

Collagen/chitosan gels cross-linked with genipin for wound healing in mice with induced diabetes

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Characterization of silver nanoparticles by TEM and DLS

1. TEM images of AgNPs samples were determined by JEM 1400 (JEOL, Japan) electron microscope, equipped with INCA Energy TEM 350 (Oxford Instruments, UK). The

18 obtained TEM images of nanoparticles were processed to determine dimensional characteristics using ImageJ software (National Institutes of Health, USA). The presence of 20 silver in nanoparticles samples was confirmed by EDX spectra and EDS with elemental

mapping.

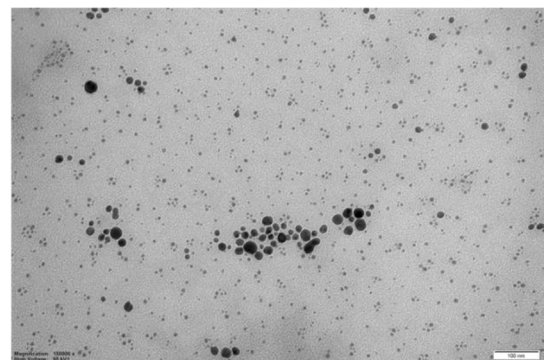
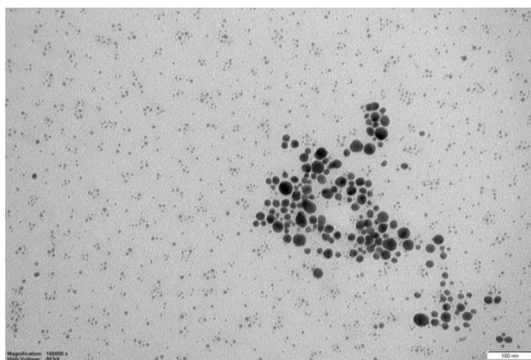


Figure S1. TEM images of AgNPs

2. The average hydrodynamic particle diameter and particle size distribution (polydispersity index, PDI) were determined by dynamic light scattering (DLS) in reflected light (scattering angle 180 °C) using a NANO-flex II analyzer (Colloid Metrix, Germany). The measurements were carried out in distilled water, the sample temperature is + 22 °C,

the sample volume is not less than 1 mL. The measurements were carried out in triplicate,

the result was averaged.

Table S1. Average data for particle size distribution of AgNPs

Sample	Mean_I /nm	Z-value /nm	PDI	Mean_N /nm	Peak_N /nm	Peak_I /nm
AgNPs	44.84±0.57	45.92±0.53	0.0762±0.01	30.02±0.48	28.66±0.50	43.44±0.88

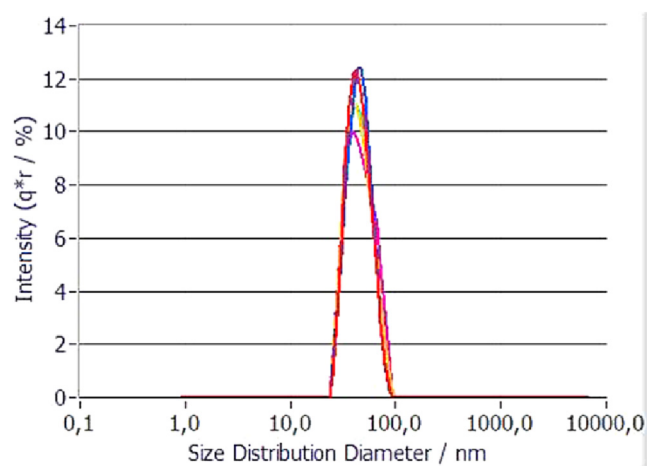


Figure S2. Diameter of the size distribution of AgNPs