

Supporting Information

Facile Preparation of Corn Starch Nanoparticles by Alkali-Freezing Treatment

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Characterizations of SNPs

Inductively coupled plasmamass spectrometry (ICP-MS, Xseries II, Thermoscientific, USA) was used for quantitative determination of trace levels of Na. Zeta-potentials were measured with a Zeta Potential/BI-90 Plus particle size analyzer (Brookhaven, USA) at room temperature.

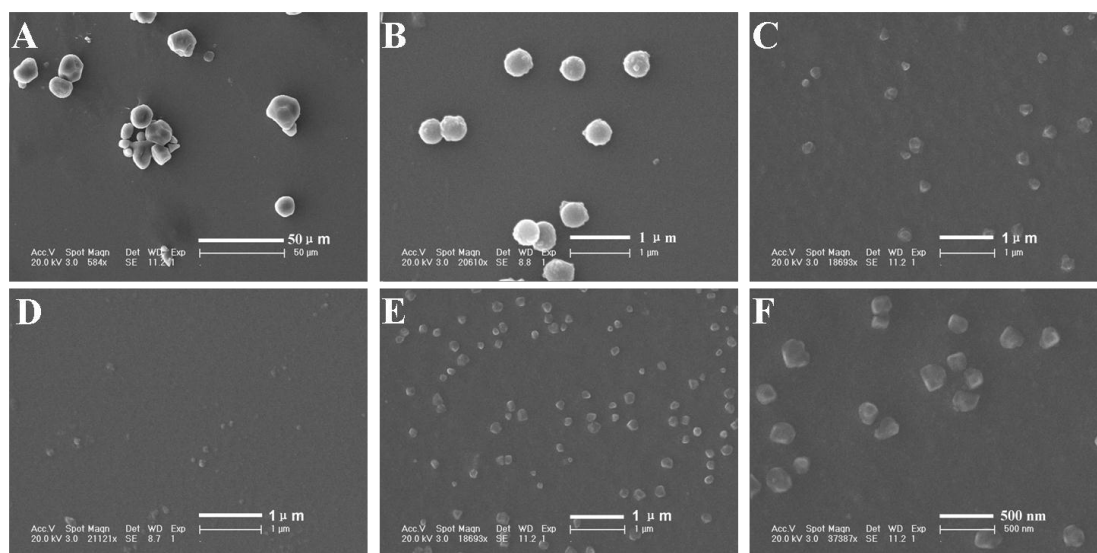


Fig. S1 SEM images of sample 1 (A), sample 2 (B), sample 3 (C), sample 4 (D), sample 5 (E), and sample 6 (F)

Elemental analysis was performed to detect the residual of urea. The weight content of C, H, and N Element in sample 4 was 70.93 %, 9.87 % and 0.05 % respectively.

ICP-MS was performed to detect the residual of Na. The content of Na Element in sample 4 is 35 ppm ($\mu\text{g/g}$)