

HYM Brothers Analytical Solutions Pvt. Ltd.

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ECOSIL High Performance HPLC Column:

Ecosil provide an extensive selection of packed column to address your separation needs. Numerous specially bonded phase are available to solve the most difficult separation problems.

- Ecosil various columns are made by the OEM, the famous column company.
- Ecosil HPLC columns: C18/ C8 /C30 /NH2 /Phenyl /Silica stationary phase with wide PH range
- Ecosil Column: Raw materials the bonding process and the final solid-phase extraction column packing, all the procedures have been rigorously tested.
- Ecosil offer lower price, better performance
- Polymer matrix with high-purity silica.
- High column efficiency & Reproducibility, Symmetrical Peak separation
- Columns individually tested for quality assurance
- Unique End capping technology
- Globally available with approved distributers /channel partner

PHISICAL PROPERTIES OF HELC FACKING MATERIALS										
Sl.No	Product description	Particle size	Aperture	Surface area	pH range	Carbon Load	Particle Shape	End group sealing	USP Listing	
1	Ecosil C18	5µm	100Å	450m²/g	2~8	9.50%	Spherical	Yes		
2	Ecosil C18-SH	3,5,10µm	120Å	300 m²/g	1~10	17%	Spherical	Yes		S
3	Ecosil C18-Extend	3,5µm	100Å	300 m²/g	1~12	21.70%	Spherical	Yes		\bigcirc
4	Ecosil C18-EPS	3,5,10µm	120Å	300 m²/g	1~10	18.50%	Spherical	Yes	L1	
5	Ecosil C18-AQ	3,5,10µm	120Å	300 m²/g	1~10	14%	Spherical	Yes		\bigcirc
6	Ecosil C18-AQ PLUS	3,5µm	120Å	300 m²/g	1~10	17%	Spherical	Yes		
7	Ecosil Silica	3,5,10µm	120Å	300 m²/g	2~8	NA	Spherical	No	L3	
8	Ecosil C8	5µm	100Å	350 m²/g	2~8	8%	Spherical	Yes		
9	Ecosil C8-SH	3,5,10µm	120Å	300 m²/g	1~10	10%	Spherical	Yes	L7	
10	Ecosil C8-EPS	3,5µm	120Å	300 m²/g	1~10	12%	Spherical	Yes		
11	Ecosil NH2	3,5,10µm	120Å	300 m²/g	2~8	4%	Spherical	No	L8	
12	Ecosil CN	3,5,10µm	120Å	300 m²/g	2~8	5%	Spherical	No	L10	
13	Ecosil Phenyl	3,5,10µm	120Å	300 m²/g	2~8	9.50%	Spherical	Yes	L11	
14	Ecosil C1	3,5µm	120Å	300 m²/g	2~8	3%	Spherical	No	L13	I
15	Ecosil Diol	3,5,10µm	120Å	300 m²/g	2~8	4%	Spherical	No	L20	كل ا
16	Ecosil C4	3,5,10µm	120Å	300 m²/g	2~8	5.50%	Spherical	No	L26	
17	Ecosil C30	3,5,10µm	200Å	200 m²/g	2~8	20%	Spherical	No	L62	

PHYSICAL PROPERTIES OF HPLC PACKING MATERIALS



Ecosil C18- AQ/ C18 -AQ PLUS Columns

Product brief:

- Unique bonding technique hydrophilic ODS, 100% compatible with the aqueous phase
- AQ PLUS stable at low pH (pH = 1)

S1. No.	Description	Particle size	Guard column	Col	umn Size
1	Ecosil C18-AQ	5μm	ECG-C18-AQ	4.6×150mm	4.6×250mm
2	Ecosil C18-AQ PLUS	5µm	ECG-C18-AQ PLUS	4.6×150mm	4.6×250mm

Ecosil C18/C8 HPLC Columns

Product brief:

- Stronger reservations for polar substances
- C18 : Amidohexadecylsilyl silica gel
- Greatly improved the adsorption and tailing of basic compounds, excellent peak shape
- Carbon chain bonded polar group, the group is formed in a layer of "shield" water, which can be used 100% water as the mobile phase

S1. N	۱o.	Description	Particle size	Guard column	Colt	umn Size
1		Ecosil C18-EPS	5µm	ECG-C18-EPS	4.6×150mm	4.6×250mm
2		Ecosil C8-EPS	5µm	ECG-C8-EPS	4.6×150mm	4.6×250mm

Ecosil C18-extend columns

Product brief:

- Ecosil C18-extend columns :
- Wide pH range (pH 1-12)
- High column efficiency
- Polymer matrix with high-purity silica (Hybrid Column)

S1. N	o	Description	Particle size	Guard column	Column Size		
1		Ecosil C18-Extend	5µm	ECG-C18-Extend	4.6×150mm	4.6×250mm	



Ecosil C18/C8 columns detailed description:

• <u>Characteristics of Ecosil C18 Reversed-phase columns:</u>

1. High column efficiency, good separation and low column pressure.

2. Low carbon load and good for HPLC separations of hydrophilic compounds with 100% water mobile phase.

3. With High-purity silica and fully end-capped, the peak shape will be sharp.

4. That will also have good peak shape for separation of basic, acidic, neutral compounds.

• <u>2. Characteristics of Ecosil C8 Reversed-phase columns:</u>

1.Recommended for HPLC separations of higher hydrophobic samples and samples with strong retention on C8 stationary phase.

2. Fully end-capped and high stability make a good reproducibility for each column.

3. The separation has high selectivity and efficiency.

HPLC COLUMN SELECTION BY USP LISTING					
USP Column Classification	Packing Material	Recommended Ecosil Column	Particle Shape		
L1	Octadecyl silane chemically bonded to porous silica or ceramic microparticles, 1.5 to 10 μm in diameter, or a monolithic rod.	Ecosil C18 Ecosil C18-SH Ecosil C18-Extend Ecosil C18-EPS Ecosil C18-AQ Ecosil C18-AQ PLUS	Spherical		
L3	Porous silica particles, 5 to 10 μm in diameter.	Ecosil Silica	Spherical	C	
L7	Octyl silane chemically bonded to totally porous silica particles, 1.5 to 10 μm in diameter.	Ecosil C8 Ecosil C8-SH Ecosil C8-EPS	Spherical Spherical Spherical	L L	
L8	An essentially monomolecular layer of aminopropyl-silane chemically bonded to totally porous silica gel support, 3 to 10 μm in diameter.	Ecosil NH2	Spherical	C	
L10	Nitrile groups chemically bonded to porous silica particles 3 to 10 µm in diameter	Ecosil CN	Spherical		
L11	Phenyl groups chemically bonded to porous silica particles, 1.5 to 10 μm in diameter.	Ecosil Phenyl	Spherical		
L13	Trimethylsilane chemically bonded to porous silica particles,3 to 10 μm in diameter.	Ecosil C1	Spherical		
L20	Dihydroxypropane groups chemically bonded to porous silica particles,5 to 10 μm in diameter	Ecosil Diol	Spherical		
L26	Butyl silane chemically bonded to totally porous silica particles, 5 to 10 μm in diameter.	Ecosil C4	Spherical		
L62	C30 silane bonded phase on a fully porous spherical silica, 3 to 15 μm in diameter.	Ecosil C30	Spherical		





