

Lux Cellulose-1

Guaranteed Alternative
to CHIRALCEL[®] OD-H[®]



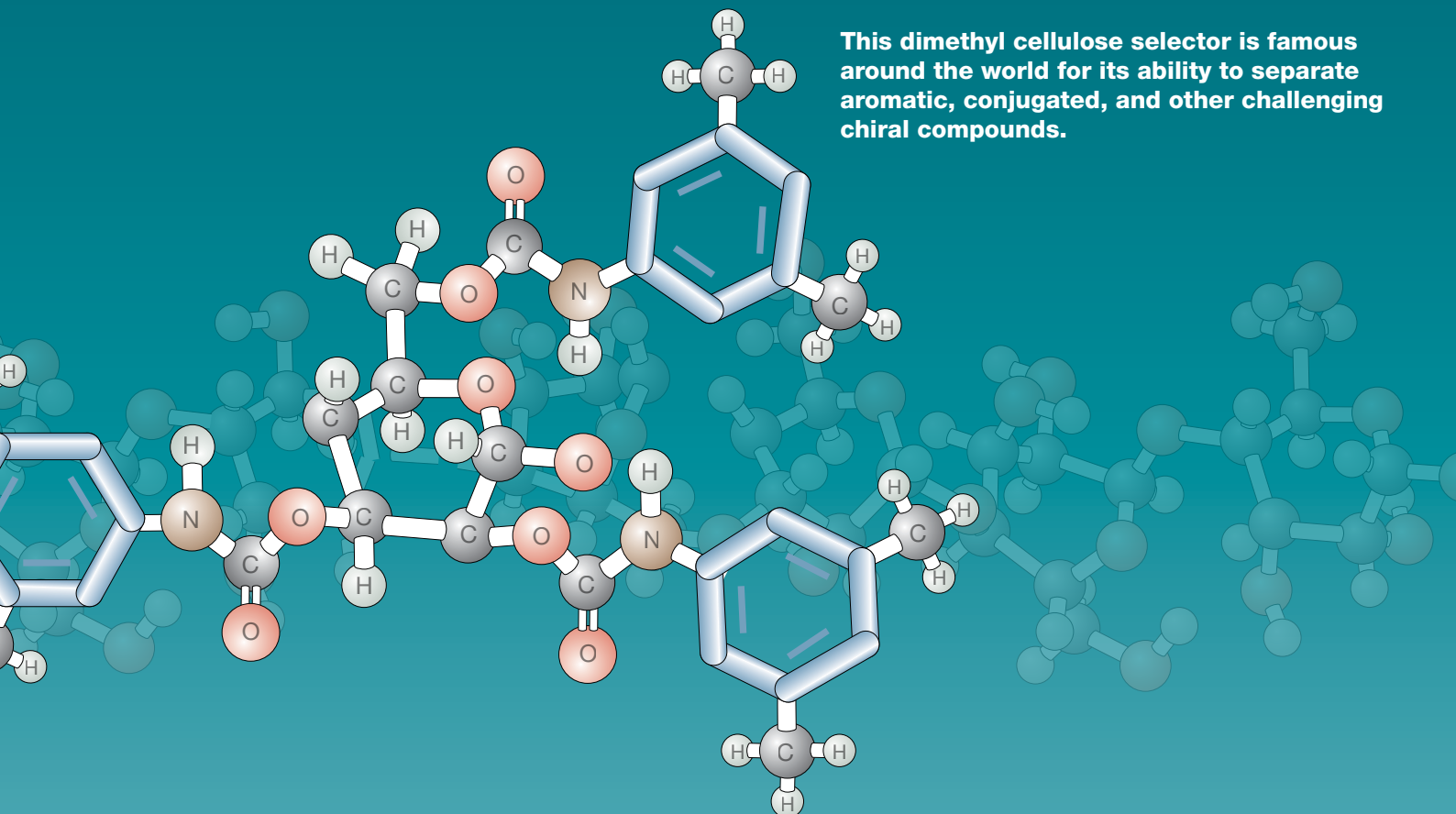
- Exceptional Quality
- Sensibly Priced



LuxTM Cellulose-1

Cellulose tris(3,5-dimethylphenylcarbamate)

This dimethyl cellulose selector is famous around the world for its ability to separate aromatic, conjugated, and other challenging chiral compounds.



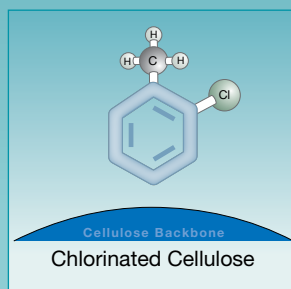
Advantages of using Lux Cellulose-1

- Proven universal selector
- Available in 3 μ m, 5 μ m, and 20 μ m
- Sensibly priced
- Stable up to 300 bar (4,350 psi)
- Easy solvent switching

Meet the Rest of the Lux Family!

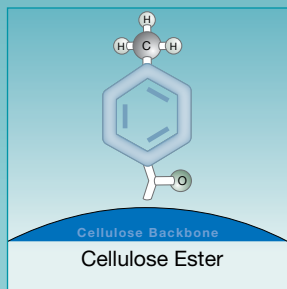
Lux Cellulose-2

cellulose tris(3-chloro-4-methylphenylcarbamate)



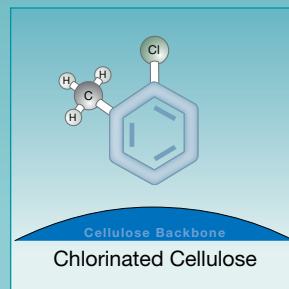
Lux Cellulose-3

cellulose tris(4-methylbenzoate)



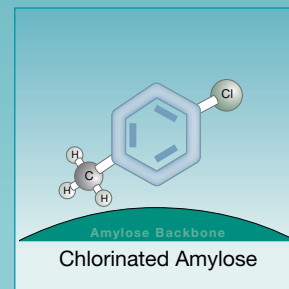
Lux Cellulose-4

cellulose tris(4-chloro-3-methylphenylcarbamate)



Lux Amylose-2

amylose tris(5-chloro-2-methylphenylcarbamate)



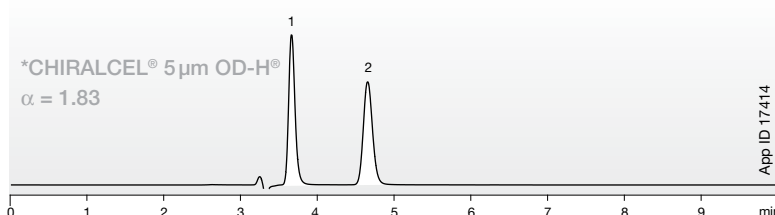
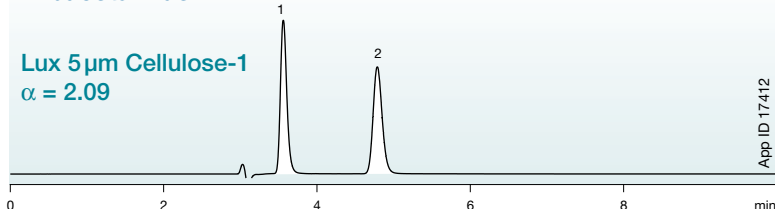
The Lux line of CSPs offers 5 complementary selectivities

Guaranteed Alternative to CHIRALCEL® OD-H®

If Lux analytical columns (≤ 4.6 mm ID) do not provide at least an equivalent or better separation as compared to a competing column of the same particle size, similar phase and dimensions, send in your comparative data within 45 days and keep the Lux column for FREE.

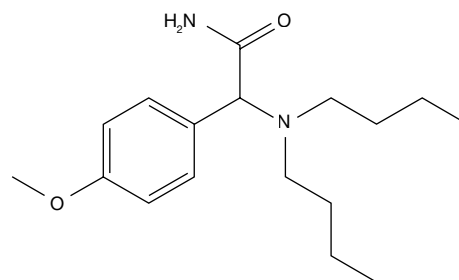
guarantee

Ambucetamide

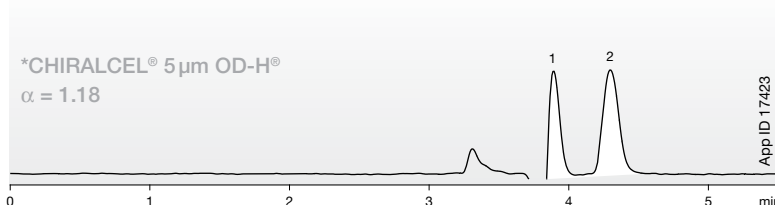
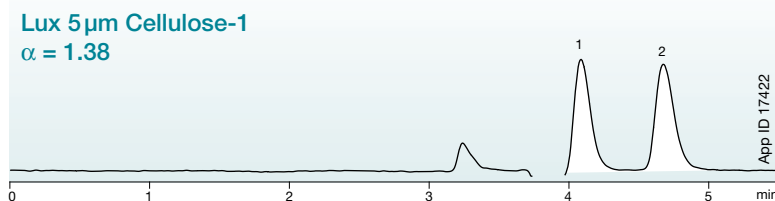


Conditions for both columns:

Dimensions: 250 x 4.6 mm
Mobile Phase: 0.1 % Diethylamine in Methanol /
 0.1 % Diethylamine in Isopropanol (90:10)
Flow Rate: 1 mL/min
Temperature: Ambient
Detection: UV @ 220 nm

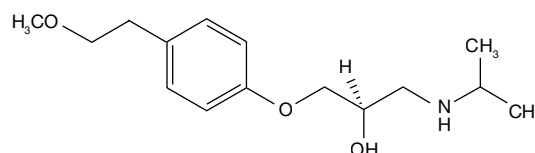


Metoprolol

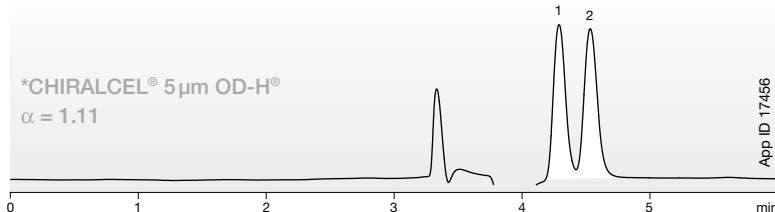
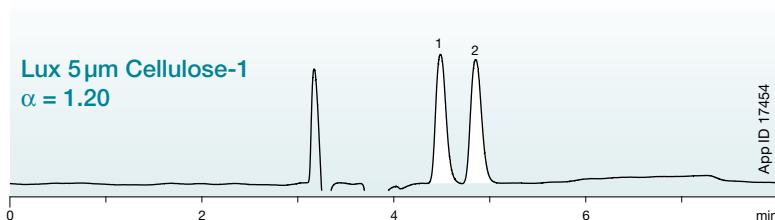


Conditions for both columns:

Dimensions: 250 x 4.6 mm
Mobile Phase: 0.1 % Diethylamine in Acetonitrile /
 0.1 % Diethylamine in Isopropanol (95:5)
Flow Rate: 1 mL/min
Temperature: Ambient
Detection: UV @ 220 nm

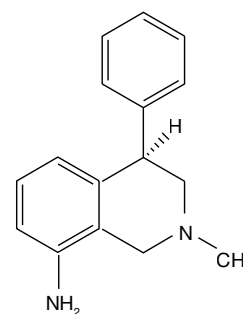


Nomifensine



Conditions for both columns:

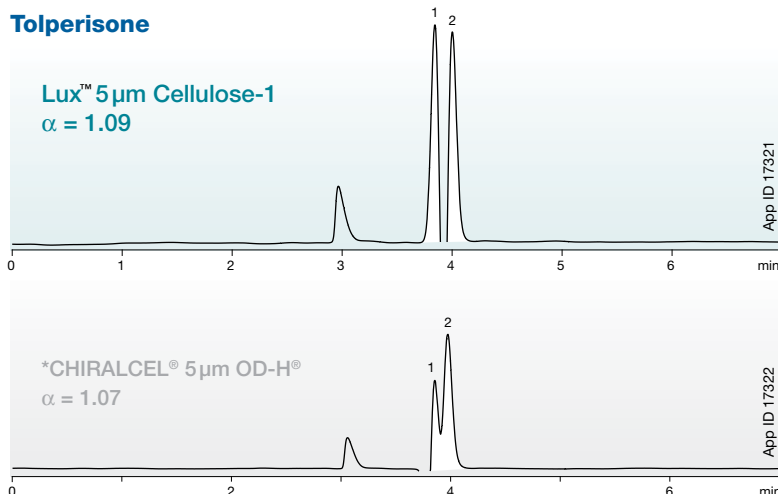
Dimensions: 250 x 4.6 mm
Mobile Phase: 0.1 % Diethylamine in Acetonitrile /
 0.1 % Diethylamine in Isopropanol (95:5)
Flow Rate: 1 mL/min
Temperature: Ambient
Detection: UV @ 220 nm



Specialized Coating Process and Expert Packing Provides Optimal Column Performance.

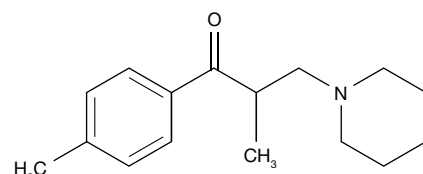
Our robust coating and packing process allows you to enjoy increased loading capacity, column reproducibility, and exceptional enantiomeric resolution. Achieve the optimal efficiencies you desire without sacrificing chiral recognition abilities.

Tolperisone

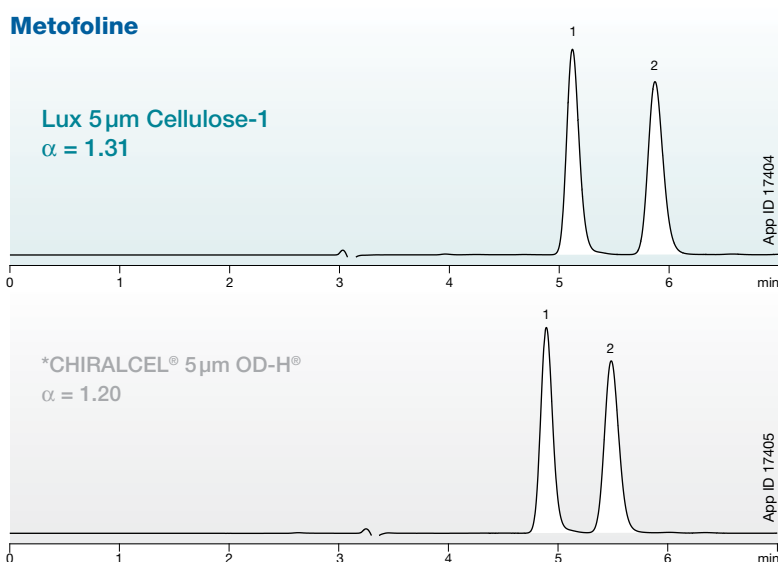


Conditions for both columns:

Dimensions: 250 x 4.6 mm
Mobile Phase: 0.1 % Diethylamine in Hexane /
 0.1 % Diethylamine in Isopropanol (90:10)
Flow Rate: 1 mL/min
Temperature: Ambient
Detection: UV @ 220 nm

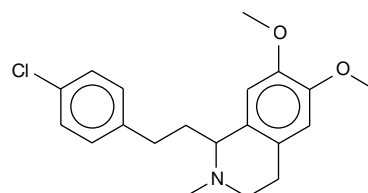


Metofoline

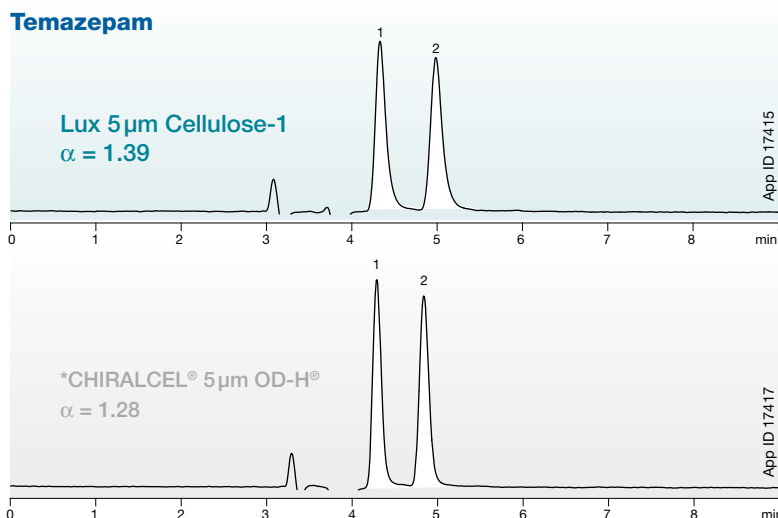


Conditions for both columns:

Dimensions: 250 x 4.6 mm
Mobile Phase: 0.1 % Diethylamine in Methanol /
 0.1 % Diethylamine in Isopropanol (90:10)
Flow Rate: 1 mL/min
Temperature: Ambient
Detection: UV @ 220 nm

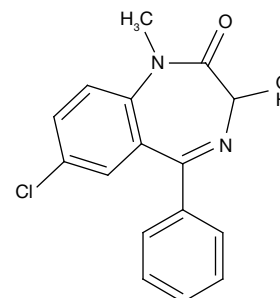


Temazepam



Conditions for both columns:

Dimensions: 250 x 4.6 mm
Mobile Phase: 0.1 % Diethylamine in Acetonitrile /
 0.1 % Diethylamine in Isopropanol (95:5)
Flow Rate: 1 mL/min
Temperature: Ambient
Detection: UV @ 220 nm

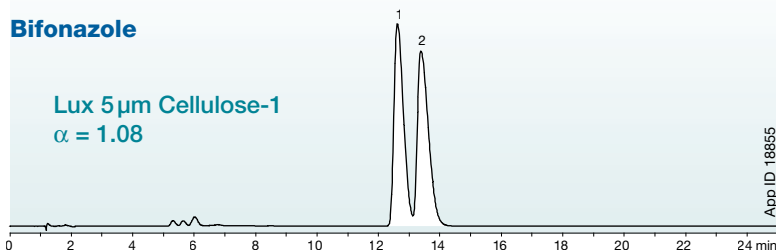


Extreme Stability and Separating Power under SFC Conditions.

Never fear crushed media or loss in efficiency again. With a pressure stability up to 300 bar (4,350 psi), you can feel confident about running at high operating pressures (if necessary). Lux media is SFC approved and versatile enough to satisfy all of your chiral separation needs.

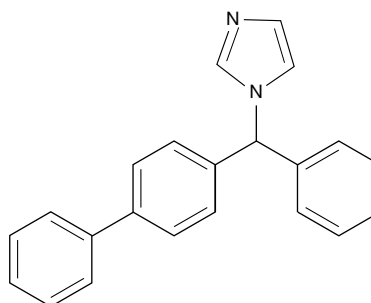
Bifonazole

Lux 5 μ m Cellulose-1
 $\alpha = 1.08$

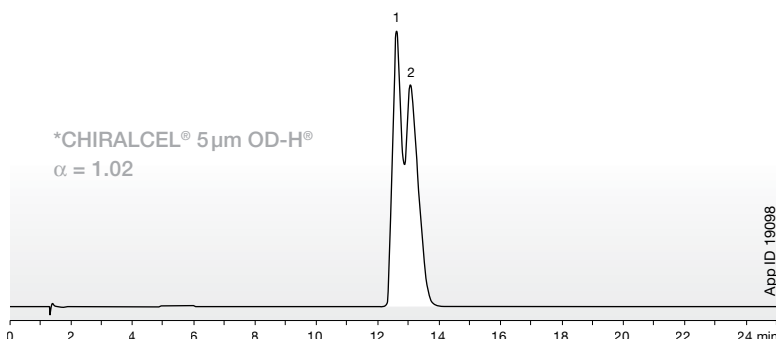


Conditions for both columns:

Dimensions: 250 x 4.6 mm
Mobile Phase: 0.1 % Diethylamine in Methanol / Carbon Dioxide (15:85)
Flow Rate: 2.5 mL/min
Temperature: 35 °C
Detection: Diode Array Detector

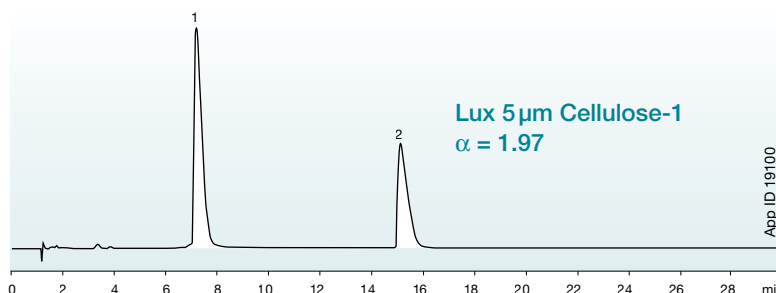


*CHIRALCEL® 5 μ m OD-H®
 $\alpha = 1.02$



Atenolol

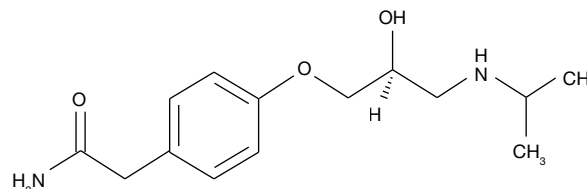
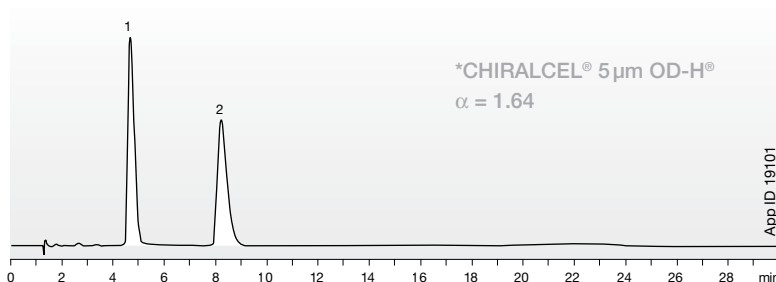
Lux 5 μ m Cellulose-1
 $\alpha = 1.97$



Conditions for both columns:

Dimensions: 250 x 4.6 mm
Mobile Phase: 0.1 % Diethylamine in Methanol / Carbon Dioxide (20:80)
Flow Rate: 2.5 mL/min
Temperature: 35 °C
Detection: Diode Array Detector

*CHIRALCEL® 5 μ m OD-H®
 $\alpha = 1.64$



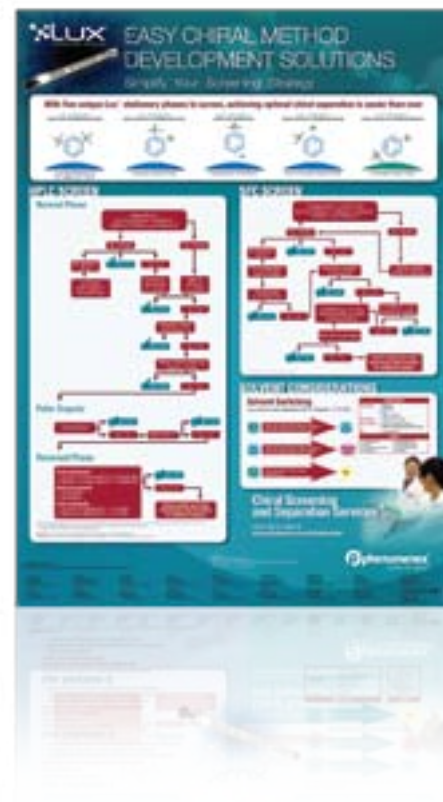
Easy Chiral Method Development

Resolve 92 % of your enantiomers with five complementary Lux™ phases.*

To get you started, we have outlined a simple strategy for screening CSPs under HPLC and SFC conditions in our chiral method development solutions poster.

Call or go online today to create your own custom screening kit or to request a chiral method development solutions poster at www.phenomenex.com/info/lux

*Based on screening 233 compounds on all five Lux Phases



Chiral Screening and Separation Services

HPLC | SFC | Preparative | Training

- Chiral Phase Screening
- Method Optimization
- Method Re-Validation
- Scale-Up Services
- On-Site Training

For more information on our services or to begin a project, please contact your local Phenomenex chiral expert or email us at: phenologics@phenomenex.com

You can also visit us on the web:
www.phenomenex.com/phenologics



Ordering Information



3 µm Analytical Columns (mm)

	50 x 2.0	150 x 2.0	50 x 4.6	100 x 4.6	150 x 4.6	250 x 4.6	SecurityGuard [™] Cartridges (mm)	
Phases							4 x 2.0*	4 x 3.0*
							/10pk	/10pk
Cellulose-1	00B-4458-B0	00F-4458-B0	00B-4458-E0	00D-4458-E0	00F-4458-E0	00G-4458-E0	AJ0-8402	AJ0-8403
Cellulose-2	00B-4456-B0	00F-4456-B0	00B-4456-E0	00D-4456-E0	00F-4456-E0	00G-4456-E0	AJ0-8398	AJ0-8366
Cellulose-3	00B-4492-B0	00F-4492-B0	00B-4492-E0	00D-4492-E0	00F-4492-E0	00G-4492-E0	AJ0-8621	AJ0-8622
Cellulose-4	00B-4490-B0	00F-4490-B0	00B-4490-E0	00D-4490-E0	00F-4490-E0	00G-4490-E0	AJ0-8626	AJ0-8627
Amylose-2	00B-4471-B0	00F-4471-B0	00B-4471-E0	00D-4471-E0	00F-4471-E0	00G-4471-E0	AJ0-8471	AJ0-8470

for ID: 2.0–3.0 mm 3.2–8.0 mm

5 µm Analytical Columns (mm)

	50 x 2.0	50 x 4.6	100 x 4.6	150 x 4.6	250 x 4.6	SecurityGuard [™] Cartridges (mm)	
Phases						4 x 2.0*	4 x 3.0*
						/10pk	/10pk
Cellulose-1	00B-4459-B0	00B-4459-E0	00D-4459-E0	00F-4459-E0	00G-4459-E0	AJ0-8402	AJ0-8403
Cellulose-2	00B-4457-B0	00B-4457-E0	00D-4457-E0	00F-4457-E0	00G-4457-E0	AJ0-8398	AJ0-8366
Cellulose-3	00B-4493-B0	00B-4493-E0	00D-4493-E0	00F-4493-E0	00G-4493-E0	AJ0-8621	AJ0-8622
Cellulose-4	00B-4491-B0	00B-4491-E0	00D-4491-E0	00F-4491-E0	00G-4491-E0	AJ0-8626	AJ0-8627
Amylose-2	00B-4472-B0	00B-4472-E0	00D-4472-E0	00F-4472-E0	00G-4472-E0	AJ0-8471	AJ0-8470

for ID: 2.0–3.0 mm 3.2–8.0 mm

5 µm Semi-Prep Columns (mm)

	150 x 10.0	250 x 10.0	10 x 10.0*
Phases			/3pk
Cellulose-1	00F-4459-N0	00G-4459-N0	AJ0-8404
Cellulose-2	00F-4457-N0	00G-4457-N0	AJ0-8399
Cellulose-3	00F-4493-N0	00G-4493-N0	AJ0-8623
Cellulose-4	00F-4491-N0	00G-4491-N0	AJ0-8628
Amylose-2	00F-4472-N0	00G-4472-N0	AJ0-8472

for ID: 9–16 mm

SecurityGuard[™]
Cartridges (mm)

20 µm Bulk Media

	100 g	1 kg
Phases		
Cellulose-1	04G-4473	04K-4473
Cellulose-2	04G-4464	04K-4464
Amylose-2	Δ	Δ

*Please inquire for 20 µm Lux Amylose-2, Cellulose-3 or Cellulose-4 media.



5 µm Axia[™] Packed Preparative Columns (mm)

	150 x 21.2	250 x 21.2	250 x 30	250 x 50	SecurityGuard [™] Cartridges (mm)	
Phases					15 x 21.2**	15 x 30.0*
					/ea	/ea
Cellulose-1	00F-4459-P0-AX	00G-4459-P0-AX	00G-4459-U0-AX	00G-4459-V0-AX	AJ0-8405	AJ0-8406
Cellulose-2	00F-4457-P0-AX	00G-4457-P0-AX	00G-4457-U0-AX	00G-4457-V0-AX	AJ0-8400	AJ0-8401
Cellulose-3	00F-4493-P0-AX	00G-4493-P0-AX	00G-4493-U0-AX	00G-4493-V0-AX	AJ0-8624	AJ0-8625
Cellulose-4	00F-4491-P0-AX	00G-4491-P0-AX	00G-4491-U0-AX	00G-4491-V0-AX	AJ0-8629	AJ0-8630
Amylose-2	00F-4472-P0-AX	00G-4472-P0-AX	00G-4472-U0-AX	00G-4472-V0-AX	AJ0-8473	AJ0-8474

for ID: 18–29 mm 30–49 mm

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

**SemiPrep SecurityGuard Cartridges require holder, Part No. : AJ0-7220

***PREP SecurityGuard Cartridges require holder, Part No. : AJ0-8223

*PREP SecurityGuard Cartridges require holder, Part No. : AJ0-8277



3 µm Method Screening Kits (save 10 % when purchased as a kit)

	50 x 4.6 mm	250 x 4.6 mm
Screening Kit ^Δ	KH0-8483	KH0-8482

^ΔKit contains one column of each phase.

Column Performance Check Standard

Part No.	Description	Unit	Price
AL0-8412	Chiral Test Mix No. 5 (Lux)	ea	



Terms and Conditions

Subject to Phenomenex Standard Terms & Conditions, which may be viewed at www.phenomenex.com/TermsAndConditions.

Trademarks

CHIRALCEL and OD-H are registered trademarks of DAICEL Chemical Industries, Ltd. Axia, Lux, and SecurityGuard are trademarks of Phenomenex, Inc.

Disclaimer

Comparative separations may not be representative of all applications. Columns used for comparison were manufactured by DAICEL Chemical Industries, Ltd. Phenomenex is not affiliated with DAICEL Chemical Industries.

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If Lux analytical columns (≤ 4.6 mm ID) do not provide at least an equivalent or better separation as compared to a competing column of the same particle size, similar phase and dimensions, send in your comparative data within 45 days and keep the Lux column for FREE.

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www.phenomenex.com

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