

Gold nanoparticle SERS substrate Instructions for Use

Procedure

- Remove glass slide from the carrier without touching the active area to avoid contamination.
- Do not wash the substrate or expose to ultrasound.
- Carefully inject 15uL of analyte solution onto one corner of the active area of the substrate and allow to spread across the whole square
- Do not dip the substrate into the analyte
- The active area will change colour from pink to blue when ready to use (see Figure 2).
- Measure the Raman signal immediately
- Recommended laser power density 15W/cm²
- Maximum laser power density 20W/cm²

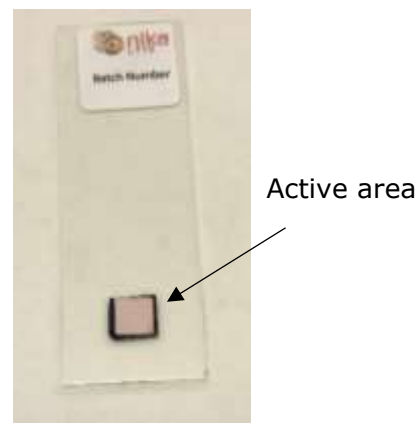


Figure 1 As supplied SERS substrate



Figure 2 SERS substrate ready for testing after application of analyte

Specification	
SERS active material	Gold nanoparticles
Sensitivity	ppm to ppb
Laser Wavelength	830nm
Dimensions	75mm x 25mm
Active area	6mm x 6mm
Lifetime	3 months