

## 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/cm<sup>2</sup>
- Maximum laser power density 20W/cm<sup>2</sup>

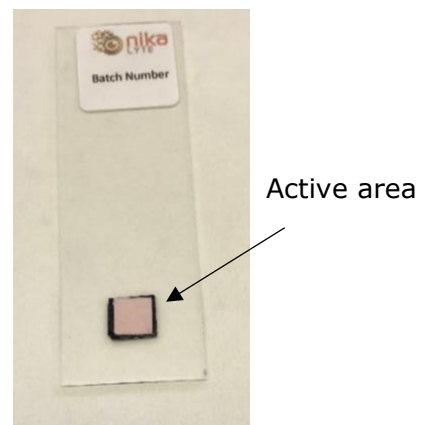


Figure 1 As supplied SERS substrate



Figure 2 SERS substrate ready for testing after application of analyte

<b>Specification</b>	
<b>SERS active material</b>	Gold nanoparticles
<b>Sensitivity</b>	ppm to ppb
<b>Laser Wavelength</b>	830nm, 785nm
<b>Dimensions</b>	75mm x 25mm
<b>Active area</b>	6mm x 6mm
<b>Lifetime</b>	3 months