

explore

LUNA[®]

One of The
World's Leading
HPLC Columns

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

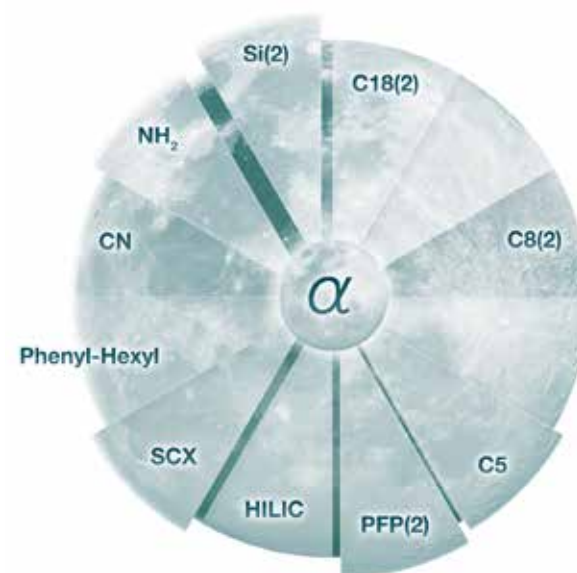


Explore Successful Separations

Your success begins with our commitment to provide the essential solutions to HPLC separations in the Luna® brand. Some of the highest quality and performance standards are incorporated into Luna products, making them an indispensable platform for all areas of HPLC.

Explore Resolution with Luna Selectivities

Phase selectivity has the strongest impact on overall chromatographic resolution. Choosing the optimal selectivity can drive your separation to success. Luna phases span through 10 different chemistries, each offering its own unique selectivity.



Luna Phases	Description	Particle Size (μm)	Pore Size (Å)	Surface Area (m²/g)	Carbon Load (%)	Bonded Phase Coverage (μmole/m²)	pH Stability	Application	Reversed Phase	Normal Phase	HILIC	IEX
Silica(2)	Unbonded silica	3, 5, 10, 10-PREP, 15	100	400	—	—	2.0 - 7.5	Non-polar compounds				
C5	5 Carbon ligand	5, 10	100	440	12.5	7.85	1.5 - 9.0*	Good alternative to C8 when less retention is desired				
C8(2)	C8 ligand optimized for improved peak shape	3, 5, 10, 10-PREP, 15	100	400	13.5	5.50	1.5 - 9.0*	Great starting phase for method development				
C18(2)	C18 ligand optimized for improved peak shape	2.5, 3, 5, 10, 10-PREP, 15	100	400	17.5	3.00	1.5 - 9.0*	From capillary LC/MS to process scale <i>Our most popular phase</i>				
CN	Versatile CN phase	3, 5, 10	100	400	7.0	3.80	1.5 - 7.0	For improving the retention of polar compounds				
NH ₂	Rugged and reproducible NH ₂	3, 5, 10	100	400	9.5	5.80	1.5 - 11	Sugar alcohols, anionic or hydrogen bonding compounds				
Phenyl-Hexyl	Phenyl phase attached to C6 (hexyl) ligand	3, 5, 10, 10-PREP, 15	100	400	17.5	4.00	1.5 - 9.0*	Unique selectivity for very polar and aromatic compounds				
SCX	Benzene sulfonic acid	5, 10	100	400	Binding Capacity: 0.15 meq/g		2.0 - 7.0	Amine and polyamine containing compounds				
HILIC	Reproducible, cross-linked diol	3, 5	200	200	5.7	4.30	1.5 - 8.0	Increased retention and MS sensitivity of polar compounds				
PFP(2)	Pentafluorophenyl with a C3 (propyl) linkage	3, 5	100	400	11.5	2.20	1.5 - 8.0	Highly polar compounds, halogenated compounds and isomers				

* pH range is 1.5 - 10 under isocratic conditions. pH range is 1.5 - 9 under gradient conditions.

NEW Preparative Media Luna 100Å C18(3), C8(3), and Silica(3) ... see page 7 for more information.

Explore Options for Every Development Route

Fast LC/MS Methods

Luna® media is available in MercuryMS™ cartridges and online columns for quick, cost-effective screening methods.

Develop Robust Analytical Methods

Analytical HPLC columns are the most widely used format and are available in a wide variety of dimensions and particle sizes.

High Speed Technology

Luna 2.5 µm C18(2)-HST columns deliver highly efficient separations without the need for expensive high-pressure instruments.

Lab-Scale Purification Redefined

Axia™ packed Luna preparative columns provide industry-leading lifetimes and efficiencies.

USP Phases for Virtually Every Application

USP Column Classification	Phase	Description	Common Applications
L1	C18(2)	2.5, 3, 5, 10, 10- <i>PREP</i> , 15 µm C18 phase. Excellent efficiency, peak shape and resolution. Slightly lower carbon load than original Luna C18.	Acetaminophen, Aspirin, Caffeine, Albuterol, Amitriptyline Hydrochloride, Amoxicillin, Atenolol, Cephalexin, Cephadrine capsules, Chloramphenicol, Cortisone Acetate, Dextromethorphan, Diphenhydramine, Pseudoephedrine, Dopamine, Estradiol, Guaifenesin, Ibuprofen, Sterile Imipenem, Imipramine, Lidocaine, Lorazepam, Minoxidil, Naproxen, Phenylephrine Hydrochloride, Phenylpropanolamine, Prednisone oral solution, Procainamide, Propoxyphene, Reserpine
L3	Silica(2)	3, 5, 10 µm Ultra-pure silica with high column bed stability enhanced by particle shape uniformity.	Alprazolam, Hydrocodone bitartrate, Hydrocortisone, Fat Soluble Vitamins, Phthalates, Fatty Acids, Lutein, Lycopene, Estradiol
L7	C8(2)	3, 5, 10, 10- <i>PREP</i> , 15 µm C8 phase for excellent efficiency, peak shape and resolution. Significantly improved performance over traditional C8 phases due to high surface coverage.	Doxepine, Doxylamine succinate, Fluoxetine, Glyburide, Ibuprofen Oral Suspension, Propranolol, Levonorgestrel, Ethinyl estradiol, Melengestrol acetate, Glucosamine
L8	NH ₂	3, 5, 10 µm Amino phase. Can be used in reversed or normal phase modes. Stable from pH 1.5 to 11.0 and under 100 % aqueous conditions. High performance silica and bonding techniques produce a rugged, highly reproducible column.	Simple sugars, Carboplatin, Lactulose concentrate, Levocarnitine tablets
L9	SCX	5, 10 µm A Benzene Sulfonic Acid bonded phase is used to make this Strong Cation Exchange (SCX) column. Offers great peak shape and resolution.	Cough and cold compounds, Raclopride, Sodium Acetate, Erythromycin
L10	CN	3, 5, 10 µm Cyano phase. Can be used as reversed or normal phase material. The use of Luna base silica results in overall phase reproducibility and performance.	Benzalkonium Chloride, Nortriptyline HCl Capsules, Prednisolone, Tetracaine, Quinapril tablets
L11	Phenyl-Hexyl	3, 5, 10, 10- <i>PREP</i> , 15 µm A phenyl phase which employs a hexyl alkyl linker as opposed to the traditional propyl chain. Offers great stability as well as alternative selectivity.	Oxacillin, Captopril, Chlorpheniramine, Pseudoephedrine, Methadone Hydrochloride Oral Concentration
L20	HILIC	3, 5 µm HILIC phase that provides excellent selectivity for polar compounds; and improved MS sensitivity with low bleed.	Drug metabolites, Water soluble vitamins, Melamine, Cyanuric acid, Metanephine, Normetanephine
L43	PFP(2)	3, 5 µm A pentafluorophenyl phase that provides excellent selectivity for aromatic compounds from influence of fluorine substitution on phenyl ring. Multiple retention mechanisms. Orthogonal selectivity to traditional C18 phases.	Positional isomers, Geometric isomers, Taxanes, Aflatoxins

Ordering Information

3 µm MidBore™ and Analytical Columns (mm)									SecurityGuard™ Cartridges (mm)	
	30 x 3.0	50 x 3.0	150 x 3.0	30 x 4.6	50 x 4.6	75 x 4.6	100 x 4.6	150 x 4.6	4 x 2.0*	4 x 3.0*
Phases									/10pk	/10pk
Silica(2)	—	00B-4162-Y0	00F-4162-Y0	00A-4162-E0	00B-4162-E0	00C-4162-E0	00D-4162-E0	00F-4162-E0	AJO-4347	AJO-4348
C8(2)	00A-4248-Y0	00B-4248-Y0	00F-4248-Y0	00A-4248-E0	00B-4248-E0	00C-4248-E0	00D-4248-E0	00F-4248-E0	AJO-4289	AJO-4290
C18(2)	00A-4251-Y0	00B-4251-Y0	00F-4251-Y0	00A-4251-E0	00B-4251-E0	00C-4251-E0	00D-4251-E0	00F-4251-E0	AJO-4286	AJO-4287
CN	—	00B-4254-Y0	00F-4254-Y0	00A-4254-E0	00B-4254-E0	00C-4254-E0	00D-4254-E0	00F-4254-E0	AJO-4304	AJO-4305
Phenyl-Hexyl	—	00B-4256-Y0	00F-4256-Y0	00A-4256-E0	00B-4256-E0	00C-4256-E0	00D-4256-E0	00F-4256-E0	AJO-4350	AJO-4351
NH ₂	—	00B-4377-Y0	00F-4377-Y0	—	00B-4377-E0	—	00D-4377-E0	00F-4377-E0	AJO-4301	AJO-4302
HILIC	—	00B-4449-Y0	00F-4449-Y0	—	—	—	00D-4449-E0	00F-4449-E0	AJO-8328	AJO-8329
PFP(2)	—	00B-4447-Y0	00F-4447-Y0	—	00B-4447-E0	—	00D-4447-E0	00F-4447-E0	AJO-8326	AJO-8327

for ID: 2.0-3.0 mm 3.2-8.0 mm

5 µm Microbore and Minibore Columns (mm)								SecurityGuard Cartridges (mm)	
	50 x 1.0	150 x 1.0	250 x 1.0	30 x 2.0	50 x 2.0	150 x 2.0	250 x 2.0	4 x 2.0*	
Phases								/10pk	
Silica(2)	—	—	—	00A-4274-B0	00B-4274-B0	00F-4274-B0	00G-4274-B0	AJO-4347	
C5	—	—	—	00A-4043-B0	00B-4043-B0	00F-4043-B0	—	AJO-4292	
C8 (2)	—	00F-4249-A0	—	00A-4249-B0	00B-4249-B0	00F-4249-B0	00G-4249-B0	AJO-4289	
C18 (2)	00B-4252-A0	00F-4252-A0	00G-4252-A0	00A-4252-B0	00B-4252-B0	00F-4252-B0	00G-4252-B0	AJO-4286	
CN	—	—	—	—	00B-4255-B0	00F-4255-B0	—	AJO-4304	
Phenyl-Hexyl	00B-4257-A0	—	—	00A-4257-B0	00B-4257-B0	00F-4257-B0	00G-4257-B0	AJO-4350	
NH2	00B-4378-A0	00F-4378-A0	—	00A-4378-B0	00B-4378-B0	00F-4378-B0	00G-4378-B0	AJO-4301	
PFP(2)	—	—	—	00A-4448-B0	00B-4448-B0	00F-4448-B0	—	AJO-8326	

for ID: 2.0-3.0 mm

5 µm MidBore and Analytical Columns (mm)								SecurityGuard Cartridges (mm)	
	30 x 3.0	50 x 3.0	150 x 3.0	250 x 3.0	30 x 4.6	50 x 4.6	75 x 4.6	4 x 2.0*	4 x 3.0*
Phases								/10pk	/10pk
Silica(2)	—	00B-4274-Y0	00F-4274-Y0	—	—	00B-4274-E0	—	AJO-4347	AJO-4348
C5	—	—	00F-4043-Y0	—	—	00B-4043-E0	—	AJO-4292	AJO-4293
C8(2)	00A-4249-Y0	00B-4249-Y0	00F-4249-Y0	00G-4249-Y0	00A-4249-E0	00B-4249-E0	00C-4249-E0	AJO-4289	AJO-4290
C18(2)	00A-4252-Y0	00B-4252-Y0	00F-4252-Y0	00G-4252-Y0	00A-4252-E0	00B-4252-E0	00C-4252-E0	AJO-4286	AJO-4287
CN	—	00B-4255-Y0	00F-4255-Y0	00G-4255-Y0	00A-4255-E0	00B-4255-E0	00C-4255-E0	AJO-4304	AJO-4305
Phenyl-Hexyl	—	00B-4257-Y0	00F-4257-Y0	00G-4257-Y0	00A-4257-E0	00B-4257-E0	00C-4257-E0	AJO-4350	AJO-4351
NH2	—	00B-4378-Y0	00F-4378-Y0	00G-4378-Y0	00A-4378-E0	00B-4378-E0	—	AJO-4301	AJO-4302
SCX	—	—	00F-4398-Y0	—	—	00B-4398-E0	—	AJO-4307	AJO-4308
HILIC	—	—	00F-4450-Y0	—	—	—	—	AJO-8328	AJO-8329
PFP(2)	—	00B-4448-Y0	00F-4448-Y0	—	—	00B-4448-E0	—	AJO-8326	AJO-8327

SecurityGuard™ Analytical Cartridges require universal holder Part No.: KJO-4282

for ID: 2.0-3.0 mm 3.2-8.0 mm



If Luna analytical columns do not provide at least an equivalent separation as compared to a competing column of the same particle size, similar phase and dimensions, return the column with comparative data within 45 days FOR A FULL REFUND.

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

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Disclaimer
Comparative separations may not be representative of all applications. Phenomenex is in no way affiliated with Agilent, Sigma-Aldrich Co., LLC., Waters Corp., Macherey-Nagel, Thermo or Merck KGaA, Darmstadt, Germany.

Axia column and packing technology is patented by Phenomenex. U.S. Patent No. 7, 674, 383

Gemini and Kinetex EVO are patented by Phenomenex. U.S. Patent Nos. 7,563,367 and 8,658,038 and foreign counterparts.

SecurityGuard is patented by Phenomenex. U.S. Patent No. 6,162,362

CAUTION: this patent only applies to the analytical-sized guard cartridge holder, and does not apply to SemiPrep, PREP or ULTRA holders, or to any cartridges.

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Ordering Information

5 µm Analytical and Semi-Prep Columns (mm)					SecurityGuard™ Cartridges (mm)	
	100 x 4.6	150 x 4.6	250 x 4.6	250 x 10	4 x 3.0'	10 x 10 [‡]
Phases					/10pk	/3pk
Silica(2)	00D-4274-E0	00F-4274-E0	00G-4274-E0	00G-4274-N0	AJO-4348	AJO-7223
C5	00D-4043-E0	00F-4043-E0	00G-4043-E0	00G-4043-N0	AJO-4293	AJO-7372
C8(2)	00D-4249-E0	00F-4249-E0	00G-4249-E0	00G-4249-N0	AJO-4290	AJO-7222
C18(2)	00D-4252-E0	00F-4252-E0	00G-4252-E0	00G-4252-N0	AJO-4287	AJO-7221
CN	00D-4255-E0	00F-4255-E0	00G-4255-E0	00G-4255-N0	AJO-4305	AJO-7313
Phenyl-Hexyl	00D-4257-E0	00F-4257-E0	00G-4257-E0	00G-4257-N0	AJO-4351	AJO-7314
NH2	00D-4378-E0	00F-4378-E0	00G-4378-E0	00G-4378-N0	AJO-4302	AJO-7364
SCX	00D-4398-E0	00F-4398-E0	00G-4398-E0	00G-4398-N0	AJO-4308	AJO-7369
HILIC	00D-4450-E0	00F-4450-E0	00G-4450-E0	00G-4450-N0	AJO-8329	AJO-8902
PFP(2)	00D-4448-E0	00F-4448-E0	00G-4448-E0	00G-4448-N0	AJO-8327	AJO-8376

for ID: 3.2-8.0 mm 9-16 mm

Luna 10 µm- <i>PREP</i> Columns		Bulk Media				
	250 x 4.6 mm	1 kg	5 kg	10 kg	50 kg	100 kg
Phases						
C18(3)	00G-4616-E0	04K-4616	04L-4616	04M-4616	04N-4616	04P-4616
C8(3)	00G-4623-E0	04K-4623	04L-4623	04M-4623	04N-4623	04P-4623
Silica(3)	00G-4617-E0	04K-4617	04L-4617	04M-4617	04N-4617	04P-4617



Axia™ Packed Preparative Columns (mm)								SecurityGuard Cartridges (mm)	
	50 x 21.2	100 x 21.2	150 x 21.2	250 x 21.2	50 x 30	100 x 30	250 x 30	15 x 21.2"	15 x 30 °
Phases								/ea	/ea
5 µm									
Silica(2)	00B-4274-P0-AX	00D-4274-P0-AX	00F-4274-P0-AX	00G-4274-P0-AX	—	—	00G-4274-U0-AX	AJO-7229	AJO-8312
C5	—	—	00F-4043-P0-AX	00G-4043-P0-AX	—	—	—	—	—
C8(2)	00B-4249-P0-AX	00D-4249-P0-AX	00F-4249-P0-AX	00G-4249-P0-AX	00B-4249-U0-AX	00D-4249-U0-AX	—	AJO-7840	AJO-8302
C18(2)	00B-4252-P0-AX	00D-4252-P0-AX	00F-4252-P0-AX	00G-4252-P0-AX	00B-4252-U0-AX	00D-4252-U0-AX	00G-4252-U0-AX	AJO-7839	AJO-8301
CN	00B-4255-P0-AX	—	00F-4255-P0-AX	00G-4255-P0-AX	—	00D-4255-U0-AX	—	AJO-8220	AJO-8311
Phenyl-Hexyl	00B-4257-P0-AX	00D-4257-P0-AX	00F-4257-P0-AX	00G-4257-P0-AX	—	00D-4257-U0-AX	00G-4257-U0-AX	AJO-7841	AJO-8303
NH2	—	00D-4378-P0-EX	00F-4378-P0-AX	00G-4378-P0-AX	—	—	—	AJO-8162	AJO-8309
PFP(2)	00B-4448-P0-AX	00D-4448-P0-AX	00F-4448-P0-AX	00G-4448-P0-AX	—	00D-4448-U0-AX	00G-4448-U0-AX	AJO-8377	AJO-8378
HILIC	00B-4450-P0-AX	00D-4450-P0-AX	00F-4450-P0-AX	00G-4450-P0-AX	—	—	00G-4450-U0-AX	AJO-8829	AJO-8830

for ID: 18-29 mm 30-49 mm

10 µm Analytical and Semi-Prep Columns			SecurityGuard Cartridges (mm)	
	250 x 4.6	250 x 10	4 x 3.0'	10 x 10 [‡]
Phases			/10 pk	/3 pk
Silica(2)	00G-4091-E0	00G-4091-N0	AJO-4348	AJO-7223
C5	00G-4092-E0	00G-4092-N0	AJO-4293	AJO-7372
C8(2)	00G-4250-E0	00G-4250-N0	AJO-4290	AJO-7222
C18(2)	00G-4253-E0	00G-4253-N0	AJO-4287	AJO-7221
CN	00G-4300-E0	00G-4300-N0	AJO-4305	AJO-7313
Phenyl-Hexyl	00G-4285-E0	00G-4285-N0	AJO-4351	AJO-7314
NH2	00G-4379-E0	00G-4379-N0	AJO-4302	AJO-7364
SCX	00G-4401-E0	00G-4401-N0	AJO-4308	AJO-7369

for ID: 3.2-8.0 mm 9-16 mm

Axia Packed Preparative Columns (mm)									SecurityGuard Cartridges (mm)	
	50 x 21.2	100 x 21.2	150 x 21.2	250 x 21.2	50 x 30	100 x 30	250 x 30	250 x 50	15 x 21.2"	15 x 30 °
Phases									/ea	/ea
10 µm										
Silica(2)	—	—	—	00G-4091-P0-AX	—	—	00G-4091-U0-AX	00G-4091-V0-AX	AJO-7229	AJO-8312
C5	—	00D-4092-P0-AX	—	00G-4092-P0-AX	—	—	—	00G-4092-V0-AX	—	—
C8(2)	00B-4250-P0-AX	—	00F-4250-P0-AX	00G-4250-P0-AX	—	—	—	00G-4250-V0-AX	AJO-7840	AJO-8302
C18(2)	00B-4253-P0-AX	00D-4253-P0-AX	00F-4253-P0-AX	00G-4253-P0-AX	00B-4253-U0-AX	00D-4253-U0-AX	00G-4253-U0-AX	00G-4253-V0-AX	AJO-7839	AJO-8301
CN	—	—	—	00G-4300-P0-AX	—	—	—	—	AJO-8220	AJO-8311
Phenyl-Hexyl	—	—	00F-4285-P0-AX	00G-4285-P0-AX	—	—	00G-4285-U0-AX	—	AJO-7841	AJO-8303
NH ₂	—	—	—	00G-4379-P0-AX	—	—	—	—	AJO-8162	AJO-8309
									for ID: 18-29 mm	30-49 mm

for ID: 18-29 mm 30-49 mm

*SecurityGuard Analytical Cartridges require holder, Part No.: KJO-4282
‡SemiPrep SecurityGuard Cartridges require holder, Part No.: AJO-9281

**PREP SecurityGuard Cartridges require holder, Part No.: AJO-8223
° PREP SecurityGuard Cartridges require holder, Part No.: AJO-8277

