### Accepted Manuscript

Structural and thermal properties of amylose–fatty acid complexes prepared via high hydrostatic pressure

Zebin Guo, Xiangze Jia, Song Miao, Bingyan Chen, Xu Lu, Baodong Zheng

PII:	S0308-8146(18)30833-1
DOI:	https://doi.org/10.1016/j.foodchem.2018.05.032
Reference:	FOCH 22865
To appear in:	Food Chemistry
Received Date:	10 January 2018
Revised Date:	1 May 2018
Accepted Date:	5 May 2018



Please cite this article as: Guo, Z., Jia, X., Miao, S., Chen, B., Lu, X., Zheng, B., Structural and thermal properties of amylose–fatty acid complexes prepared via high hydrostatic pressure, *Food Chemistry* (2018), doi: https://doi.org/10.1016/j.foodchem.2018.05.032

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

#### Structural and thermal properties of amylose–fatty acid complexes prepared via high hydrostatic pressure

Zebin Guo<sup>a,b,c</sup>, Xiangze Jia<sup>a,b,c</sup>, Song Miao<sup>c,d</sup>, Bingyan Chen<sup>a,b,c</sup>, Xu Lu<sup>a,b,c</sup>, Baodong Zheng<sup>a,b,c\*</sup>

<sup>a</sup>College of Food Science, Fujian Agriculture and Forestry University, Fuzhou, Fujian, P. R. China

<sup>b</sup>Fujian Provincial Key Laboratory of Quality Science and Processing Technology in Special

Starch, Fuzhou, Fujian, P. R. China

<sup>c</sup>China-Ireland International Cooperation Centre for Food Material Science and Structure Design,

Fujian Agriculture and Forestry University, Fuzhou, P. R. China

<sup>d</sup>Teagasc Food Research Centre, Moorepark, Fersmoy, Co. Cork, Ireland

#### \*To whom correspondence should be addressed:

Baodong Zheng

College of Food Science, Fujian Agriculture and Forestry University, Fuzhou, Fujian 350002, P. R.

China

Phone:+86 591 83705076; fax:+86 591 83789348

E-mail: zbdfst@yeah.net

*Abbreviations:* HHP, high hydrostatic pressure; LSA, lotus seed amylose; LSA-C12:0, lotus seed amylose-lauric acid; LSA-C14:0, lotus seed amylose-myristic acid; LSA-C16:0, lotus seed amylose-palmitic acid; RS, resistant starch; WAXD, wide-angle X-ray diffraction; FTIR, Fourier transform infrared spectroscopy; SAXS, small-angle X-ray scattering; DSC, differential scanning calorimetry; NMR, nuclear magnetic resonance spectroscopy.

Download English Version:

# https://daneshyari.com/en/article/7584835

Download Persian Version:

https://daneshyari.com/article/7584835

Daneshyari.com