

# Taking reversed phase chiral separations to a new level –

# Kromasil® AmyCoat™ RP

Developed to give you the choice to run chiral separations under reversed phase conditions. Kromasil AmyCoat RP is based on the same in-house developed silica matrix and the same selector, tris-[3,5-dimethylphenyl] carbamoyl amylose as Kromasil AmyCoat. Kromasil AmyCoat RP stretches the wide range of this powerful selector even further, enjoying the high efficiency and resolution of the unique 3 µm particles.

## Extend your action range

### Conditions:

Solute: 2-Phenyl-2-butanol

Column size: 4.6 × 150 mm

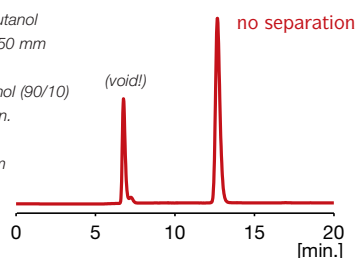
Mobile phase:

Heptane/2-Propanol (90/10)

Flow rate: 0.25 ml/min.

Temperature: 22°C

Detection: UV 210 nm



Kromasil 3-AmyCoat

### Conditions:

Solute: 2-Phenyl-2-butanol

Column size: 4.6 × 150 mm

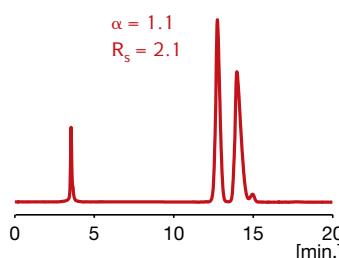
Mobile phase:

Acetonitrile/Water (40/60)

Flow rate: 0.5 ml/min.

Temperature: 22°C

Detection: UV 254 nm



Kromasil 3-AmyCoat RP

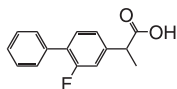
## Recommended mobile phases for Kromasil AmyCoat RP

| Type of compound | Aqueous solution   | Organic modifier                            | Org. modifier part range | Temperature range |
|------------------|--|---|--------------------------|-------------------|
| Acidic           | <ul style="list-style-type: none"> <li>– 50 mM Phosphate buffer, pH 2.0</li> <li>– Phosphoric acid, aqueous solution, pH 2.0</li> <li>– 100 mM Aqueous hexafluorophosphate solution, pH 2.0</li> <li>– 0.1% Acetic acid</li> </ul> | Acetonitrile, methanol, ethanol, 2-propanol | 10 – 85%                 | 5 – 40°C          |
| Neutral          | <ul style="list-style-type: none"> <li>– Water</li> <li>– 100 mM Aqueous hexafluorophosphate solution</li> </ul>   | Acetonitrile, methanol, ethanol, 2-propanol | 10 – 100%                | 5 – 40°C          |
| Basic            | <ul style="list-style-type: none"> <li>– 20 mM Borate buffer, pH 9.0</li> <li>– 20 mM Phosphate buffer, pH 8.0</li> <li>– 100 mM Aqueous hexafluorophosphate solution</li> </ul>   | Acetonitrile, methanol, ethanol, 2-propanol | 10 – 85%                 | 5 – 25°C          |

Kromasil AmyCoat RP can withstand flow rates equivalent to pressures of up to 400 bar – i.e. the approximate limit for most HPLC systems.

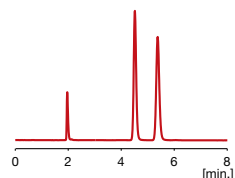
# Kromasil AmyCoat RP Applications

## Flurbiprofen



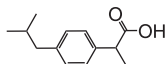
### Conditions:

Stationary phase: Kromasil AmyCoat RP, 3  $\mu$ m  
 Column: 4.6  $\times$  150 mm  
 Mobile phase: Acetonitrile/Water 20 mM Phosphate buffer, pH 2 (50/50)  
 Flow rate: 1 ml/min  
 Temperature: 22°C  
 Detection: UV 238 nm



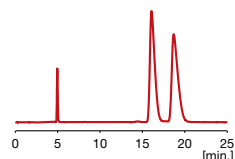
$k'_1$  1.30  
 $k'_2$  1.73  
 $N_1$  75600  
 $N_2$  68100  
 $\alpha$  1.3  
 $R_s$  4.5

## Ibuprofen



### Conditions:

Stationary phase: Kromasil AmyCoat RP, 3  $\mu$ m  
 Column: 4.6  $\times$  150 mm  
 Mobile phase: Methanol/Water/Acetic acid (70/30/0.1)  
 Flow rate: 0.5 ml/min  
 Temperature: 22°C  
 Detection: UV 236 nm



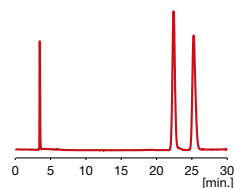
$k'_1$  2.24  
 $k'_2$  2.77  
 $N_1$  25500  
 $N_2$  21400  
 $\alpha$  1.2  
 $R_s$  2.2

## 2-Methyl-1-tetralone



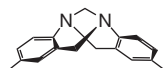
### Conditions:

Stationary phase: Kromasil AmyCoat RP, 3  $\mu$ m  
 Column: 4.6  $\times$  150 mm  
 Mobile phase: Acetonitrile/Water (50/50)  
 Flow rate: 0.5 ml/min  
 Temperature: 22°C  
 Detection: UV 245 nm



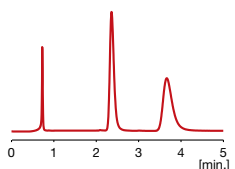
$k'_1$  5.47  
 $k'_2$  6.28  
 $N_1$  18100  
 $N_2$  15700  
 $\alpha$  1.2  
 $R_s$  3.9

## Tröger's base



### Conditions:

Stationary phase: Kromasil AmyCoat RP, 3  $\mu$ m  
 Column: 4.6  $\times$  150 mm  
 Mobile phase: Acetonitrile/Water (50/50)  
 Flow rate: 2.5 ml/min  
 Temperature: 25°C  
 Detection: UV 240 nm



$k'_1$  2.25  
 $k'_2$  4.04  
 $N_1$  19300  
 $N_2$  9200  
 $\alpha$  1.8  
 $R_s$  4.6

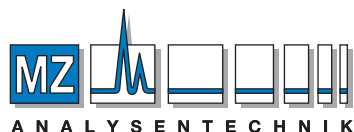
## Availability

Kromasil AmyCoat RP is available in 3  $\mu$ m as pre-packed columns. The standard dimensions are 4.6  $\times$  50 mm and 4.6  $\times$  150 mm. Other column dimensions are available upon request.

## Product codes

Kromasil 3-AmyCoat RP 4.6  $\times$  50 mm

Kromasil 3-AmyCoat RP 4.6  $\times$  150 mm



### AUTHORIZED DISTRIBUTOR

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