Cylindrical SERS Substrates
(Surface-enhanced Raman Spectroscopy)
Specification ( Category number: cSERS©-Ag-1 )

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimension of cSERS Substrate</td>
<td>I.D. = 2mm, Height = 9 mm (roughly)</td>
</tr>
<tr>
<td>Required Sample Volume</td>
<td>&lt; 5 μL</td>
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<tr>
<td>Recommended Storage Temperature</td>
<td>Less than 20 °C</td>
</tr>
<tr>
<td>Enhanced Metal</td>
<td>Nano Silver ( SEM image shown below )</td>
</tr>
<tr>
<td>Application Laser</td>
<td>532 nm, 633 nm, 785 nm, and others</td>
</tr>
</tbody>
</table>

Patent: I464389, M516159, ZL2013 2 0821233.9
* Sales must be authorized by Labguide and law.

International papers:
- Sensitive Cylindrical SERS Substrate Array for Rapid Microanalysis of Nucleobases
- Atmospheric Pressure Plasma Jet in Organic Solution: Spectra, Degradation Effects of Solution Flow Rate and Initial pH Value
- Rapid detection of melamine in milk liquid and powder by surface-enhanced Raman scattering substrate array
- 3-min Rapid Test Peritoneal Dialysis Patient of Bacteria Infection by Raman (This paper will be announced on April)

![SEM image of the SERS substrate](image)

![Raman spectra of melamine](image)

![Enhancement factor > 10^6](image)
Cylindrical SERS Substrates (Surface-enhanced Raman Spectroscopy)

MRSA = Methicillin-resistant *Staphylococcus aureus*
MSSA = Methicillin-sensitive *Staphylococcus aureus*

Comparison of PCA plots for MRSA and MSSA

Portable Raman Device
Accuman