

Supplementary file

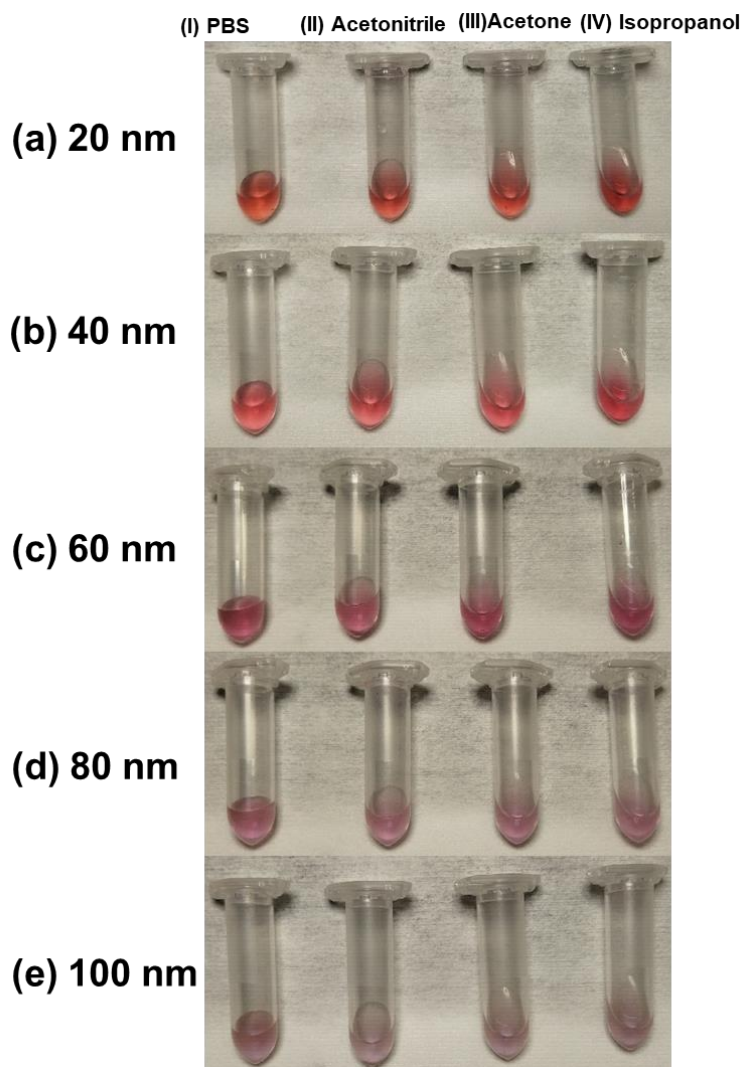
# Investigation of Performance Parameters of Spherical Gold Nanoparticles in Localized Surface Plasmon Resonance Biosensing

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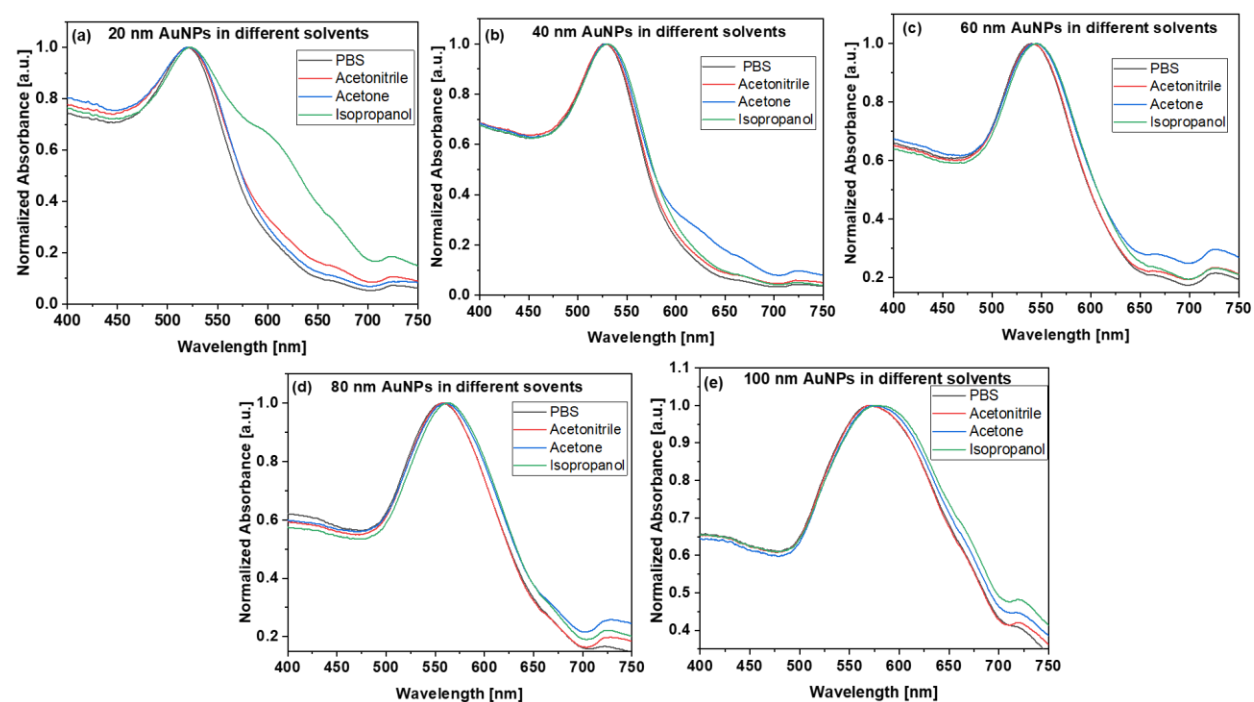
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**Figure S1.** Picture of AuNPs in different solvents with average diameter (a) 20 nm, (b) 40 nm, (c) 60 nm, (d) 80 nm, and (e) 100 nm.

The absorbance curves of  $d = 20, 40, 60, 80$  and  $100$  nm AuNPs at different RI mediums are shown in Figure S2.



**Figure S2.** Experimental absorbance spectra of AuNPs in different solvents with nanoparticles with average diameter (a) 20 nm, (b) 40 nm, (c) 60 nm, (d) 80 nm, and (e) 100 nm.