

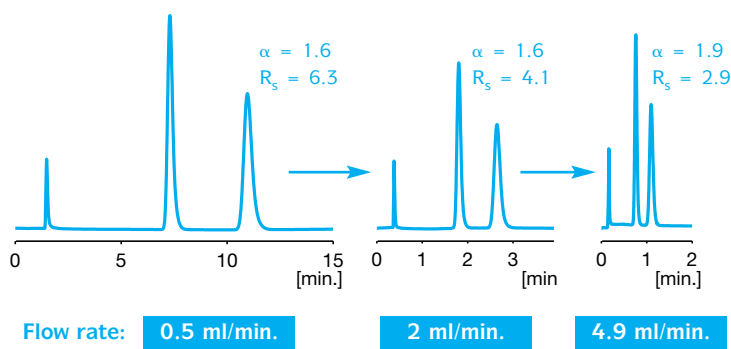


# Taking reversed phase chiral separations to a new level –

## Kromasil® CelluCoat™ RP

Designed to give you a highly efficient chiral stationary phase for reversed phase chiral chromatography. No pressure limits\* and the unique 3  $\mu\text{m}$  particles enable fast, efficient and high resolution analyses. Kromasil CelluCoat RP is based on the same in-house developed silica matrix and the same selector, tris-[3,5-dimethylphenyl] carbamoyl cellulose as Kromasil CelluCoat.

### Faster baseline separations



#### Common conditions:

Solute: Warfarin  
 Mobile phase: Acetonitrile/Water, 100 mM phosphoric acid (40/60)  
 Stationary phase: Kromasil CelluCoat RP, 3  $\mu\text{m}$   
 Column size: 4.6  $\times$  50 mm  
 Temperature: 22°C  
 Detection: UV 215 nm

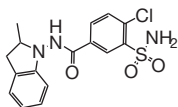
### Recommended mobile phases for Kromasil CelluCoat RP

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

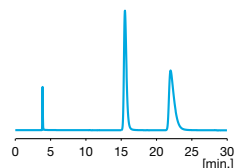
# Kromasil CelluCoat RP Applications

## Indapamide



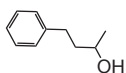
### Conditions:

Stationary phase: Kromasil CelluCoat RP, 3  $\mu$ m  
 Column: 4.6  $\times$  150 mm  
 Mobile phase: Acetonitrile/Water (40/60)  
 Flow rate: 0.5 ml/min  
 Temperature: 22°C  
 Detection: UV 254 nm



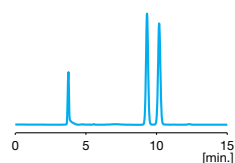
$k'_1$  3.02  
 $k'_2$  4.69  
 $N_1$  58900  
 $N_2$  30900  
 $\alpha$  1.6  
 $R_s$  6.6

## 4-Phenyl-2-butanol



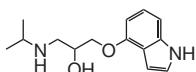
### Conditions:

Stationary phase: Kromasil CelluCoat RP, 3  $\mu$ m  
 Column: 4.6  $\times$  150 mm  
 Mobile phase: Acetonitrile/Water (40/60)  
 Flow rate: 0.5 ml/min  
 Temperature: 22°C  
 Detection: UV 220 nm



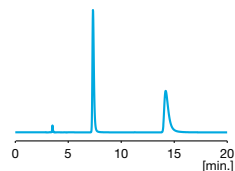
$k'_1$  1.48  
 $k'_2$  1.71  
 $N_1$  105900  
 $N_2$  104400  
 $\alpha$  1.2  
 $R_s$  2.8

## Pindolol



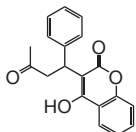
### Conditions:

Stationary phase: Kromasil CelluCoat RP, 3  $\mu$ m  
 Column: 4.6  $\times$  150 mm  
 Mobile phase: Acetonitrile/Water, 50 mM sodium borate (40/60)  
 Flow rate: 0.5 ml/min  
 Temperature: 22°C  
 Detection: UV 254 nm



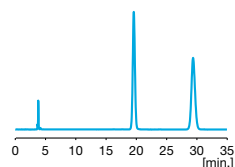
$k'_1$  1.09  
 $k'_2$  3.04  
 $N_1$  88800  
 $N_2$  42200  
 $\alpha$  2.8  
 $R_s$  14.2

## Warfarin



### Conditions:

Stationary phase: Kromasil CelluCoat RP, 3  $\mu$ m  
 Column: 4.6  $\times$  150 mm  
 Mobile phase: Acetonitrile/Water, 100 mM phosphoric acid (40/60)  
 Flow rate: 0.5 ml/min  
 Temperature: 22°C  
 Detection: UV 254 nm



$k'_1$  4.15  
 $k'_2$  6.72  
 $N_1$  92700  
 $N_2$  77400  
 $\alpha$  1.6  
 $R_s$  11.2

## Availability

Kromasil CelluCoat 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-CelluCoat RP 4.6 x 50 mm  
 Kromasil 3-CelluCoat RP 4.6 x 150 mm

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