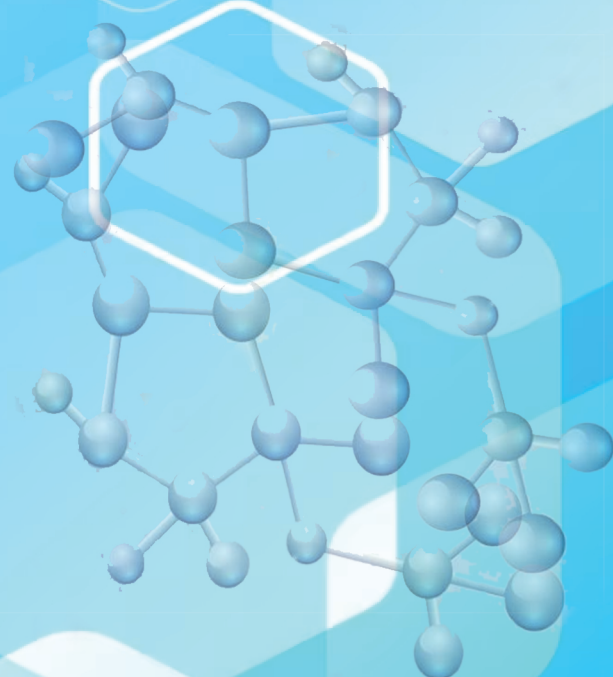
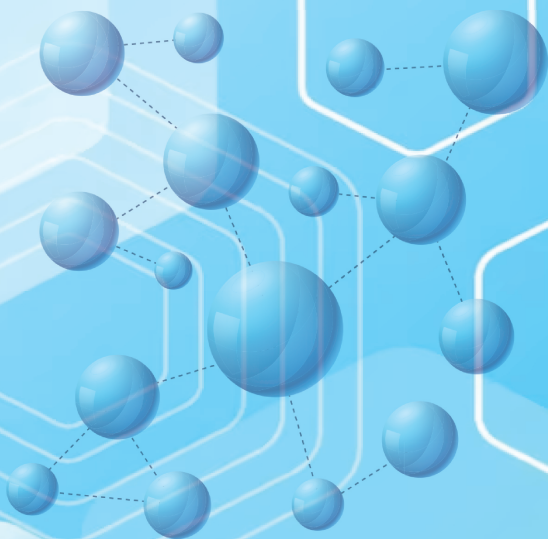


APARTSIL HPLC COLUMN



FRACTION SCIENTIFIC

APARTSIL HPLC COLUMN

Platform based on high throughput and high pure silica matrix. Designed for the whole range for analytical through development in normal and reversed phase.

Our extensive family of products offers a variety of particle sizes and column designs to meet all separation needs, including improved resolution, enhanced sensitivity, faster analysis and consistent performance.

1. High pure and low metal content silica matrix
2. More carbon loading with increase in hydrophobicity
3. High mass loading and efficiency
4. Excellent Peak resolution and shape
5. Batch to Batch reproducibility

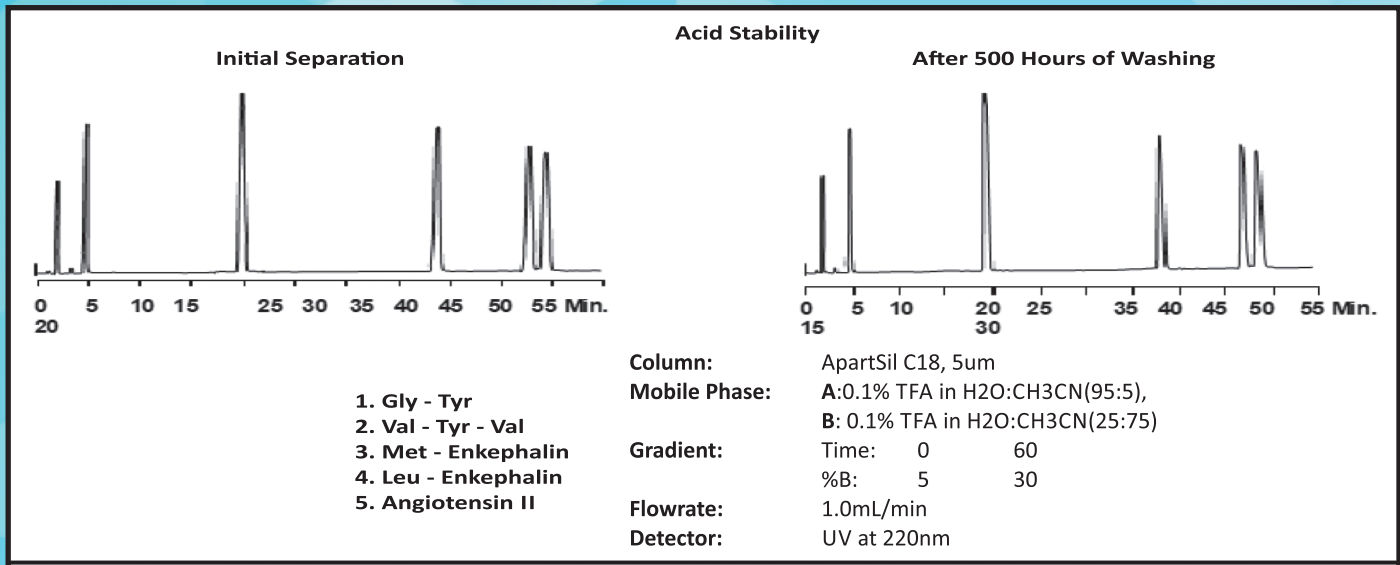
ApartSil Analytical Columns are available in 3 µm and 10 µm particle sizes across normal phase and reversed-phase column chemistries, C18, C8, Silica, Cyno and Phenyl with sure to meet your silica-based HPLC column requirements.

Fraction Scientific recommended comparable columns will most likely give a similar selectivity. In some cases the recommended comparable columns may give slightly different selectivity, and may lead to improved and more reliable separation. With more cost effective.

ApartSil Equivalent Normal & Reversed-Phase Columns Comparison

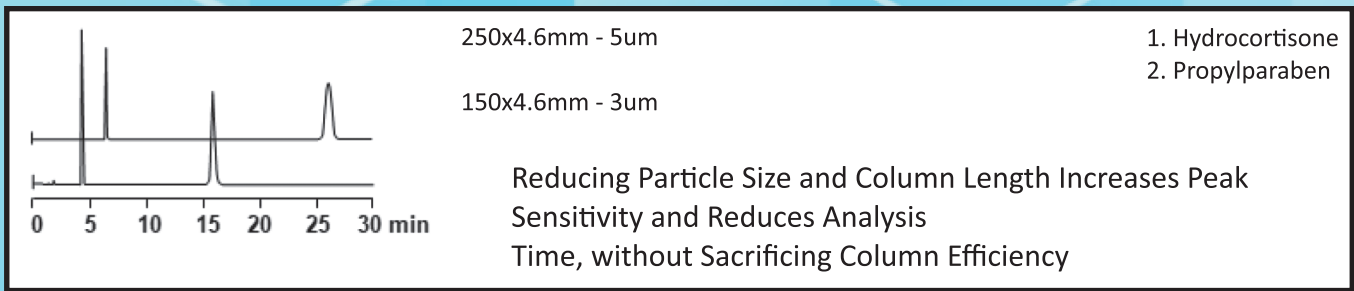
APARTSIL C18 Columns	Comparable Columns	APARTSIL C8 Columns	Comparable Columns
ApartSil C18	Luna [®] C18 ACE SuperC18 YMC-Pack ODS-AM Symmetry [®] C18 Kromasil [®] C18 LiChrosorb [®] RP-18 NUCLEODUR [®] C18 NUCLEOSIL [®] C18 Inertsil [®] ODS-2 C18 Acclaim [™] C18 Kromasil C18 Inertsil ODS 3 V Altima C18	ApartSil C8	Luna [®] C8 Symmetry [®] C8 Acclaim [™] C8 Kromasil [®] C8 LiChrosorb [®] RP-8 NUCLEODUR [®] C8 NUCLEOSIL [®] C8 Inertsil [®] C8-2 Sunfire [®] C8 Inertsil C8 Inertsil C8 -3 Altima C8
ApartSil C18(2)	Pursuit [®] XRs C18 ACE C18 YMC-Pack ODS-AM Xterra [®] C18 Hyperbond [®] C18 NUCLEOSIL [®] C18 InertSustain [®] C18 Sunfire [®] C18 Zorbax C18	ApartSil C8(2) ApartSil - BDS C8	YMC-Pack Pro C8 ACE C8 NUCLEOSIL [®] C8 YMC-Pack C8 Xterra [®] C8 IB-SIL C8 Zorbax C8 Inertsil [®] C8-3
ApartSil RP 18	Jupiter [®] C18 Vydac [®] C18 µBondapak [®] C18 Synchronac [®] C18 LiChrospher [®] RP18 Hypersil [™] GOLD C18 Spherisorb [®] ODS1 Inertsil [®] ODS-4 C18 Inertsil [®] ODS-SP C18 Spherisorb [®] ODS2	ApartSil - RP 8	LiChrospher [®] RP8 YMC-Pack C8 Xterra [®] C8 NUCLEODUR [®] C8 NUCLEOSIL [®] C8 Spherisorb [®] C8 Hypersil [™] C8 Inertsil [®] C8-4
ApartSil SB C18	Zorbax SB C18		Hypersil BDS C18
ApartSil ODS 3	Inertsil [®] ODS-3 C18		Hypurity C18 ProntoSIL 120 C18 Hypersil Bio Basic-18
ApartSil AQ	Aqua C18 ACE AQ Ultra Aqueous-C18 YMC-Pack ODS-AQ AQUA C18 Zorbax SB-Aq Synchronis [™] aQ C18	ApartSil C18 HPH ApartSil C18 HS	YMC-Pro C18 ACE 5 C18 XBridge C18 Zorbax Eclipse Plus 18
ApartSil AQ 2	SUPELCOSIL [™] ABZ+Plus ZORBAX Bonus-RP Discovery RP-Amide		XTerra MS C18 Ultimate XB-C18 Zorbax Eclipse XDB-C18

ApertSil Acid Stability



An ApertSil C18 column was washed for 500 hours at 60 C with an acetonitrile and trifluoroacetic acid mobile phase. The separation of peptides showed no change in capacity and selectivity or efficiency

ApertSil C18 column Efficiency



Phase	USP	PH stability	Particle Size	Pore Size	Surface Area	Carbon load
ApertSIL C18	L1	1.5-10	3,5,10um	100/120/300	320	17%
ApertSIL C18 AQ	L1	1.5-10	3,5,10um	100/120	320	12%
ApertSIL C18 Polar	L1	1.5-10	3,5,10um	100/120	320	18%
ApertSIL C18 HPH	L1	1.0-12.5	3,5,10um	100/150	320	14%
ApertSIL BDS C18	L1	2.0-8.0	3,5,10um	100/120	320	18%
ApertSIL C18 HS	L1	2.0-8.0	3,5,10um	100/120	450	25%
ApertSIL ODS	L1	2.0-8.0	3,5,10um	100/120/300	320	17%
ApertSIL ODS-P	L1	2.0-8.0	3,5,10um	100/120	320	15%
ApertSIL ODS-2	L1	2.0-8.0	3,5,10um	100/120	320	19%
ApertSIL RP18	L1	2.0-7.5	3,5,10um	100/120	350	18%
ApertSIL C18(2)	L1	2.0-9.0	3,5,10um	100/120/300	380	18%
ApertSIL C8 HPH	L7	1.0-12.5	3,5,10um	100/150	320	11%
ApertSIL C8	L7	1.5-10	3,5,10um	100/120	320	12%
ApertSIL C8 HS	L7	2.0-8.0	3,5,10um	100/120	450	18%
ApertSIL BDS C8	L7	2.0-8.0	3,5,10um	100/120	320	12%
ApertSIL RP 8	L7	2.0-8.0	3,5,10um	100/120	320	12%
ApertSIL C8 (2)	L7	2.0-9.0	3,5,10um	100/120	380	9%
ApertSIL C4	L26	2.0-8.0	3,5,10um	100/120/300	320	7%
ApertSIL Phenyl	L11	1.0-12.5	3,5,10um	100/120	320	12%
ApertSIL NH ₂	L8	2.0-8.0	3,5,10um	100/120	320	5%
ApertSIL CN	L10	2.0-8.0	3,5,10um	100/120	320	5%
ApertSIL C1	L16	2.0-7.5	3,5,10um	100/120	320	2%
ApertSIL C30	L62	2.0-7.5	3,5,10um	100/200/300	200/300	25%
ApertSIL PFP	L43	2.0-8.0	3,5,10um	100/120	320	7%

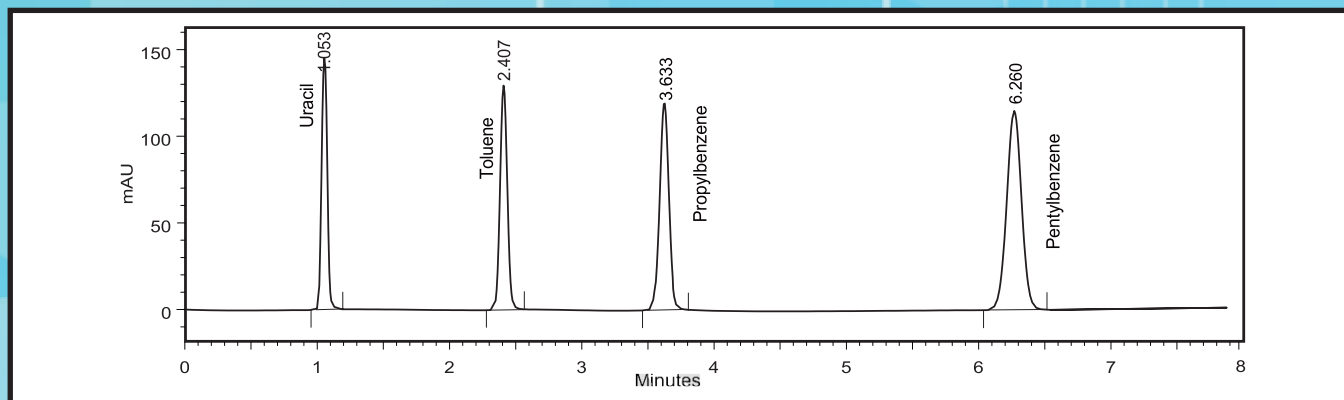
Fraction Scientific, provides ApertSil HPLC columns. The ApertSil Chromatography product line includes several robust reversed phase, Normal Phase, Ion Exchange, Prep Columns & Chiral Columns.

Sample COA

Phase : C18HC 150mm x4.6mm,5µm
Batch No : 1001-501
Serial No : 012324A1001
Part Number : FSC18HC-1504650

Test Result : Pentylbenzene
Efficiency : 14304
Peak Asym : 1.027

Specification:
NLT 8000
0.9-1.2



Test Analytes

Peak	Analyte	Retention Time	Asym.	Efficiency	T.P/m	Resolution
1	Uracil	1.053	1.251	3631	24204	-
2	Toluene	2.407	1.112	10149	67661	16.356
3	Propylbenzene	3.633	1.086	12682	84548	10.922
4	Pentylbenzene	6.260	1.027	14304	95359	15.523

Testing Condition

Mobile Phase : 85/15ACN/H₂O/1
Flow Rate : 1.3ml/min
Dete :
Detection : UV 254

Injection : 2.5µl

Back Pressure : 57 Bar



FRACTION SCIENTIFIC

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