

*Application guide*

*Kromasil® AmyCoat™*

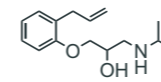
*Kromasil® CelluCoat™*



# HPLC Applications

Kromasil AmyCoat and Kromasil CelluCoat show a very high selectivity for a wide variety of racemates. In order to support that statement the Kromasil application lab have run acidic, neutral and basic compounds under normal phase HPLC and SFC mode.

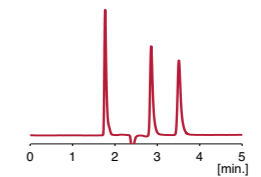
## Alprenolol



### Conditions:

#### AmyCoat

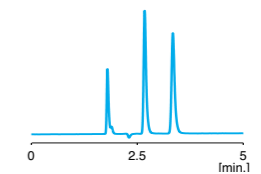
Stationary phase: Kromasil AmyCoat, 3  $\mu$ m  
 Column: 4.6 x 150 mm  
 Mobile phase: Heptane/Ethanol/DEA (90/10/0.1)  
 Flow rate: 1 ml/min  
 Temperature: 22  $^{\circ}$ C  
 Detection: UV 220 nm



$k'_1$  0.61  
 $k'_2$  0.98  
 $N_1$  69200  
 $N_2$  72600  
 $\alpha$  1.6  
 $R_S$  5.3

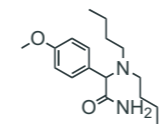
#### CelluCoat

Stationary phase: Kromasil CelluCoat, 3  $\mu$ m  
 Column: 4.6 x 150 mm  
 Mobile phase: Heptane/Ethanol/DEA (90/10/0.1)  
 Flow rate: 1 ml/min  
 Temperature: 22  $^{\circ}$ C  
 Detection: UV 220 nm



$k'_1$  0.49  
 $k'_2$  0.86  
 $N_1$  69900  
 $N_2$  71100  
 $\alpha$  1.8  
 $R_S$  5.7

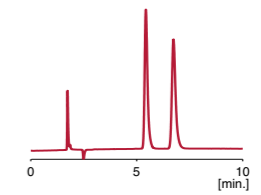
## Ambucetamide



### Conditions:

#### AmyCoat

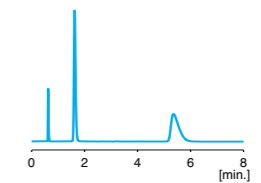
Stationary phase: Kromasil AmyCoat, 3  $\mu$ m  
 Column: 4.6 x 150 mm  
 Mobile phase: Heptane/2-Propanol/DEA (90/10/0.1)  
 Flow rate: 1 ml/min  
 Temperature: 22  $^{\circ}$ C  
 Detection: UV 229 nm



$k'_1$  2.13  
 $k'_2$  2.88  
 $N_1$  54200  
 $N_2$  50800  
 $\alpha$  1.4  
 $R_S$  4.8

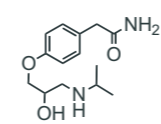
#### CelluCoat

Stationary phase: Kromasil CelluCoat, 3  $\mu$ m  
 Column: 4.6 x 150 mm  
 Mobile phase: Heptane/2-Propanol/DEA (90/10/0.1)  
 Flow rate: 3 ml/min  
 Temperature: 22  $^{\circ}$ C  
 Detection: UV 229 nm



$k'_1$  1.60  
 $k'_2$  7.57  
 $N_1$  22300  
 $N_2$  10500  
 $\alpha$  4.7  
 $R_S$  11.5

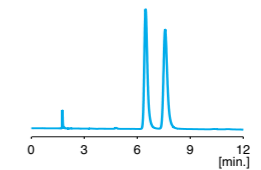
## Atenolol



### Conditions:

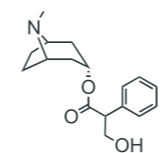
#### CelluCoat

Stationary phase: Kromasil CelluCoat, 3  $\mu$ m  
 Column: 4.6 x 150 mm  
 Mobile phase: Heptane/Ethanol/DEA (80/20/0.1)  
 Flow rate: 1 ml/min  
 Temperature: 22  $^{\circ}$ C  
 Detection: UV 227 nm



$k'_1$  2.67  
 $k'_2$  3.29  
 $N_1$  43900  
 $N_2$  40500  
 $\alpha$  3.1  
 $R_S$  1.2

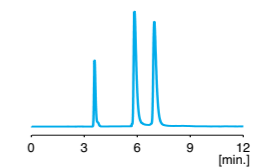
## Atropine



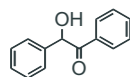
### Conditions:

#### CelluCoat

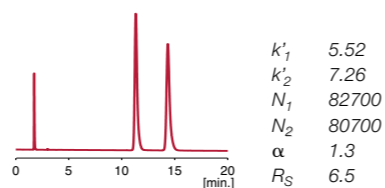
Stationary phase: Kromasil CelluCoat, 3  $\mu$ m  
 Column: 4.6 x 150 mm  
 Mobile phase: Heptane/Ethanol/DEA (80/20/0.1)  
 Flow rate: 0.5 ml/min  
 Temperature: 22  $^{\circ}$ C  
 Detection: UV 215 nm



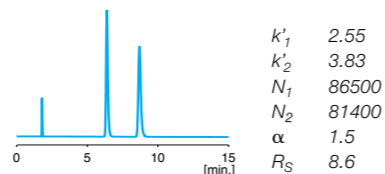
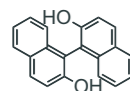
$k'_1$  0.63  
 $k'_2$  0.94  
 $N_1$  47500  
 $N_2$  52200  
 $\alpha$  1.5  
 $R_S$  3.8

**Benzoin****Conditions:****AmyCoat**

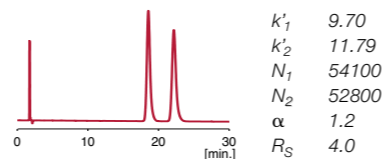
Stationary phase: Kromasil AmyCoat, 3  $\mu$ m  
 Column: 4.6 x 150 mm  
 Mobile phase: Heptane/2-Propanol (90/10)  
 Flow rate: 1 ml/min  
 Temperature: 22 °C  
 Detection: UV 250 nm

**CelluCoat**

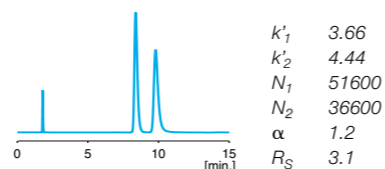
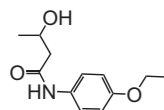
Stationary phase: Kromasil CelluCoat, 3  $\mu$ m  
 Column size: 4.6 x 150 mm  
 Mobile phase: Heptane/2-Propanol (90/10)  
 Flow rate: 1 ml/min  
 Temperature: 22 °C  
 Detection: UV 250 nm

**Binaphthol****Conditions:****AmyCoat**

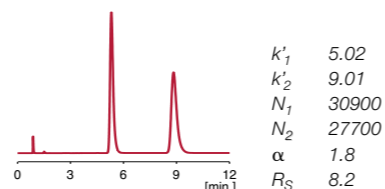
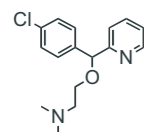
Stationary phase: Kromasil AmyCoat, 3  $\mu$ m  
 Column: 4.6 x 150 mm  
 Mobile phase: Heptane/2-Propanol/TFA (90/10/0.1)  
 Flow rate: 1 ml/min  
 Temperature: 22 °C  
 Detection: UV 226 nm

**CelluCoat**

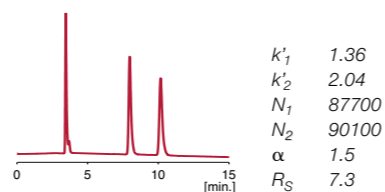
Stationary phase: Kromasil CelluCoat, 3  $\mu$ m  
 Column size: 4.6 x 150 mm  
 Mobile phase: Heptane/2-Propanol (90/10)  
 Flow rate: 1 ml/min  
 Temperature: 22 °C  
 Detection: UV 226 nm

**Bucetin****Conditions:****AmyCoat**

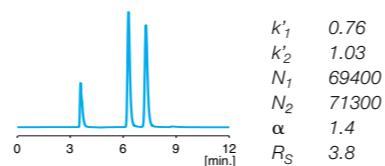
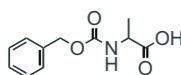
Stationary phase: Kromasil AmyCoat, 3  $\mu$ m  
 Column: 4.6 x 150 mm  
 Mobile phase: Heptane/2-Propanol (90/10)  
 Flow rate: 2 ml/min  
 Temperature: 22 °C  
 Detection: UV 254 nm

**Carbinoxamine****Conditions:****AmyCoat**

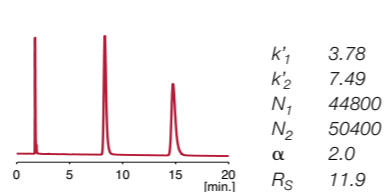
Stationary phase: Kromasil AmyCoat, 3  $\mu$ m  
 Column: 4.6 x 150 mm  
 Mobile phase: Heptane/2-Propanol/DEA (90/10/0.1)  
 Flow rate: 0.5 ml/min  
 Temperature: 22 °C  
 Detection: UV 226 nm

**CelluCoat**

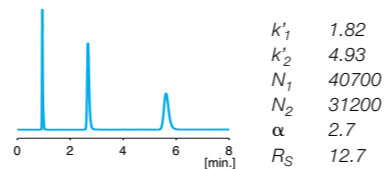
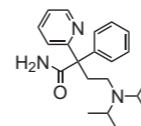
Stationary phase: Kromasil CelluCoat, 3  $\mu$ m  
 Column size: 4.6 x 150 mm  
 Mobile phase: Heptane/2-Propanol/DEA (90/10/0.1)  
 Flow rate: 0.5 ml/min  
 Temperature: 22 °C  
 Detection: UV 229 nm

**CBZ-Alanine****Conditions:****AmyCoat**

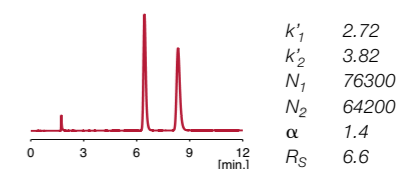
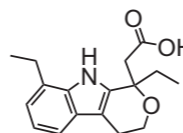
Stationary phase: Kromasil AmyCoat, 3  $\mu$ m  
 Column: 4.6 x 150 mm  
 Mobile phase: Heptane/2-Propanol/TFA (90/10/0.1)  
 Flow rate: 1 ml/min  
 Temperature: 22 °C  
 Detection: UV 215 nm

**CelluCoat**

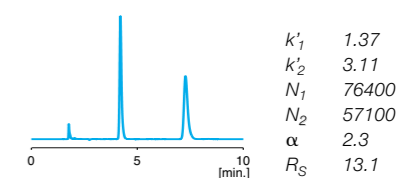
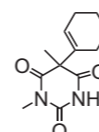
Stationary phase: Kromasil CelluCoat, 3  $\mu$ m  
 Column size: 4.6 x 150 mm  
 Mobile phase: Heptane/2-Propanol/TFA (90/10/0.1)  
 Flow rate: 2 ml/min  
 Temperature: 22 °C  
 Detection: UV 215 nm

**Disopyramide****Conditions:****AmyCoat**

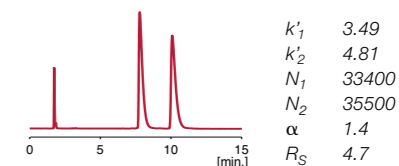
Stationary phase: Kromasil AmyCoat, 3  $\mu$ m  
 Column: 4.6 x 150 mm  
 Mobile phase: Heptane/Ethanol/DEA (97/3/0.1)  
 Flow rate: 1 ml/min  
 Temperature: 25 °C  
 Detection: UV 254 nm

**Etodolac****Conditions:****CelluCoat**

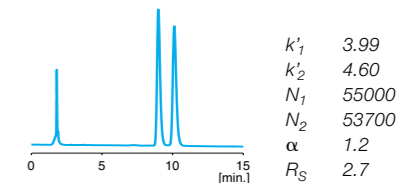
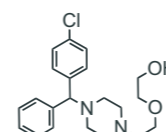
Stationary phase: Kromasil CelluCoat, 3  $\mu$ m  
 Column size: 4.6 x 150 mm  
 Mobile phase: Heptane/Ethanol/TFA (95/5/0.1)  
 Flow rate: 1 ml/min  
 Temperature: 25 °C  
 Detection: UV 254 nm

**Hexobarbital****Conditions:****AmyCoat**

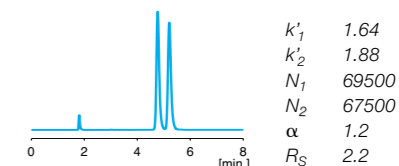
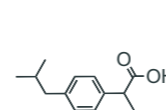
Stationary phase: Kromasil AmyCoat, 3  $\mu$ m  
 Column: 4.6 x 150 mm  
 Mobile phase: Heptane/2-Propanol (90/10)  
 Flow rate: 1 ml/min  
 Temperature: 22 °C  
 Detection: UV 230 nm

**CelluCoat**

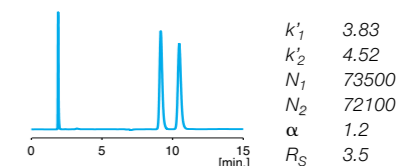
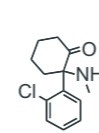
Stationary phase: Kromasil CelluCoat, 3  $\mu$ m  
 Column: 4.6 x 150 mm  
 Mobile phase: Heptane/2-Propanol (90/10)  
 Flow rate: 1 ml/min  
 Temperature: 22 °C  
 Detection: UV 230 nm

**Hydroxyzine****Conditions:****CelluCoat**

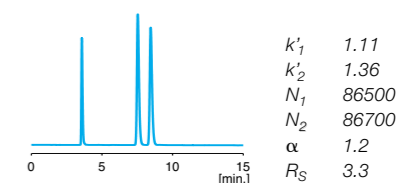
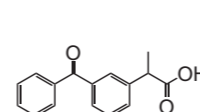
Stationary phase: Kromasil CelluCoat, 3  $\mu$ m  
 Column size: 4.6 x 150 mm  
 Mobile phase: Heptane/Ethanol/DEA (95/5/0.1)  
 Flow rate: 1 ml/min  
 Temperature: 22 °C  
 Detection: UV 229 nm

**Ibuprofen****Conditions:****CelluCoat**

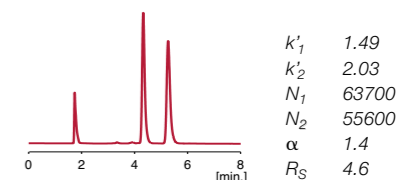
Stationary phase: Kromasil CelluCoat, 3  $\mu$ m  
 Column size: 4.6 x 150 mm  
 Mobile phase: Heptane/2-Propanol/TFA (99/1/0.1)  
 Flow rate: 1 ml/min  
 Temperature: 22 °C  
 Detection: UV 222 nm

**Ketamine****Conditions:****CelluCoat**

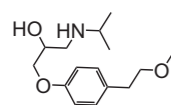
Stationary phase: Kromasil CelluCoat, 3  $\mu$ m  
 Column size: 4.6 x 150 mm  
 Mobile phase: Heptane/2-Propanol/DEA (90/10/0.1)  
 Flow rate: 0.5 ml/min  
 Temperature: 22 °C  
 Detection: UV 223 nm

**Ketoprofen****Conditions:****AmyCoat**

Stationary phase: Kromasil AmyCoat, 3  $\mu$ m  
 Column: 4.6 x 150 mm  
 Mobile phase: Heptane/2-Propanol/TFA (90/10/0.1)  
 Flow rate: 1 ml/min  
 Temperature: 22 °C  
 Detection: UV 215 nm



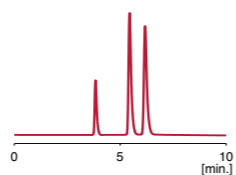
## Metoprolol



### Conditions:

#### AmyCoat

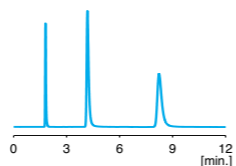
Stationary phase: Kromasil AmyCoat, 3  $\mu$ m  
Column: 4.6 x 150 mm  
Mobile phase: Methanol/DEA (100/0.1)  
Flow rate: 0.5 ml/min  
Temperature: 22 °C  
Detection: UV 223 nm



$k'_1$  0.42  
 $k'_2$  0.61  
 $N_1$  66800  
 $N_2$  68000  
 $\alpha$  1.5  
 $R_S$  3.2

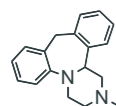
#### CelluCoat

Stationary phase: Kromasil CelluCoat, 3  $\mu$ m  
Column size: 4.6 x 150 mm  
Mobile phase: Heptane/2-Propanol/DEA (90/10/0.1)  
Flow rate: 1 ml/min  
Temperature: 22 °C  
Detection: UV 223 nm



$k'_1$  1.32  
 $k'_2$  3.57  
 $N_1$  46900  
 $N_2$  35900  
 $\alpha$  2.7  
 $R_S$  12.6

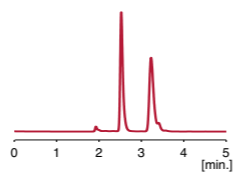
## Mianserin



### Conditions:

#### AmyCoat

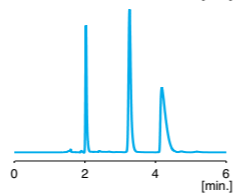
Stationary phase: Kromasil AmyCoat, 3  $\mu$ m  
Column: 4.6 x 150 mm  
Mobile phase: Methanol/DEA (100/0.1)  
Flow rate: 1 ml/min  
Temperature: 22 °C  
Detection: UV 254 nm



$k'_1$  0.31  
 $k'_2$  0.68  
 $N_1$  56300  
 $N_2$  33900  
 $\alpha$  2.2  
 $R_S$  3.0

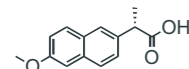
#### CelluCoat

Stationary phase: Kromasil CelluCoat, 3  $\mu$ m  
Column size: 4.6 x 150 mm  
Mobile phase: Methanol/DEA (100/0.1)  
Flow rate: 1 ml/min  
Temperature: 22 °C  
Detection: UV 220 nm



$k'_1$  0.61  
 $k'_2$  1.50  
 $N_1$  85100  
 $N_2$  25400  
 $\alpha$  1.7  
 $R_S$  4.8

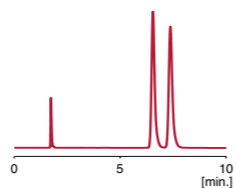
## Naproxen



### Conditions:

#### AmyCoat

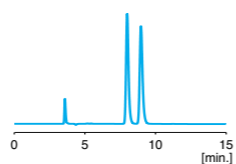
Stationary phase: Kromasil AmyCoat, 3  $\mu$ m  
Column: 4.6 x 150 mm  
Mobile phase: Heptane/2-Propanol/TFA (90/10/0.1)  
Flow rate: 1 ml/min  
Temperature: 22 °C  
Detection: UV 226 nm



$k'_1$  2.56  
 $k'_2$  3.05  
 $N_1$  74500  
 $N_2$  73700  
 $\alpha$  1.2  
 $R_S$  3.4

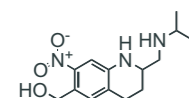
#### CelluCoat

Stationary phase: Kromasil CelluCoat, 3  $\mu$ m  
Column size: 4.6 x 150 mm  
Mobile phase: Heptane/2-Propanol/TFA (90/10/0.1)  
Flow rate: 0.5 ml/min  
Temperature: 22 °C  
Detection: UV 226 nm



$k'_1$  1.23  
 $k'_2$  1.50  
 $N_1$  67700  
 $N_2$  66000  
 $\alpha$  1.2  
 $R_S$  2.9

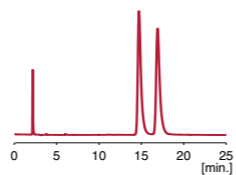
## Oxamniquine



### Conditions:

#### AmyCoat

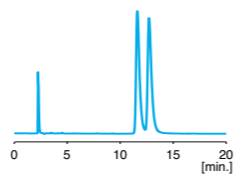
Stationary phase: Kromasil AmyCoat, 3  $\mu$ m  
Column: 4.6 x 150 mm  
Mobile phase: Heptane/2-Propanol/DEA (90/10/0.1)  
Flow rate: 0.8 ml/min  
Temperature: 22 °C  
Detection: UV 253 nm



$k'_1$  5.82  
 $k'_2$  6.89  
 $N_1$  53200  
 $N_2$  55500  
 $\alpha$  1.2  
 $R_S$  3.3

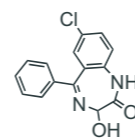
#### CelluCoat

Stationary phase: Kromasil CelluCoat, 3  $\mu$ m  
Column: 4.6 x 150 mm  
Mobile phase: Heptane/2-Propanol/DEA (90/10/0.1)  
Flow rate: 0.8 ml/min  
Temperature: 22 °C  
Detection: UV 253 nm



$k'_1$  4.16  
 $k'_2$  4.65  
 $N_1$  42900  
 $N_2$  41400  
 $\alpha$  1.1  
 $R_S$  1.8

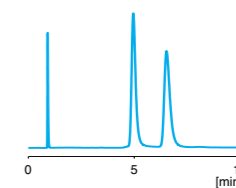
## Oxazepam



### Conditions:

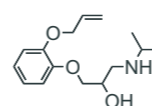
#### CelluCoat

Stationary phase: Kromasil CelluCoat, 3  $\mu$ m  
Column size: 4.6 x 150 mm  
Mobile phase: Heptane/2-Propanol/DEA (85/15/0.1)  
Flow rate: 2 ml/min  
Temperature: 22 °C  
Detection: UV 228 nm



$k'_1$  4.41  
 $k'_2$  6.12  
 $N_1$  22600  
 $N_2$  19400  
 $\alpha$  1.4  
 $R_S$  3.8

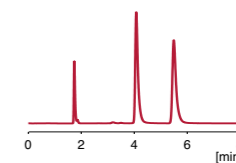
## Oxprenolol



### Conditions:

#### AmyCoat

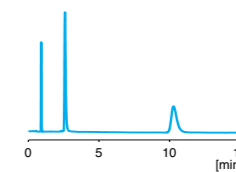
Stationary phase: Kromasil AmyCoat, 3  $\mu$ m  
Column: 4.6 x 150 mm  
Mobile phase: Heptane/2-Propanol/DEA (90/10/0.1)  
Flow rate: 1 ml/min  
Temperature: 22 °C  
Detection: UV 227 nm



$k'_1$  1.35  
 $k'_2$  2.16  
 $N_1$  56400  
 $N_2$  56400  
 $\alpha$  1.6  
 $R_S$  6.8

#### CelluCoat

Stationary phase: Kromasil CelluCoat, 3  $\mu$ m  
Column size: 4.6 x 150 mm  
Mobile phase: Heptane/2-Propanol/DEA (90/10/0.1)  
Flow rate: 2 ml/min  
Temperature: 22 °C  
Detection: UV 227 nm



$k'_1$  1.86  
 $k'_2$  10.32  
 $N_1$  31500  
 $N_2$  23000  
 $\alpha$  5.6  
 $R_S$  18.1

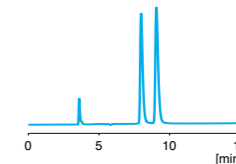
## 1-Phenylethylamine



### Conditions:

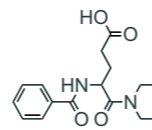
#### CelluCoat

Stationary phase: Kromasil CelluCoat, 3  $\mu$ m  
Column size: 4.6 x 150 mm  
Mobile phase: Heptane/2-Propanol/DEA (90/10/0.1)  
Flow rate: 0.5 ml/min  
Temperature: 22 °C  
Detection: UV 220 nm



$k'_1$  1.21  
 $k'_2$  1.51  
 $N_1$  68000  
 $N_2$  67600  
 $\alpha$  1.3  
 $R_S$  3.2

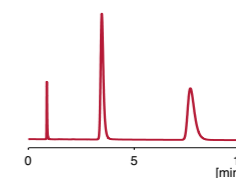
## Proglumide



### Conditions:

#### AmyCoat

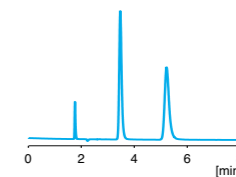
Stationary phase: Kromasil AmyCoat, 3  $\mu$ m  
Column: 4.6 x 150 mm  
Mobile phase: Heptane/2-Propanol/TFA (90/10/0.1)  
Flow rate: 2 ml/min  
Temperature: 22 °C  
Detection: UV 228 nm



$k'_1$  3.05  
 $k'_2$  8.20  
 $N_1$  29100  
 $N_2$  22800  
 $\alpha$  2.7  
 $R_S$  11.8

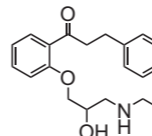
#### CelluCoat

Stationary phase: Kromasil CelluCoat, 3  $\mu$ m  
Column size: 4.6 x 150 mm  
Mobile phase: Heptane/2-Propanol/TFA (90/10/0.1)  
Flow rate: 1 ml/min  
Temperature: 22 °C  
Detection: UV 228 nm



$k'_1$  0.97  
 $k'_2$  1.96  
 $N_1$  47000  
 $N_2$  32800  
 $\alpha$  2.0  
 $R_S$  7.6

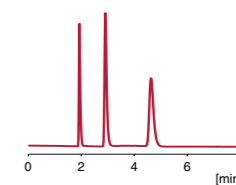
## Propafenone



### Conditions:

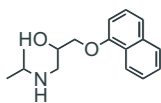
#### AmyCoat

Stationary phase: Kromasil AmyCoat, 3  $\mu$ m  
Column: 4.6 x 150 mm  
Mobile phase: Methanol/DEA (100/0.1)  
Flow rate: 1 ml/min  
Temperature: 22 °C  
Detection: UV 221 nm



$k'_1$  0.50  
 $k'_2$  1.40  
 $N_1$  46300  
 $N_2$  27200  
 $\alpha$  2.8  
 $R_S$  8.1

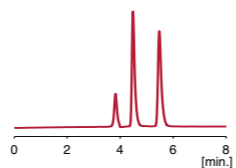
### Propranolol



#### Conditions:

##### AmyCoat

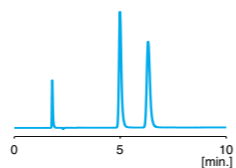
Stationary phase: Kromasil AmyCoat, 3  $\mu$ m  
 Column: 4.6 x 150 mm  
 Mobile phase: Methanol/DEA (100/0.1)  
 Flow rate: 0.5 ml/min  
 Temperature: 22 °C  
 Detection: UV 220 nm



$k'_1$  0.17  
 $k'_2$  0.43  
 $N_1$  63400  
 $N_2$  65700  
 $\alpha$  2.5  
 $R_S$  4.9

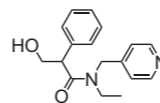
##### CelluCoat

Stationary phase: Kromasil CelluCoat, 3  $\mu$ m  
 Column size: 4.6 x 150 mm  
 Mobile phase: Heptane/Ethanol/DEA (90/10/0.1)  
 Flow rate: 1 ml/min  
 Temperature: 22 °C  
 Detection: UV 225 nm



$k'_1$  1.78  
 $k'_2$  2.52  
 $N_1$  65500  
 $N_2$  54900  
 $\alpha$  1.4  
 $R_S$  5.6

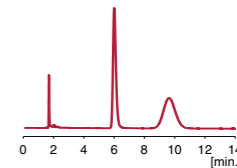
### Tropicamide



#### Conditions:

##### AmyCoat

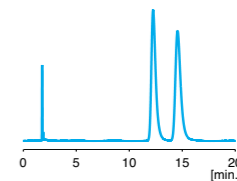
Stationary phase: Kromasil AmyCoat, 3  $\mu$ m  
 Column: 4.6 x 150 mm  
 Mobile phase: Heptane/2-Propanol (80/20)  
 Flow rate: 1 ml/min  
 Temperature: 25 °C  
 Detection: UV 220 nm



$k'_1$  2.55  
 $k'_2$  4.68  
 $N_1$  31000  
 $N_2$  4600  
 $\alpha$  1.8  
 $R_S$  4.0

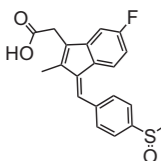
##### CelluCoat

Stationary phase: Kromasil CelluCoat, 3  $\mu$ m  
 Column size: 4.6 x 150 mm  
 Mobile phase: Heptane/2-Propanol (90/10)  
 Flow rate: 1 ml/min  
 Temperature: 25 °C  
 Detection: UV 220 nm



$k'_1$  5.91  
 $k'_2$  7.21  
 $N_1$  29700  
 $N_2$  28000  
 $\alpha$  1.2  
 $R_S$  2.8

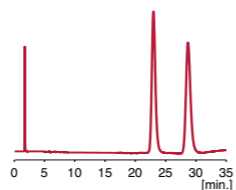
### Sulindac



#### Conditions:

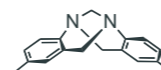
##### AmyCoat

Stationary phase: Kromasil AmyCoat, 3  $\mu$ m  
 Column: 4.6 x 150 mm  
 Mobile phase: Heptane/2-Propanol/TFA (90/10/0.1)  
 Flow rate: 1 ml/min  
 Temperature: 22 °C  
 Detection: UV 226 nm



$k'_1$  12.20  
 $k'_2$  15.60  
 $N_1$  50000  
 $N_2$  49500  
 $\alpha$  1.3  
 $R_S$  4.8

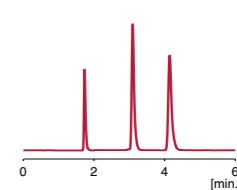
### Tröger's Base



#### Conditions:

##### AmyCoat

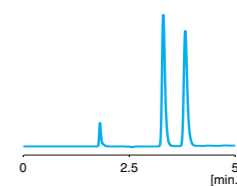
Stationary phase: Kromasil AmyCoat, 3  $\mu$ m  
 Column: 4.6 x 150 mm  
 Mobile phase: Heptane/2-Propanol/DEA (90/10/0.1)  
 Flow rate: 1 ml/min  
 Temperature: 22 °C  
 Detection: UV 220 nm



$k'_1$  0.78  
 $k'_2$  1.39  
 $N_1$  72000  
 $N_2$  69100  
 $\alpha$  1.8  
 $R_S$  7.4

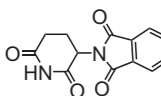
##### CelluCoat

Stationary phase: Kromasil CelluCoat, 3  $\mu$ m  
 Column size: 4.6 x 150 mm  
 Mobile phase: Heptane/2-Propanol/DEA (90/10/0.1)  
 Flow rate: 1 ml/min  
 Temperature: 22 °C  
 Detection: UV 220 nm



$k'_1$  0.83  
 $k'_2$  1.11  
 $N_1$  70400  
 $N_2$  69900  
 $\alpha$  1.4  
 $R_S$  3.7

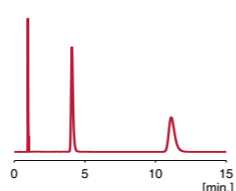
### Thalidomide



#### Conditions:

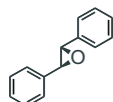
##### AmyCoat

Stationary phase: Kromasil AmyCoat, 3  $\mu$ m  
 Column: 4.6 x 150 mm  
 Mobile phase: Methanol  
 Flow rate: 2 ml/min  
 Temperature: 22 °C  
 Detection: UV 220 nm



$k'_1$  3.21  
 $k'_2$  10.46  
 $N_1$  29700  
 $N_2$  23100  
 $\alpha$  3.3  
 $R_S$  14.1

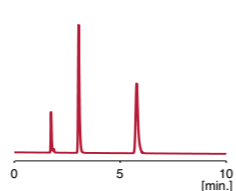
### trans-Stilbene oxide



#### Conditions:

##### AmyCoat

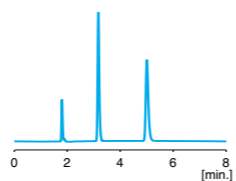
Stationary phase: Kromasil AmyCoat, 3  $\mu$ m  
 Column: 4.6 x 150 mm  
 Mobile phase: Heptane/2-Propanol (90/10)  
 Flow rate: 1 ml/min  
 Temperature: 22 °C  
 Detection: UV 229 nm



$k'_1$  0.75  
 $k'_2$  2.33  
 $N_1$  85500  
 $N_2$  91300  
 $\alpha$  3.1  
 $R_S$  18.0

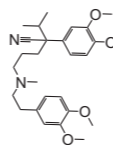
##### CelluCoat

Stationary phase: Kromasil CelluCoat, 3  $\mu$ m  
 Column size: 4.6 x 150 mm  
 Mobile phase: Heptane/2-Propanol (90/10)  
 Flow rate: 1 ml/min  
 Temperature: 22 °C  
 Detection: UV 229 nm



$k'_1$  0.76  
 $k'_2$  1.78  
 $N_1$  94300  
 $N_2$  91000  
 $\alpha$  2.3  
 $R_S$  13.2

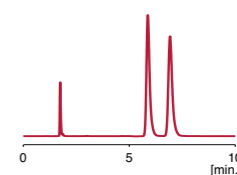
### Verapamil



#### Conditions:

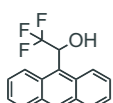
##### AmyCoat

Stationary phase: Kromasil AmyCoat, 3  $\mu$ m  
 Column: 4.6 x 150 mm  
 Mobile phase: Heptane/2-Propanol/DEA (90/10/0.1)  
 Flow rate: 1 ml/min  
 Temperature: 22 °C  
 Detection: UV 230 nm



$k'_1$  2.38  
 $k'_2$  2.98  
 $N_1$  52100  
 $N_2$  48400  
 $\alpha$  1.3  
 $R_S$  3.6

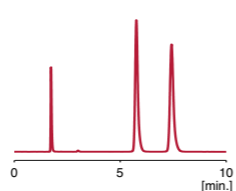
### Trifluoro-anthrylethanol



#### Conditions:

##### AmyCoat

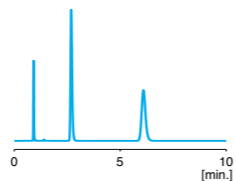
Stationary phase: Kromasil AmyCoat, 3  $\mu$ m  
 Column: 4.6 x 150 mm  
 Mobile phase: Heptane/2-Propanol (90/10)  
 Flow rate: 1 ml/min  
 Temperature: 22 °C  
 Detection: UV 255 nm



$k'_1$  2.32  
 $k'_2$  3.27  
 $N_1$  69100  
 $N_2$  68400  
 $\alpha$  1.4  
 $R_S$  6.4

##### CelluCoat

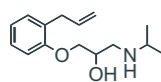
Stationary phase: Kromasil CelluCoat, 3  $\mu$ m  
 Column size: 4.6 x 150 mm  
 Mobile phase: Heptane/2-Propanol (90/10)  
 Flow rate: 2 ml/min  
 Temperature: 22 °C  
 Detection: UV 255 nm



$k'_1$  1.96  
 $k'_2$  5.70  
 $N_1$  43900  
 $N_2$  35800  
 $\alpha$  2.9  
 $R_S$  14.7

# SFC Applications

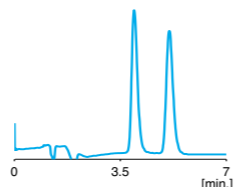
## Alprenolol



### Conditions:

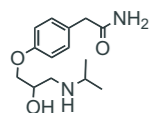
#### CelluCoat

Stationary phase: Kromasil CelluCoat, 5  $\mu$ m  
 Column: 4.6 x 250 mm  
 Mobile phase: CO<sub>2</sub>/Ethanol/DEA (90/10/0.1)  
 Flow rate: 4 ml/min  
 Temperature: 40 °C  
 Outlet pressure: 100 bar  
 Detection: UV 220 nm



$k'_1$  2.04  
 $k'_2$  2.92  
 $N_1$  28000  
 $N_2$  32900  
 $\alpha$  1.4  
 $R_S$  6.3

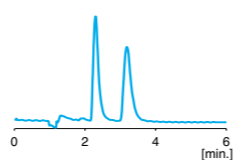
## Atenolol



### Conditions:

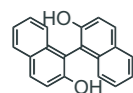
#### CelluCoat

Stationary phase: Kromasil CelluCoat, 5  $\mu$ m  
 Column: 4.6 x 250 mm  
 Mobile phase: CO<sub>2</sub>/Ethanol/DEA(70/30/0.1)  
 Flow rate: 4 ml/min  
 Temperature: 40 °C  
 Outlet pressure: 100 bar  
 Detection: UV 220 nm



$k'_1$  1.29  
 $k'_2$  2.17  
 $N_1$  14900  
 $N_2$  14800  
 $\alpha$  1.7  
 $R_S$  4.9

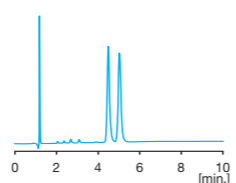
## Binaphthol



### Conditions:

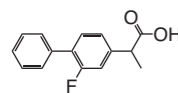
#### CelluCoat

Stationary phase: Kromasil CelluCoat, 3  $\mu$ m  
 Column size: 4.6 x 250 mm  
 Mobile phase: CO<sub>2</sub>/Methanol/IPEA (75/15/0.5)  
 Flow rate: 3 ml/min  
 Temperature: 30 °C  
 Outlet pressure: 100 bar  
 Detection: UV 220 nm



$k'_1$  2.73  
 $k'_2$  3.17  
 $N_1$  29700  
 $N_2$  31000  
 $\alpha$  1.2  
 $R_S$  2.5

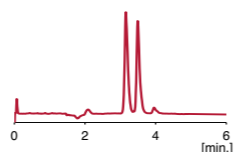
## Flurbiprofen



### Conditions:

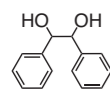
#### AmyCoat

Stationary phase: Kromasil AmyCoat, 5  $\mu$ m  
 Column: 4.6 x 250 mm  
 Mobile phase: CO<sub>2</sub>/Methanol(80/20)  
 Flow rate: 3 ml/min  
 Temperature: 40 °C  
 Outlet pressure: 150 bar  
 Detection: UV 220 nm



$k'_1$  1.42  
 $k'_2$  1.68  
 $N_1$  75500  
 $N_2$  137900  
 $\alpha$  1.2  
 $R_S$  4.0

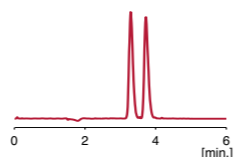
## Hydrobenzoin



### Conditions:

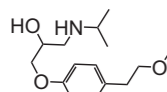
#### AmyCoat

Stationary phase: Kromasil AmyCoat, 5  $\mu$ m  
 Column: 4.6 x 250 mm  
 Mobile phase: CO<sub>2</sub>/Methanol(80/20)  
 Flow rate: 3 ml/min  
 Temperature: 40 °C  
 Outlet pressure: 150 bar  
 Detection: UV 220 nm



$k'_1$  1.52  
 $k'_2$  1.86  
 $N_1$  50700  
 $N_2$  65000  
 $\alpha$  1.2  
 $R_S$  3.8

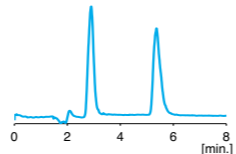
## Metoprolol



### Conditions:

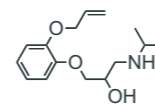
#### CelluCoat

Stationary phase: Kromasil CelluCoat, 5  $\mu$ m  
 Column: 4.6 x 250 mm  
 Mobile phase: CO<sub>2</sub>/Ethanol/DEA(85/15/0.1)  
 Flow rate: 3 ml/min  
 Temperature: 40 °C  
 Outlet pressure: 150 bar  
 Detection: UV 220 nm



$k'_1$  1.23  
 $k'_2$  3.12  
 $N_1$  11500  
 $N_2$  22800  
 $\alpha$  2.5  
 $R_S$  9.8

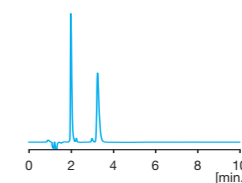
## Oxprenolol



### Conditions:

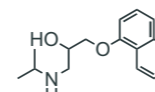
#### CelluCoat

Stationary phase: Kromasil CelluCoat, 3  $\mu$ m  
 Column size: 4.6 x 250 mm  
 Mobile phase: CO<sub>2</sub>/Methanol/IPEA (80/20/0.5)  
 Flow rate: 3 ml/min  
 Temperature: 30 °C  
 Outlet pressure: 100 bar  
 Detection: UV 220 nm



$k'_1$  0.64  
 $k'_2$  1.68  
 $N_1$  27100  
 $N_2$  18700  
 $\alpha$  2.6  
 $R_S$  8.8

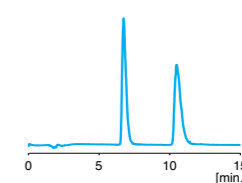
## Propranolol



### Conditions:

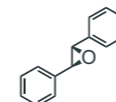
#### CelluCoat

Stationary phase: Kromasil CelluCoat, 5  $\mu$ m  
 Column: 4.6 x 250 mm  
 Mobile phase: CO<sub>2</sub>/Ethanol/DEA (85/15/0.1)  
 Flow rate: 3 ml/min  
 Temperature: 40 °C  
 Outlet pressure: 150 bar  
 Detection: UV 220 nm



$k'_1$  3.49  
 $k'_2$  5.98  
 $N_1$  32200  
 $N_2$  33400  
 $\alpha$  1.7  
 $R_S$  9.9

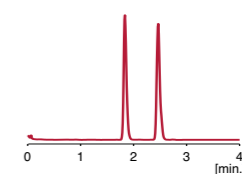
## trans-Stilbene oxide



### Conditions:

#### AmyCoat

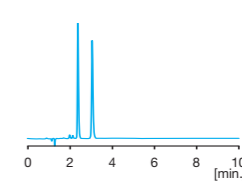
Stationary phase: Kromasil AmyCoat, 5  $\mu$ m  
 Column: 4.6 x 250 mm  
 Mobile phase: CO<sub>2</sub>/Methanol (80/20)  
 Flow rate: 3 ml/min  
 Temperature: 40 °C  
 Outlet pressure: 150 bar  
 Detection: UV 220 nm



$k'_1$  1.29  
 $k'_2$  2.06  
 $N_1$  86000  
 $N_2$  154100  
 $\alpha$  1.6  
 $R_S$  12.4

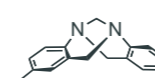
#### CelluCoat

Stationary phase: Kromasil CelluCoat, 3  $\mu$ m  
 Column size: 4.6 x 250 mm  
 Mobile phase: CO<sub>2</sub>/Methanol/IPEA (80/20/0.5)  
 Flow rate: 3 ml/min  
 Temperature: 30 °C  
 Outlet pressure: 100 bar  
 Detection: UV 220 nm



$k'_1$  0.98  
 $k'_2$  1.54  
 $N_1$  62400  
 $N_2$  52000  
 $\alpha$  1.6  
 $R_S$  7.4

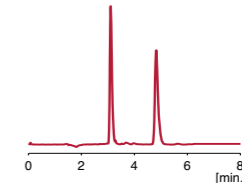
## Tröger's Base



### Conditions:

#### AmyCoat

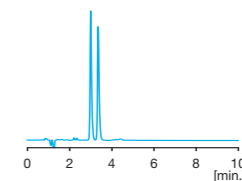
Stationary phase: Kromasil AmyCoat, 5  $\mu$ m  
 Column: 4.6 x 250 mm  
 Mobile phase: CO<sub>2</sub>/Methanol (80/20)  
 Flow rate: 3 ml/min  
 Temperature: 40 °C  
 Outlet pressure: 150 bar  
 Detection: UV 220 nm



$k'_1$  1.38  
 $k'_2$  2.70  
 $N_1$  108200  
 $N_2$  109000  
 $\alpha$  2.0  
 $R_S$  17.8

#### CelluCoat

Stationary phase: Kromasil CelluCoat, 3  $\mu$ m  
 Column size: 4.6 x 250 mm  
 Mobile phase: CO<sub>2</sub>/Methanol/IPEA (80/20/0.5)  
 Flow rate: 3 ml/min  
 Temperature: 30 °C  
 Outlet pressure: 100 bar  
 Detection: UV 220 nm



$k'_1$  1.50  
 $k'_2$  1.80  
 $N_1$  39700  
 $N_2$  39800  
 $\alpha$  1.2  
 $R_S$  2.8