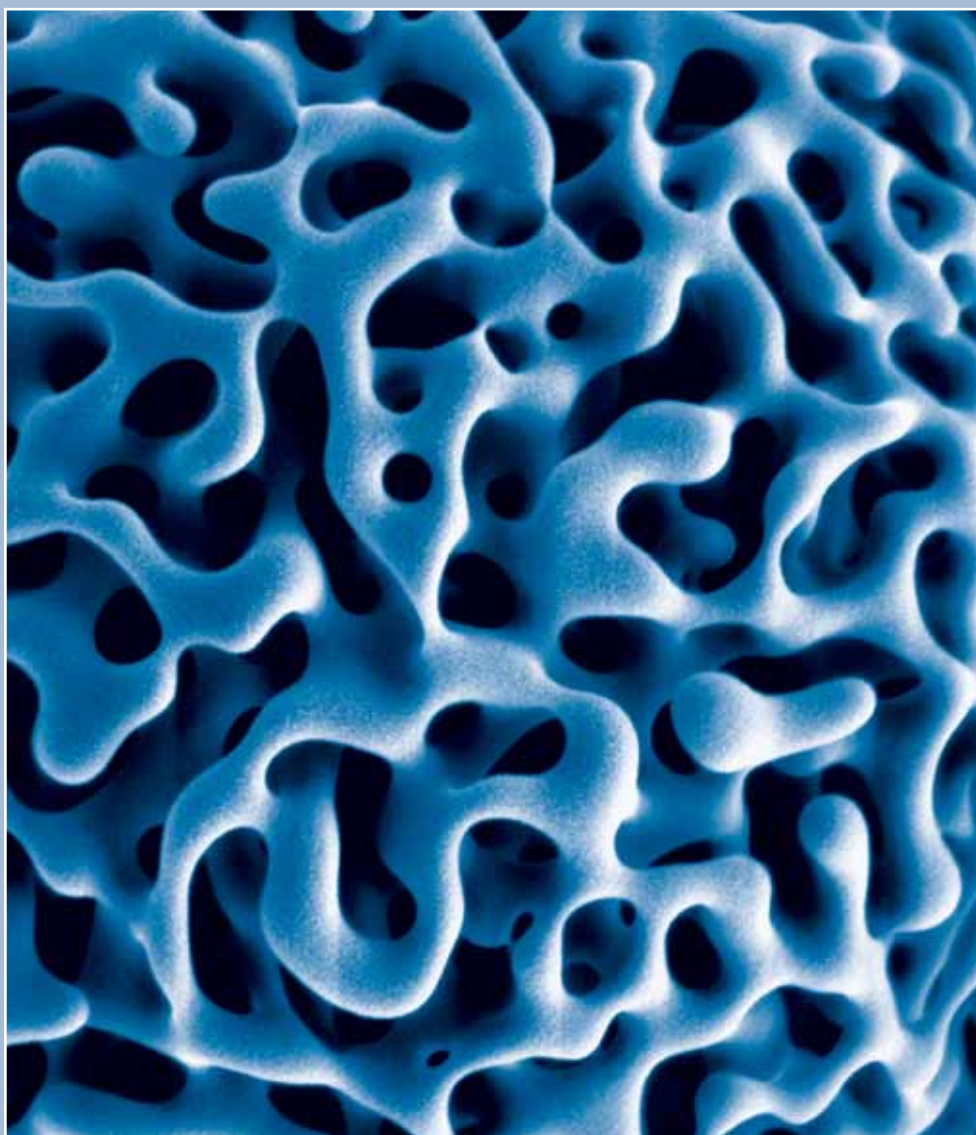


*The cellulose-based chiral phase  
for better performance.*



**Kromasil<sup>®</sup> CelluCoat<sup>™</sup>**

*The way to peak performance in  
liquid chromatography.*

# Designed to stretch the limits.

Kromasil® CelluCoat™ stretches the limits for analytical and industrial chiral chromatography. The silica is based on an in-house developed matrix and coated with a functionalized cellulose selector. High resolution, excellent selectivity, no pressure limits\* and stable performance when switching between compatible mobile phases are some important benefits.

## ANALYTICAL CHROMATOGRAPHY

NO PRESSURE LIMITS ► HIGH FLOW RATES ► FASTER ANALYSES

SMALL PARTICLES (3 µm) ► HIGH RESOLUTION ► BETTER ANALYSES

UNIQUE COATING METHOD ► EXCELLENT SELECTIVITY ► BETTER ANALYSES

## PREPARATIVE CHROMATOGRAPHY

UNIQUE SILICA MATRIX ► MECHANICALLY STRONG ► LONGER LIFETIME

WIDE RANGE OF PARTICLES ► CONSISTENT PERFORMANCE ► EASIER TO SCALE UP

UNIQUE COATING METHOD ► HIGHER LOADABILITY ► HIGHER PRODUCTIVITY

\* Kromasil CelluCoat can withstand flow rates equivalent to pressures of up to 400 bar—i.e. the approximate limit for most HPLC systems.

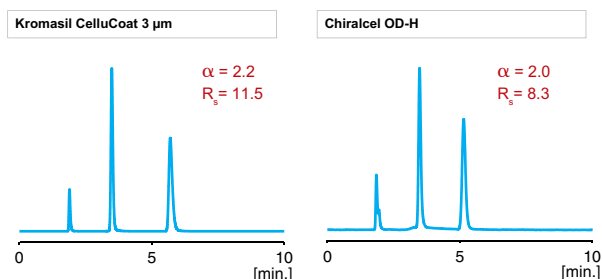
# Peak performance. Expect nothing less.

To speed up and simplify method development, we have removed some of the restrictions for coated polysaccharide phases. In analytical scale chromatography, 3  $\mu\text{m}$  particles and the absence of pressure limits allow faster chromatography with better results than ever before.

## BETTER RESULTS

Kromasil CelluCoat shows great enantioselectivity for many different racemates. In the middle section of the brochure, you will find an application guide showing exactly the performance levels you can expect.

You also have access to 3  $\mu\text{m}$  particles, which enables a higher plate count and resolution for analytical chromatography. Combined with great selectivity, this facilitates the separation of the enantiomers.



**Common conditions**  
 Solute: *trans*-Stilbene oxide  
 Mobile phase: Heptane/2-Propanol (90/10)  
 Column size: 4.6 x 150 mm  
 Flow rate: 1 ml/min  
 Temperature: 25 °C  
 Detection: UV 229 nm

High selectivity combined with 3  $\mu\text{m}$  particle size—the benefits are obvious.

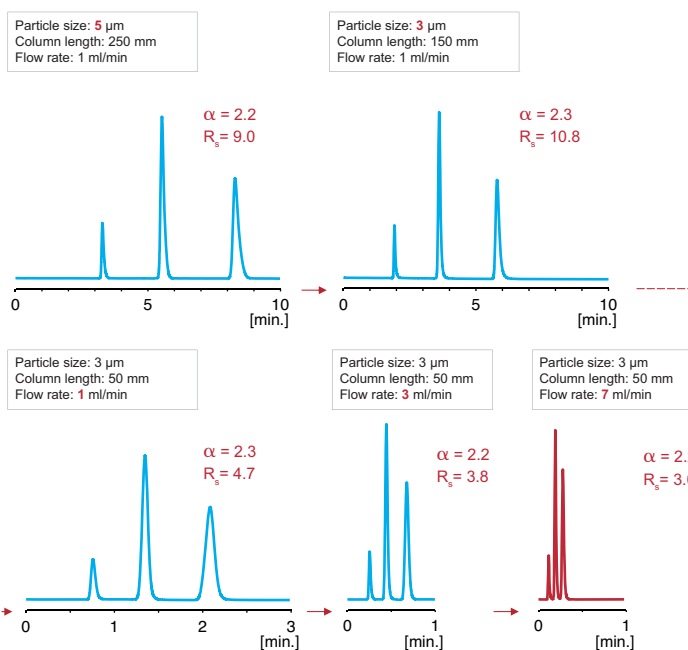
	$\alpha$ value		$R_s$	
	CelluCoat 3 $\mu\text{m}$	Chiralcel OD-H	CelluCoat 3 $\mu\text{m}$	Chiralcel OD-H
Trans-Stilbene oxide	2.2	2.0	11.5	8.3
Benzoin	1.5	1.5	6.5	5.7
TFAE	2.9	2.9	11.6	11
Tröger's base	1.4	1.4	3.2	2.7
Oxprenolol	5.6	5.5	14.7	15.1
Naproxen	1.2	1.2	2.6	2.2
Progumide	1.8	2.0	4.7	3.2

Selectivity and resolution comparison, Kromasil CelluCoat versus Chiralcel OD-H. Conditions as in application guide, except for flow rates not exceeding 1 ml/min for Chiralcel OD-H.

## FASTER RESULTS

Not only can you get better results with Kromasil CelluCoat, you also get them faster. Thanks to a product characteristic like the absence of pressure limits, you can run analytical chromatography at very high flow rates and save time.

The high selectivity and 3  $\mu\text{m}$  particles are also important factors in speeding up the method. You achieve an improved resolution, which, in turn, allows a higher flow rate.



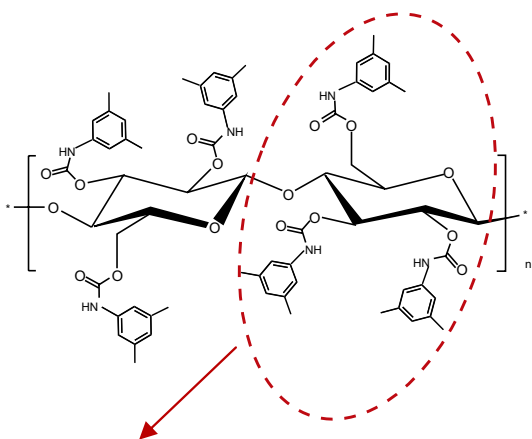
**Common conditions**  
 Solute: *trans*-Stilbene oxide  
 Mobile phase: Heptane/2-Propanol (90/10)  
 Column diameter: 4.6 mm  
 Temperature: 25 °C  
 Detection: UV 229 nm

Small particles and no pressure limits make it possible to run very fast analytical chromatography with Kromasil CelluCoat.

# Kromasil CelluCoat explained.

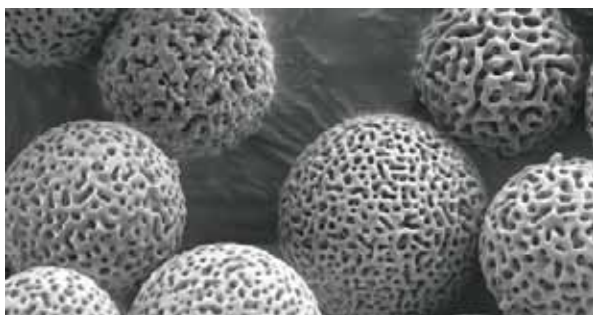
## CHIRAL SELECTOR

The coated selector is tris-(3,5-dimethylphenyl) carbamoyl cellulose.



*tris-(3,5-dimethylphenyl)carbamoyl cellulose*

## PARTICLE SIZES



Kromasil CelluCoat is available in 3 and 5  $\mu\text{m}$  as pre-packed columns, and in 10  $\mu\text{m}$  as pre-packed column and bulk material.

## COMPATIBLE MOBILE PHASES

Alkane/2-Propanol	Alkane/Ethanol	Alkane/Methanol	Acetonitrile
100/0 to 0/100	100/0 to 0/100	100/0 to 0/100	100%

Before testing conditions not mentioned above, please contact the Kromasil application group in Sweden.

## PRODUCT ASSORTMENT\*

	3 $\mu\text{m}$ - CelluCoat	5 $\mu\text{m}$ - CelluCoat	10 $\mu\text{m}$ - CelluCoat
4.6 x 50 mm	Kromasil 3-CelluCoat 4.6 x 50 mm	Kromasil 5-CelluCoat 4.6 x 50 mm	—
4.6 x 150 mm	Kromasil 3-CelluCoat 4.6 x 150 mm	Kromasil 5-CelluCoat 4.6 x 150 mm	Kromasil 10-CelluCoat 4.6 x 150 mm
4.6 x 250 mm	Kromasil 3-CelluCoat 4.6 x 250 mm	Kromasil 5-CelluCoat 4.6 x 250 mm	Kromasil 10-CelluCoat 4.6 x 250 mm
10 x 250 mm	—	Kromasil-5-CelluCoat 10 x 250 mm	Kromasil-10-CelluCoat 10 x 250 mm
21.2 x 250 mm	—	Kromasil 5-CelluCoat 21.2 x 250 mm	Kromasil 10-CelluCoat 21.2 x 250 mm

\* Other column dimensions available upon request.

## PRODUCT CODES

Kromasil X-CelluCoat followed by column diameter and length. X indicates particle size: 3, 5 or 10  $\mu\text{m}$ . For example: *Kromasil 3-CelluCoat 4.6 x 150 mm*

## ORDERING INFORMATION

Order online at:

[www.kromasil.com/online](http://www.kromasil.com/online)

[kromasil@eka.com](mailto:kromasil@eka.com)

Or contact:

Eka Chemicals, Separation Products, SE-445 80

Bohus, Sweden

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