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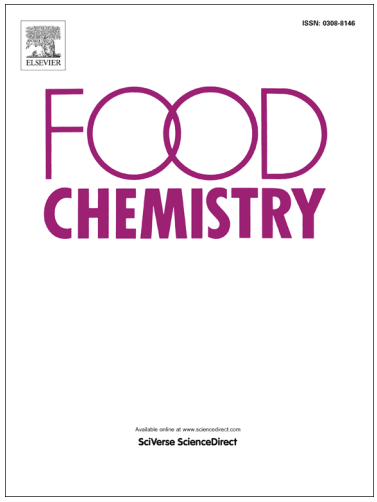

Zein-hyaluronic acid binary complex as a delivery vehicle of Quercetagetin: Fabrication, structural characterization, physicochemical stability and in vitro release property

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Zein-hyaluronic acid binary complex as a delivery vehicle of Quercetagetin: Fabrication, structural characterization, physicochemical stability and in vitro release property

Shuai Chen, Yahong Han, Yingqi Wang, Xi Yang, Cuixia Sun, Like Mao, Yanxiang Gao*

Beijing Advanced Innovation Center for Food Nutrition and Human Health, Beijing Laboratory for Food Quality and Safety, Beijing Key Laboratory of Functional Food from Plant Resources, College of Food Science & Nutritional Engineering, China Agricultural University, 100083, China

*Corresponding author.

Tel.: + 86-10-62737034

Fax: + 86-10-62737986

Address: Box 112, No.17 Qinghua East Road, Haidian District, Beijing 100083, China

E-mail: gyxcau@126.com**Abstract**

The antisolvent coprecipitation method was utilized for fabricating the zein and hyaluronic acid complex at different mass ratios (100:5, 100:10, 100:15, 100:20, 100:25 and 100:30). Results showed that negatively charged zein-hyaluronic acid complex with small size (181.5 nm) was formed through the driving force of electrostatic attraction, followed by hydrogen bonding and hydrophobic effects. The incorporation of hyaluronic acid led to conformational change of zein, and improved