

Seedless, Silver-Induced Synthesis of Star-Shaped Gold/Silver Bimetallic Nanoparticles as High Efficiency Photothermal Therapy Reagent

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Supplementary Information

Sample ratio	HAuCl ₄ (10 mM)	AgNO ₃ (10 mM)	Ascorbic Acid (100 mM)	Capping Agent
Au/Ag (3)	6 μ L	2 μ L	2 μ L	1 mL
Au/Ag (10)	20 μ L	2 μ L	4 μ L	1 mL
Au/Ag (15)	30 μ L	2 μ L	4 μ L	1 mL
Au/Ag (30)	60 μ L	2 μ L	8 μ L	1 mL
Au/Ag (50)	100 μ L	2 μ L	16 μ L	1 mL
Au/Ag (100)	200 μ L	2 μ L	28 μ L	1 mL

Figure S1. The synthesis specifications of star-shaped gold/silver nanoparticles.

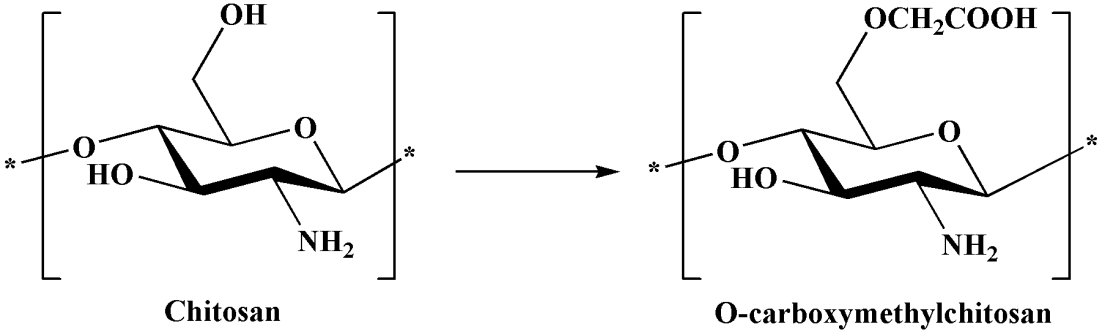


Figure S2. The chemical structure of chitosan and modified chitosan (O-carboxymethylchitosan).

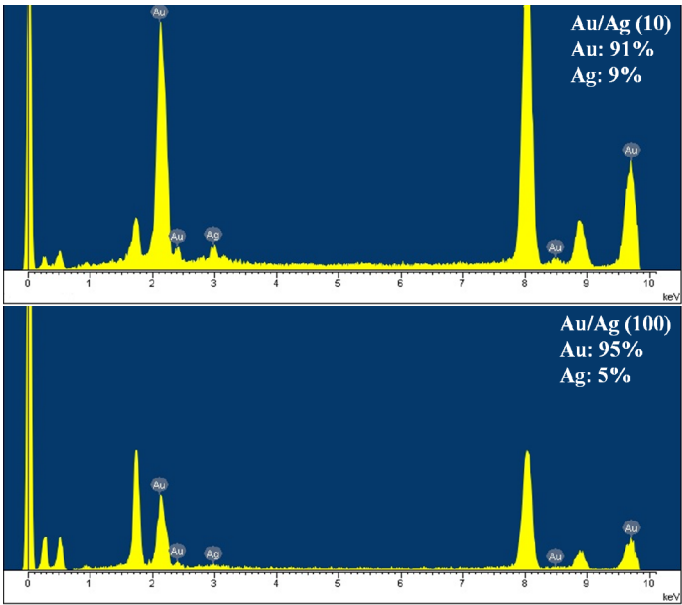


Figure S3. Elemental analysis of Au/Ag nanoparticles by EDX.

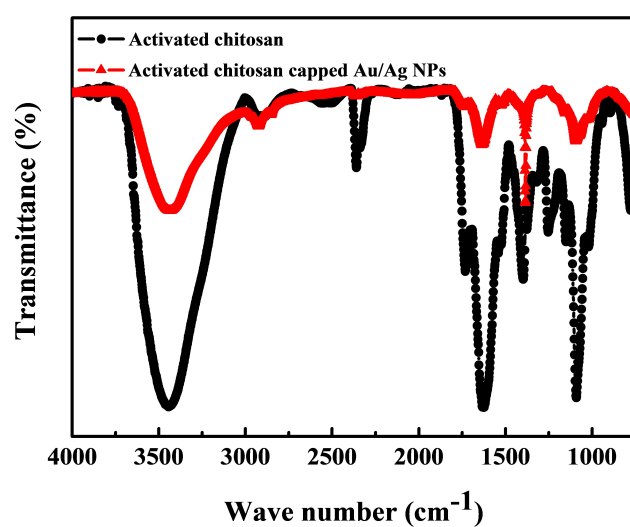


Figure S4. FTIR of modified chitosan (black dots line) and modified chitosan capped Au/Ag nanoparticles (red triangles line).

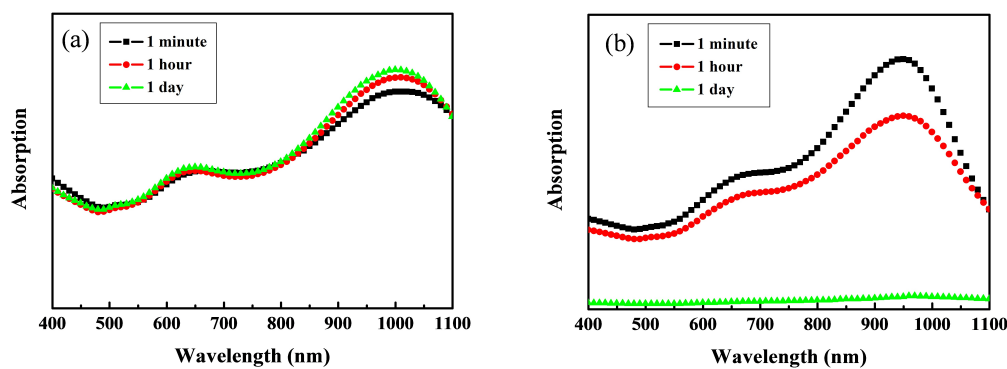


Figure S5. Evolution of the absorption spectra of Au/Ag (10) nanoparticles (a) stabilized by modified chitosan and (b) without stabilizing.