

Author's Accepted Manuscript

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Zicong Zeng, Shunjing Luo, Chengmei Liu,
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PII: S2212-4292(17)30260-2
DOI: <https://doi.org/10.1016/j.fbio.2017.10.008>
Reference: FBIO236

To appear in: *Food Bioscience*

Received date: 14 June 2017
Revised date: 10 September 2017
Accepted date: 29 October 2017

Cite this article as: Zicong Zeng, Shunjing Luo, Chengmei Liu, Xiuting Hu, Ersheng Gong and Jinyu Miao, Phenolic retention of brown rice after extrusion with mesophilic α -amylase, *Food Bioscience*, <https://doi.org/10.1016/j.fbio.2017.10.008>

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Phenolic retention of brown rice after extrusion with mesophilic α -amylase

Zicong Zeng, Shunjing Luo, Chengmei Liu*, Xiuting Hu*, Ersheng Gong, Jinyu

Miao

State Key Laboratory of Food Science and Technology, Nanchang University,

Nanchang, Jiangxi, China

*Corresponding Author

State Key Laboratory of Food Science and Technology, Nanchang University, No. 235

Nanjing East Road, Nanchang, 330047, Jiangxi, China

Tel: +86-791-88304983; Fax: +86-791- 88334509

E-mail: liuchengmei@aliyun.com (Chengmei Liu)

xthu@ncu.edu.cn (Xiuting Hu)

Abstract

Based on the results of phenolic retention of brown rice treated by extrusion with thermostable α -amylase (ETA), this work investigated the phenolic retention of brown rice after extrusion with mesophilic α -amylase (EMA). Similarly, EMA significantly increased phenolic retention of brown rice with the increasing enzyme level, and the phenolic retention was positively correlated with reducing sugars. However, brown rice treated by EMA had higher retention rate of free phenolic content, free antioxidant activity, and total identified free phenolic acids than that treated by ETA at different enzyme levels, although the corresponding reducing sugars produced by

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