

Replace your Kromasil® based columns and **Save Money**

OPTION
01

**Direct
Replacement**

Chrom-Clone™

- Guaranteed* direct replacement to Kromasil® based columns
- Significant cost savings

OPTION
02

**Performance
Upgrade**

Kinetex®

- Guaranteed* performance improvement to Kromasil® based columns
- Far higher efficiency
- Increased sensitivity
- Greater productivity



Kromasil®

- Columns packed by Phenomenex

**Phenomenex
List Price**

5µm C18 100Å 250 x 4.6mm



Chrom-Clone™

- Guaranteed* direct replacement to Kromasil® based columns
- Significant cost savings

**Phenomenex
List Price**

5µm C18 100Å 250 x 4.6mm

‡ C8 also available



Kinetex®

- Guaranteed* performance improvement to Kromasil® based columns
- Far higher efficiency
- Increased sensitivity
- Greater productivity

**Phenomenex
List Price**

5µm C18 100Å 250 x 4.6mm

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Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
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Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
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Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

Chrom-Clone™

Chrom-Clone

Why Chrom-Clone?

VS
Λ2

Kromasil®

Guaranteed Replacement to Kromasil® Based Columns

- Significant Cost Savings
- Manufactured by Phenomenex for Reproducibility
- Long Column Lifetime

Get the Same Chrom-Clone Reproducibility Anywhere in the World

Chrom-Clone columns are packed and manufactured only by Phenomenex, thereby reducing the chance of column-to-column variation. You will receive columns of consistent quality and reproducibility, and will benefit from Phenomenex's excellent customer support and technical service.

Material Comparison

Chrom-Clone	vs.	Kromasil®
5 µm, Spherical	Particle Size and Shape	3.5 µm, Spherical 5 µm, Spherical
	Pore Size	
100 Å	C8, C18	100 Å
	Surface Area	
370 m ² /g	C8, C18	340 m ² /g
	Carbon Load	
13%	C8	12%
18%	C18	19%

guarantee

If KromaClone analytical columns do not provide the equivalent separation as compared to an AkzoNobel or Phenomenex packed Kromasil column of the same particle size, phase and dimensions, return the product with comparative data within 45 days for a FULL REFUND.

Kinetex[®] Core-Shell Technology

Kinetex

VS
K2

Kromasil[®]

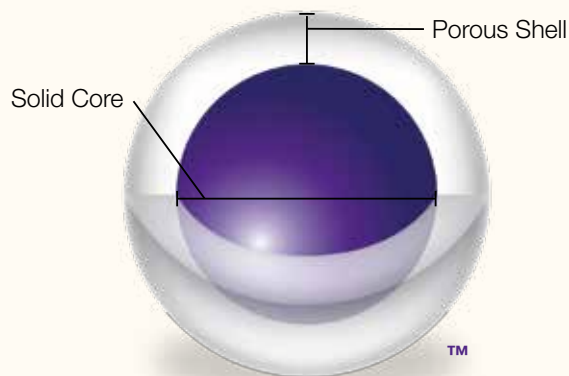
Why Kinetex?

Guaranteed Performance Improvement to Kromasil[®] Based Columns

- Improved Results
- Better Productivity
- Easy Transferability

Better Performance than Fully Porous Particles

Replace your Kromasil[®] column with a Kinetex Core-Shell HPLC column to see considerable improvements in your chromatographic performance. Gain higher efficiency, improved sensitivity, and resolution. By switching, experience decreased run times and reduced solvent usage helping you save more money.



Fully Porous		Kinetex Core-Shell	Average Efficiency Gain with Kinetex*
5 μm	vs	5 μm	90% Higher
3 μm	vs	2.6 μm	85% Higher

* May not be representative of all applications.

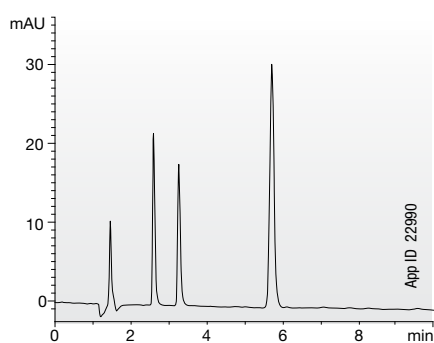
Swap Out Kromasil® Based Columns and Save Significantly with Chrom-Clone™

Chrom-Clone is guaranteed to provide equivalent separation as compared to your existing Kromasil® column packed by Akzo-Nobel or Phenomenex, at a fraction of the price.

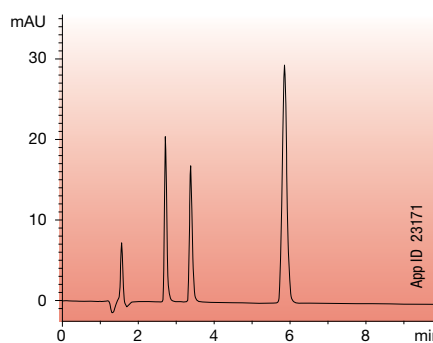


Aromatic Acids

Kromasil® 5 µm C18 100 Å 150 x 4.6 mm

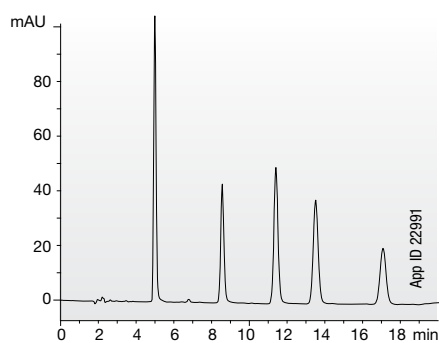


Chrom-Clone 5 µm C18 100 Å 150 x 4.6 mm

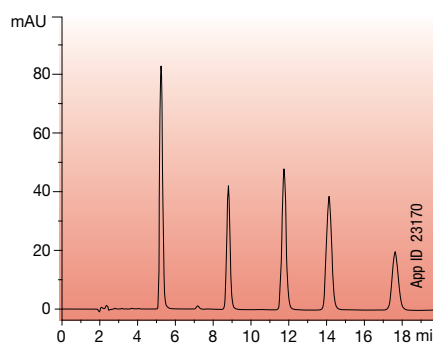


Steroids

Kromasil® 5 µm C18 100 Å 150 x 4.6 mm

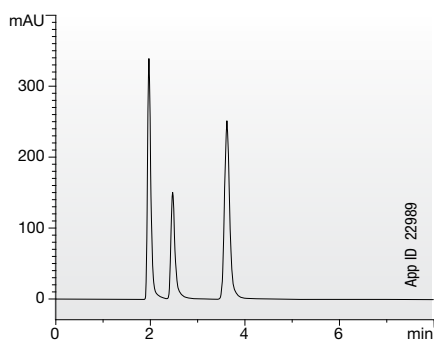


Chrom-Clone 5 µm C18 100 Å 150 x 4.6 mm

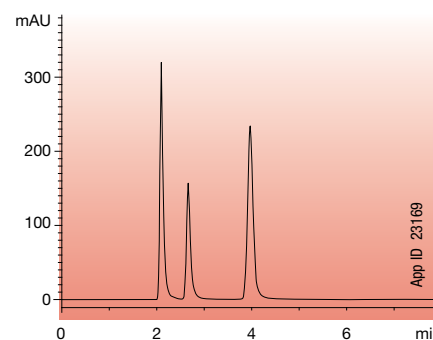


Basic Drugs

Kromasil® 5 µm C18 100 Å 150 x 4.6 mm



Chrom-Clone 5 µm C18 100 Å 150 x 4.6 mm



Comparative separations may not be representative of all applications.

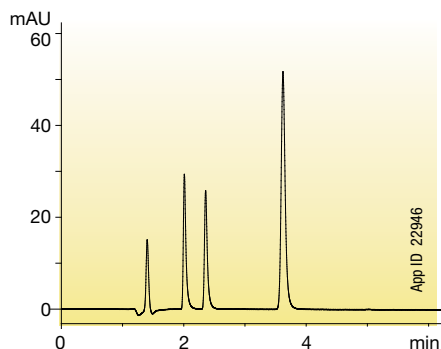
Upgrade to Superior Core-Shell Performance

Without changing column specifications, Kinetex core-shell columns will dramatically improve original Kromasil® methods. Get dramatic increases in sensitivity, resolution, and efficiency for your compounds and methods.



Aromatic Acids

Kinetex 5 µm C18 100 Å 150 x 4.6 mm



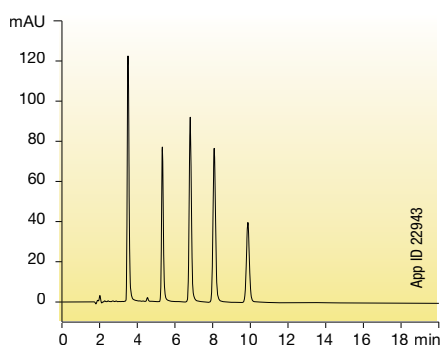
***Same
backpressure,
41% faster
analysis**

Conditions for all columns:

- Columns:** Kinetex 5 µm C18
Chrom-Clone 5 µm C18
Kromasil 5 µm C18
- Dimensions:** 150 x 4.6 mm
- Mobile Phase:** A: 0.1 % H₃PO₄ in Water
B: Acetonitrile with 0.1 % H₃PO₄ (50:50)
- Flow Rate:** 1.0 mL/min
- Detection:** UV @ 254 nm
- Sample:** 1. Benzoic acid
2. o-Toluic acid
3. Naproxen

Steroids

Kinetex 5 µm C18 100 Å 150 x 4.6 mm



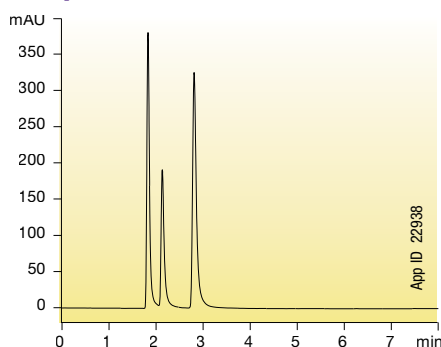
***More than
90% increase
in sensitivity**

Conditions for all columns:

- Columns:** Kinetex 5 µm C18
Chrom-Clone 5 µm C18
Kromasil 5 µm C18
- Dimensions:** 150 x 4.6 mm
- Mobile Phase:** A: 0.1 % H₃PO₄ in Water
B: Acetonitrile
C: Methanol (54:35:11)
- Flow Rate:** 1.0 mL/min
- Detection:** UV @ 254 nm
- Sample:** 1. Hydrocortisone
2. Corticosterone
3. 11- α -Hydroxyprogesterone
4. Cortisone acetate
5. 11-Ketoprogesterone

Basic Drugs

Kinetex 5 µm C18 100 Å 150 x 4.6 mm



***143%
efficiency
increase,
sharper peak
shape**

Conditions for all columns:

- Columns:** Kinetex 5 µm C18
Chrom-Clone 5 µm C18
Kromasil 5 µm C18
- Dimensions:** 150 x 4.6 mm
- Mobile Phase:** A: 20 mM Potassium Phosphate (pH 7.0)
B: Methanol (60:40)
- Flow Rate:** 0.8 mL/min
- Detection:** UV @ 254 nm
- Sample:** 1. Uracil
2. Procainamide
3. N-Acetylprocainamide

*Comparative separations may not be representative of all applications.

Chrom-Clone™

DIRECT REPLACEMENT TO Kromasil® based columns

Your Current Column	SecurityGuard™ Cartridges (mm)				
	Phases	125 x 4.0	150 x 4.6	250 x 4.6	4 x 3.0*
Kromasil 5 µm C18	5 µm C18	00E-4741-D0	00F-4741-E0	00G-4741-E0	AJ0-4287

Your Current Column	SecurityGuard Cartridges (mm)			
	Phases	150 x 4.6	250 x 4.6	4 x 3.0*
Kromasil 5 µm C8	5 µm C8	00F-4740-E0	00G-4740-E0	AJ0-4290

* SecurityGuard Analytical Cartridges require universal holder Part No.: KJ0-4282

Kinetex®

PERFORMANCE IMPROVEMENT TO Kromasil® based columns

Your Current Column	SecurityGuard ULTRA Cartridges†				
	Phases	100 x 4.6	150 x 4.6	250 x 4.6	3pk
Kromasil 3.5 µm C18	2.6 µm C18	00D-4462-E0	00F-4462-E0	–	AJ0-8768
Kromasil 5 µm C18	5 µm C18	00D-4601-E0	00F-4601-E0	00G-4601-E0	AJ0-8768

Your Current Column	SecurityGuard ULTRA Cartridges†			
	Phases	150 x 4.6	250 x 4.6	3pk
Kromasil 5 µm C8	5 µm C8	00F-4601-E0	00G-4601-E0	AJ0-8770

† SecurityGuard ULTRA Cartridges require holder, Part No.: AJ0-9000

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