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Astaxanthin from *Phaffia rhodozyma*: Microencapsulation with carboxymethyl cellulose sodium and microcrystalline cellulose and effects of microencapsulated astaxanthin on yogurt properties

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1 Astaxanthin from Phaffia rhodozyma: 2 microencapsulation with carboxymethyl cellulose sodium and microcrystalline cellulose and 3 effects of microencapsulated astaxanthin on yogurt properties 4 Zhao-Zhao Feng <sup>a</sup>, Ming-Yuan Li <sup>b, c</sup>, Yu-Tao Wang <sup>b, c</sup>, Ming-Jun Zhu <sup>\*a, b, c</sup> <sup>a</sup> School of Biology and Biological Engineering, South China University of Technology, 5 Guangzhou Higher Education Mega Center, Panyu, Guangzhou 510006, People's Republic of 6 7 China <sup>b</sup> College of Life and Geographic Sciences, Kashgar University, Kashgar 844000, China 8 <sup>c</sup> The Key Laboratory of Ecology and Biological Resources in Yarkand Oasis at Colleges & 9 10 Universities under the Department of Education of Xinjiang Uygur Autonomous Region, Kashgar 11 University, Kashgar 844000, China 12 13 \* Corresponding author; E-mail address: mjzhu@scut.edu.cn; Tel: +8620 39380623 14

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