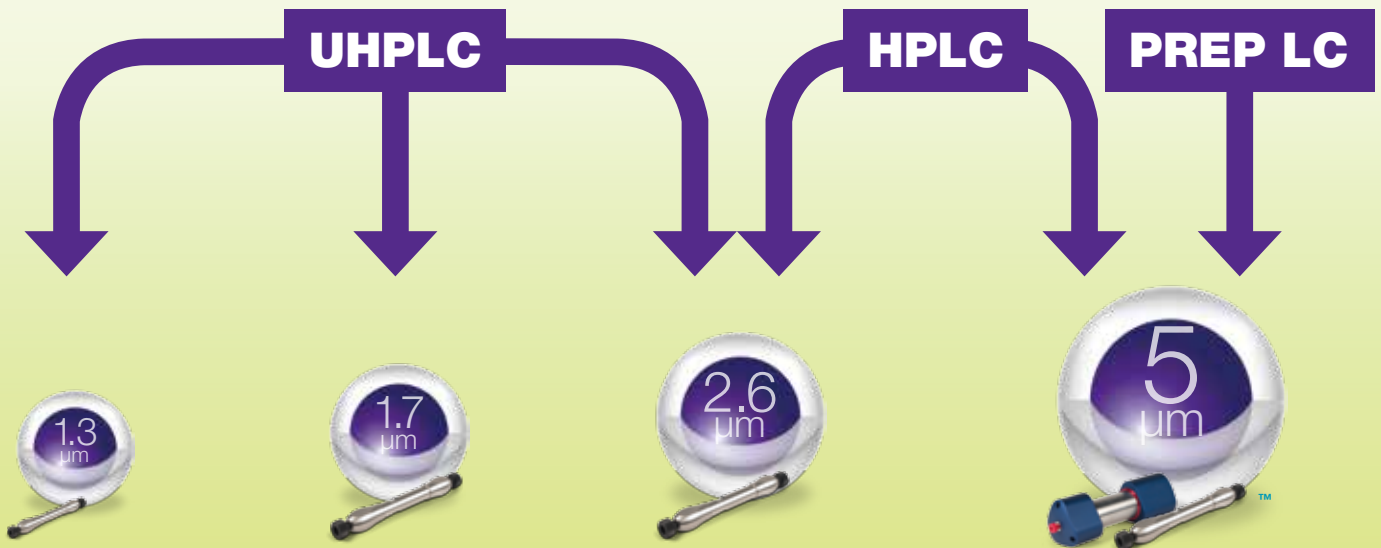


Thrive with Kinetex Core-Shell Technology!

Complete Scalable Solution from UHPLC to HPLC to PREP LC



Incredible UHPLC efficiency and performance gains

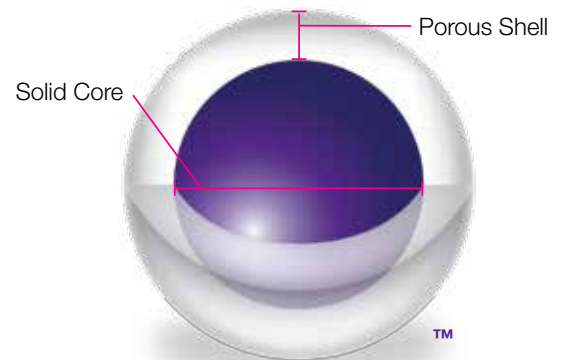
20% higher efficiency than fully porous 1.7 μm columns

Achieve sub-2 μm performance on HPLC and UHPLC systems

3 μm or better efficiencies at 5 μm pressures for HPLC and PREP LC methods

Six Highly Functional Stationary Phases

Phase	Selectivity
Kinetex Biphenyl	Excellent reversed phase and aromatic retention and selectivity
Kinetex C18	General hydrophobic selectivity and increased retention of polar basic compounds
Kinetex XB-C18	Excellent hydrophobic selectivity and increased retention of polar acidic compounds
Kinetex C8	Less hydrophobic than a C18 phase
Kinetex Phenyl-Hexyl	Greater retention and separation of aromatic hydrocarbons
Kinetex HILIC	Increased polar retention under HILIC conditions



Better Performance than Fully Porous Particles

Using sol-gel processing techniques that incorporate nano structuring technology, a durable, homogeneous porous shell is grown on a solid silica core. This highly optimized process combined with industry leading column packing technology produces highly reproducible columns that generate extremely high plate counts.

Fully Porous	vs	Kinetex Core-Shell	Average Efficiency Gain with Kinetex*
5 μm		5 μm	90% Higher
3 μm		2.6 μm	85% Higher
1.7 μm		1.7 μm	20% Higher
1.7 μm		1.3 μm	50% Higher

* May not be representative of all applications

KINETEX.
Core-Shell Technology

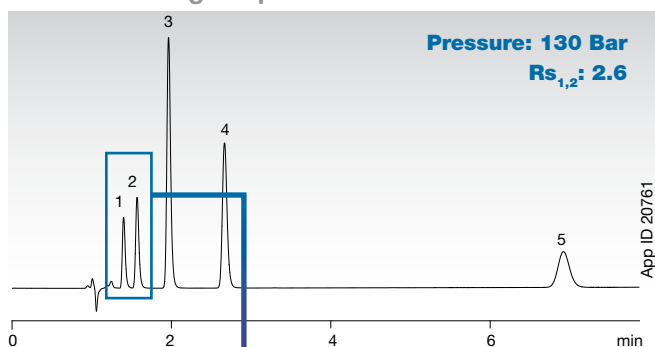


Instantly Improve 5 µm and 3 µm Methods

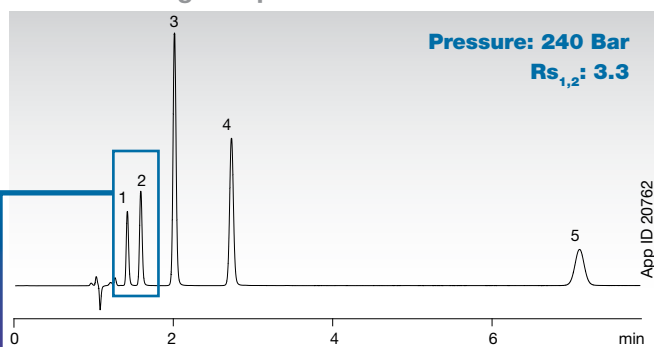
Immediately improve resolution, productivity, and sensitivity of your current 3 µm and 5 µm HPLC methods with **Kinetex 5 µm** core-shell technology. This core-shell particle was specifically developed for use on standard or older model HPLC systems that may have low pressure limitations.

Higher Resolution with No Pressure Increase

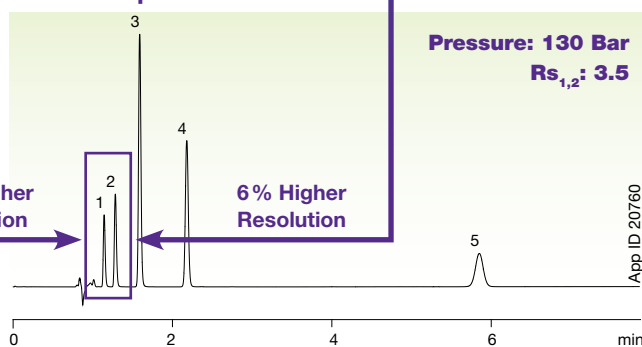
Waters® XBridge® 5 µm C18



Waters XBridge 3.5 µm C18



Kinetex 5 µm C18



Conditions for all columns:

Columns: Kinetex 5 µm C18
XBridge 5 µm C18
XBridge 3.5 µm C18

Dimensions: 150 x 4.6 mm

Mobile Phase: Water/Acetonitrile/Phosphoric acid (600:400:2)

Flow Rate: 1.5 mL/min

Temperature: Ambient

Detection: UV @ 235 nm

Sample: 1. Impurity A
2. Impurity B
3. Acetylsalicylic acid
4. Salicylic acid
5. Impurity D

Waters and XBridge are registered trademarks of Waters Corporation. Phenomenex is not affiliated with Waters Corporation. Comparative separations may not be representative of all applications.

First and Only Core-Shell Material for Axia™ Preparative Purifications

Axia packed Kinetex 5 µm columns will provide incredible gains in efficiency and performance for any of your Prep LC methods. Learn more online at: www.phenomenex.com/kinetexpres



Award Recipient



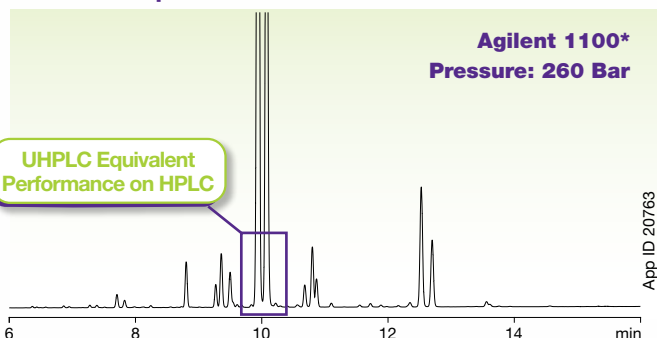
A Versatile Upgrade for HPLC and UHPLC



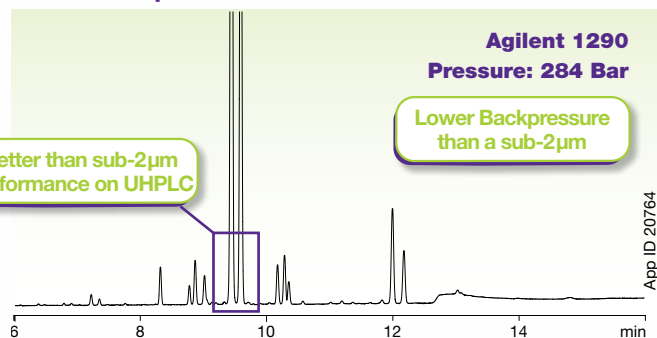
On a low volume HPLC or UHPLC system **Kinetex 2.6 µm** columns will perform like a fully porous sub-2 µm column, providing up to 3x the efficiency of 5 µm and double the efficiency of 3 µm fully porous media. Dramatically improve the productivity and performance of your existing methods with the use of shorter Kinetex columns, all while decreasing your solvent usage!

Sub-2 µm Performance with Kinetex 2.6 µm on HPLC and UHPLC Systems

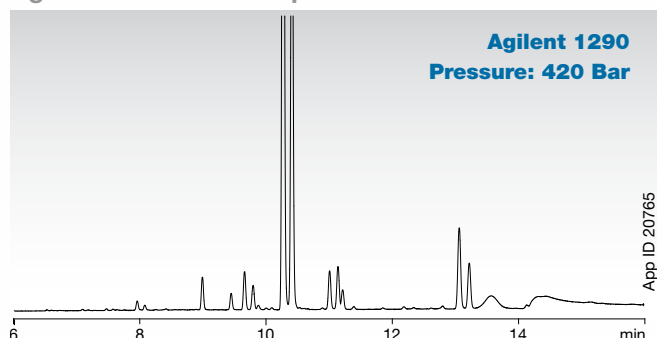
Kinetex 2.6 µm C18



Kinetex 2.6 µm C18



Agilent® ZORBAX® 1.8 µm SB-C18



Conditions for all columns same except where noted:

- Columns:** Kinetex 2.6 µm C18 (Agilent 1100*)
Kinetex 2.6 µm C18 (Agilent 1290)
ZORBAX 1.8 µm SB-C18 (Agilent 1290)
- Dimensions:** 100 x 4.6 mm
- Mobile Phase:** A: Water with 0.1% TFA
B: Acetonitrile with 0.1% TFA
- | Gradient: | Time (min) | % B |
|-----------|------------|-----|
| | 0 | 10 |
| | 20 | 70 |
- Flow Rate:** 1.2 mL/min
- Temperature:** Ambient
- Detection:** UV @ 210 nm
- Sample:** Mupirocin degradants

*Agilent 1100 was optimized with the Core-Shell Performance Enhancement Kit AQ0-8892.

Agilent and ZORBAX are registered trademarks of Agilent Technologies, Inc. Phenomenex is not affiliated with Agilent Technologies. Comparative separations may not be representative of all applications.

Maximize Performance with Kinetex 2.6 µm

Decrease the system dwell volume of your HPLC instrument with the pre-cut tubing and column fittings found in the Core-Shell Performance Enhancement Kit and instantly improve the observed performance of your Kinetex core-shell 2.6 µm column.

www.phenomenex.com/enhancement



AQ0-8892



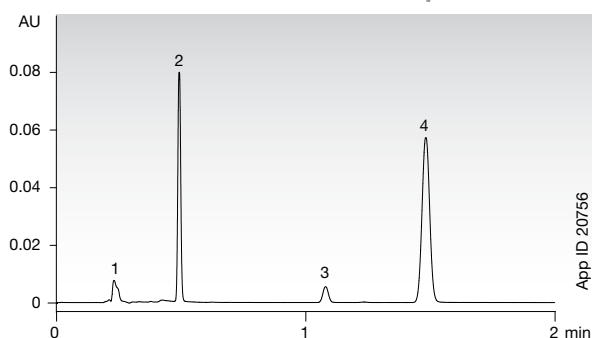
Get the Most Performance Out of Your UHPLC System



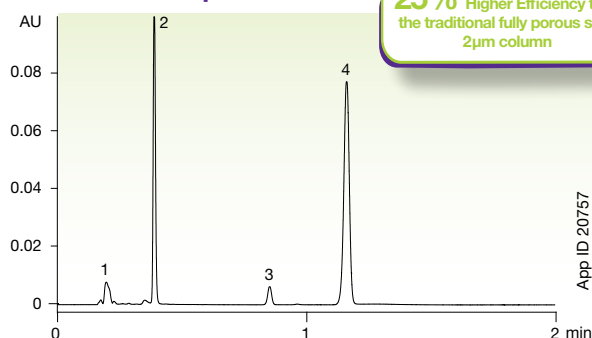
Kinetex 1.3 and 1.7 μm Core-Shell Technology produces increased efficiencies over traditional sub-2 μm columns on the market, yielding remarkable chromatographic resolution, higher peak capacities, and greater sensitivity, so you can get the most out of every UHPLC analysis.

Incredible Efficiency Gains

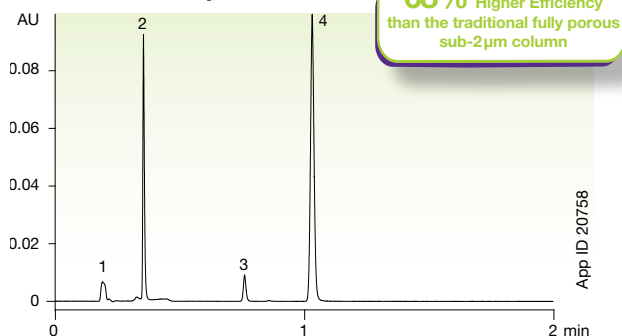
Waters® ACQUITY® BEH™ 1.7 μm C18



Kinetex 1.7 μm C18



Kinetex 1.3 μm C18



Easy Installation on UHPLC Systems:
www.phenomenex.com/kinetex

- Conditions for all columns:**
- Columns:** Kinetex 1.7 μm C18
Kinetex 1.3 μm C18
ACQUITY UPLC® BEH 1.7 μm C18
 - Dimensions:** 50 x 2.1 mm
 - Mobile Phase:** Acetonitrile / Water (50:50)
 - Flow Rate:** 0.5 mL/min
 - Temperature:** Ambient
 - Detection:** UV @ 254 nm
 - Instrument:** Waters® ACQUITY® UPLC®
 - Sample:** 1. Acetophenone
2. Benzene
3. Toluene
4. Naphthalene



Efficiency calculated from peak 4 in each chromatogram. Waters, ACQUITY, and UPLC are registered trademarks, and BEH Technology is a trademark of Waters Corporation. Phenomenex is not affiliated with Waters Corporation. Comparative separations may not be representative of all applications.

Column Protection with No Loss in Performance

Trap contaminants and microparticulates within the SecurityGuard ULTRA guard cartridge system and learn how to greatly extend UHPLC column life at:

www.phenomenex.com/SecurityGuardULTRA



Ordering Information

5 µm Columns (mm)		SecurityGuard™ ULTRA Cartridges†					SecurityGuard ULTRA Cartridges†
Phases	50 x 2.1	3/pk	50 x 4.6	100 x 4.6	150 x 4.6	250 x 4.6	3/pk
Biphenyl	00B-4627-AN	AJO-9209	00B-4627-E0	00D-4627-E0	00F-4627-E0	00G-4627-E0	AJO-9207
XB-C18	00B-4605-AN	AJO-8782	00B-4605-E0	00D-4605-E0	00F-4605-E0	00G-4605-E0	AJO-8768
C18	00B-4601-AN	AJO-8782	00B-4601-E0	00D-4601-E0	00F-4601-E0	00G-4601-E0	AJO-8768
C8	00B-4608-AN	AJO-8784	00B-4608-E0	00D-4608-E0	00F-4608-E0	00G-4608-E0	AJO-8770
Phenyl-Hexyl	00B-4603-AN	AJO-8788	00B-4603-E0	00D-4603-E0	00F-4603-E0	00G-4603-E0	AJO-8774

for 2.1 mm ID

for 4.6 mm ID

5 µm Axia™ Packed Preparative Columns (mm)					SecurityGuard PREP Cartridges**
Phases	50 x 21.2	100 x 21.2	150 x 21.2	250 x 21.2	15 x 21.2
XB-C18	00B-4605-P0-AX	00D-4605-P0-AX	00F-4605-P0-AX	00G-4605-P0-AX	AJO-9145
C18	00B-4601-P0-AX	00D-4601-P0-AX	00F-4601-P0-AX	00G-4601-P0-AX	AJO-9145
C8	00B-4608-P0-AX	00D-4608-P0-AX	00F-4608-P0-AX	00G-4608-P0-AX	AJO-9205
Phenyl-Hexyl	00B-4603-P0-AX	00D-4603-P0-AX	00F-4603-P0-AX	00G-4603-P0-AX	AJO-9147

for 18-29 mm ID



If you are not completely satisfied with Kinetex core-shell columns, send in your comparative data to a similar product within 45 days and KEEP THE COLUMN FOR FREE.

5 µm Axia™ Packed Preparative Columns (mm) (continued)					SecurityGuard PREP Cartridges**
Phases	50 x 30	100 x 30	150 x 30	250 x 30	15 x 30
XB-C18	00B-4605-U0-AX	00D-4605-U0-AX	00F-4605-U0-AX	00G-4605-U0-AX	AJO-9204
C18	00B-4601-U0-AX	00D-4601-U0-AX	00F-4601-U0-AX	00G-4601-U0-AX	AJO-9204
C8	00B-4608-U0-AX	00D-4608-U0-AX	00F-4608-U0-AX	00G-4608-U0-AX	AJO-9217
Phenyl-Hexyl	00B-4603-U0-AX	00D-4603-U0-AX	00F-4603-U0-AX	00G-4603-U0-AX	AJO-9216

for 30 mm ID

2.6 µm Analytical Columns (mm)						SecurityGuard ULTRA Cartridges†
Phases	30 x 4.6	50 x 4.6	75 x 4.6	100 x 4.6	150 x 4.6	3/pk
Biphenyl	—	00B-4622-E0	—	00D-4622-E0	00F-4622-E0	AJO-9207
XB-C18	—	00B-4496-E0	00C-4496-E0	00D-4496-E0	00F-4496-E0	AJO-8768
C18	00A-4462-E0	00B-4462-E0	00C-4462-E0	00D-4462-E0	00F-4462-E0	AJO-8768
C8	—	00B-4497-E0	00C-4497-E0	00D-4497-E0	00F-4497-E0	AJO-8770
HILIC	—	00B-4461-E0	00C-4461-E0	00D-4461-E0	00F-4461-E0	AJO-8772
Phenyl-Hexyl	—	00B-4495-E0	00C-4495-E0	00D-4495-E0	00F-4495-E0	AJO-8774

for 4.6 mm ID

2.6 µm MidBore™ Columns (mm)						SecurityGuard ULTRA Cartridges†
Phases	30 x 3.0	50 x 3.0	75 x 3.0	100 x 3.0	150 x 3.0	3/pk
Biphenyl	—	00B-4622-Y0	—	—	—	AJO-9208
XB-C18	00A-4496-Y0	00B-4496-Y0	00C-4496-Y0	00D-4496-Y0	00F-4496-Y0	AJO-8775
C18	00A-4462-Y0	00B-4462-Y0	00C-4462-Y0	00D-4462-Y0	00F-4462-Y0	AJO-8775
C8	00A-4497-Y0	00B-4497-Y0	00C-4497-Y0	00D-4497-Y0	00F-4497-Y0	AJO-8777
HILIC	00A-4461-Y0	—	—	—	00F-4461-Y0	AJO-8779
Phenyl-Hexyl	—	—	—	00D-4495-Y0	00F-4495-Y0	AJO-8781

for 3.0 mm ID

2.6 µm Minibore Columns (mm)						SecurityGuard ULTRA Cartridges†
Phases	30 x 2.1	50 x 2.1	75 x 2.1	100 x 2.1	150 x 2.1	3/pk
Biphenyl	—	00B-4622-AN	—	00D-4622-AN	—	AJO-9209
XB-C18	00A-4496-AN	00B-4496-AN	00C-4496-AN	00D-4496-AN	00F-4496-AN	AJO-8782
C18	00A-4462-AN	00B-4462-AN	00C-4462-AN	00D-4462-AN	00F-4462-AN	AJO-8782
C8	00A-4497-AN	00B-4497-AN	00C-4497-AN	00D-4497-AN	00F-4497-AN	AJO-8784
HILIC	00A-4461-AN	00B-4461-AN	00C-4461-AN	00D-4461-AN	00F-4461-AN	AJO-8786
Phenyl-Hexyl	00A-4495-AN	00B-4495-AN	00C-4495-AN	00D-4495-AN	00F-4495-AN	AJO-8788

for 2.1 mm ID

1.7 µm MidBore Columns (mm)					SecurityGuard ULTRA Cartridges†
Phases	30 x 3.0	50 x 3.0	100 x 3.0	3/pk	
XB-C18	00A-4498-Y0	00B-4498-Y0	00D-4498-Y0	AJO-8775	
C18	—	00B-4475-Y0	00D-4475-Y0	AJO-8775	
C8	00A-4499-Y0	00B-4499-Y0	00D-4499-Y0	AJO-8777	
HILIC	—	00B-4474-Y0	—	AJO-8779	
Phenyl-Hexyl	—	—	—	AJO-8781	

for 3.0 mm ID

1.3 µm Columns (mm)	
Phase	50 x 2.1
C18	00B-4515-AN



1.7 µm Minibore Columns (mm)					SecurityGuard ULTRA Cartridges†
Phases	30 x 2.1	50 x 2.1	100 x 2.1	150 x 2.1	3/pk
XB-C18	00A-4498-AN	00B-4498-AN	00D-4498-AN	00F-4498-AN	AJO-8782
C18	00A-4475-AN	00B-4475-AN	00D-4475-AN	00F-4475-AN	AJO-8782
C8	00A-4499-AN	00B-4499-AN	00D-4499-AN	00F-4499-AN	AJO-8784
HILIC	00A-4474-AN	00B-4474-AN	00D-4474-AN	—	AJO-8786
Phenyl-Hexyl	—	00B-4500-AN	00D-4500-AN	00F-4500-AN	AJO-8788

for 2.1 mm ID

†SecurityGuard ULTRA cartridges require holder, Part No.: AJO-9000

**PREP SecurityGuard Cartridges require holder, Part No.: AJO-8223

***PREP SecurityGuard Cartridges require holder, Part No.: AJO-8277

1. Interested in how to connect a Kinetex column to your system?
2. Craving a certain HPLC/UHPLC application?
3. Looking to protect your UHPLC column?
4. Need method optimization tips?
5. Just want more core-shell?

Visit the Kinetex® experience online
www.phenomenex.com/Kinetex
for all this and much more!





EASY TRANSFERABILITY

“The Kinetex column has worked great for our validated assays. We easily converted our HPLC methods to UPLC® methods using the Kinetex column and have enjoyed being [able] to run fast UPLC® chromatography...”

Amgen



IMPROVED RESULTS

“I was able to reduce my analysis time from 150 minutes to 60 minutes (including equilibration time) with the use of Kinetex!”

DSM Nutritional Products



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Core-Shell Technology

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Axia is patented by Phenomenex. U.S. Patent No. 7,674,383

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Thrive

with Kinetex Core-Shell Technology

Shockingly better performance than your current HPLC/UHPLC/PREP LC column. **Guaranteed!***



phenomenex[®]
...breaking with traditionSM



* See ordering information page for complete guarantee details.



SIGNIFICANT COST SAVINGS

“The 1.7 μ m Kinetex 100 x 2.1 mm column was capable of resolving 16 different chemical entities with a 6 minute run time. This new analytical method will be used to replace 16 older methods thereby facilitating an annualised cost saving for the site of €320,000 (\$ 460,000 USD). ”

Pfizer



CLINICAL

ENVIRONMENTAL



INCREASED PRODUCTIVITY

“Simple, efficient, and amazing resolution! Implementation of the Kinetex columns has allowed me to significantly increase production time while reducing solvent usage nearly tenfold... ”

Bold Formulators