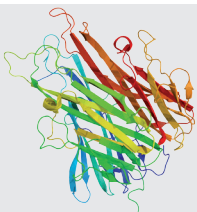


Micro Raman Accessory

SERS Substrates



A Powerful Tool
for Chemical and
Biological Sensing
Applications

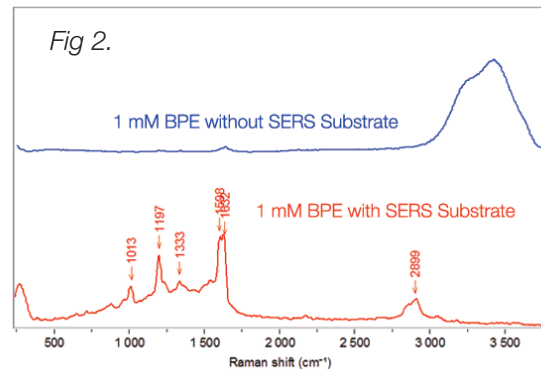
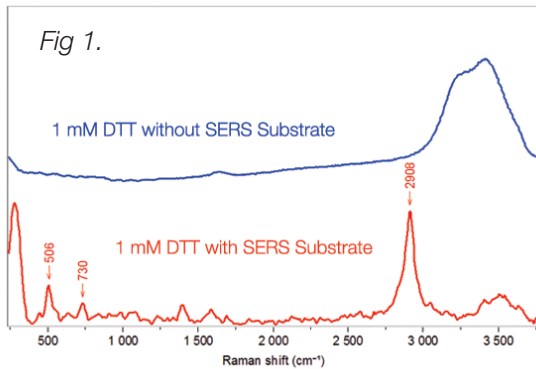
High-performance SERS substrates for ultra sensitive molecular detection, ideal for chemical and biological sensing applications



SERS Substrates

The SERS (Surface Enhanced Raman Scattering) technique is known to be a powerful tool for chemical and biological sensing applications. Now, small concentration of molecules which have been adsorbed on nano-sized metal structures, in particular Au, Ag or Cu, can be analyzed due to the enhancement of the Raman signals.

HORIBA Scientific proposes SERS substrates which offer excellent reproducibility and significant enhancement allowing detection of molecules which otherwise could not be detected using classical Raman spectroscopy, as well as easier and faster analysis of weak Raman scatterers. The substrates are coated with gold nanorods processed by dynamic oblique vacuum evaporation.



Examples of SERS spectra for Fig1. Dithiothreitol (DTT) and Fig2. 1,2-bis(4-pyridyl)ethene (BPE)

Specifications

- External dimension (slide glass type): 76 mm x 26 mm
- Active area dimensions (SERS chip dimensions): 4 mm x 3 mm or 5 mm x 7 mm
Recommended measurement field: 4 mm diameter area in the centre
- Recommended excitation wavelength: 633 nm, 785 nm, 830 nm
Designed for enhancement around 800 nm
- The SERS chips are available separately in chip case or already mounted on the glass slide.

Find out more at www.horiba.com/raman



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