

Rapid, Reliable, and Amazing LC Columns for

Cannabis Testing



 **phenomenex**[®]
...breaking with traditionSM



www.phenomenex.com/LCCAN

Liquid Chromatography Columns to Fit Your Need

Whether you're testing for Potency, Pesticides, Terpenes, or doing Extractions, Cannabis Testing requires a range of phase selectivities and reliable LC columns.



Application Selection and Column Recommendations

65 California Pesticides by LC-MS/MS

Luna® Omega Polar C18

59 Oregon Pesticides by LC-MS/MS

Kinetex® Biphenyl

12 Cannabinoids by LC-UV

Luna Omega Polar C18

10 Cannabinoids by UHPLC-UV

Luna Omega Polar C18

10 Cannabinoids by LC-MS/MS

Kinetex Biphenyl

Aflatoxins by LC-MS/MS

Kinetex Biphenyl

Terpenes by LC-MS/MS

Kinetex Biphenyl

Find more applications and complete method details at
www.phenomenex.com/LCCAN

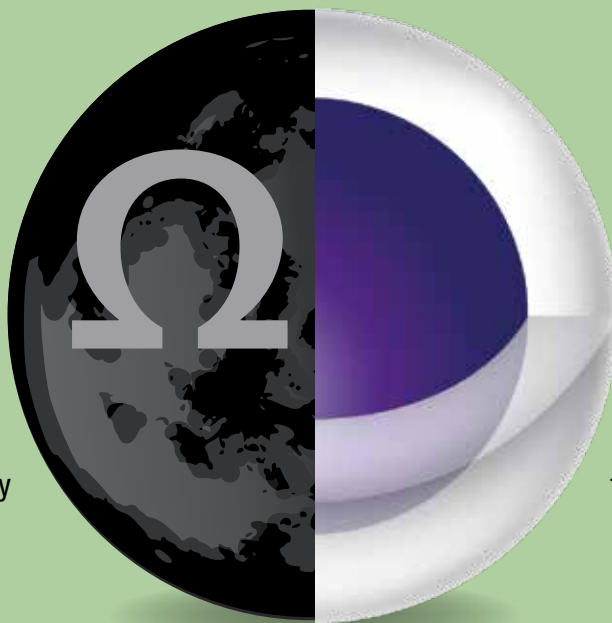
Ultimate HPLC/UHPLC Combo

Gain Incredible Performance, Versatile Selectivities
and Upgraded Throughput



Cutting Edge Fully Porous Silica Particle

Luna is one of the most recognized HPLC brands on the market, delivering high efficiency, ruggedness, reproducibility, and dependability for a wide range of analyses.

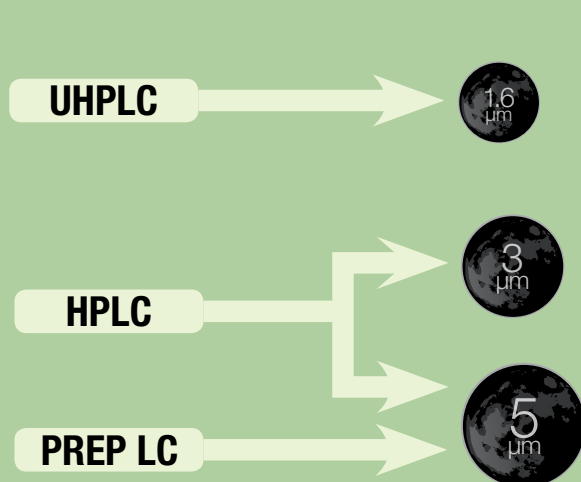


The Chosen Core-Shell Brand

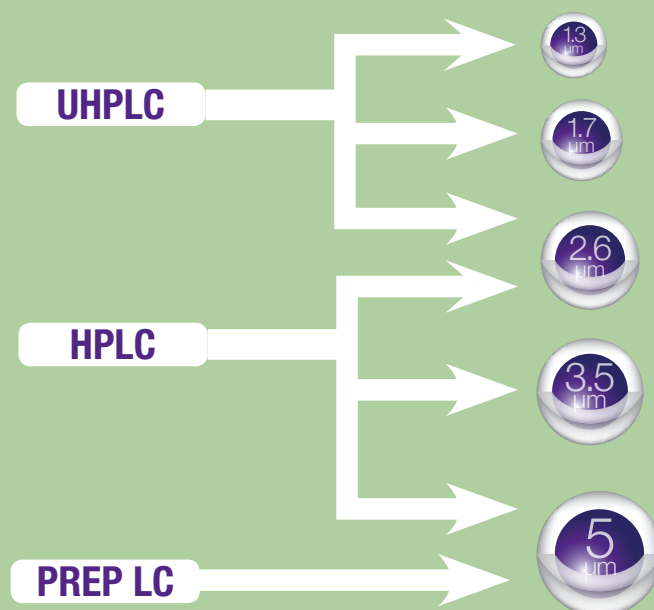
Kinetex Core-Shell Technology delivers dramatic improvements in efficiency over conventional fully porous media which can be leveraged to increase resolution, greatly improve productivity, reduce solvent consumption and decrease costs.

Complete Scalable Solution from UHPLC to HPLC to PREP LC

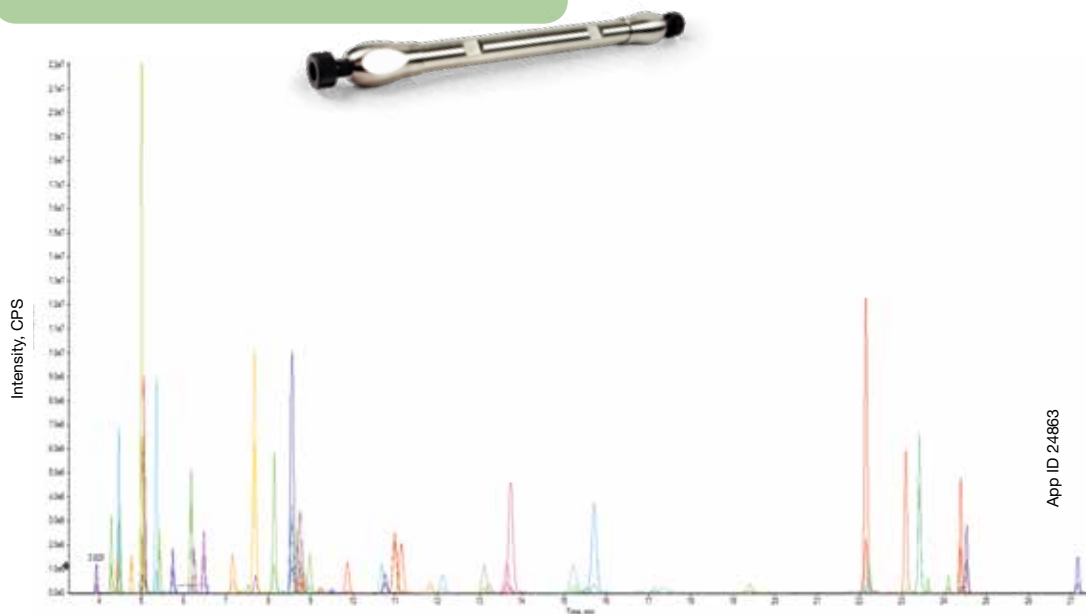
Luna Omega Particle Selection



Kinetex Core-Shell Particle Selection



California Pesticides



LC-MS/MS Conditions

Column: Luna Omega 3 μ m Polar C18
Dimension: 150 x 4.6 mm
Part No.: 00F-4760-E0
Mobile Phase: A: 5 mM Ammonium acetate + 0.1% Formic acid
 B: Methanol/Water (98:2) + 5 mM Ammonium acetate
Gradient:

Time (min)	% B
0	10
2	60
3	65
4	70
18	80
20	88
22	95
27	100
28	100
28.1	10
30	10

Flow Rate: 0.8 mL/min

Injection: 2 μ L

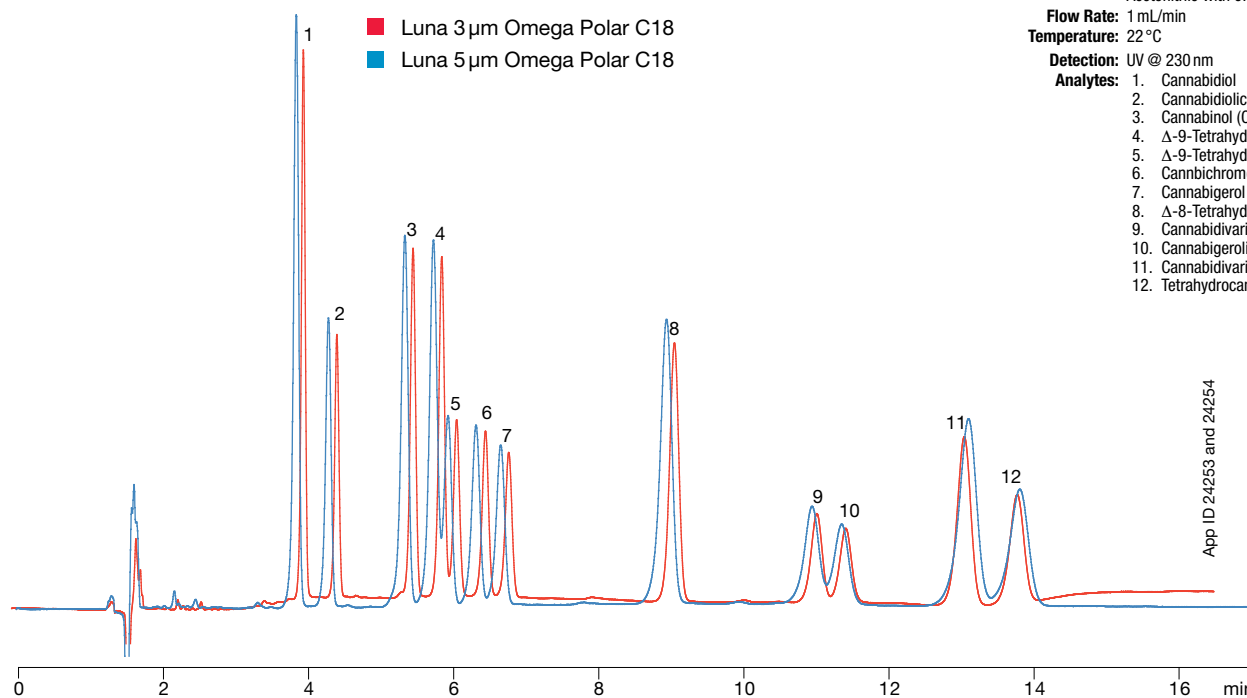
Temperature: 30 $^{\circ}$ C

Detection: MS/MS

Instrument: SCIEX QTRAP[®] 6500+ with DuoSpray APCI/ESI

Analytes: For full list, visit www.phenomenex.com and search for APP ID 24863

12 Cannabinoids



■ Luna 3 μ m Omega Polar C18
 ■ Luna 5 μ m Omega Polar C18

LC-UV Conditions

Column: Luna Omega 3 μ m Polar C18

Luna Omega 5 μ m Polar C18

Dimensions: 150 x 4.6 mm

Part No.: 00F-4760-E0

00F-4754-E0

Mobile Phase: Water with 0.1 % Formic acid / Acetonitrile with 0.1 % Formic acid (25:75)

Flow Rate: 1 mL/min

Temperature: 22 $^{\circ}$ C

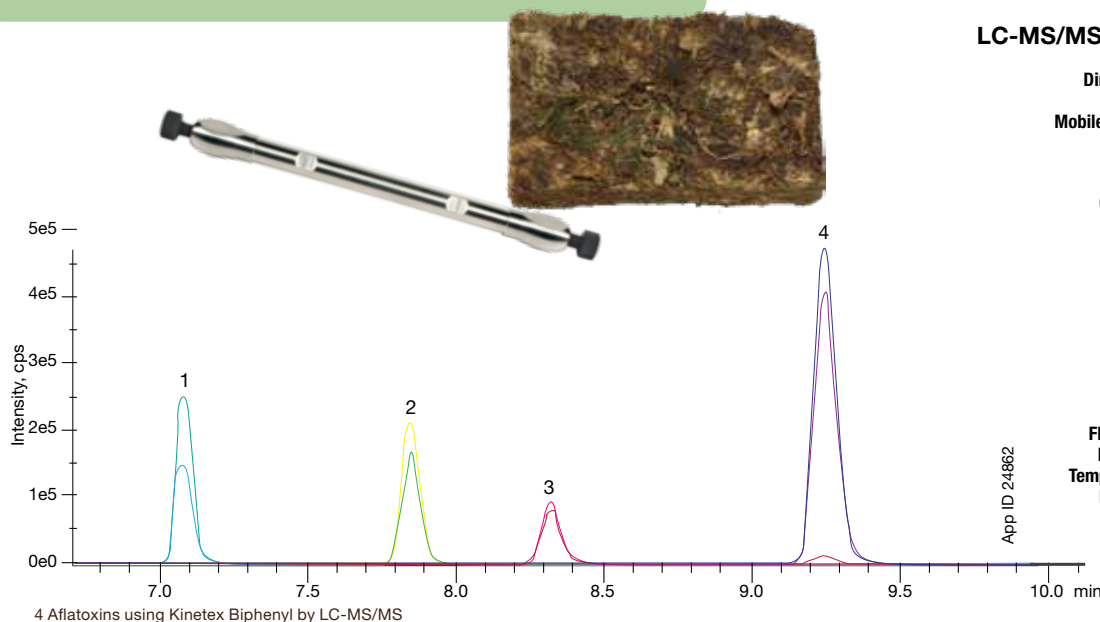
Detection: UV @ 230 nm

Analytes:

1. Cannabidiol
2. Cannabidiolic Acid (CBDA)
3. Cannabinol (CBN)
4. Δ -9-Tetrahydrocannabinol (THC)
5. Δ -9-Tetrahydrocannabinolic Acid (THCA-A)
6. Cannabichromene (CBC)
7. Cannabigerol (CBG)
8. Δ -8-Tetrahydrocannabinol (THC)
9. Cannabidivarinic Acid (CBDVA)
10. Cannabigerolic Acid (CBGA)
11. Cannabidivarin (CBDV)
12. Tetrahydrocannabivarin (THCV)

Your Daily Challenges

Aflatoxins from Cannabis



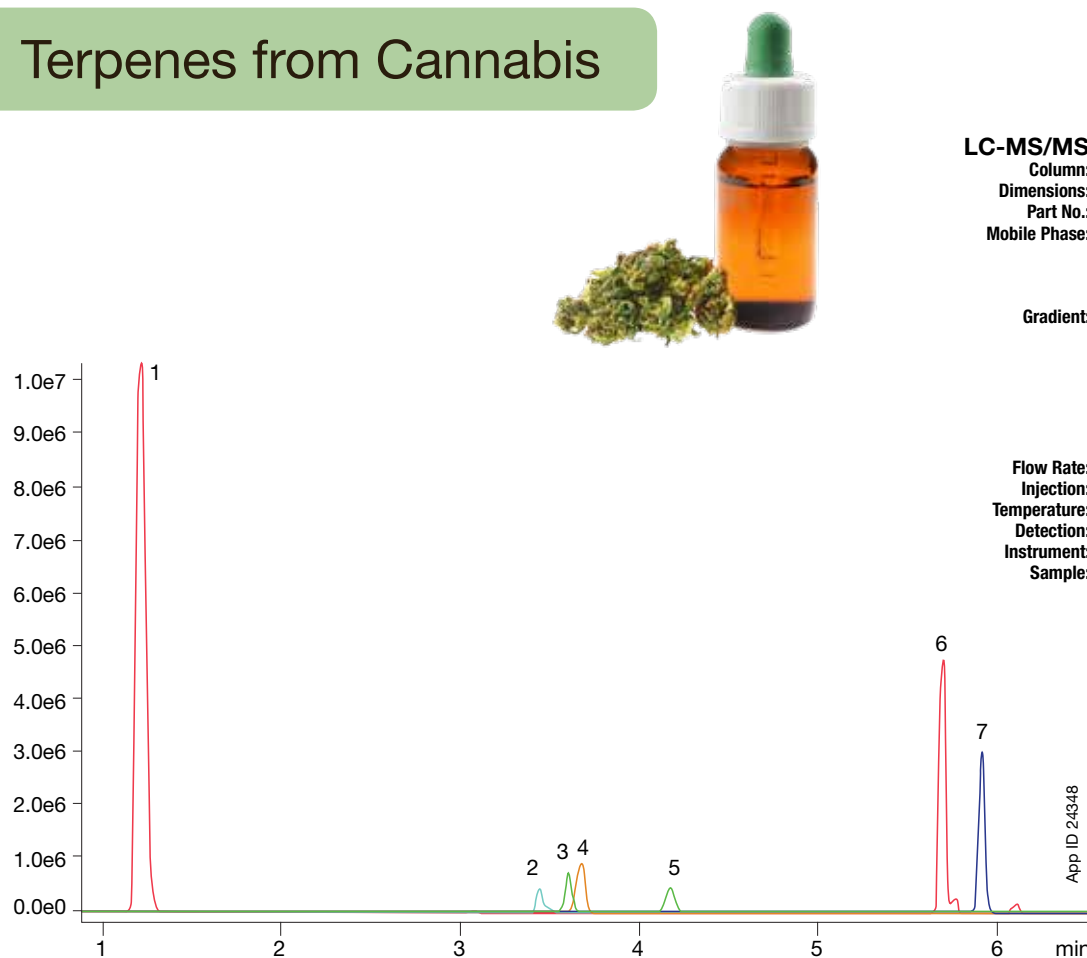
LC-MS/MS Conditions

Column: Kinetex 2.6 μ m Biphenyl
Dimension: 150 x 4.6 mm
Part No.: 00F-4622-E0
Mobile Phases: A: Water + 5 mM Ammonium acetate + 0.1% Formic acid
B: Methanol/Water (98:2) + 5 mM Ammonium acetate
Gradient:

Time (min)	% B
0.75	5
4	50
5	60
5.01	78
8	88
10	92
12	100
13.80	100
13.90	5
16	0

Flow Rate: 1 mL/min
Injection: 2 μ L
Temperature: Ambient
Detector: SCIEX QTRAP[®] 6500+
Sample: 1. AFG2
2. AFG1
3. AFB2
4. AFB1

Terpenes from Cannabis



LC-MS/MS Conditions

Column: Kinetex 2.6 μ m Biphenyl
Dimensions: 100 x 4.6 mm
Part No.: 00D-4622-E0
Mobile Phase: A: 2 mM Ammonium acetate + 0.1 % Formic acid in Water
B: 2 mM Ammonium acetate + 0.1 % Formic acid in Methanol
Gradient:

Time (min)	B (%)
0	50
3	75
4	75
5	95
6	95
7	50
12	50

Flow Rate: 0.55 mL/min
Injection: 3 μ L
Temperature: Ambient
Detection: MS/MS
Instrument: SCIEX 3500 Triple Quad[™]
Sample: 1. Linalool
2. Myrcene
3. Terpinolene
4. Limonene
5. α -Pinene
6. Humulene
7. β -Caryophyllene

Explore Your LC Options

Kinetex HPLC/UHPLC Columns



Find Your Column and Order Now.
www.phenomenex.com/Kinetex

Luna Omega HPLC/UHPLC Columns



Find Your Column and Order Now.
www.phenomenex.com/LUNA

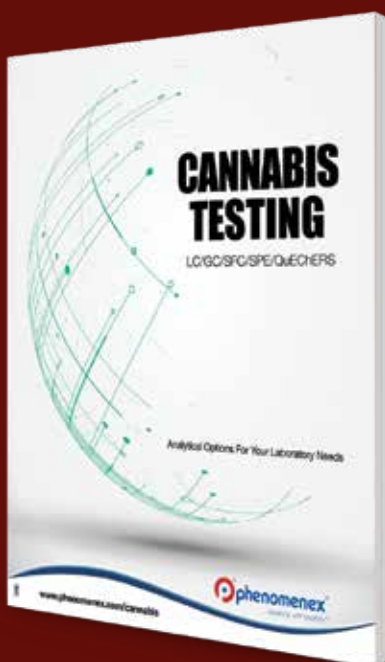
guarantee

If Phenomenex products in this guide do not provide at least an equivalent separation as compared to other products of the same phase and dimensions, return the column with comparative data within 45 days for a FULL REFUND.

Complete Cannabis Testing Solutions

HPLC • UHPLC • SFC • PREP
• GC • SPE • QuEChERS

- Application Support & Resources
- Pesticide Residues
- Potency
- Terpenes
- Residual Solvents



Download All Now!

www.phenomenex.com/cannabis

Rapid, Reliable, and Amazing LC Columns for

Cannabis Testing

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