

Supplementary Materials: Formation and Physiochemical Properties of Silver Nanoparticles with Various Exopolysaccharides of a Medicinal Fungus in Aqueous Solution

Wenjie Jian, Lu Zhang, Ka-Chai Siu, Angxin Song and Jian-Yong Wu

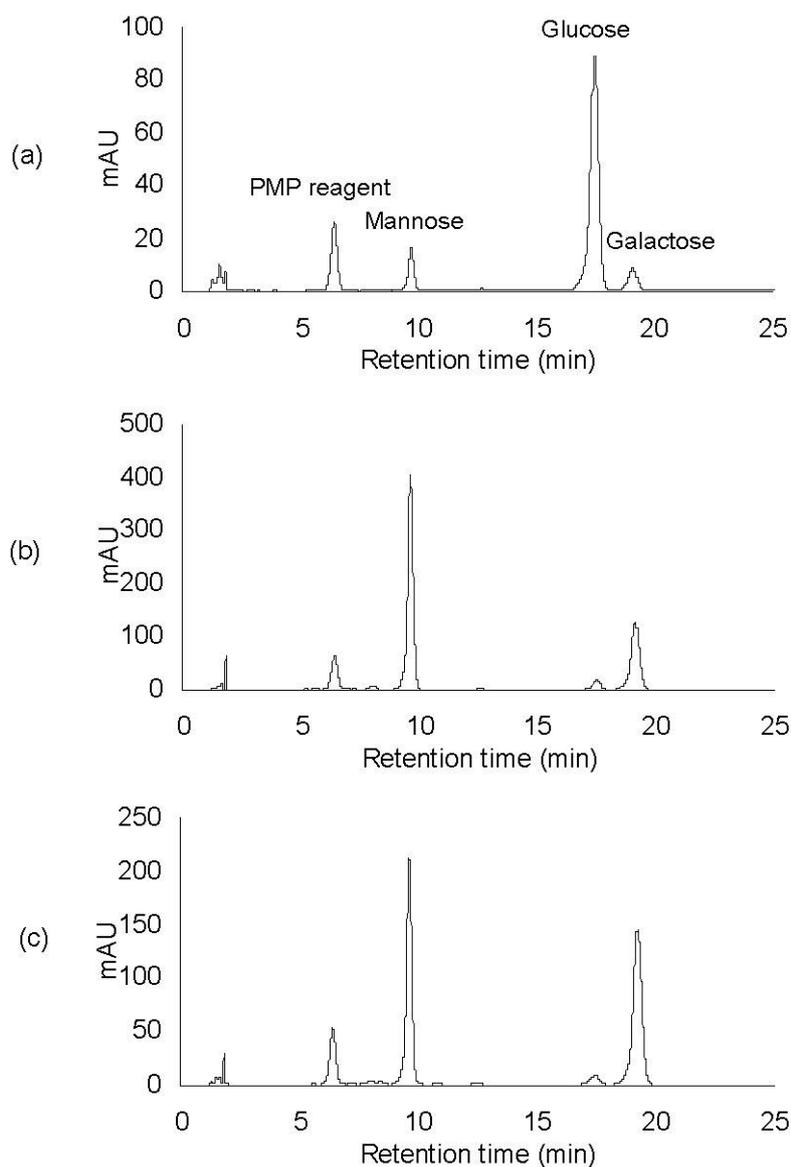


Figure S1. HPLC analysis on monosaccharide of P_{0.5} (a); P_{2.0} (b); and P_{5.0} (c).

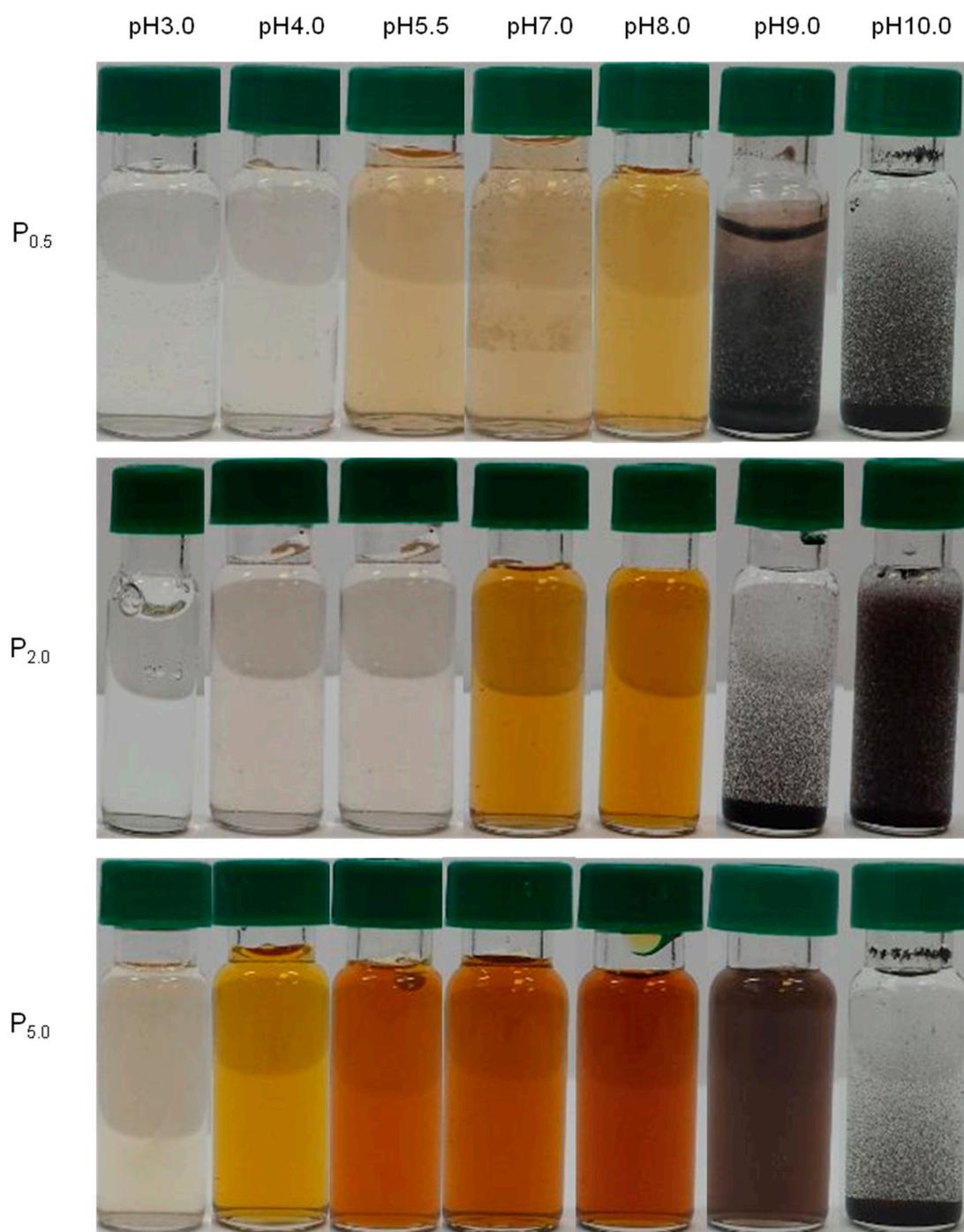
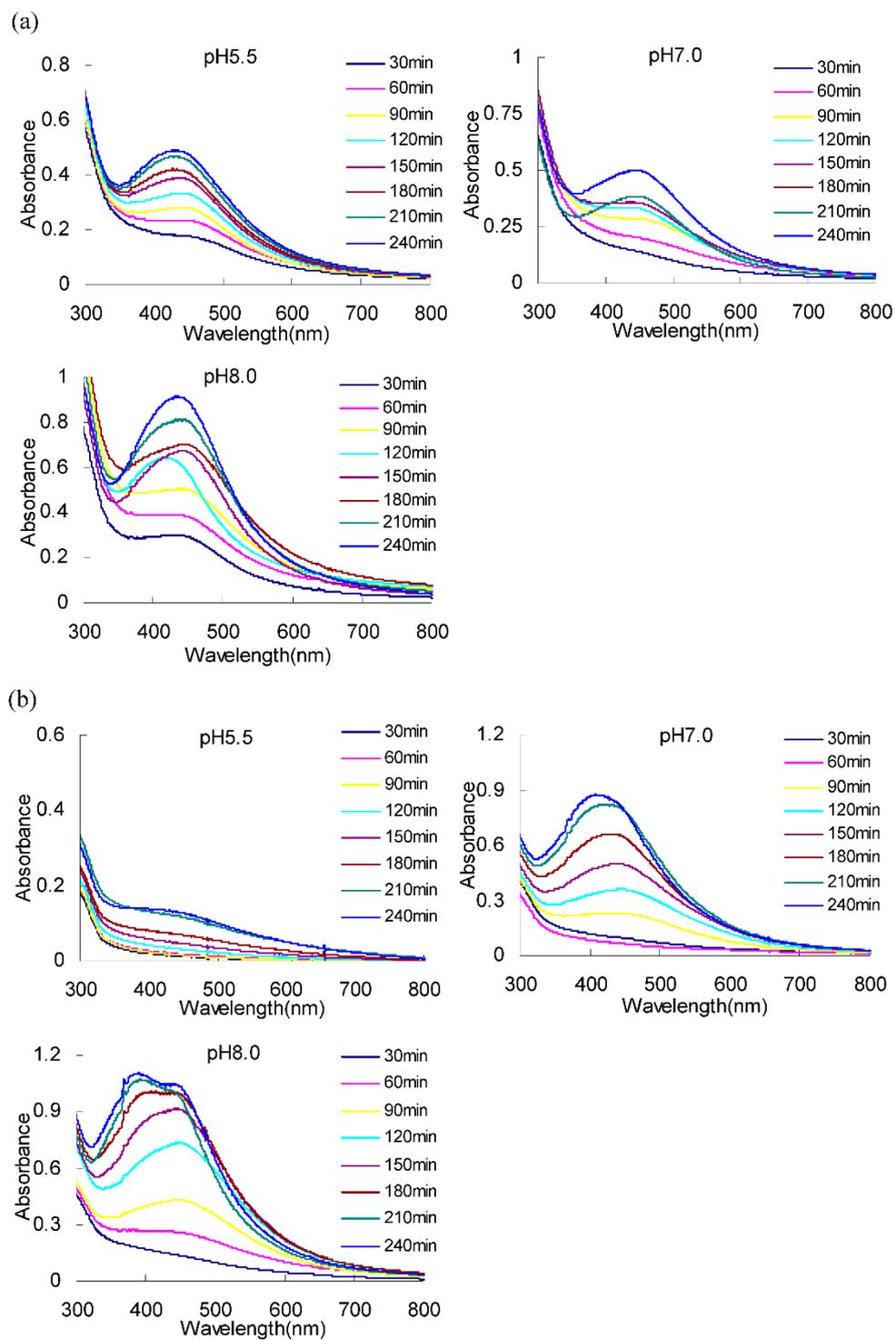


Figure S2. Photographs of AgNO₃ and EPS (P_{0.5}, P_{2.0}, and P_{5.0}) mixture solution at pH 3.0, 4.0, 5.5, 7.0, 8.0, 9.0, and 10.0 after heating at 100 °C for 240 min.



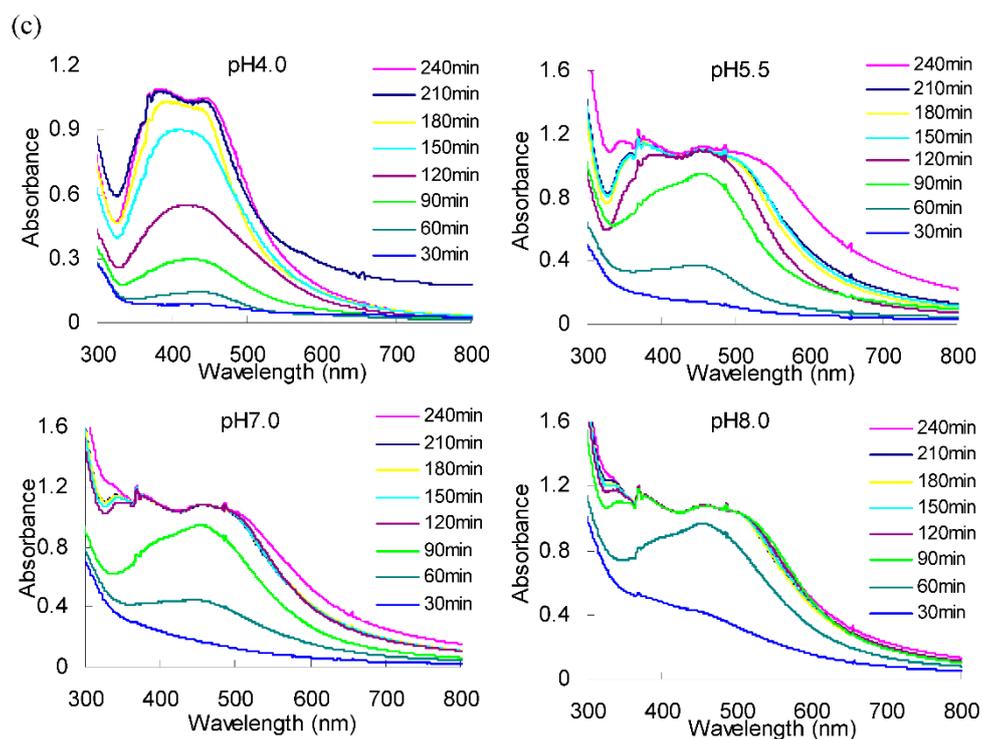


Figure S3. UV-vis spectra of the mixture of AgNO_3 and $\text{P}_{0.5}$ (a); $\text{P}_{2.0}$ (b); and $\text{P}_{5.0}$ (c) during the reaction process.

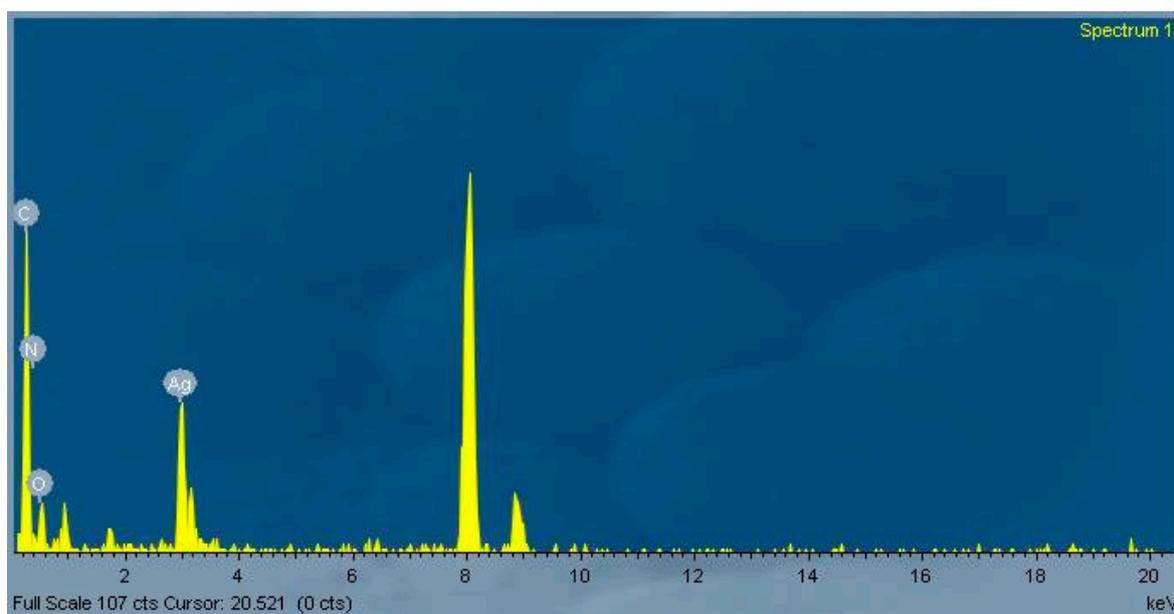


Figure S4. The energy dispersive spectroscopy spectrum of $\text{P}_{2.0}$ -AgNP prepared at pH 8.0.

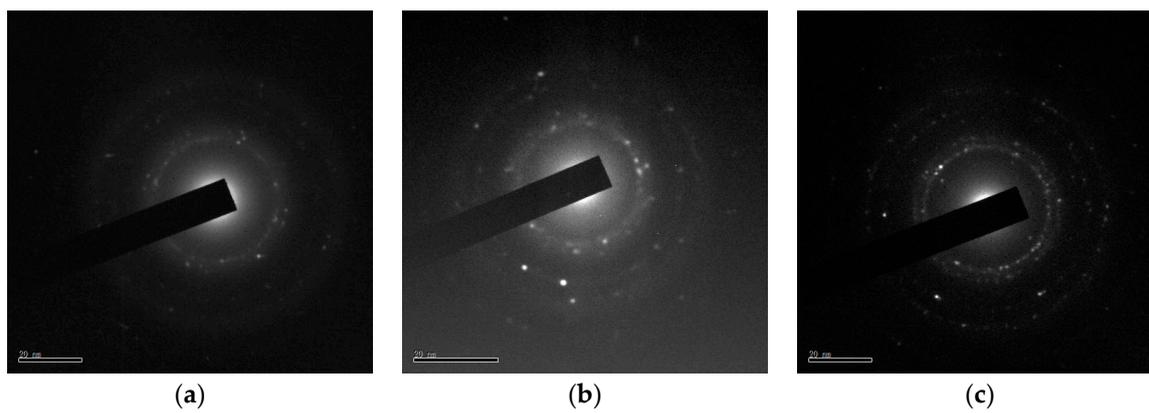


Figure S5. Selected area electron diffraction patterns (SAED) in TEM of (a) P_{0.5}-AgNPs; (b) P_{2.0}-AgNPs; and (c) P_{5.0}-AgNPs prepared at pH 8.0.