快速简便的方法开发

## 为加速和简化方法开发，Kromasil 已经克服了关于多糖涂层的一些限制。在分析色谱领域，采用粒径3 μm 的手性填料，以及产品本身较高的耐受能力，可大大提高分离结果。

良好的分析结果 节约时间

### Kromasil AmyCoat 和 CelluCoat 对许多外消旋体显示出优异的对映选择性。

对于分析色谱，3 μm 粒径填料的色谱柱具有更高的塔板数和分离度，再结合出色的选择性，非常适合分离手性异构体。

选择性和分离度比较

—Kromasil AmyCoat 3 μm vs. AD-H (5 μm)

#### Kromasil AmyCoat,3 µm

 = 1.5

Rs =7.3

使 用 Kromasil AmyCoat 和 CelluCoat， 用 户 可以得到更好的分析结果，得益于较高的耐压上限， 可以在高流速下运行并节约时间。

Competitor, 5 µm

 = 1.5

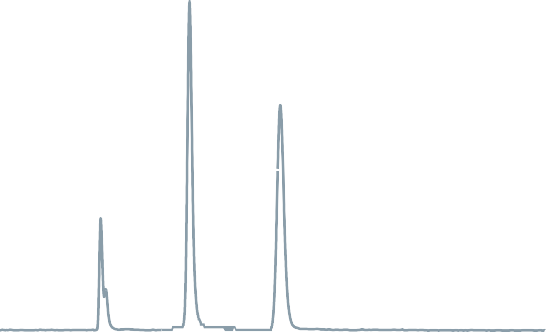
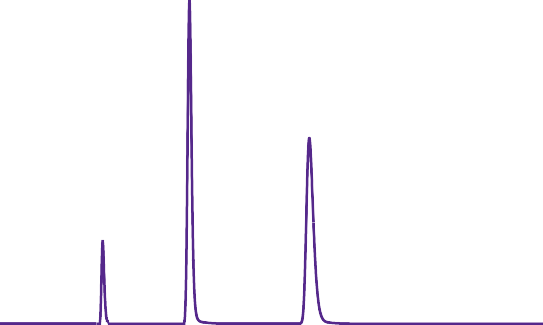
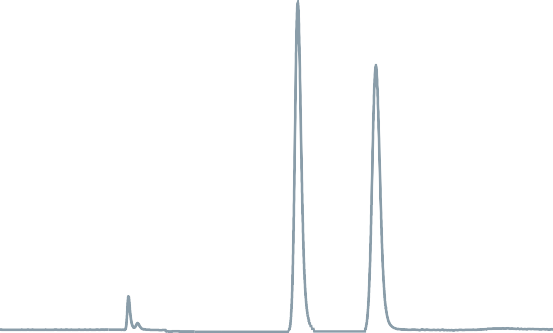
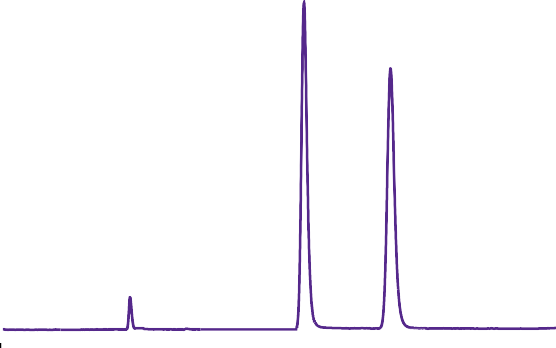
Rs = 5.8

0 5 10

[min] 15

0 5 10

[min] 15



Competitor 5 µm

8.3

5.7

11.0

2.7

15.1

2.2

3.2

Competitor 5 µm

2.0

1.5

2.9

1.4

5.5

1.2

2.0

trans-Stilbeneoxide Benzoin

TFAE

Trögersbase Oxprenolol Naproxen

Proglumide

Rs



10

[min]

5

0

10

[min]

5

Competitor, 5 μm

 = 2.0

Rs = 8.3

0

—Kromasil CelluCoat 3 μm vs. OD-H (5 μm)

Kromasil CelluCoat, 3 μm

 = 2.3

Rs = 13

选择性和分离度比较

CelluCoat 3 µm

11.5

6.5

11.6

3.2

14.7

2.6

4.7

CelluCoat 3 µm

2.4

1.5

2.9

1.4

5.6

1.2

1.8

Temperature: 25 °C

Detection: UV@ 229 nm

Flow rate:1 ml/min

Solute: trans-stilbene oxide

Conditions

Column size: 4.6× 150 mm

Mobile phase: heptane / 2-propanol (90/10)

Temperature: 22 °C

Detection: UV@ 226 nm

Conditions

Column size: 4.6× 150 mm Flow rate: 0.5 ml/min

Mobile phase : heptane/ 2-propanol / DEA (90/10/0.1) Solute: Carbinoxamine

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | Rs |  |
| AmyCoat 3 µm |  | Competitor 5 µm | AmyCoat 3 µm |  | Competitor 5 µm |
| ambucetamide | 1.4 |  | 1.4 | 4.8 |  | 4.2 |
| carbinoxamine | 1.5 |  | 1.5 | 7.3 |  | 5.8 |
| ketoprofen | 1.4 |  | 1.3 | 4.6 |  | 4.3 |
| naproxen | 1.2 |  | 1.2 | 3.4 |  | 3.1 |
| oxamniquine | 1.2 |  | 1.2 | 3.3 |  | 3.1 |
| proglumide | 2.7 |  | 2.8 | 11.8 |  | 9.0 |
| sulindac | 1.3 |  | 1.3 | 4.8 |  | 3.9 |



稳定均一的性能更容易进行放大制备

色谱柱可保持完全一致的选择性。使用 Kromasil 分析柱可以放大到 10 μm 的制备柱上。如果最终

使用 Kromasil 3 μm 到 25 μm 粒径同种键合相 品，都可以由分析直接放大到制备，例如 3 μm 的

到制备的放大。实际上使用 Kromasil 任何一款产 直接采用 10 μm 粒径的色谱柱。

轻松放大

 = 2.4

Rs= 10

 = 2.4

Rs= 11

 = 2.4

AmyCoat 和 CelluCoat 色谱柱可轻松实现从分析 的目的是为了放大到制备，开始开发方法也可以

**10** µm

Rs= 14

**5** µm

**3** µm

0

5

10

[min]

15

**Kromasil AmyCoat**

analytical

α = 1.4

Rs= 2.6

prep

α = 1.3

Rs= 2.4

0

10 [min] 20 0

10 [min] 20

**Kromasil CelluCoat**

analytical

prep

α = 2.9

Rs= 9.9

α = 3.0

Rs= 7.9

0 5 10 15 20 25 [min]35 0 5 10 15 20 25 [min]35

DAC system: NovaSep Pack-n-Sep, 50 mm i.d.

Bed length : 132 mm Flow rate: 60 ml/min

Part number: C10CCA15

Detection: UV@ 254 nm

Temperature: 20 °C Analytical conditions Column size : 4.6× 150 mm Flow rate: 0.5 ml/min

Prep conditions

Conditions Stationary phase

Mobile phase : heptane/2-propanol (90/10)

Solute : trifluoro-anthrylethanol

DAC system: NovaSep Pack-n-Sep, 50 mm i.d.

Bed length: 135 mm Flow rate: 60 ml/min

Part number: C10ACA15

Detection: UV@ 254 nm

Temperature: 20 °C Analytical conditions Column size: 4.6× 150 mm Flow rate: 0.5 ml/min

Prep conditions

Conditions Stationary phase

Mobile phase: heptane/2-propanol (90/10)

Solute: trifluoro-anthrylethanol

Conditions

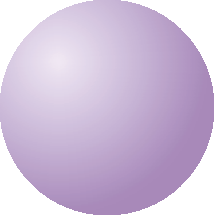
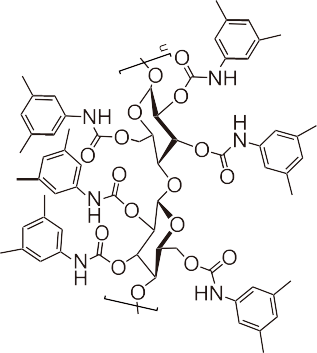
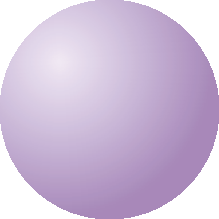
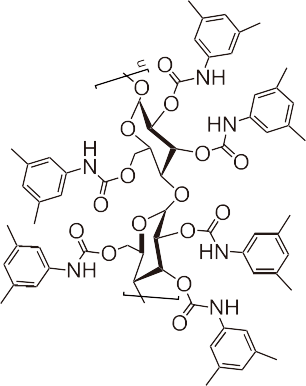
Columns: Kromasil dp CelluCoat, 4.6 × 150 mm, where dp= 3, 5 and 10 µm, respectively

Part numbers: C03CCA15, C05CCA15 and C10CCA15

Mobile phase: heptane/ 2-propanol (90/10)

Solute: trans-stilbene oxide Flow rate: 0.5 ml/min

Temperature: 25 °C Detection: UV@ 229 nm



产品参数

固定相 : 纤维素 - 三 (3,5- 二甲基苯

基氨基甲酸酯 )

*tris-(3.5-dimethylphenyl)carbamoyl cellulose*

Packed density: 0.58 g/ml

Mechanical stability: allows packing at up to 700 bar (1 000 psi)

**Kromasil CelluCoat and CelluCoat RP**

Coated selector: tris-(3.5-dimethylphenyl) carbamoyl cellulose.

Particle sizes: 3, 5, 10 and 25 μm

固定相 : 直链淀粉 - 三 (3,5- 二甲基

苯基氨基甲酸酯 )

*tris-(3.5-dimethylphenyl)carbamoylamylose*

Packed density: 0.58 g/ml

Mechanical stability: allows packing at up to 700 bar (1 000 psi)

**Kromasil AmyCoat and AmyCoat RP**

Coated selector: tris-(3.5-dimethylphenyl) carbamoyl amylose.

Particle sizes: 3, 5, 10 and 25 μm

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Back-pressure increase [%]