as: Liu M, Yao W, Zhu Y, Liu H, Zhang J, Jia L, Characterization, antioxidant and antiinflammation of mycelia selenium polysaccharides from *Hypsizygus marmoreus* SK-03, *Carbohydrate Polymers* (2018), <https://doi.org/10.1016/j.carbpol.2018.08.099>

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.

Characterization, antioxidant and antiinflammation of mycelia selenium
polysaccharides from *Hypsizygus marmoreus* SK-03

Min Liu^{1, #}, Wangjinsong Yao^{2, #}, Yongfa Zhu¹, Hui Liu¹, Jianjun Zhang¹, Le Jia^{1, *}

¹ College of Life Science, Shandong Agricultural University, Taian, 271018, PR China

² State Key Laboratory of Crop Biology, College of Life Science, Shandong Agricultural
University, Taian, 271018, PR China

Highlights

- Mycelia selenium polysaccharides were obtained by *Hypsizygus marmoreus*.
- The structure characterizations of MSPS were analyzed.
- The antioxidation and antiinflammation of MSPS were investigated.
- Findings indicated that MSPS had potential protective effects on lung.

ABSTRACT

The synergistical action of inflammation response with oxidative stress has been reported to be response for the pathogenesis of lipopolysaccharide (LPS)-induced lung damage. In our present work, the antioxidative and anti-inflammatory efficacies of mycelia selenium polysaccharides (MSPS) from *Hypsizygus marmoreus* SK-03 in LPS-induced lung damaged mice, and its structure characterizations had been evaluated and analyzed. The animal investigations indicated that MSPS markedly ameliorated pulmonary injuries by the regulations of related inflammatory events *via* the observably antioxidant effects at the dose of 800 mg/kg. The characterizations showed that MSPS was a α - and β -configurational semi-crystalline

[#] Equal contributors

^{*} Corresponding author: jjiale_1115@163.com (L. Jia)

Download English Version:

<https://daneshyari.com/en/article/10128077>

Download Persian Version:

<https://daneshyari.com/article/10128077>

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