

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

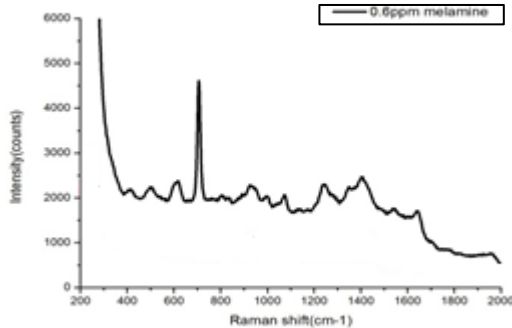
International papers:

- 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 (*molecules*)
- Construction of Raman spectroscopic fingerprints for the detection of Fusarium wilt of banana in Taiwan(*PLOS ONE*)

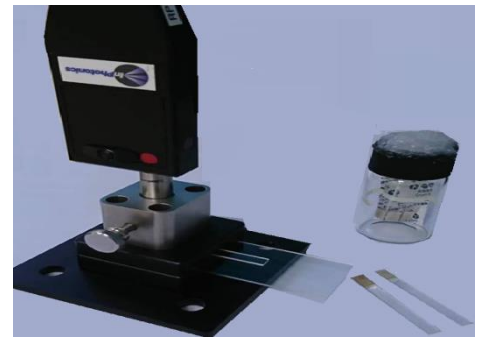
* Sales must be authorized by Labguide .



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 Insight
Unlock the Unknown

雲陽科技有限公司
Labguide Co., Ltd.



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Nano Ag SERS Application Summary

拉曼奈米銀增強 SERS 應用目錄總表

2020/4/8

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 https://www.labguide.com.tw/index.php?route=product/product&product_id=253
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 https://www.labguide.com.tw/index.php?route=product/product&product_id=252
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 https://www.labguide.com.tw/index.php?route=product/product&product_id=225
2	3 min. Cancer/ Stem Cells Detection 人類脂肪間質幹細胞及口腔癌拉曼 https://www.labguide.com.tw/index.php?route=product/product&product_id=636
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 https://www.labguide.com.tw/index.php?route=product/product&product_id=249
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 https://www.labguide.com.tw/index.php?route=product/product&product_id=248
3	Detection of Infectious Bursal Disease, IBD IBD 傳染性華氏囊病快速鑑定(雞腎病) https://www.labguide.com.tw/index.php?route=product/product&product_id=247
4	屏科大林盈宏老師 用我司SERS發表 香蕉黃葉病論文 https://doi.org/10.1371/journal.pone.0230330 https://www.labguide.com.tw/index.php?route=product/product&path=134&product_id=563
Blood Bacterial Detection 血液細菌檢測	
1	Detection of E. Coli infected Human blood samples. 人類血液感染大腸桿菌快速鑑定 https://www.labguide.com.tw/index.php?route=product/product&product_id=246
Test paper fast screening method & Raman indicator 拉曼指示劑(NC膜)& 試紙(PVDF)快篩法	
1	SERS in Immuno Electrophoresis Chromatography 拉曼指示劑法 https://www.labguide.com.tw/index.php?route=product/product&product_id=231
2	NC膜拉曼指示劑法 https://www.labguide.com.tw/index.php?route=product/product&product_id=230
Peritoneal dialysis, Urine Bacterial Detection 洗腎,泌尿道炎細菌檢測	
1	CCA International Publication CCA國際論文 https://www.labguide.com.tw/index.php?route=product/product&product_id=329
2	MDPI International Publication MDPI國際論文 https://www.labguide.com.tw/index.php?route=product/product&product_id=315
3	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 https://www.labguide.com.tw/index.php?route=product/product&product_id=319
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 https://www.labguide.com.tw/index.php?route=product/product&product_id=324
5	Detection of Aspergillus flavus and Aflatoxin 黃麴黴菌快速鑑定 https://www.labguide.com.tw/index.php?route=product/product&product_id=245
6	Detection of E. Coli samples from food court. 食品街攤商 腹瀉大腸桿菌檢測 https://www.labguide.com.tw/index.php?route=product/product&product_id=243
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) https://www.labguide.com.tw/index.php?route=product/product&product_id=328
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) https://www.labguide.com.tw/index.php?route=product/product&product_id=324
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 https://www.labguide.com.tw/index.php?route=product/product&product_id=242



Nano Ag SERS Raman Application Summary

拉曼奈米銀增強 SERS 應用目錄總表 2020/4/8

Pesticide Residue Testing on Food & Vegetables 食品蔬菜農藥殘留 (230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 臺灣FDA認證 拉曼農藥殘留檢測法 230種以上農藥圖庫10分鐘定性、定量	https://www.labguide.com.tw/index.php?route=product/product&product_id=228
2	Chlorpyrifos Residue on Vegetables 蔬果農藥殘留 陶斯松5分鐘定性、定量	https://www.labguide.com.tw/index.php?route=product/product&product_id=237
3	Chlorpyrifos Residue in Fruit Juice 果汁殘留陶斯松	https://www.labguide.com.tw/index.php?route=product/product&product_id=239
4	5 min Raman Rapid Detection of Penconazole 農藥殘留 戊菌唑 5分鐘定性、定量	https://www.labguide.com.tw/index.php?route=product/product&product_id=234
5	5 min Raman Rapid Detection of Thiram 農藥殘留福美雙五分鐘定性、定量	https://www.labguide.com.tw/index.php?route=product/product&product_id=232
6	5 min Raman Rapid Detection of Zineb 農藥殘留 鋅乃浦五分鐘定性、定量	https://www.labguide.com.tw/index.php?route=product/product&product_id=233

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)	https://www.labguide.com.tw/index.php?route=product/product&product_id=259
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	https://www.labguide.com.tw/index.php?route=product/product&product_id=250
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	https://www.labguide.com.tw/index.php?route=product/product&product_id=260
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	https://www.labguide.com.tw/index.php?route=product/product&product_id=257
5	Detection of illegal Additive of Melamine in Milk 牛奶添加三聚氰胺	https://www.labguide.com.tw/index.php?route=product/product&product_id=261
6	Qualitative Analysis of Industrial Solution 工業生產用溶液定性檢測	https://www.labguide.com.tw/index.php?route=product/product&product_id=256
7	Detection of Pork and Chicken meat 豬肉、雞肉與組合肉檢測	https://www.labguide.com.tw/index.php?route=product/product&product_id=262
8	Raman Rapid Detection of Liquor and Restructured Meat Products 高粱酒 組合肉 非法添加 5分鐘快篩	https://www.labguide.com.tw/index.php?route=product/product&product_id=263



Nano Ag SERS Application Summary

拉曼奈米銀增強 SERS 應用目錄總表 2020/4/8

Drug abuse 尿中毒品		
1	Abuse of Emerging Club Drugs in Hair sample, including Mephedrone、MDPV、4-Methylephedrine、HMPV、Methylone、Amphetamine, Meth-、Methylone、Ketamine、Codeine、and Norketamine. 毛髮中的新興毒品拉曼譜圖與落點分析	https://www.labguide.com.tw/index.php?route=product/product&product_id=266
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	https://www.labguide.com.tw/index.php?route=product/product&product_id=265
Environmental Pollutant 環保類		
1	Detection of environmental Soil Pollutant 環境汙泥 有機物 快篩	https://www.labguide.com.tw/index.php?route=product/product&product_id=267
2	Rhodamine 6G Concentration Test 羅丹明6G測試	https://www.labguide.com.tw/index.php?route=product/product&product_id=255
3	Qualitative Analysis of Plastic Particle Raman Spectroscopy 塑膠微粒拉曼光譜定性分析	https://www.labguide.com.tw/index.php?route=product/product&product_id=227
4	Chlorine dioxide & residual chlorine analyzer 二氧化氯&餘氯分析儀	https://www.labguide.com.tw/index.php?route=product/product&product_id=331
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	https://www.labguide.com.tw/index.php?route=product/product&product_id=264
Material Detection 顯微拉曼材料檢測		
1	Detection of Graphene 石墨烯檢測	https://www.labguide.com.tw/index.php?route=product/product&product_id=564
2	Detection of Hydrogen peroxide 雙氧水檢測	https://www.labguide.com.tw/index.php?route=product/product&product_id=256
Nano Ag Technology 奈米銀技術平臺		
1	Raman SERS Substrates (中興大學 技轉)	https://www.labguide.com.tw/index.php?route=product/product&product_id=269
2	Micro Raman Spectroscopy (顯微拉曼)	https://www.labguide.com.tw/index.php?route=product/product&path=140&product_id=216

