SUPPLEMENTAL MATERIAL

Glucose determination based on two component self–assembled monolayer functionalized surface–enhanced Raman spectroscopy (SERS) probe

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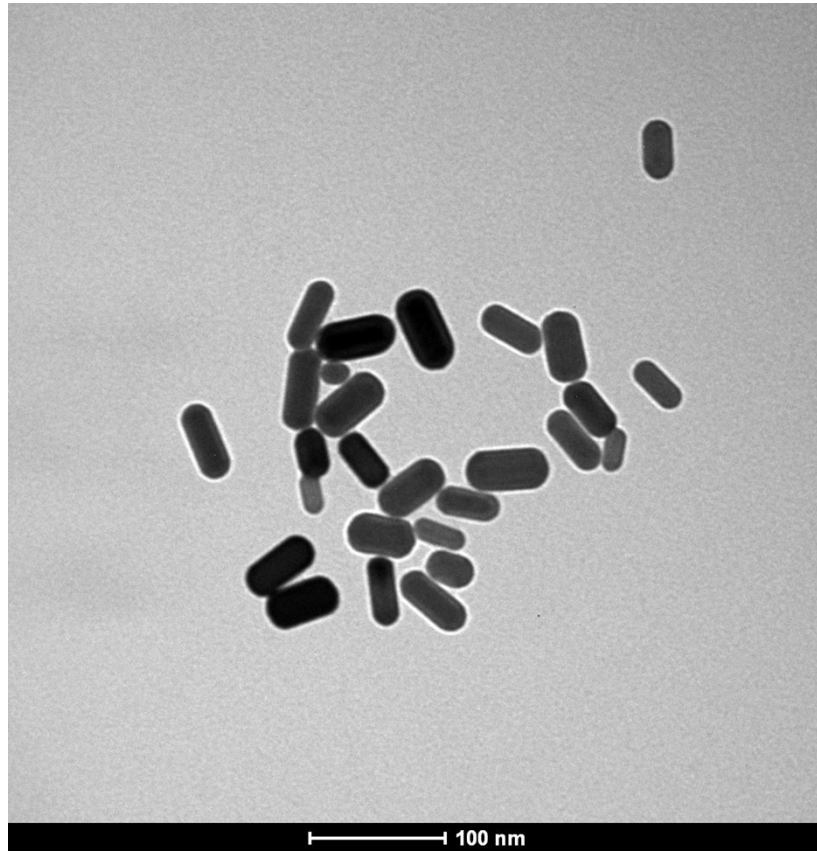
Tel: 903122023105

Figure S1

Figure S1. The TEM images of the rod shaped gold nanoparticles
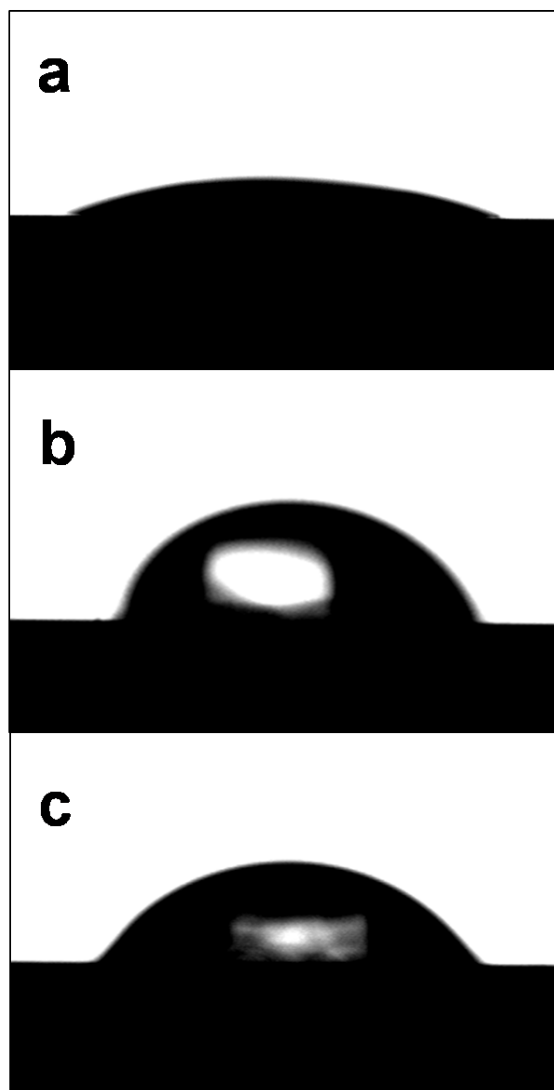
Figure S2

Figure S2. The photographs show a water drop in contact with a) Au surface, b) AuSAM and c) AuSAM–AuNPsSAM surfaces
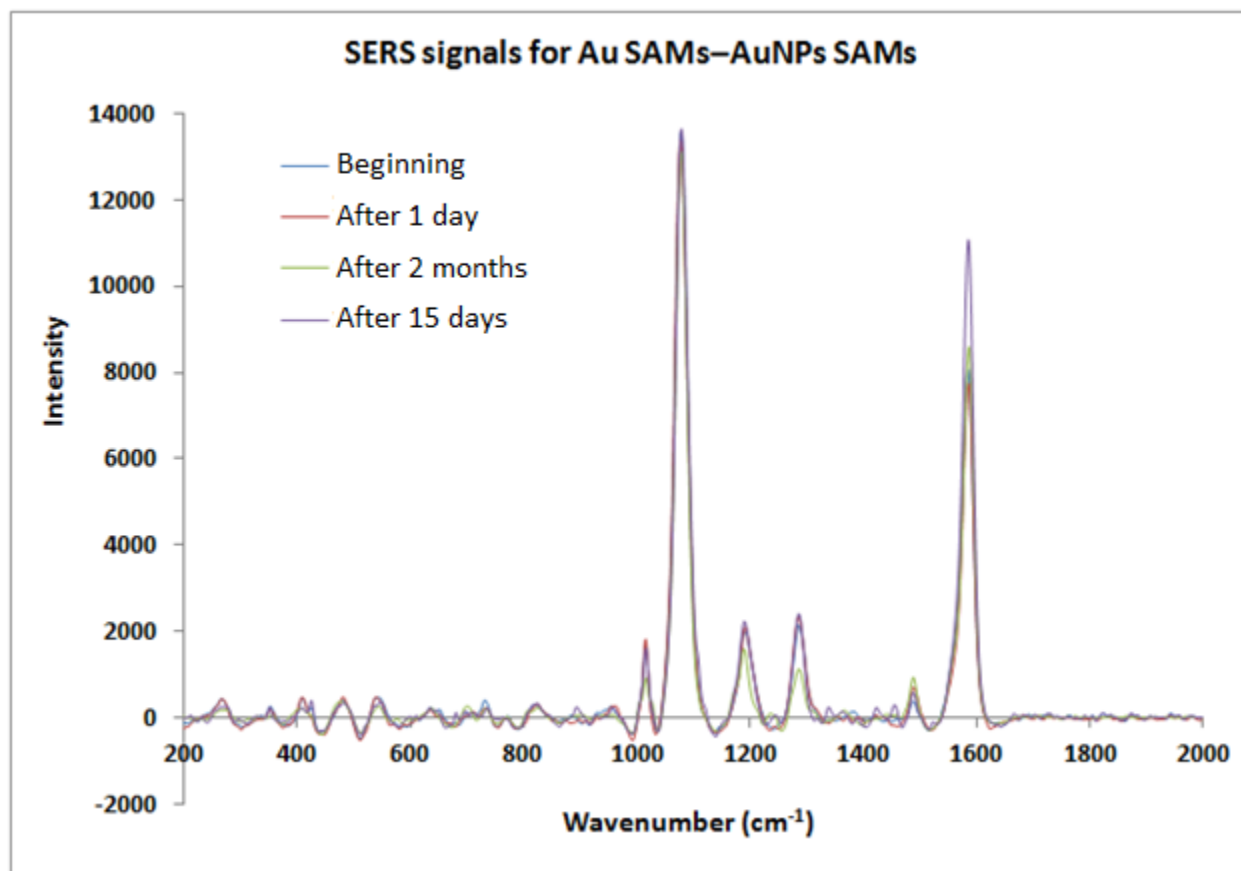
Figure S3.

Figure S3. The results of the stability studies for the prepared SERS probe
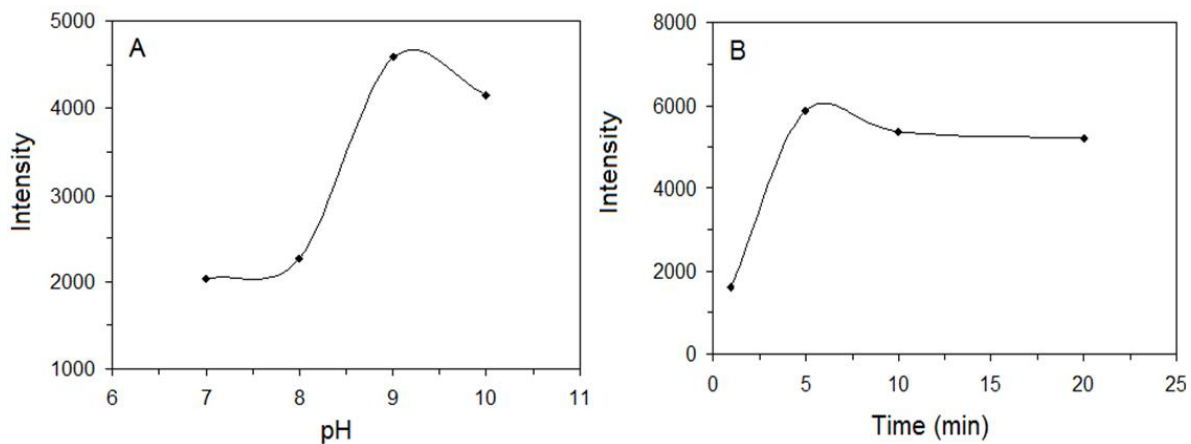
Figure S4

Figure S4. The effect of a) solution pH and b) surface-incubation time of the 4 mM glucose

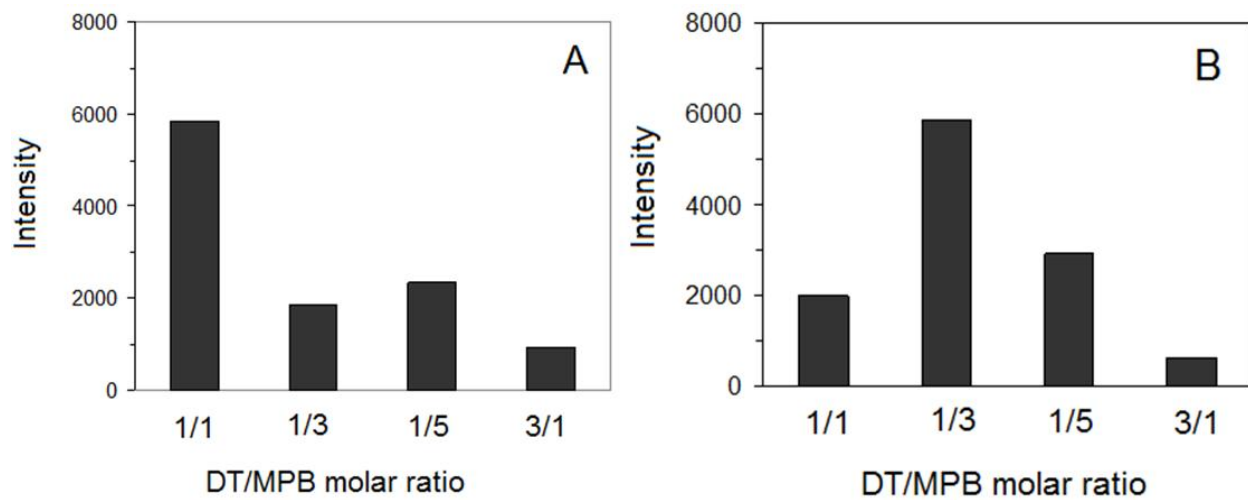solution, on the change in the B–OH SERS signal at 1070 cm^{-1}

Figure S5

Figure S5. The effect of the 1-DT /3-MBA molar ratio that was used during modification of the

a) gold surfaces and b)Au NPs, on the B–OH SERS signal at 1070 cm^{-1}
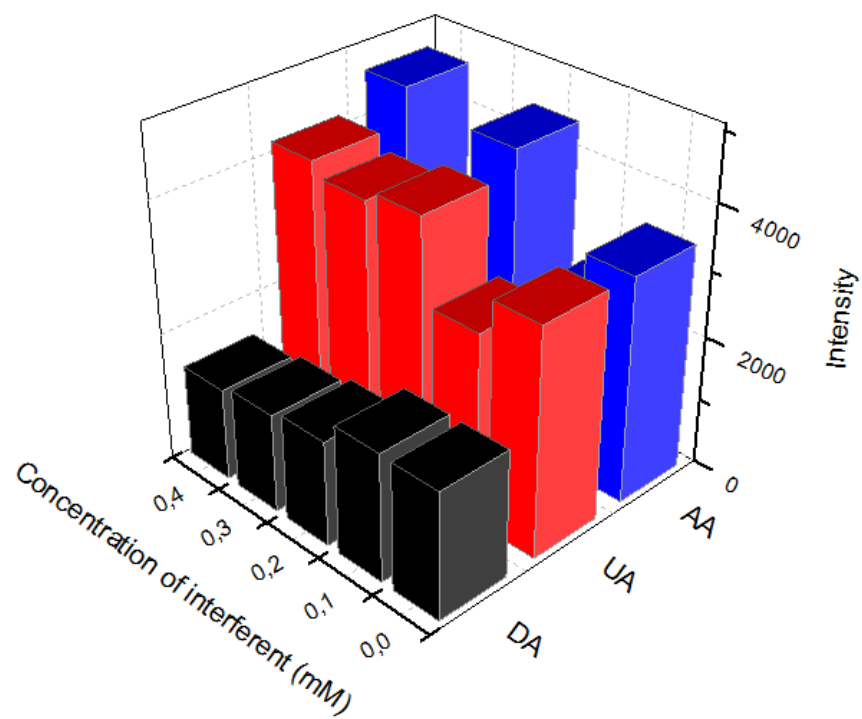
Figure S6

Figure S6. The effect of interferent ions on the determination of glucose