

*Application guide*

*Kromasil® AmyCoat™*

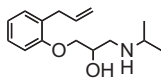
*Kromasil® CelluCoat™*



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.

# HPLC Applications

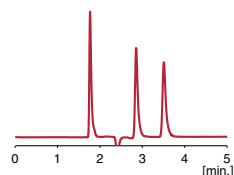
## Alprenolol



### Conditions:

#### AmyCoat

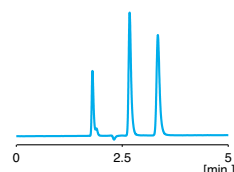
Stationary phase: Kromasil AmyCoat, 3  $\mu$ m  
 Column: 4.6 x 150 mm  
 Mobile phase: Heptane/Ethanol/DEA (90/10/0.1)  
 Flow rate: 1 ml/min  
 Temperature: 22 °C  
 Detection: UV 220 nm



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

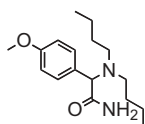
#### CelluCoat

Stationary phase: Kromasil CelluCoat, 3  $\mu$ m  
 Column 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 220 nm



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

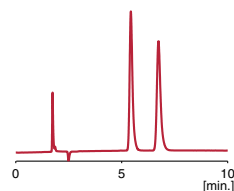
## Ambucetamide



### Conditions:

#### AmyCoat

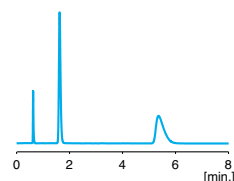
Stationary phase: Kromasil AmyCoat, 3  $\mu$ m  
 Column: 4.6 x 150 mm  
 Mobile phase: Heptane/2-Propanol/DEA (90/10/0.1)  
 Flow rate: 1 ml/min  
 Temperature: 22 °C  
 Detection: UV 229 nm



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

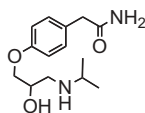
#### CelluCoat

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 °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

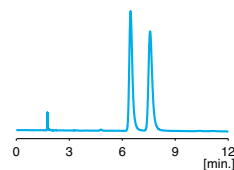
## Atenolol



### Conditions:

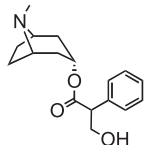
#### CelluCoat

Stationary phase: Kromasil CelluCoat, 3  $\mu$ m  
 Column size: 4.6 x 150 mm  
 Mobile phase: Heptane/Ethanol/DEA (80/20/0.1)  
 Flow rate: 1 ml/min  
 Temperature: 22 °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

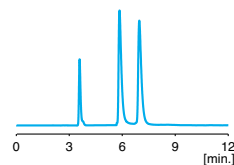
## Atropine



### Conditions:

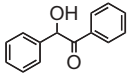
#### CelluCoat

Stationary phase: Kromasil CelluCoat, 3  $\mu$ m  
 Column size: 4.6 x 150 mm  
 Mobile phase: Heptane/Ethanol/DEA (80/20/0.1)  
 Flow rate: 0.5 ml/min  
 Temperature: 22 °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

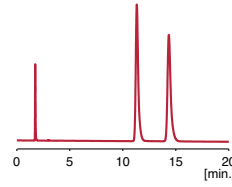
## Benzoin



### Conditions:

#### AmyCoat

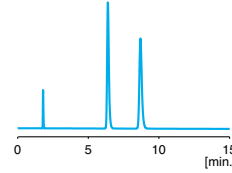
Stationary phase: Kromasil AmyCoat, 3  $\mu$ m  
Column: 4.6 x 150 mm  
Mobile phase: Heptane/2-Propanol (90/10)  
Flow rate: 1 ml/min  
Temperature: 22 °C  
Detection: UV 250 nm



$k'_1$  5.52  
 $k'_2$  7.26  
 $N_1$  82700  
 $N_2$  80700  
 $\alpha$  1.3  
 $R_S$  6.5

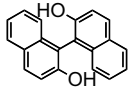
#### CelluCoat

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



$k'_1$  2.55  
 $k'_2$  3.83  
 $N_1$  86500  
 $N_2$  81400  
 $\alpha$  1.5  
 $R_S$  8.6

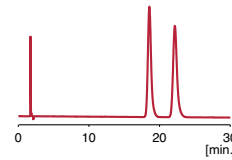
## Binaphthol



### Conditions:

#### AmyCoat

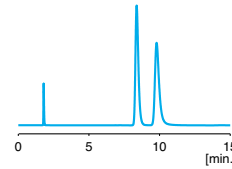
Stationary phase: Kromasil AmyCoat, 3  $\mu$ m  
Column: 4.6 x 150 mm  
Mobile phase: Heptane/2-Propanol/TFA (90/10/0.1)  
Flow rate: 1 ml/min  
Temperature: 22 °C  
Detection: UV 226 nm



$k'_1$  9.70  
 $k'_2$  11.79  
 $N_1$  54100  
 $N_2$  52800  
 $\alpha$  1.2  
 $R_S$  4.0

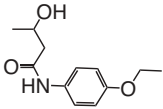
#### CelluCoat

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: 22 °C  
Detection: UV 226 nm



$k'_1$  3.66  
 $k'_2$  4.44  
 $N_1$  51600  
 $N_2$  36600  
 $\alpha$  1.2  
 $R_S$  3.1

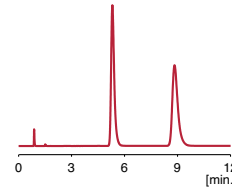
## Bucetin



### Conditions:

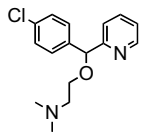
#### AmyCoat

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



$k'_1$  5.02  
 $k'_2$  9.01  
 $N_1$  30900  
 $N_2$  27700  
 $\alpha$  1.8  
 $R_S$  8.2

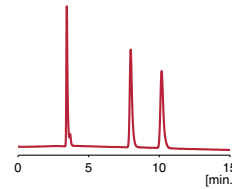
## Carbinoxamine



### Conditions:

#### AmyCoat

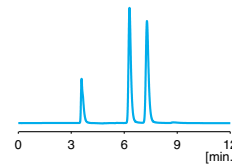
Stationary phase: Kromasil AmyCoat, 3  $\mu$ m  
Column: 4.6 x 150 mm  
Mobile phase: Heptane/2-Propanol/DEA (90/10/0.1)  
Flow rate: 0.5 ml/min  
Temperature: 22 °C  
Detection: UV 226 nm



$k'_1$  1.31  
 $k'_2$  1.95  
 $N_1$  80000  
 $N_2$  79200  
 $\alpha$  1.5  
 $R_S$  6.6

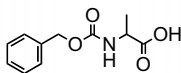
#### CelluCoat

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



$k'_1$  0.76  
 $k'_2$  1.03  
 $N_1$  69400  
 $N_2$  71300  
 $\alpha$  1.4  
 $R_S$  3.8

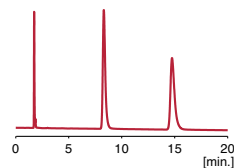
## CBZ-Alanine



### Conditions:

#### AmyCoat

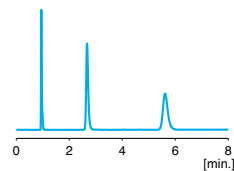
Stationary phase: Kromasil AmyCoat, 3  $\mu$ m  
Column: 4.6 x 150 mm  
Mobile phase: Heptane/2-Propanol/TFA (90/10/0.1)  
Flow rate: 1 ml/min  
Temperature: 22 °C  
Detection: UV 215 nm



$k'_1$  3.78  
 $k'_2$  7.49  
 $N_1$  44800  
 $N_2$  50400  
 $\alpha$  2.0  
 $R_S$  11.9

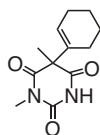
#### CelluCoat

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



$k'_1$  1.82  
 $k'_2$  4.93  
 $N_1$  40700  
 $N_2$  31200  
 $\alpha$  2.7  
 $R_S$  12.7

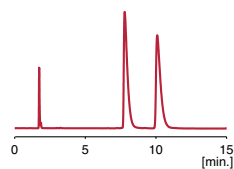
## Hexobarbital



### Conditions:

#### AmyCoat

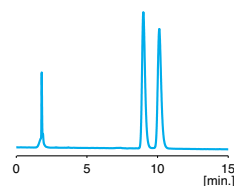
Stationary phase: Kromasil AmyCoat, 3  $\mu$ m  
Column: 4.6 x 150 mm  
Mobile phase: Heptane/2-Propanol (90/10)  
Flow rate: 1 ml/min  
Temperature: 22 °C  
Detection: UV 230 nm



$k'_1$  3.49  
 $k'_2$  4.81  
 $N_1$  33400  
 $N_2$  35500  
 $\alpha$  1.4  
 $R_S$  4.7

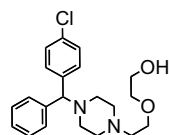
#### CelluCoat

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



$k'_1$  3.99  
 $k'_2$  4.60  
 $N_1$  55000  
 $N_2$  53700  
 $\alpha$  1.2  
 $R_S$  2.7

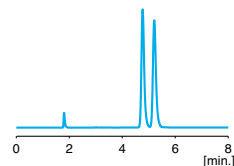
## Hydroxyzine



### Conditions:

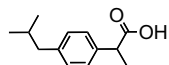
#### CelluCoat

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



$k'_1$  1.64  
 $k'_2$  1.88  
 $N_1$  69500  
 $N_2$  67500  
 $\alpha$  1.2  
 $R_S$  2.2

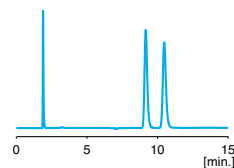
## Ibuprofen



### Conditions:

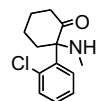
#### CelluCoat

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



$k'_1$  3.83  
 $k'_2$  4.52  
 $N_1$  73500  
 $N_2$  72100  
 $\alpha$  1.2  
 $R_S$  3.5

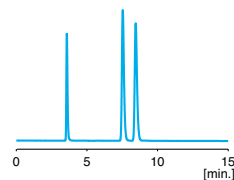
## Ketamine



### Conditions:

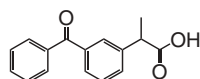
#### CelluCoat

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



$k'_1$  1.11  
 $k'_2$  1.36  
 $N_1$  86500  
 $N_2$  86700  
 $\alpha$  1.2  
 $R_S$  3.3

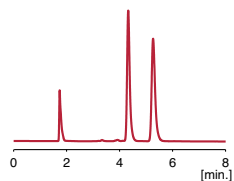
## Ketoprofen



### Conditions:

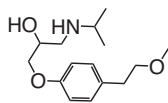
#### AmyCoat

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



$k'_1$  1.49  
 $k'_2$  2.03  
 $N_1$  63700  
 $N_2$  55600  
 $\alpha$  1.4  
 $R_S$  4.6

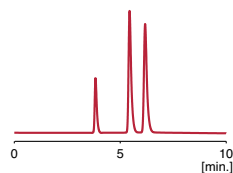
## Metoprolol



### Conditions:

#### AmyCoat

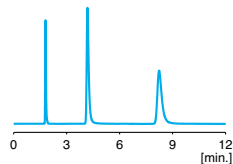
Stationary phase: Kromasil AmyCoat, 3  $\mu$ m  
Column: 4.6 x 150 mm  
Mobile phase: Methanol/DEA (100/0.1)  
Flow rate: 0.5 ml/min  
Temperature: 22 °C  
Detection: UV 223 nm



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

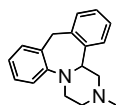
#### CelluCoat

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

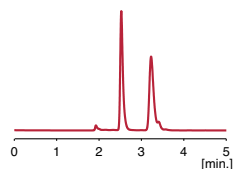
## Mianserin



### Conditions:

#### AmyCoat

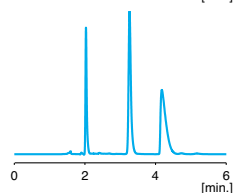
Stationary phase: Kromasil AmyCoat, 3  $\mu$ m  
Column: 4.6 x 150 mm  
Mobile phase: Methanol/DEA (100/0.1)  
Flow rate: 1 ml/min  
Temperature: 22 °C  
Detection: UV 254 nm



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

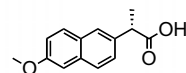
#### CelluCoat

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

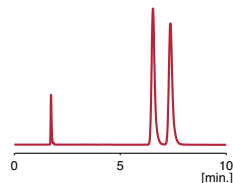
## Naproxen



### Conditions:

#### AmyCoat

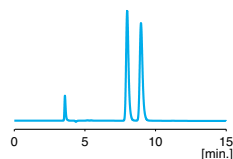
Stationary phase: Kromasil AmyCoat, 3  $\mu$ m  
Column: 4.6 x 150 mm  
Mobile phase: Heptane/2-Propanol/TFA (90/10/0.1)  
Flow rate: 1 ml/min  
Temperature: 22 °C  
Detection: UV 226 nm



$k'_1$  2.77  
 $k'_2$  3.25  
 $N_1$  66800  
 $N_2$  65500  
 $\alpha$  1.2  
 $R_S$  3.0

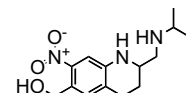
#### CelluCoat

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

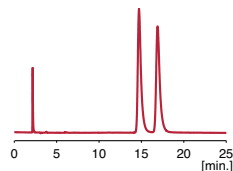
## Oxamniquine



### Conditions:

#### AmyCoat

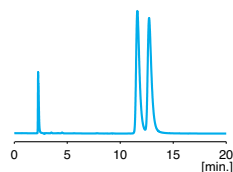
Stationary phase: Kromasil AmyCoat, 3  $\mu$ m  
Column: 4.6 x 150 mm  
Mobile phase: Heptane/2-Propanol/DEA (90/10/0.1)  
Flow rate: 0.8 ml/min  
Temperature: 22 °C  
Detection: UV 253 nm



$k'_1$  5.78  
 $k'_2$  6.79  
 $N_1$  54800  
 $N_2$  56700  
 $\alpha$  1.2  
 $R_S$  3.2

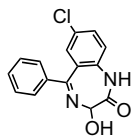
#### CelluCoat

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

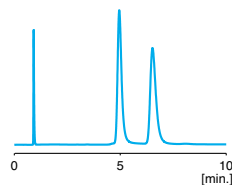
## Oxazepam



### Conditions:

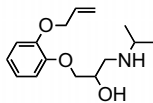
#### CelluCoat

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

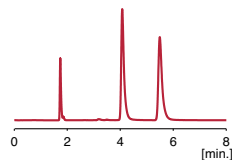
## Oxprenolol



### Conditions:

#### AmyCoat

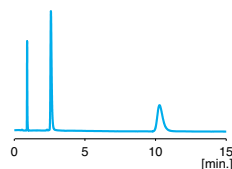
Stationary phase: Kromasil AmyCoat, 3  $\mu$ m  
Column: 4.6 x 150 mm  
Mobile phase: Heptane/2-Propanol/DEA (90/10/0.1)  
Flow rate: 1 ml/min  
Temperature: 22 °C  
Detection: UV 227 nm



$k'_1$  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

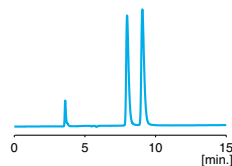
## 1-Phenylethylamine



### Conditions:

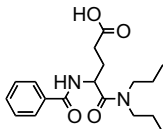
#### CelluCoat

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

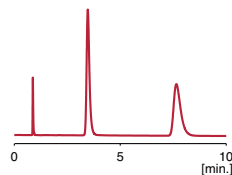
## Proglumide



### Conditions:

#### AmyCoat

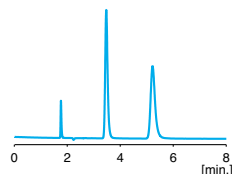
Stationary phase: Kromasil AmyCoat, 3  $\mu$ m  
Column: 4.6 x 150 mm  
Mobile phase: Heptane/2-Propanol/TFA (90/10/0.1)  
Flow rate: 2 ml/min  
Temperature: 22 °C  
Detection: UV 228 nm



$k'_1$  2.96  
 $k'_2$  7.73  
 $N_1$  22600  
 $N_2$  17600  
 $\alpha$  2.6  
 $R_S$  10.1

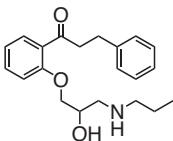
#### CelluCoat

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

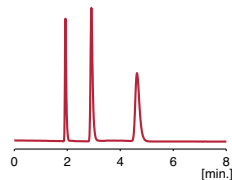
## Propafenone



### Conditions:

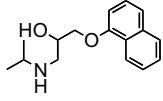
#### AmyCoat

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

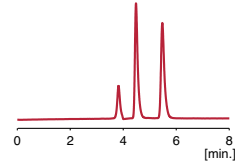
## Propranolol



### Conditions:

#### AmyCoat

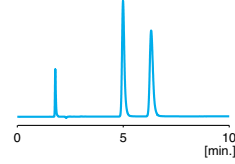
Stationary phase: Kromasil AmyCoat, 3  $\mu$ m  
Column: 4.6 x 150 mm  
Mobile phase: Methanol/DEA(100/0.1)  
Flow rate: 0.5 ml/min  
Temperature: 22 °C  
Detection: UV 220 nm



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

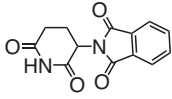
#### CelluCoat

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

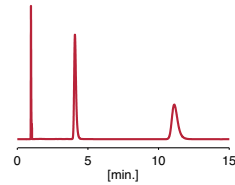
## Thalidomide



### Conditions:

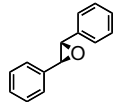
#### AmyCoat

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

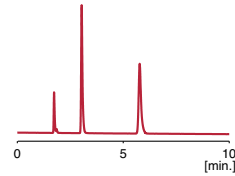
## trans-Stilbene oxide



### Conditions:

#### AmyCoat

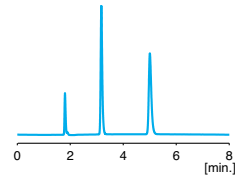
Stationary phase: Kromasil AmyCoat, 3  $\mu$ m  
Column: 4.6 x 150 mm  
Mobile phase: Heptane/2-Propanol (90/10)  
Flow rate: 1 ml/min  
Temperature: 22 °C  
Detection: UV 229 nm



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

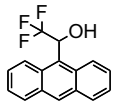
#### CelluCoat

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

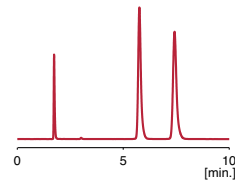
## Trifluoro-anthrylethanol



### Conditions:

#### AmyCoat

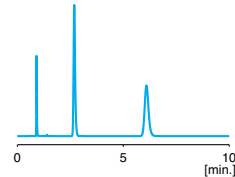
Stationary phase: Kromasil AmyCoat, 3  $\mu$ m  
Column: 4.6 x 150 mm  
Mobile phase: Heptane/2-Propanol (90/10)  
Flow rate: 1 ml/min  
Temperature: 22 °C  
Detection: UV 255 nm



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

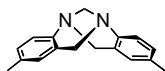
#### CelluCoat

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



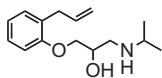
$k'_1$  1.96  
 $k'_2$  5.70  
 $N_1$  43900  
 $N_2$  35800  
 $\alpha$  2.9  
 $R_S$  14.7

## Tröger's Base



# SFC Applications

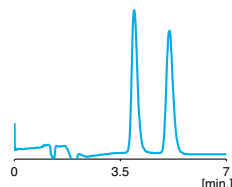
## Alprenolol



### Conditions:

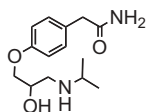
#### CelluCoat

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

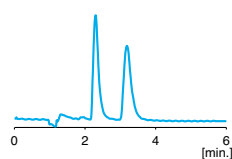
## Atenolol



### Conditions:

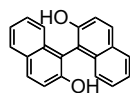
#### CelluCoat

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

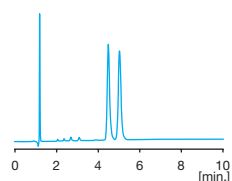
## Binaphthol



### Conditions:

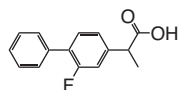
#### CelluCoat

Stationary phase: Kromasil CelluCoat, 3  $\mu$ m  
 Column size: 4.6 x 250 mm  
 Mobile phase: CO<sub>2</sub>/Methanol/İPEA (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

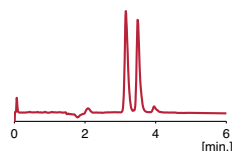
## Flurbiprofen



### Conditions:

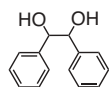
#### AmyCoat

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

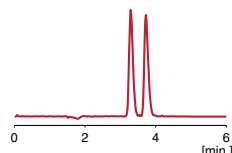
## Hydrobenzoin



### Conditions:

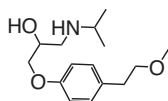
#### AmyCoat

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

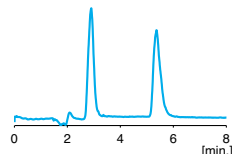
## Metoprolol



### Conditions:

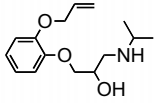
#### CelluCoat

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

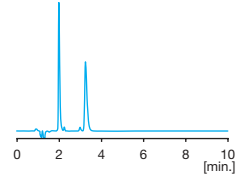
## Oxprenolol



### Conditions:

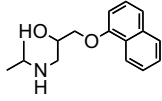
#### CelluCoat

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

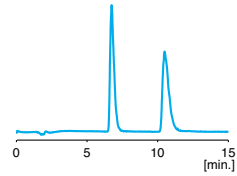
## Propranolol



### Conditions:

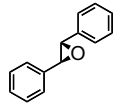
#### CelluCoat

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

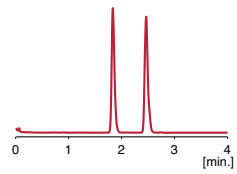
## trans-Stilbene oxide



### Conditions:

#### AmyCoat

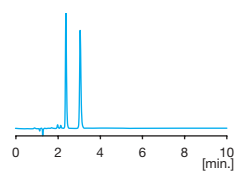
Stationary phase: Kromasil AmyCoat, 5  $\mu$ m  
Column: 4.6 x 250 mm  
Mobile phase: CO<sub>2</sub>/Methanol (80/20)  
Flow rate: 3 ml/min  
Temperature: 40 °C  
Outlet pressure: 150 bar  
Detection: UV 220 nm



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

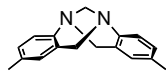
#### CelluCoat

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

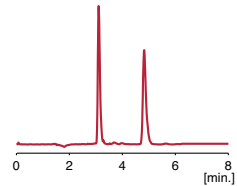
## Tröger's Base



### Conditions:

#### AmyCoat

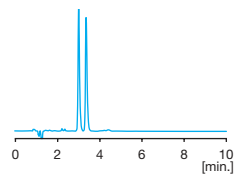
Stationary phase: Kromasil AmyCoat, 5  $\mu$ m  
Column: 4.6 x 250 mm  
Mobile phase: CO<sub>2</sub>/Methanol (80/20)  
Flow rate: 3 ml/min  
Temperature: 40 °C  
Outlet pressure: 150 bar  
Detection: UV 220 nm



$k'_1$  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

