

Cylindrical SERS Substrates

Specification (Category number: cSERS[®]-Ag-1)

Dimension of cSERS Substrate(two type)	1. 5mm*25mm*1mm, reaction area=5mm*5mm 2. 2mm(I.D.), Height = 9 mm (roughly)
Required Sample Volume	< 5 μ L
Recommended Storage Temperature	Less than 20 $^{\circ}$ C
Enhanced Metal	Nano Silver
Application Laser	532 nm, 633 nm, 785 nm, and others

International papers:

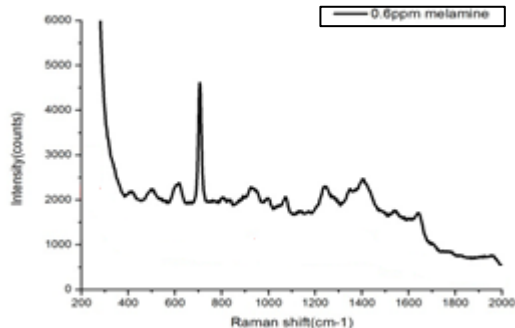
- Diagnosis of bacterial pathogens in the dialysate of peritoneal dialysis patients with peritonitis using surface-enhanced Raman spectroscopy (*Clinica Chimica Acta*)
- Sensitive Cylindrical SERS Substrate Array for Rapid Microanalysis of Nucleobases (*Analytical Chemistry*)
- Atmospheric Pressure Plasma Jet in Organic Solution: Spectra, Degradation Effects of Solution Flow Rate and Initial pH Value (*Plasma Science and Tecknology*)
- Rapid detection of melamine in milk liquid and powder by surface-enhanced Raman scattering substrate array (*Food Control*)
- A Rapid and Sensitive Early Diagnosis of Influenza Virus Subtype via Surface Enhanced Raman Scattering (*Biosensors & Bioelectronics*)
- 3-min Rapid Test Urine Patient of Bacteria Infection by Raman (This paper will be announced on October)

Patent: I 464389, M516159, ZL2013 2 0821233.9

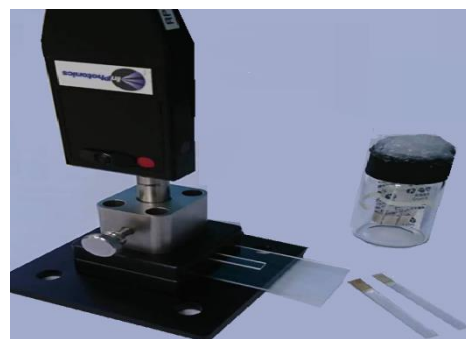
* Sales must be authorized by Labguide and law.



雙面皆可測量 Double side can be measure
Can use for ocean Raman SERS holder



Each bottle with QC test ,
785 nm, 1s, 20 mW, 0.6 ppm melamine



Ocean Optics



MicroTEQ-S1

顯微光譜測量系統

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Nano Ag SERS Application Summary

拉曼奈米銀增強 SERS 應用目錄總表 2018/10/03

Cooking Oil Detection 食用油檢測	
1	Detection of olive oil, Sunflower Oil, Canola Oil, sesame oil, and Camellia Oil 橄欖油、葵花油、芥花油、麻油、苦茶油等食用油檢測 http://www.labguide.com.tw/index.php?do=product&id=699
2	Detection of Refining Gutter oil and Cooking oil after cooking at different temperature 高溫炸油和精煉地溝油檢測 http://www.labguide.com.tw/index.php?do=product&id=704
Human protein Detection 人類蛋白質檢測	
1	Dementia (Alzheimer's) Raman Detection 失智症(阿茲海默症)拉曼檢測 http://www.labguide.com.tw/index.php?do=product&id=819
Animal, Plant Virus Detection 動物,植物病毒檢測	
1	Detection of Newcastle Disease and Avian Flu Virus GM 新城疫、禽流感病毒快速鑑定 http://www.labguide.com.tw/index.php?do=product&id=689
2	Detection of Avian Flu Type H3N2, H5N2, H6N1, H6N8, and H7N9, H3N2, H5N2, H6N1, H6N8, H7N9 禽流感病毒傳人快速鑑定 http://www.labguide.com.tw/index.php?do=product&id=690
3	Detection of Infectious Bursal Disease, IBD IBD 傳染性華氏囊病快速鑑定(雞腎病) http://www.labguide.com.tw/index.php?do=product&id=721
Test paper fast screening method & Raman indicator 拉曼指示劑& 試紙快篩法	
1	SERS in Immuno Electrophoresis Chromatography 拉曼指示劑法 http://www.labguide.com.tw/index.php?do=product&id=692
2	NC膜拉曼指示劑法 http://www.labguide.com.tw/index.php?do=product&id=743
Peritoneal dialysis, Urine, Blood Bacterial Detection 洗腎, 泌尿道炎, 血液細菌檢測	
1	CCA International Publication CCA國際論文 http://www.labguide.com.tw/index.php?do=product&id=559
2	Detection of MRSA and MSSA MRSA(抗藥性金黃色葡萄球菌)與MSSA(非抗藥性金黃色葡萄球菌)落點分析 http://www.labguide.com.tw/index.php?do=product&id=714
3	Detection of E. Coli infected Human blood samples. 人類血液感染大腸桿菌快速鑑定 http://www.labguide.com.tw/index.php?do=product&id=561
4	5 minutes Rapid Detection of Bacteria 細菌5分鐘快速鑑定 與中國醫合作泌尿道發炎118位病人 http://www.labguide.com.tw/index.php?do=product&id=795
5	Detection of Aspergillus flavus and Aflatoxin 黃麴黴菌快速鑑定 http://www.labguide.com.tw/index.php?do=product&id=713
6	Detection of E. Coli samples from food court. 食品街攤商 腹瀉大腸桿菌檢測 http://www.labguide.com.tw/index.php?do=product&id=656
7	細菌快篩 與中國醫腎臟科臨床測試45位病人 (腹膜透析發炎) 9種細菌(含抗藥性菌種) http://www.labguide.com.tw/index.php?do=product&id=802
8	細菌快篩 與中國醫合作泌尿道發炎118位病人 12種菌/10種抗藥性菌種(超級細菌) http://www.labguide.com.tw/index.php?do=product&id=807
Drinking water Bacterial Detection 飲用水中細菌檢測	
1	5 min Detection of E. coli on Site 總菌數和大腸桿菌5分鐘 - 快篩 http://www.labguide.com.tw/index.php?do=product&id=756



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Nano Ag SERS Raman Application Summary

拉曼奈米銀增強 SERS 應用目錄總表 2018/10/03

Pesticide Residue Testing on Food & Vegetables 食品蔬菜農藥殘留 (210種農藥圖庫)

中華民國 106 年 12 月 28 日環署授檢字第 1060011559 號公告(用拉曼定性)

1	5min Raman Rapid Detection of Pesticide Residue 農藥殘留 5分鐘定性定量 210種以上農藥圖庫	http://www.labguide.com.tw/index.php?do=product&id=758
2	Chlorpyrifos Residue on Vegetables 蔬果農藥殘留 陶斯松5分鐘定性、定量	http://www.labguide.com.tw/index.php?do=product&id=722
3	Chlorpyrifos Residue in Fruit Juice 果汁殘留陶斯松	http://www.labguide.com.tw/index.php?do=product&id=570
4	Qualitative and Quantitative Detection of Low Concentration Acephate (as low as 0.1ppm) 農藥殘留 高滅磷(歐殺松) 5分鐘定性定量 0.1ppm	http://www.labguide.com.tw/index.php?do=product&id=705
5	Standard detection of Acephate and Hydramethylnon 歐殺松、愛美松標準品檢測	http://www.labguide.com.tw/index.php?do=product&id=717
6	5 min Raman Rapid Detection of Zineb 農藥殘留 鋅乃 浦五分鐘定性、定量	http://www.labguide.com.tw/index.php?do=product&id=788

Additives Food (illegal) 食品非法添加

1	Quick Detection of Low Concentration of Malachite green (1ppb) 孔雀石綠快篩 (1ppb)	http://www.labguide.com.tw/index.php?do=product&id=687
2	Quick detection of aflatoxin, Fusarium moniliforme, and Deoxynivalenol in Corn Flour, and Flour 玉米粉、麵粉之黃麴毒素、伏馬鐮孢毒素及嘔吐毒素 黴菌毒素快速鑑定	http://www.labguide.com.tw/index.php?do=product&id=718
3	Quick Detection of Trichloromethane in Bottled Soft Drinks. 百事可樂飲料殘留三氯甲烷5分鐘快篩	http://www.labguide.com.tw/index.php?do=product&id=654
4	Quick detection of Natural Pigment and Edible Pigment in Soft Drinks from Beverage Shop. 飲料店天然與食用色素快篩	http://www.labguide.com.tw/index.php?do=product&id=590
5	Detection of illegal Additive of Melamine in Milk 牛奶添加三聚氰胺	http://www.labguide.com.tw/index.php?do=product&id=571
6	Standard detection of Melamine & Benzoic acid 三聚氰胺及苯甲酸 標準品檢測	http://www.labguide.com.tw/index.php?do=product&id=715
7	Detection of Pork and Chicken meat 豬肉、雞肉與組合肉檢測	http://www.labguide.com.tw/index.php?do=product&id=598
8	10 min Raman Rapid Detection of Meat Products 豬肉、雞肉與組合肉10分鐘快篩	http://www.labguide.com.tw/index.php?do=product&id=761



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Nano Ag SERS Application Summary

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Drug abuse 尿中毒品		
1	Abuse of Emerging Club Drugs in Urine sample, including Mephedrone、MDPV、4-Methylephedrine、HMPV、Methylone、Amphetamine, Meth-、Methylone、Ketamine、Codeine、and Norketamine. 尿液中的新興毒品拉曼譜圖與落點分析	http://www.labguide.com.tw/index.php?do=product&id=720
2	Abuse of Emerging Club Drugs in Urine sample, including Mephedrone、MDPV、4-Methylephedrine、HMPV、Methylone、and Ketamine. 尿液中的新興毒品拉曼譜圖與落點分析	http://www.labguide.com.tw/index.php?do=product&id=683
Environmental Pollutant 環保類		
1	Detection of environmental Soil Pollutant 環境汙泥 有機物 快篩	http://www.labguide.com.tw/index.php?do=product&id=565
2	Rhodamine 6G Concentration Test 羅丹明6G測試	http://www.labguide.com.tw/index.php?do=product&id=759
3	Qualitative Analysis of Plastic Particle Raman Spectroscopy 塑膠微粒拉曼光譜定性分析	http://www.labguide.com.tw/index.php?do=product&id=816
4	Chlorine dioxide & residual chlorine analyzer 二氧化氯&餘氯分析儀	http://www.labguide.com.tw/index.php?do=product&id=818
Raw Material From Pharmaceutical company 藥廠原料檢測		
1	Detection of Dexamethasone、Betamethasone-17,21-dipropionate、Betamethasone 17-Valerate、Clobetasolpropionate、Gentamicin from a pharmaceutical company. 原料藥品 快篩	http://www.labguide.com.tw/index.php?do=product&id=567
2	Detection of NaCl of the raw material of a pharmaceutical company 藥廠原料NaCl鑑別	http://www.labguide.com.tw/index.php?do=product&id=682
Material Detection 材料檢測		
1	Detection of Graphene 石墨烯檢測	http://www.labguide.com.tw/index.php?do=product&id=740
2	Detection of Hydrogen peroxide 雙氧水檢測	http://www.labguide.com.tw/index.php?do=product&id=742
Nano Ag Technology 奈米銀技術平臺		
1	Raman SERS Substrates (中興大學 技轉)	http://www.labguide.com.tw/index.php?do=product&id=547
2	Micro Raman Spectroscopy (顯微拉曼)	http://www.labguide.com.tw/index.php?do=product&id=719



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