

WE'RE HERE TO HELP!



Osaka Soda

立行科技總代理

層析管柱代理
實驗諮詢服務

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**好友
募集中**

@analab

請輸入LINE ID，點選「加好友」
並搜尋「立行科技」即可添加



OSAKA SODA公司在過往超過**30**年致力於研究及製造**HPLC**管柱專用的**silica**填充材並在**2017**年底將**SHISEIDO**(資深堂) 的**CAPCELL PAK & CAPCELL CORE**系列管柱併入其旗下品牌。結合過往填充材的合成經驗,以及**SHISEIDO**的管柱研發技術,**OSAKA SODA**會是您管柱的首選。

Osaka Soda's

Research and Development/Production Network



Osaka Soda Co., Ltd.
Comprehensive Research and Development Center

Amagasaki City, Hyogo Prefecture

The center performs research and development of silica gel for HPLC. In addition to basic research and new product development, the center also conducts technical studies, such as scale-up studies, in cooperation with the manufacturing plant since the center is situated next to the plant.



Sanyo Fine Co., Ltd.

Kyoto City

Manufactures HPLC equipment and columns. The company has acquired ISO 9001 international standard certification. The application laboratory also acquires various application data, and evaluates the performance of new products.



Osaka Soda Co., Ltd.
Amagasaki Plant

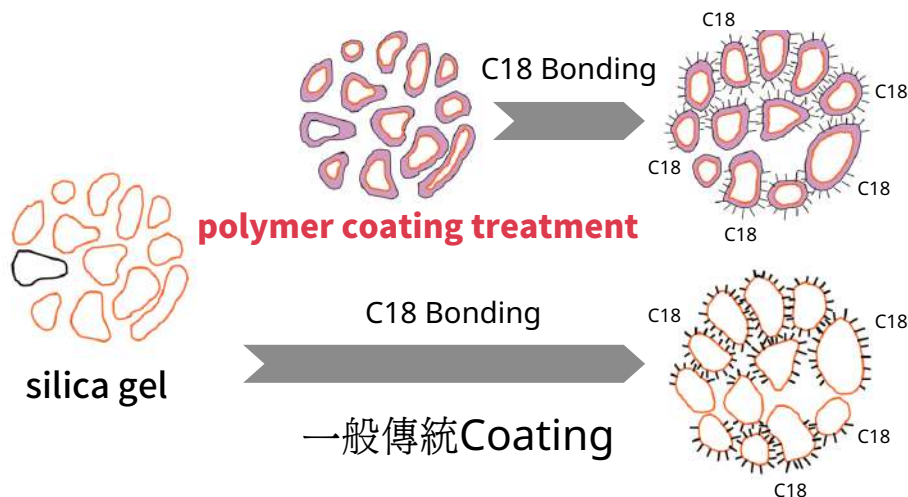
Amagasaki City, Hyogo Prefecture

Silica gel manufacturing plant for column packing material. Products are manufactured and controlled with the quality management system ISO 9001 based on the International Organization for Standardization (ISO). Modified silica gel is produced using GMP (Good Manufacturing Practice) compliant processes and quality control systems.

* SPECIAL TECHNICAL.

CAPCELL PAK

***OSAKA SODA**的獨特技術,在**Silica**的外層包覆一層**Polymer**材料,結合兩者的優勢創造出性能更強大的管柱系列**CAPCELL PAK**。



Features of Polymer Coated Packing Materials

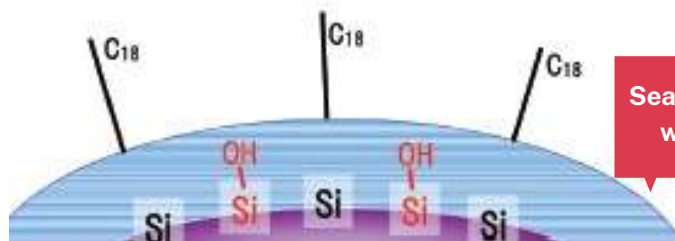
Common silica gel-based packing material

- Peak is sharp
- Excellent pressure resistance
- Usable pH range is acidic to neutral (pH = 2 to 7)
- Negative effect of silanol and metal impurities

*大幅抑制矽醇基(**SI-OH**)的干擾減少拖尾的情況發生。

Polymer-coated silica gel-based packing material

- Peak is sharp
- Excellent pressure resistance
- Usable pH range is acidic to alkaline (pH = 1 to 10*)
- * There are slight variations depending on the type of column.
- Impact of silanols and metal impurities are kept to a minimum
- The retention characteristics of the packing material can be controlled with the type of polymer coat and synthesis method

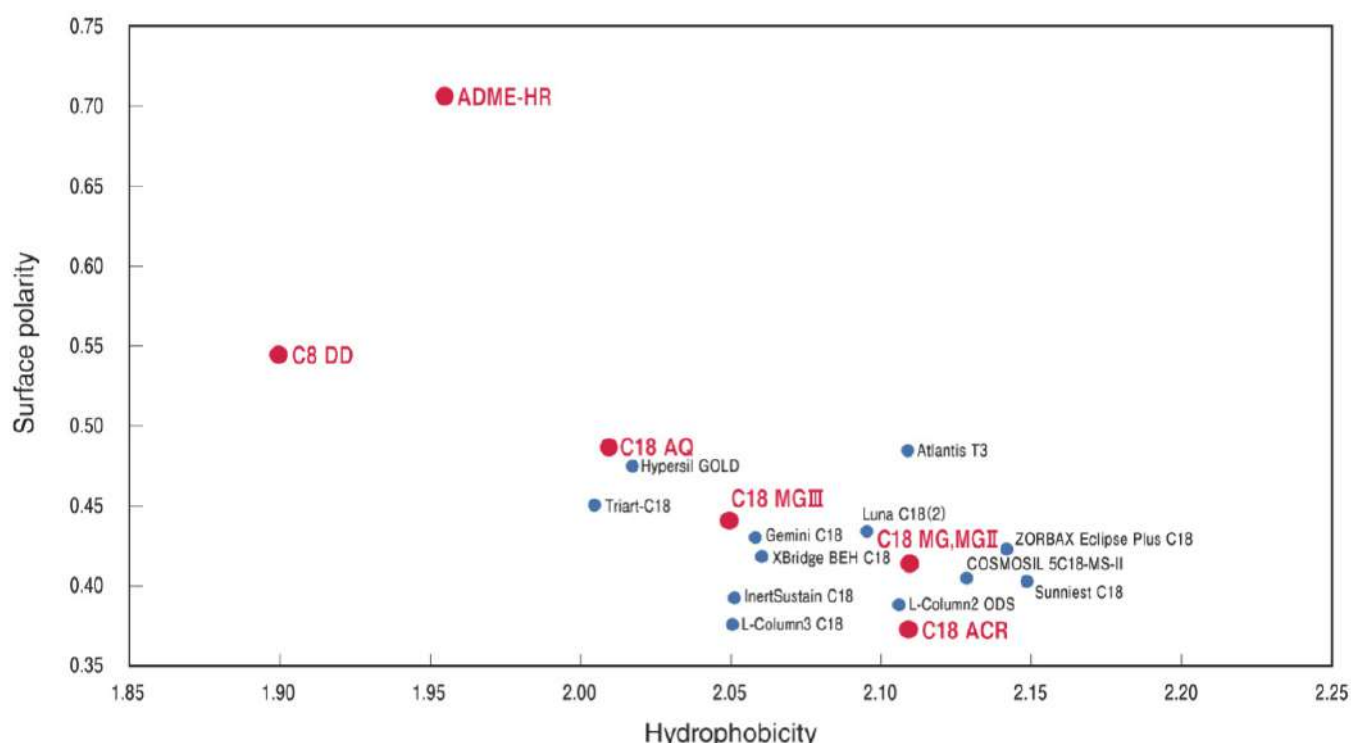


Sealing of silanol groups with polymer coat !

* COLUMN SELECTION

CAPCELL PAK C18 MG	泛用性管柱,且能分析含螯合化合物的樣品
CAPCELL PAK C18 MG II	Osaka Soda C18管柱的第一選擇,泛用性佳,適合任何分析
CAPCELL PAK C18 MG III	LC-MS C18管柱的第一選擇,泛用性及再現性佳
CAPCELL PAK C18 AQ	能使用100%純水相,適用於較極性的樣品
CAPCELL PAK C18 ACR	有最好的酸耐受性,且對於平面結構異構物有良好的分離效果
CAPCELL PAK C8 DD	對於極性化合物有最好的滯留能力,適合分析高極性樣品
Protonavi (C4)	300Å大孔徑管柱,用於分析蛋白質,胜肽
CAPCELL PAK ADME-HR	獨特金剛烷基(C12),對於極性化合物有很好的分離能力
CAPCELL PAK NH2 UG80	弱陰離子交換及HILIC兩種混合之分離模式
CAPCELL PAK SCX UG80	強陽離子及疏水作用力兩種混合之分離模式
PC PAK CR	強離子交換以及C18兩種混合之分離模式
PC HILIC	特有HILIC材料具有良好的親水效果

* 疏水作用力及表面極性比較表 (逆相管柱)



* POWERFUL DATA BASE

產品訊息 Product News

液相層析管柱

其他各式廠牌管柱

Bio-Works

Concise (原

Transgenomic)

Dikma

Daicel

Dr. Maisch

Hichrom

Jordi

OSAKA SODA (原



OSAKA SODA公司在2017年底將 SHISEIDO 的CAPCELL PAK & CAPCELL CORE系列管柱併入其旗下品牌，自2018年起，品牌名稱更改為OSAKA SODA，立行科技有幸於2019年成為台灣區總代理，詳情請洽 OSAKA SODA 網站，並參閱應用資料和用途。

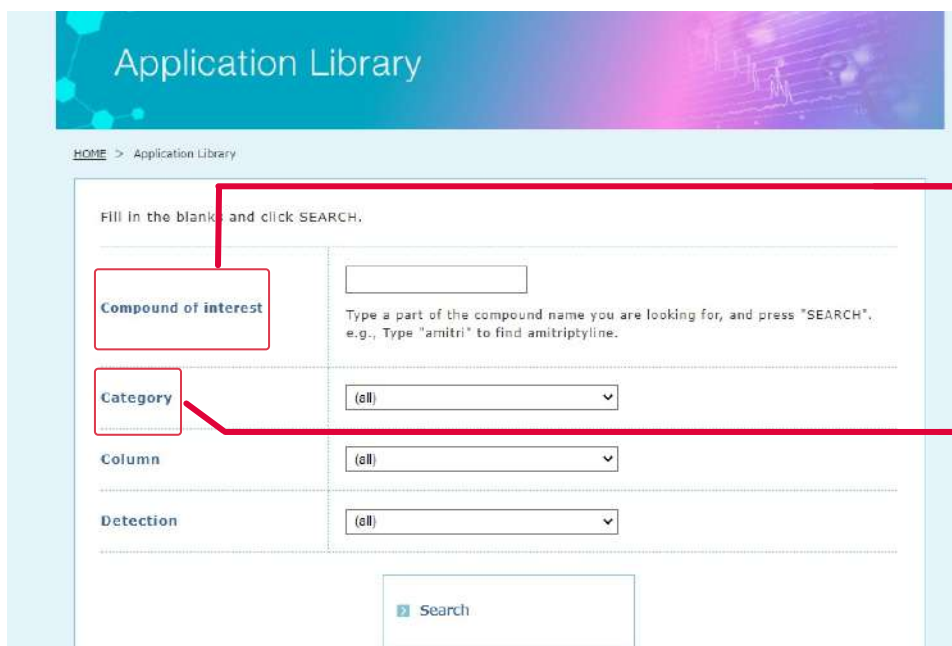
OSAKA SODA網站

OSAKA SODA應用資料庫

OSAKA SODA (原SHISEIDO)



*利用立行科技官網(<http://www.analab.com.tw/>)在液相層析管柱的分類中找到 OSAKA SODA,並由此進入應用資料庫



Application Library

HOME > Application Library

Fill in the blank and click SEARCH.

Compound of interest

Type a part of the compound name you are looking for, and press "SEARCH".
e.g., Type "amitri" to find amitriptyline.

Category

Column

Detection

利用化合物名稱搜尋

利用不同產業別做搜尋

*提供全面的分析圖譜

*CAPCELL PAK MG II C18 COLUMN

使用高純度矽膠做為基材,並使用特有的**ULTIMATE POLYMER COATING**技術,大幅度降低矽醇基的干擾,減少在中性環境下分析鹼性化合物常發生的拖尾現象,除此之外本身優越的分離能力是您C18管柱的第一選擇。

Functional group	Pore size (A)	Particle size (um)	Surface Area (m2/g)	Carbon loading (%)	Pressure resistance (Mpa)	pH range	USP class No.
C18 (octadecyl)	100	3	300	16	20	2-10	L1
C18 (octadecyl)	100	5	300	16	20	2-10	L1

*FEATURE

1.適合在中性環境下分離鹼性化合物

2.良好的泛用性

3.卓越的批次間重複性

4.高水準的耐鹼性

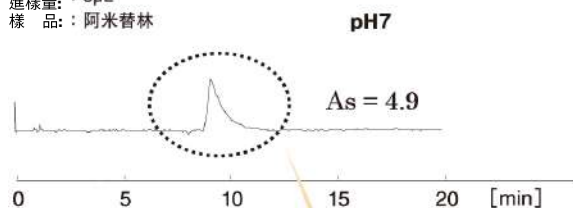
5.最好的避免矽醇基的干擾



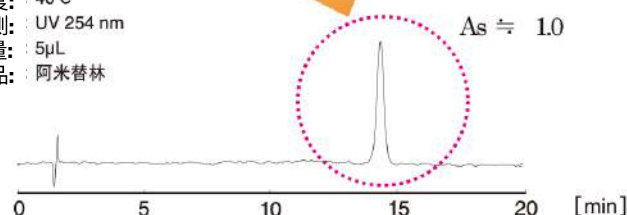
拖尾因子的比較

色譜柱: CAPCELL PAK C₁₈ MG II S
: 4.6 mm i.d. × 150 mm
CH₃OH / 20 mmol / L
移動相: Phosphate buffer = 75 / 25
流 速: 1.0 mL / min
溫 度: 40°C
檢 測: UV 254 nm
進樣量: 5μL
樣 品: 阿米替林 (50ppm)

色譜柱: 一般ODS S5 : 4.6 mm i.d. × 150 mm
: 20 mmol / L Phosphate buffer (pH7) / CH₃CN = 40 / 60
移動相: 1.0 mL / min
流 速: 30°C
溫 度: UV 254 nm
檢 測: 5μL
樣 品: 阿米替林



色譜柱: CAPCELL PAK C₁₈ MG II S5
: 4.6 mm i.d. × 150 mm
CH₃OH / 20 mmol / L
移動相: Phosphate buffer = 75 / 25
流 速: 1.0 mL / min
溫 度: 40°C
檢 測: UV 254 nm
進樣量: 5μL
樣 品: 阿米替林

卡賽帕克C₁₈MGII可以分析

*CAPCELL PAK ADME-HR COLUMN

ADME-HR 管柱為OSAKA SODA 獨有的合成技術, C12構造的籠狀結構, 以及高極性的表面親和力, 並能承受100%純水相的環境相較一般逆相管柱它能提供給您更多意想不到的分析效果

Functional group	Pore size (A)	Particle size (um)	Surface Area (m2/g)	Carbon loadong (%)	Pressure resistance (Mpa)	pH range	USP class No.
C12 (Adamantyl)	100	2	310	12	20	2-9	-
C12 (Adamantly)	100	3	310	12	20	2-9	-
C12 (Adamantly)	100	5	310	12	20	2-9	-

*FEATURE

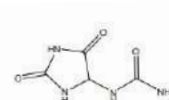
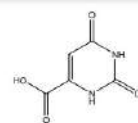
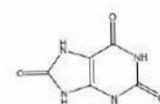
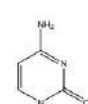
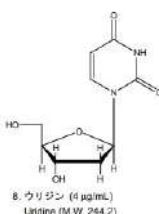
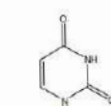
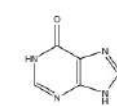
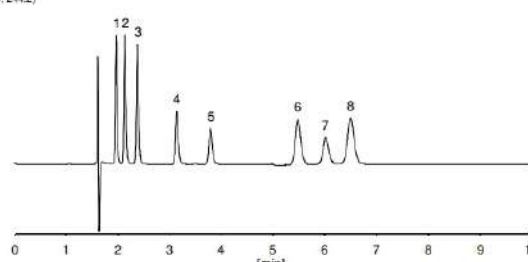
1. 同分異構體的分析

2. 在分析高極性代謝體有很好的效果

3. 高極性親和力

4. 最高耐溫可達70°C

5. 能承受100%純水相

1. アラントイン (70 µg/mL)
Alarabion (M.W. 158.1)2. オロト酸 (20 µg/mL)
Orotic acid (M.W. 156.1)3. 尿酸 (20 µg/mL)
Uric acid (M.W. 80.1)4. シトシン (15 µg/mL)
Cytosine (M.W. 111.1)7. グアニン (10 µg/mL)
Guanine (M.W. 151.1)5. ウラシル (10 µg/mL)
Uracil (M.W. 112.1)6. ヒポキサンチン (20 µg/mL)
Hypoxanthine (M.W. 136.1)8. ウリジン (4 µg/mL)
Uridine (M.W. 244.2)

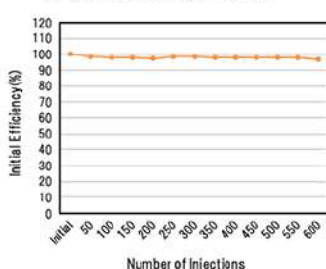
【HPLC Conditions】

Column : CAPCELL PAK ADME-HR S5 ; 4.6 mm i.d. x 1!
 Mobile phase : 10 mmol/L HCOONH₄
 Flow rate : 1000 µL/min
 Temperature : 40 °C
 Detection : UV 210 nm
 Inj. vol. : 5 µL
 Sample dissolved in : Mobile phase

30 : 1 (vol.) = 1 (min)

Results after 600 consecutive injections

Variation of Efficiency of Thymine



純水相下進様 600 次後, 効率也非常穩定。