

Supplementary Material

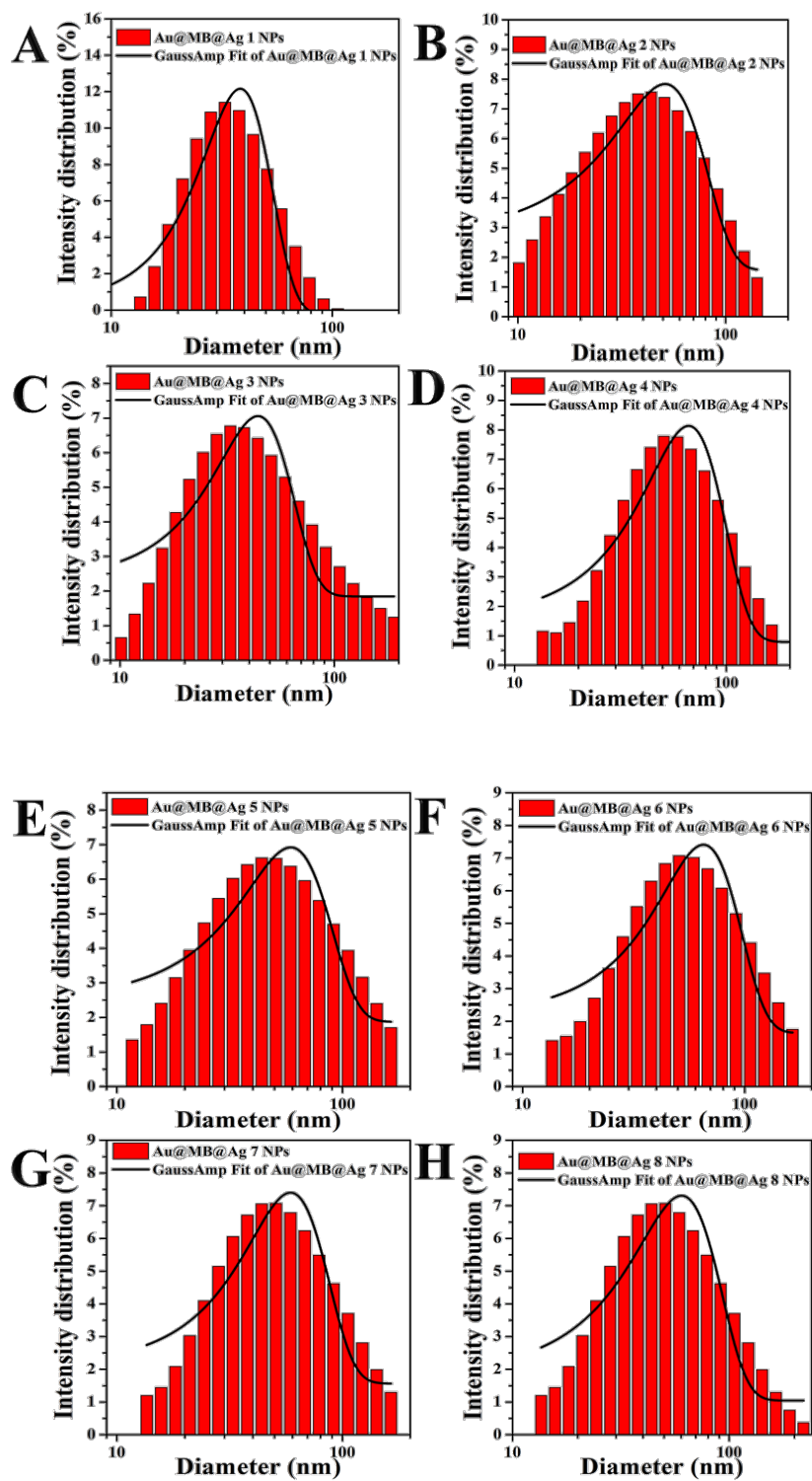
**Determination of NADH by Surface Enhanced Raman Scattering Using  
Au@MB@Ag NPs**

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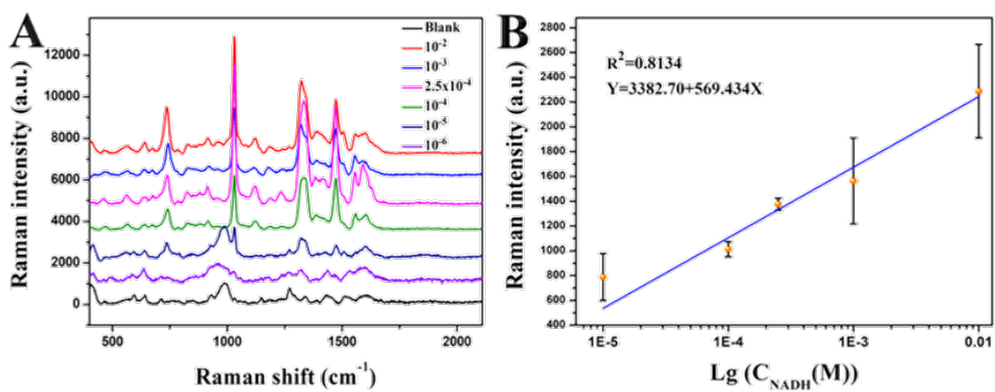
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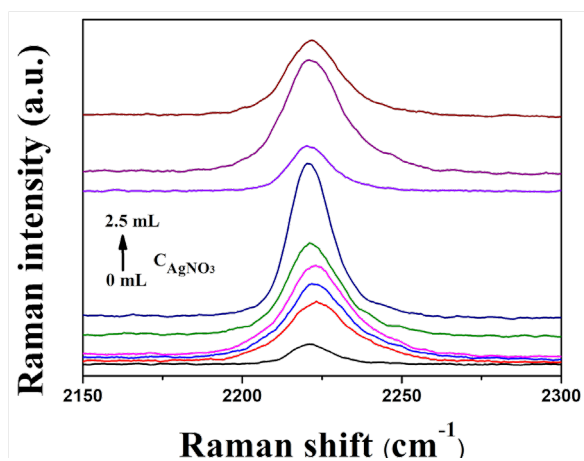
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**Figure S1.** Gaussian fit map particle size of Au@MB@Ag NPs add different amounts of silver nitrate (A) 0.5mL, (B) 1 mL, (C) 1.5 mL, (D) 2.0 mL, (E) 2.5 mL, (F) 3 mL, (G) 3.5 mL, (H) 4.0 mL.



**Figure S2.** (A) SERS spectra of different concentrations of NADH, (B) SERS intensity at 728 cm<sup>-1</sup> as a function of logarithm of NADH concentration.



**Figure S3.** Raman intensity of Au@MB@Ag NPs with different amounts of silver nitrate (0.5 mL, 1.0 mL, 1.5 mL, 2.0 mL, 2.5 mL, 3.0 mL, 3.5 mL, and 4.0 mL).