

Electronic supplementary information

Physicochemical characterization and antibacterial activities of silver nanoparticles prepared by amidated low-methoxyl pectin

Pei-jun Li ^{a,b,*}, Run-sheng Xie ^{a,b}, Jiang-juan Pan ^b, Yu-qiu Jiang ^{a,b}, Xing Liu ^c

a Guangdong Provincial Key Laboratory of Utilization and Conservation of Food and Medicinal Resources in Northern Region, College of Food Science & Technology, Shaoguan University, Shaoguan 512005, China

b College of Chemistry and Bioengineering, Guilin University of Technology, Guilin 541004, China

c Institute for Agro-food Standards and Testing Technology, Shanghai Academy of Agricultural Sciences, Shanghai, 201403, China

* Corresponding Author

E-mail address: peijunli@sgu.edu.cn

Tel: +86-751-8120167.

1. Pectin molecular weight

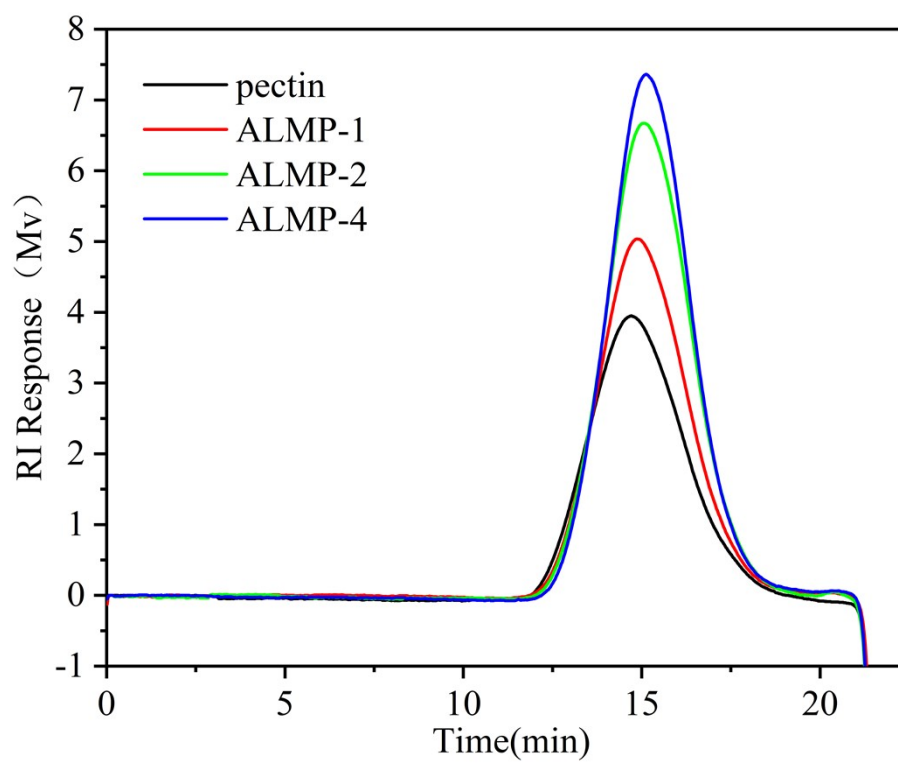


Fig. S1. Molecular weight distribution of pectin modified by different amides

2. Particle size distribution

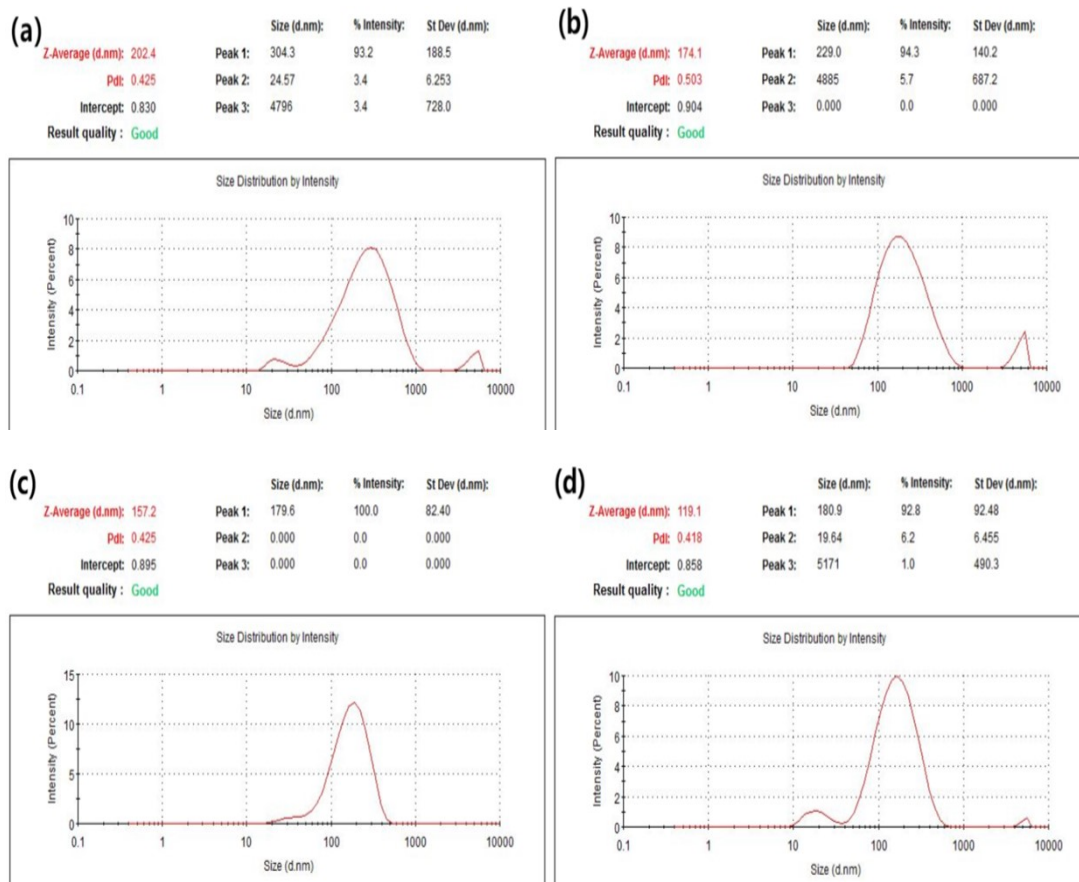


Fig. S2. Particle size distribution of HMP-Ag (a), ALMP-1-Ag (b), ALMP-2-Ag (c), and ALMP-4-Ag (d), respectively.

3. Zeta potential

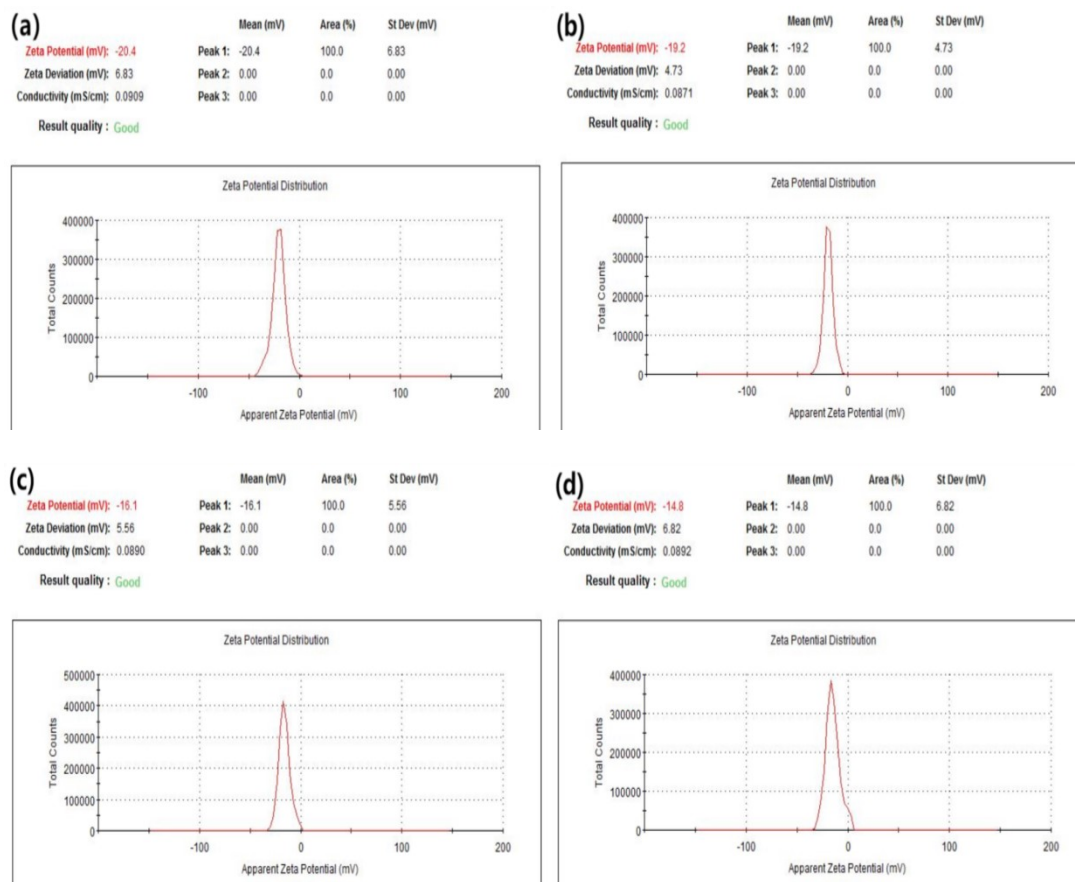


Fig. S3. Zeta potential of HMP-Ag (a), ALMP-1-Ag (b), ALMP-2-Ag (c), and ALMP-4-Ag (d), respectively.