

Genesis HPLC columns were developed by Jones Chromatography. Hichrom acquired this range of columns from Grace. Genesis phases are based on high purity, metal-free, spherical silica. They are suitable for the analysis of a wide range of compounds.

## Key Features

- Good peak shape and reproducibility
- Long column lifetime
- pH stability 1 to 10

## Genesis Phase Specifications

Phase	Particle size / $\mu\text{m}$	Endcapped?	Properties	USP code
C18	3, 4, 5	Yes	Excellent peak symmetry. Reduced need for mobile phase modifiers. Long column life.	L1
C8	4, 5	No	Suitable for lower pH separations.	L7
C8(EC)	4	Yes	Excellent peak symmetry. Reduced need for mobile phase modifiers. Long column life.	L7
AQ	4	Yes	Designed for separating hydrophilic and polar compounds. Stable retention times in 100 % aqueous mobile phases. Rapid equilibration. Unique reversed-phase selectivity.	L1
Phenyl	4, 5	Yes	Reversed-phase chemistry. Improves the chromatography of polar aromatics, fatty acids, and basic pharmaceuticals.	L11
Cyano	4	Yes	Suitable for polar analysis, analytes with double- and/or triple-bonds, and compounds that have too much retention on alkyl phases.	L10
Silica	4	—	Highly polar phase for general purpose applications.	L3

## Ordering Information

### Analytical Columns

#### 3 $\mu\text{m}$

Length / mm	50		100		150		250	
i.d. / mm	3.0	4.6	4.0	4.6	2.1	4.6	3.0	4.6
C18	FL5963E	FM5963E	FH10963E	FM10963E	FK15963E	FM15963E	FL25963E	FM25963E

#### 4 $\mu\text{m}$

Length / mm	30		50			100			125	
i.d. / mm	2.1	3.0	2.1	3.0	4.6	2.1	3.0	4.6	4.0	4.6
C18	FK3960E	—	FK5960E	FL5960E	FM5960E	FK10960E	FL10960E	FM10960E	GEN-4C18-125DF	GEN-4C18-125D
C8	—	FL3962E	FK5962E	—	—	—	FL10962E	FM10962E	—	—
C8(EC)	—	—	FK5964E	—	FM5964	—	—	FM10964E	—	—
AQ	—	—	—	—	FM5951E	—	—	FM10951E	—	—
Cyano	—	—	—	—	—	—	—	FM10965E <sup>1</sup>	—	—

<sup>1</sup>Also available in PEEK, metal-free column hardware (FM10965EP).

Length / mm	150		250			Guard cartridges (3/pk) <sup>1</sup>
i.d. / mm	4.0	4.6	3.0	4.0	4.6	For 3.0-4.6
C18	FH15960E	FM15960E	FL25960E	FH25960E	FM25960E	5169650/N
C8	—	FM15962E	—	—	FM25962E	FH1962-2/N
C8(EC)	—	FM15964E	—	FH25964E	FM25964E	—
AQ	—	FM15951E	—	—	FM25951E	—
Cyano	—	FM15965E <sup>2</sup>	—	—	FM25965E	—
Phenyl	—	FM15980E	—	—	FM25980E	—
Silica	—	—	—	—	FM25961E	FH1961-2/N

<sup>1</sup>To be used with All-Guard cartridge holder (80101/N) and column coupler for All-Guard cartridges (HI-081).

<sup>2</sup>Also available with reversed-phase shipping solvent (FM15965ER).

#### 5 $\mu\text{m}$

Length / mm	125	150	250
i.d. / mm	4.6	4.6	4.6
C18	GEN-5C18-125D	GEN-5C18-150D	GEN-5C18-250D
C8	—	—	GEN-5C8-250D
Phenyl	—	—	GEN-5PH-250D

### Semi-preparative and Preparative Columns

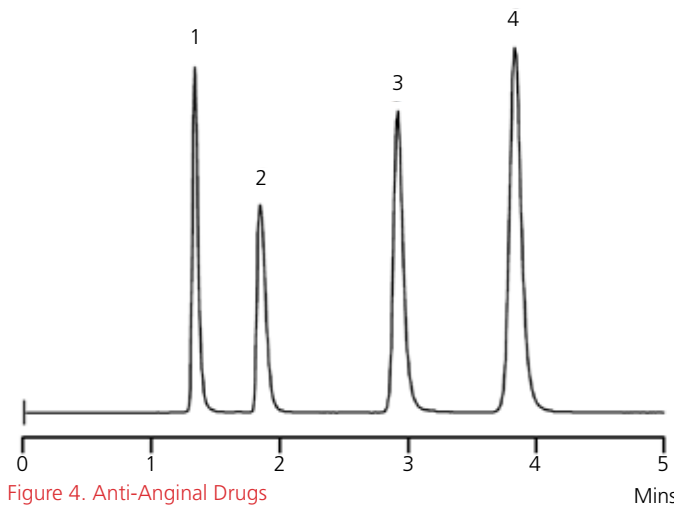
#### 4 $\mu\text{m}$

Length / mm	150	250
i.d. / mm	10	10
C18	—	8P25960
Silica	8P15961	—



**Column:** Genesis C18, 4  $\mu\text{m}$ , 100 x 4.6 mm (*p/n:* FM10960E)  
**Mobile phase:** Acetonitrile:50 mM  $\text{KH}_2\text{PO}_4$ , pH 3.0 (40:60)  
**Flow rate:** 1.0 mL  $\text{min}^{-1}$   
**Detector:** UV at 254 nm

1. Atenolol
2. Metoprolol
3. Propranolol
4. Diltiazem



**Column:** Genesis CN, 4  $\mu\text{m}$ , 150 x 4.6 mm (*p/n:* FM15965E)  
**Mobile phase:** Acetonitrile:0.05 % Trichloroacetic Acid in Water, pH 3.0  
**Flow rate:** 1.0 mL  $\text{min}^{-1}$   
**Detector:** UV at 254 nm

1. Atazine Desisopropyl
2. Atrazine Desethyl
3. Simazine
4. Propazine

