

Supplementary Information

Surface-enhanced Raman on gold nanoparticles for the identification of the most common adulterant of Astragali Radix

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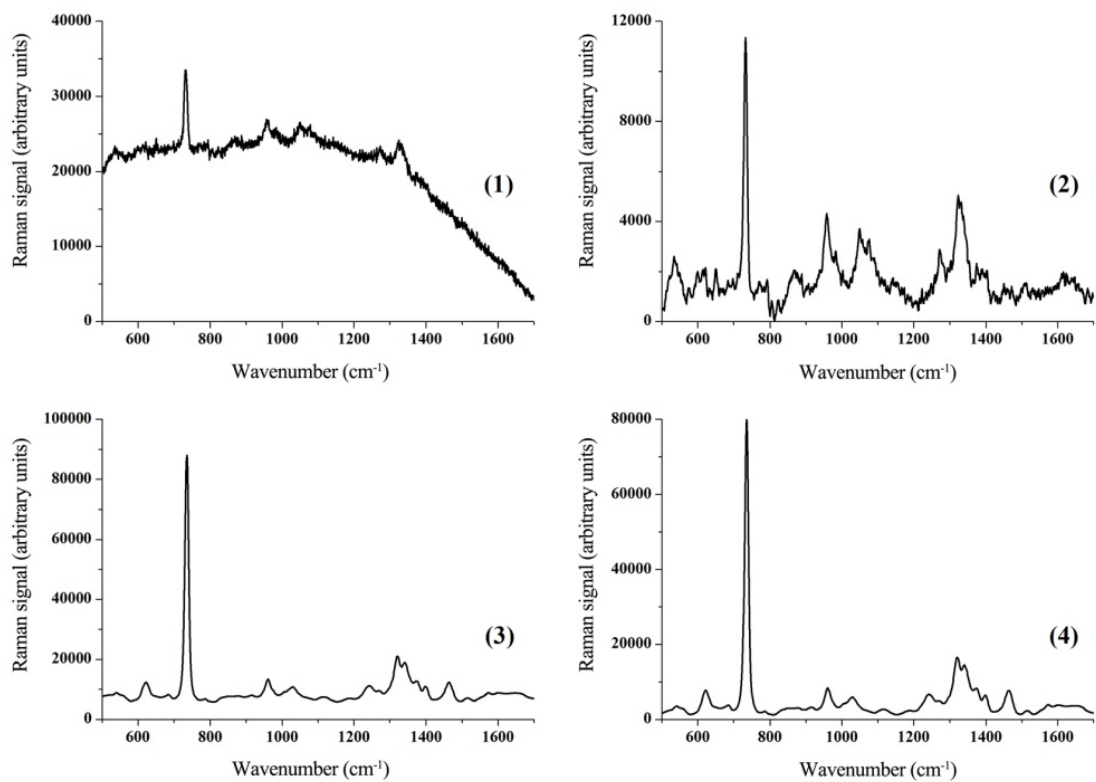


Figure S1. The raw spectra of Astragali Radix sample without (spectrum 1) and with gold nanoparticles (spectrum 3). The spectra of Astragali Radix sample without (spectrum 2) and with gold nanoparticles (spectrum 4) after removing fluorescence background.

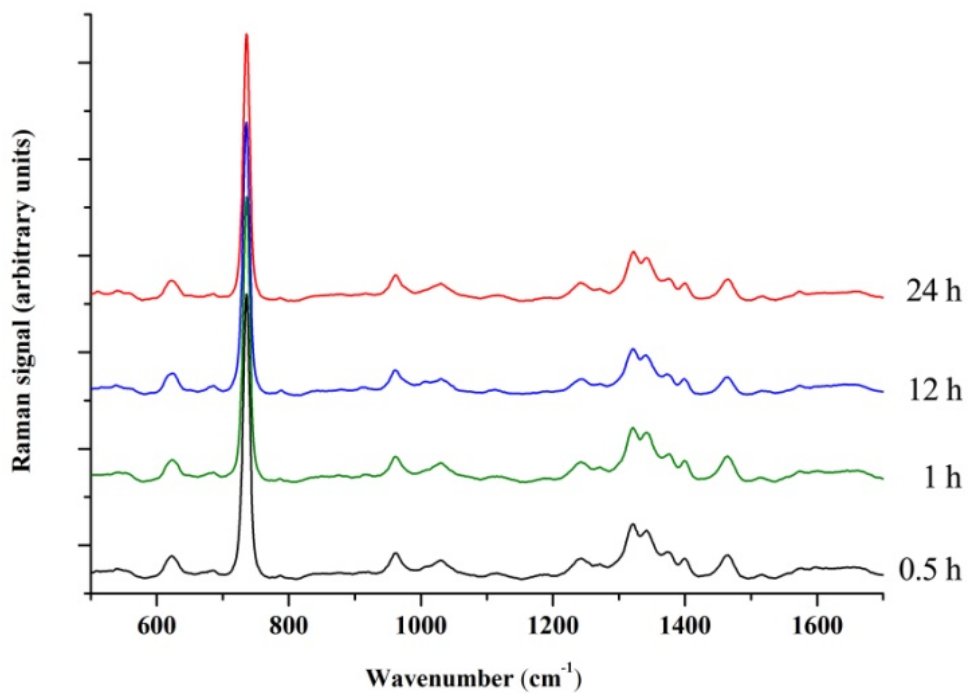


Figure S2. SERS spectra of a same sample measured at different time.

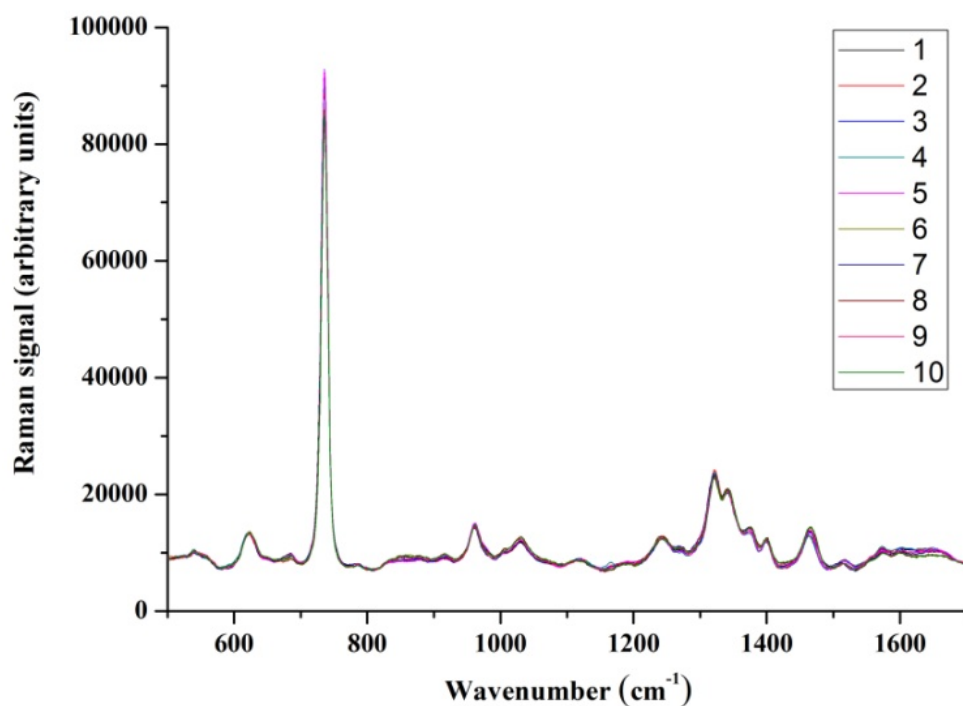


Figure S3. Ten SERS spectra obtained in one batch from one sample.

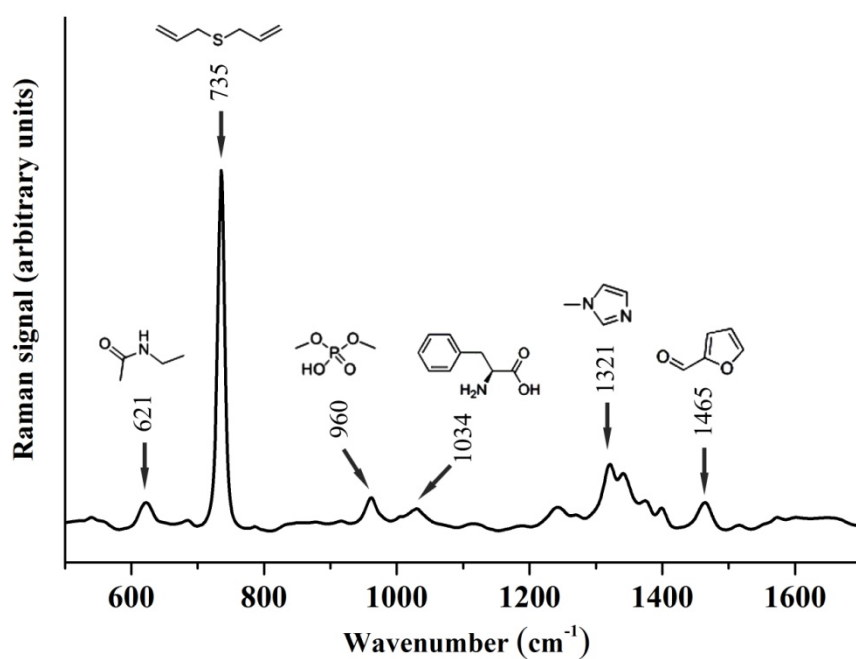


Figure S4. The SERS spectrum of Astragali Radix. The inserted molecule structures show the main chemical components in the herbs.