Luna™ Omega

Luna Omega HPLC/UHPLC Columns

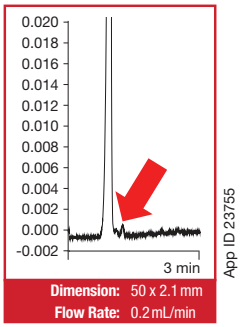
The cutting edge thermally modified Luna Omega particle delivers high efficiency, ruggedness, reproducibility, and dependability for a wide range of chromatographic analyses. Luna Omega HPLC and UHPLC columns are built upon more then 20 years of applied knowledge, invention, and customer experience in the manufacture and packing of LC columns. The particle's novel design and proprietary manufacturing process results in greater particle inertness, a stronger particle morphology, and more consistent porosity.

- Greater separation muscle and retention
- Consistent porous structure and elimination of micropores
- Extreme ruggedness and reproducibility

With direct selectivity scalability from Luna Omega 1.6 µm to 5 µm you can fluidly transfer methods from UHPLC platforms to HPLC and preparative instrumentation. Additionally, you can easily go in reverse and use a Luna Omega 1.6 µm to analyze fractions taken from a Luna Omega 5 µm preparative column.

UHPLC to HPLC to PREP

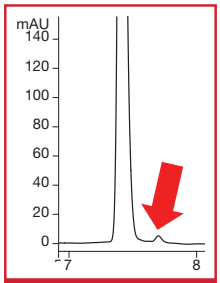
UHPLC Scout



App ID 23755

Dimension: 50 x 2.1 mm
Flow Rate: 0.2 mL/min

Optimized HPLC



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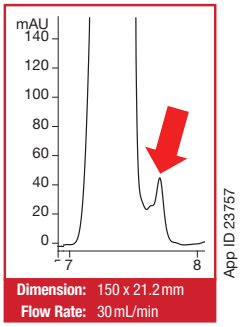
Dimension: 150 x 4.6 mm
Flow Rate: 1.5 mL/min

Analyze Prep Fractions via UHPLC

Preparative Purification



App ID 23757

Dimension: 150 x 21.2 mm
Flow Rate: 30 mL/min

Conditions for all columns (as noted):

Columns:	Luna Omega 5 µm PS C18
Mobile Phase:	A: Water with 0.1% TFA
	B: Acetonitrile with 0.1% TFA
Gradient:	**Time (min) % B**
	0 10
	15 90
Temperature:	22 °C
Detection:	UV @ 254 nm
Sample:	1. Impurity
	2. Proprietary API
	3. Impurity

Comparative separations may not be representative of all applications.

phenomenex
Phenomenal Chemistry in Every Peak

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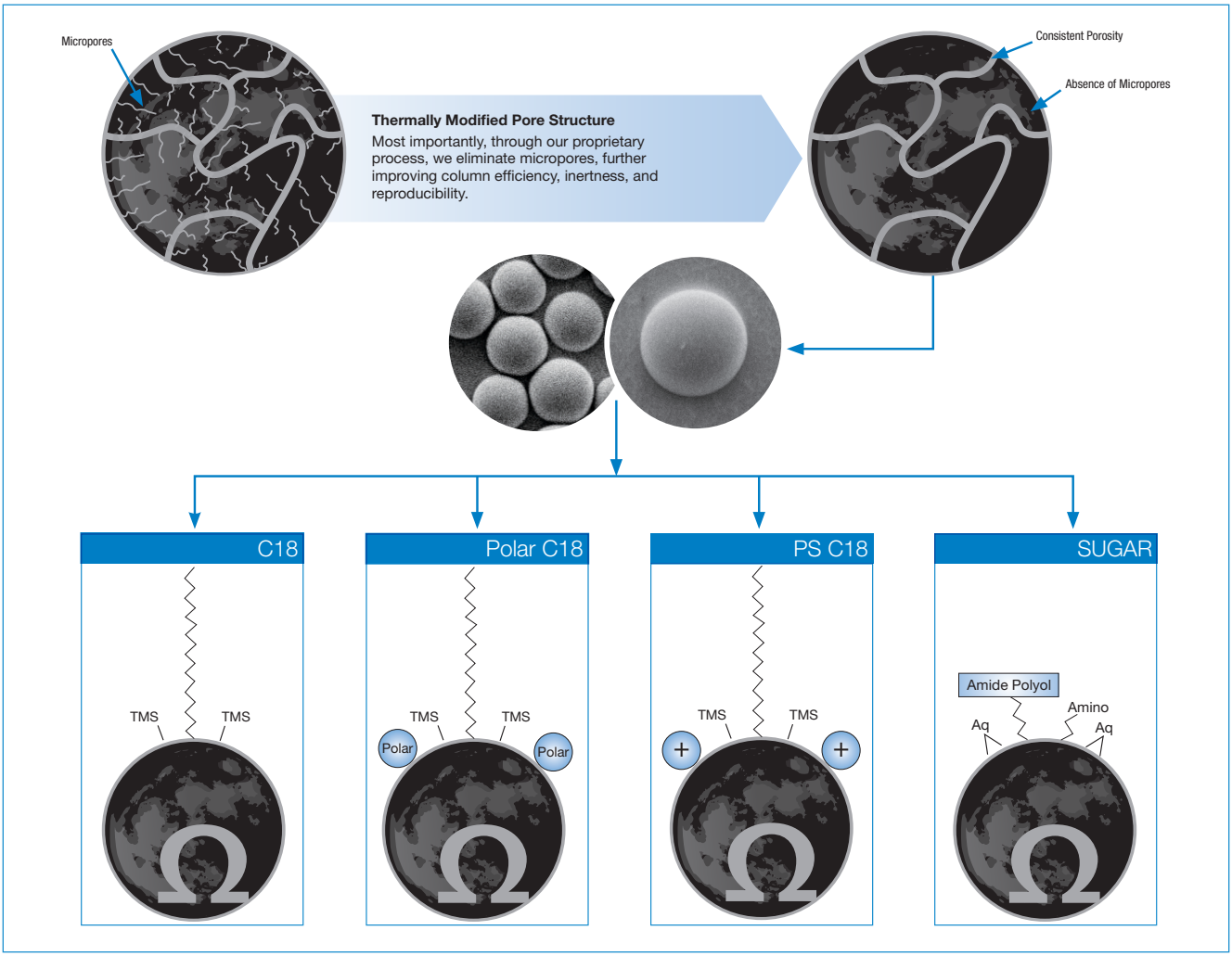
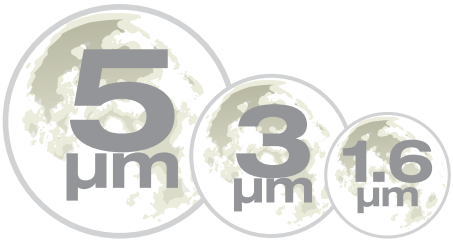
Luna Omega Silica

One of the world's leading HPLC brands, now enhanced for incredible HPLC and UHPLC performance! Luna Omega 1.6, 3, and 5 µm columns culminate 20 years of technological prowess, advancements, and innovation from Phenomenex!

With astounding efficiency levels, highly versatile selectivities, and trusted accuracy, Luna Omega columns will take your chromatographic experience to a new level.

Thermally Modified Fully Porous Particle Technology





Materials Characteristics

Phase	Particle Sizes (µm)	Pore Size (Å)	Surface Area (m^2/g)	Carbon Load (%)	pH Stability	Pressure Limit (bar)	USP Column Classification
C18	1.6, 3, 5	100	260	11	1.5 - 8.5*	1034/600**	L1
PS C18	1.6, 3, 5	100	260	9	1.5 - 8.5*	1034/600**	L1
Polar C18	1.6, 3, 5	100	260	9	1.5 - 8.5*	1034/600**	L1
Luna Omega SUGAR	3	100	260	<2	2.0-7.0	345	L8

*pH stability under gradient conditions. pH stability is 1.5-10 under isocratic conditions.
**1.6 µm Luna Omega columns are pressure stable up to 1034 bar and 3 or 5 µm are stable up to 600 bar.

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