

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

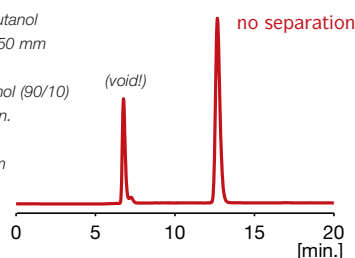
Mobile phase:

Heptane/2-Propanol (90/10)

Flow rate: 0.25 ml/min.

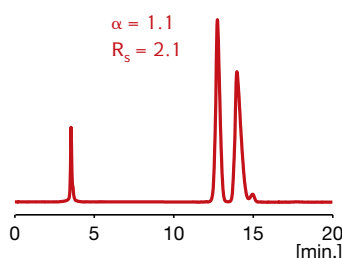
Temperature: 22°C

Detection: UV 210 nm



Kromasil 3-AmyCoat

$\alpha = 1.1$
 $R_s = 2.1$



Kromasil 3-AmyCoat RP

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

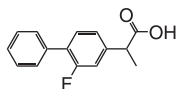
Recommended mobile phases for Kromasil AmyCoat RP

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

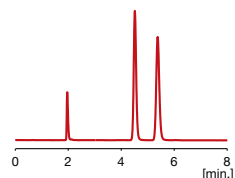
Kromasil AmyCoat RP Applications

Flurbiprofen



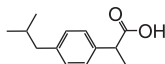
Conditions:

Stationary phase: Kromasil AmyCoat RP, 3 μ 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



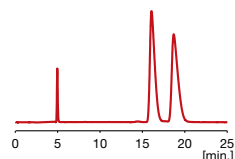
k'_1 1.30
 k'_2 1.73
 N_1 75600
 N_2 68100
 α 1.3
 R_s 4.5

Ibuprofen



Conditions:

Stationary phase: Kromasil AmyCoat RP, 3 μ 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



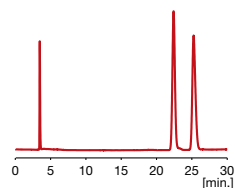
k'_1 2.24
 k'_2 2.77
 N_1 25500
 N_2 21400
 α 1.2
 R_s 2.2

2-Methyl-1-tetralone



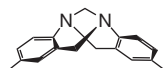
Conditions:

Stationary phase: Kromasil AmyCoat RP, 3 μ 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



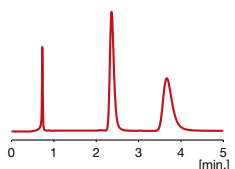
k'_1 5.47
 k'_2 6.28
 N_1 18100
 N_2 15700
 α 1.2
 R_s 3.9

Tröger's base



Conditions:

Stationary phase: Kromasil AmyCoat RP, 3 μ 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
 α 1.8
 R_s 4.6

Availability

Kromasil AmyCoat RP is available in 3 μ 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

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