

Accepted Manuscript

Affinity purification and characterization of zinc chelating peptides from rapeseed protein hydrolysates: Possible contribution of characteristic amino acid residues

Ningning Xie, Jingjing Huang, Bo Li, Jianghua Cheng, Zhuochen Wang, Junfeng Yin, Xiaoming Yan

PII: S0308-8146(14)01592-1
DOI: <http://dx.doi.org/10.1016/j.foodchem.2014.10.030>
Reference: FOCH 16557

To appear in: *Food Chemistry*

Received Date: 20 May 2014
Revised Date: 26 August 2014
Accepted Date: 6 October 2014

Please cite this article as: Xie, N., Huang, J., Li, B., Cheng, J., Wang, Z., Yin, J., Yan, X., Affinity purification and characterization of zinc chelating peptides from rapeseed protein hydrolysates: Possible contribution of characteristic amino acid residues, *Food Chemistry* (2014), doi: <http://dx.doi.org/10.1016/j.foodchem.2014.10.030>

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.



1 Affinity purification and characterization of zinc chelating peptides from rapeseed
2 protein hydrolysates: Possible contribution of characteristic amino acid residues

3

4 Ningning Xie^{a*1}, Jingjing Huang^{a1}, Bo Li^{b,c}, Jianghua Cheng^a, Zhuochen Wang^a,
5 Junfeng Yin^a, Xiaoming Yan^a

6 ^a Institute of Agro-food Science and Technology, Anhui Academy of Agricultural
7 Sciences, Hefei 230031, China

8 ^b College of Food Science and Nutritional Engineering, China Agricultural University,
9 Beijing 100083, China

10 ^c Key Laboratory of Functional Dairy, Ministry of Education, Beijing 100083, China

11 * Corresponding author: Ningning Xie

12 Address: No.40, Nongke South Road, Luyang District, Hefei 230031, China.

13 Tel./fax: +86 055165160923

14 E-mail addresses: ningxie512@gmail.com

15 ¹ These authors contributed equally to this work.

16 **Abbreviations:**

17 MCP, metal-chelating peptides; IMAC, immobilized metal affinity chromatography;

18 RP-HPLC, reversed-phase high-performance liquid chromatography; ESI-MS,

19 electrospray ionization mass spectrometry; RPH, rapeseed protein hydrolysates; ECT,

20 EDTA complexing titration; DCM, dithizone chromometer method; AAS, atomic

21 absorption spectrometry; ICP-AES, inductively coupled plasma atomic emission

22 spectrometry; RPI, rapeseed protein isolates; DH, degree of hydrolysis.

Download English Version:

<https://daneshyari.com/en/article/7593532>

Download Persian Version:

<https://daneshyari.com/article/7593532>

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