avantor™

Chromatography Solutions

Avantor® ACE® Generix®

High performance, excellent value HPLC and UHPLC Columns

Avantor® ACE® Generix®

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HIGH PERFORMANCE, EXCELLENT VALUE HPLC AND UHPLC COLUMNS

High Efficiency 1.8, 3 and 5 µm Particles

- High purity spherical silica
- Ultra-narrow particle size distribution for excellent column efficiency
- C18, C8, Phenyl-Hexyl and SIL phases

Excellent Reproducibility

- Manufactured in the UK in ISO9001 and ISO14001 accredited facilities
- Sharp, highly symmetrical peaks for acidic, basic and neutral analytes
- Every column individually tested and supplied with a test chromatogram
- Excellent column-to-column and batch-to-batch reproducibility

Excellent Column Lifetime

- Highly stable bonded phases for long column lifetimes
- Ultra-robust HPLC and UHPLC column packing technology
- High performance guard system available

Phase Specifications

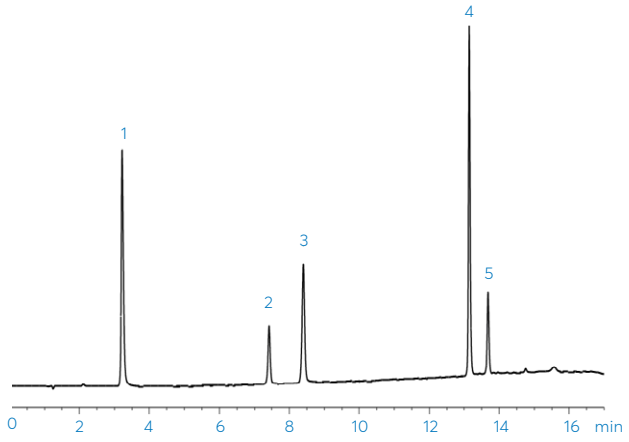
Bonded Phase[a]	Particle Size (µm)	Surface Area (m^2/g)	Pore Size (Å)	Carbon Load (%)	Recommended pH Range[b]	USP Listing
C18(2)	1.8, 3 and 5	350	95	20.3	2.0-8.0	L1
C8(2)	1.8, 3 and 5	350	95	11.9	2.0-8.0	L7
Phenyl-Hexyl	1.8, 3 and 5	350	95	15.2	2.0-8.0	L11
SIL	3 and 5	350	95	-	2.0-8.0	L3

[a]The full range of Avantor® ACE® HPLC and UHPLC columns is available with 1.7, 2, 3, 5 and 10 µm particle sizes and a wider range of stationary phase options.
[b]For optimum column lifetime, a pH range of 2-8 is recommended. To increase column lifetime at mid/high pH, organic buffers, low buffer concentrations, high % organic solvent and low temperatures must be considered. Further information is contained within "A Guide to HPLC and LC/MS Buffer Selection" by John Dolan.

SEPARATION OF VITAMINS

AVANTOR® ACE® GENERIX® 1.8 PHENYL-HEXYL

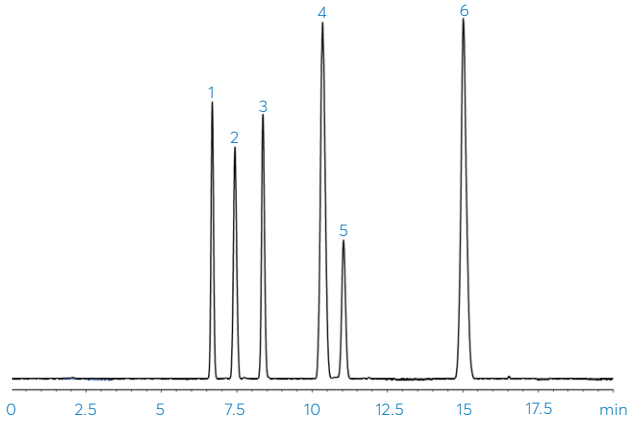
Column: Avantor® ACE® Generix® 1.8 Phenyl-Hexyl, 100 x 2.1 mm
Part Number: GEN-18PHEX-1002U
Mobile Phase: A: 20 mM KH_2PO_4 (pH 2.7) in H_2O
B: 20 mM KH_2PO_4 (pH 2.7) in $MeOH/H_2O$, 50:50 v/v
Gradient: 5 to 95 % B in 10 minutes
Flow Rate: 0.2 mL/min
Temperature: 30°C
Detection: 210 nm
Sample: 1: Pyridoxine (B6); 2: Pantothenic acid (B5); 3: p-Aminobenzoic acid; 4: Cyanocobalamin (B12); 5: Biotin (B7)



SEPARATION OF FATTY ACIDS

AVANTOR® ACE® GENERIX® 5 C8(2)

Column: Avantor® ACE® Generix® 5 C8(2), 250 x 4.6 mm
Part Number: GEN-5C82-2546
Mobile Phase: $MeCN/H_2O$ 90:10 v/v
Flow Rate: 1.0 mL/min
Temperature: 22°C
Detection: ELSD
Sample: 1: Linolenic acid; 2: Myristic acid; 3: Linoleic acid; 4: Palmitic acid; 5: Oleic acid; 6 Stearic acid



Avantor® ACE® Generix®

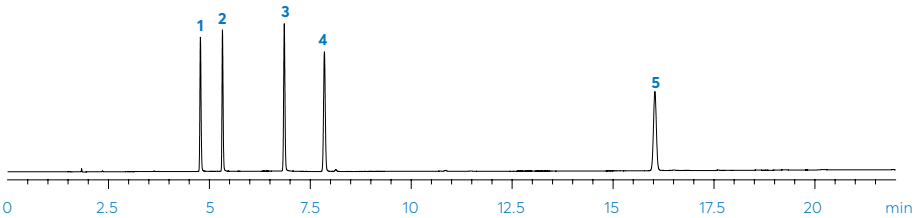
- Avantor® ACE® Generix® has been specifically developed as a high quality, cost effective alternative for many leading and legacy HPLC column brands.
- Combining efficiency, reproducibility and good column lifetimes, Avantor® ACE® Generix® is an excellent option to help reduce your analysis costs.

SEPARATION OF PHARMACEUTICALLY RELEVANT COMPOUNDS

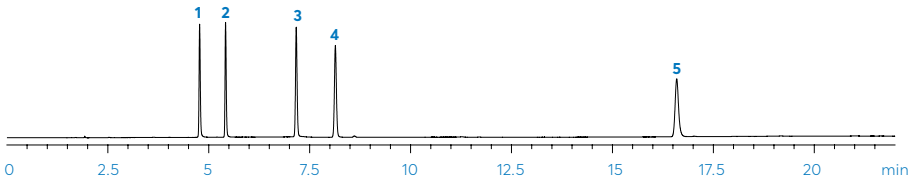
AVANTOR® ACE® GENERIX® CAN BE USED AS A COST EFFECTIVE ALTERNATIVE TO MANY LEADING AND LEGACY COLUMN BRANDS:

Column:	150 x 4.6 mm
Mobile Phase:	A: 20 mM KH_2PO_4 (pH 2.7) in H_2O B: 20 mM KH_2PO_4 (pH 2.7) in 65:35 MeCN/H_2O v/v
Gradient:	5 to 100 % B in 18 minutes
Flow Rate:	1.0 mL/min
Temperature:	40°C
Detection:	214 nm
Sample:	1: Procainamide; 2: Amiloride; 3: Caffeine; 4: Methyl Phenyl Sulfoxide; 5: Propiophenone

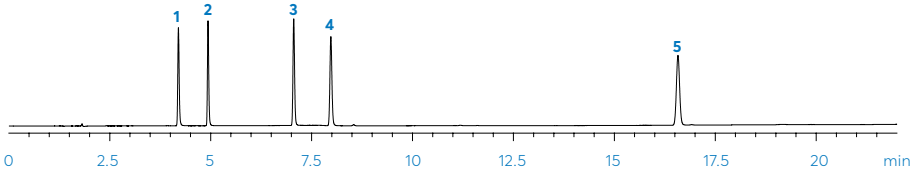
Avantor® ACE® Generix® 3 C18(2)



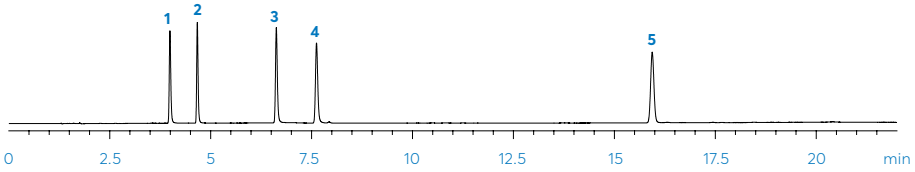
Phenomenex Luna 3 C18



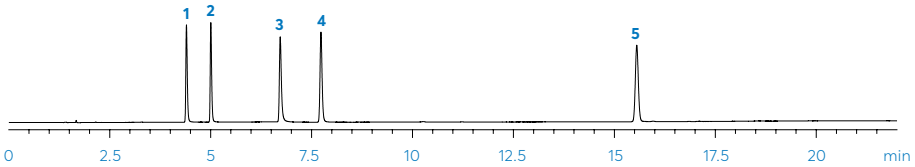
Waters SunFire 3.5 C18



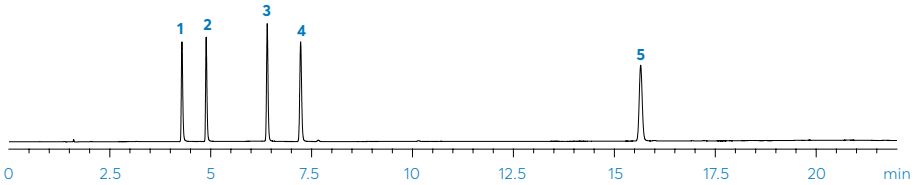
Waters Symmetry 3.5 C18



Agilent Zorbax 3.5 SB-C18



Agilent Zorbax Eclipse 3.5 XDB-C18



Comparative data above may not be representative of different applications. Analysts must verify suitability for specific requirements/analytes. Avantor®, ACE® and Generix® are registered trademarks of Avantor, Inc. or its affiliates. All other trademarks are the property of their respective owners.

Avantor® ACE® Generix® C18(2) Cross Reference Guide

For more information or advice please contact our technical support team at **chromsupport@avantorsciences.com**

ALTERNATIVES TO THE FOLLOWING LEADING AND LEGACY COLUMN BRANDS:

(Manufacturers' original part numbers are shown in the table below. Avantor® ACE® Generix® columns are also available in additional dimensions - please enquire for further details.)

Column Brand	Manufacturer	1.8 µm		3 µm		
		2.1 x 50 mm	2.1 x 100 mm	2.1 x 50 mm	4.6 x 100 mm	4.6 x 150 mm
Avantor® ACE® Generix® C18(2)		**GEN-18C182-0502**	**GEN-18C182-1002**	**GEN-3C182-0502**	**GEN-3C182-1046**	**GEN-3C182-1546**
Acclaim 120 C18	Thermo Scientific	-	-	059128	059132	059133
Ascentis C18	Supelco	-	-	581300-U	581321-U	581322-U
Betasil C18	Thermo Scientific	-	-	-	-	-
Discovery C18	Supelco	-	-	-	-	-
Discovery HS C18	Supelco	-	-	569253-U	568521-U	569252-U
Force C18	Restek	9634252	9634212	9634352	9634315	9634365
Fortis C18[1]	Fortis Technologies	F18-0203-01	F18-0205-01	F18-0203-03	F18-0505-03	F18-0507-03
GraceSmart C18	Grace	-	-	5141756	5141753	5141752
Hypersil ODS	Thermo Scientific	-	-		30103-104630	30103-154630
Hypersil BDS C18	Thermo Scientific	-	-	28103-052130	28103-104630	28103-154630
Hypersil GOLD C18 Selectivity[2]	Thermo Scientific			25003-052130	25003-104630	25003-154630
Hypersil HyPURITY C18	Thermo Scientific	-	-	22103-052130	22103-104630	22103-154630
Inertsil ODS	GL Sciences	-	-	-	-	-
Inertsil ODS-2	GL Sciences	-	-	-	-	-
Inertsil ODS-3[3]	GL Sciences	5020-84652	5020-84654	5020-04412	5020-01775	5020-01771
Inertsil ODS-4[3]	GL Sciences	5020-81202	5020-81204	5020-04012	5020-04044	5020-04045
InertSustain C18[3]	GL Sciences	5020-14352	5020-14354	5020-07412	5020-07444	5020-07445
LiChrosorb RP-18	Merck	-	-	-	-	-
LiChrospher RP-18	Merck	-	-	-	-	-
LiChrospher RP-18e	Merck	-	-	-	-	-
Luna C18(2)[*]	Phenomenex	-	-	-	-	00F-4251-E0
Nucleosil 100 C18	Macherey-Nagel	-	-	-	720841.46	720949.46
Nucleosil 120 C18	Macherey-Nagel	-	-	-	720149.46	720740.46
Nucleosil C18 HD	Macherey-Nagel	-	-	-	-	720193.46
Nucleodur C18 Gravity[5]	Macherey-Nagel	760079.20	760076.20	760080.20	760084.46	760083.46
Nucleodur C18 ec[5]	Macherey-Nagel	-	-	760050.20	760054.46	760053.46
Prodigy ODS-2	Phenomenex	-	-	-	-	-
Prodigy ODS-3[5]	Phenomenex	-	-	-	00D-4222-E0	00F-4222-E0
Prodigy ODS-3V	Phenomenex	-	-	-	-	00F-4243-E0
Purospher STAR RP-18e[3]	Merck	1.50646.0001	1.50648.0001	1.50651.0001	1.51448.7184	1.50470.0001
Roc C18	Restek	-	-	-	9534315	9534365
SunFire C18[4]	Waters	-	-	186002533	186002553	186002554
Supelcosil LC-18	Supelco	-	-	-	-	58985
Supelcosil LC-18-DB	Supelco	-	-	-	-	58993
Syncronis C18[1]	Thermo Scientific	97102-052130	97102-102130		97103-104630	97103-154630
Symmetry C18[4]	Waters	-	-	WAT200650	WAT066220	WAT200632
Ultra C18	Restek	-	-	9174352	9174315	9174365
Vision HT C18 HighLoad[5,6]	Grace	5142546	5142547	5151981	5151972	5151971
Waters Spherisorb ODS1	Waters	-	-	-	PSS833412	PSS833413
Waters Spherisorb ODS2	Waters	-	-	-	PSS832112	PSS832113
YMC-Pack ODS-A	YMC	-	-	AA12S03-05Q1QT	AA12S03-1046WT	AA12S03-1546WT
YMC-Pack ODS-AM	YMC	-	-	AM12S03-05Q1QT	AM12S03-1046WT	AM12S03-1546WT
YMC-Pack Pro C18[3, 5]	YMC	AS12S02-0502WT	-	AS12S03-05Q1QT	AS12S03-1046WT	AS12S03-1546WT
Zorbax Eclipse XDB-C18[4]	Agilent	927700-902	928700-902	971700-902	961967-902	963967-902
Zorbax Eclipse Plus C18[4]	Agilent	959757-902	959758-902	959743-902	959961-902	959963-902
Zorbax C18	Agilent	-	-	-	-	-
Zorbax Rx-C18[4]	Agilent	-	-	-	861967-902	863967-902
Zorbax SB-C18[4]	Agilent	857700-902	858700-902	871700-902	861953-902	863953-902

[1] 1.7 µm; [2] 1.9 µm; [3] 2 µm; [4] 3.5 µm; [5] 2.0 mm ID; [6] 1.5 µm, [*] 3 µm

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Column Brand	Manufacturer	5 µm				
		2.1 x 50 mm	4.6 x 50 mm	4.6 x 100 mm	4.6 x 150 mm	4.6 x 250 mm
Avantor® ACE® Generix® C18(2)		**GEN-5C182-0502**	**GEN-5C182-0546**	**GEN-5C182-1046**	**GEN-5C182-1546**	**GEN-5C182-2546**
Acclaim 120 C18	Thermo Scientific	059142	059146	059147	059148	059149
Ascentis C18	Supelco		581323-U	-	581324-U	581325-U
Betasil C18	Thermo Scientific	70105-052130	70105-054630	70105-1504630	70105-154630	70105-254630
Discovery C18	Supelco	50494721	504947	-	504955	504971
Discovery HS C18	Supelco	568500-U	568520-U	-	568522-U	568523-U
Force C18	Restek	9634552	-	9634515	9634565	9634575
Fortis C18[1]	Fortis Technologies	F18-0203-05	F18-0503-05	F18-0505-05	F18-0507-05	F18-0509-05
GraceSmart C18	Grace	-	-	-	5138812	5138810
Hypersil ODS	Thermo Scientific	30105-052130	30105-054630	30105-104630	30105-154630	30105-254630
Hypersil BDS C18	Thermo Scientific	28105-052130	28105-054630	28105-104630	28105-154630	28105-254630
Hypersil GOLD C18 Selectivity[2]	Thermo Scientific	25005-052130	25005-054630	25005-104630	25005-154630	25005-254630
Hypersil HyPURITY C18	Thermo Scientific	22105-052130	22105-054630	22105-104630	22105-154630	22105-254630
Inertsil ODS	GL Sciences	-	-	-	5020-02124	5020-02128
Inertsil ODS-2	GL Sciences	-	-	-	5020-01124	5020-01128
Inertsil ODS-3[3]	GL Sciences	5020-04512	5020-01763	5020-01765	5020-01731	5020-01732
Inertsil ODS-3V	GL Sciences	-	-	-	5020-01801	5020-01802
Inertsil ODS-4[3]	GL Sciences	5020-03912	5020-03942	5020-03944	5020-03945	5020-03946
Inertsil ODS-4V	GL Sciences	-	-	-	5020-10901	5020-10902
InertSustain C18[3]	GL Sciences	5020-07312	5020-07342	5020-07344	5020-07345	5020-07346
Luna C18(2)[5]	Phenomenex	00B-4252-B0	00B-4252-E0	00D-4252-E0	00F-4252-E0	00G-4252-E0
LiChrosorb RP-18	Merck	-	-		1.50009.7052	1.51902.0001
LiChrospher RP-18	Merck	-	-	1.50600.0001	1.50601.0001	1.50602.0001
LiChrospher RP-18e	Merck	-	-	1.50603.0001	1.50604.0001	1.50605.0001
Nucleosil 100 C18	Macherey-Nagel	-	-	720141.46	720120.46	720014.46
Nucleosil 120 C18	Macherey-Nagel	-	-	-	720730.46	720041.46
Nucleosil C18 HD	Macherey-Nagel	-	-	-	720294.46	720280.46
Nucleodur C18 Gravity[5]	Macherey-Nagel	760102.20	760102.46	760104.46	760103.46	760101.46
Nucleodur C18ec[5]	Macherey-Nagel	760004.20	760004.46	760013.46	760008.46	760002.46
Prodigy ODS-2	Phenomenex	-	00B-3300-E0	00D-3300-E0	00F-3300-E0	00G-3300-E0
Prodigy ODS-3[5]	Phenomenex	00B-4097-B0	00B-4097-E0	00D-4097-E0	00F-4097-E0	00G-4097-E0
Prodigy ODS-3V	Phenomenex	-	-	-	00F-4241-E0	00G-4241-E0
Purospher STAR RP-18e	Merck	-	-	1.50622.0001	1.51455.0001	1.51456.0001
Roc C18	Restek	-	-	9534515	9534565	9534575
SunFire C18[4]	Waters	186002539	186002557	186002558	186002559	186002560
Supelcosil LC-18	Supelco	-	-	59209	58230-U	58298
Supelcosil LC-18-DB	Supelco	-	58345	59208	58348	58355-U
Syncronis C18[1]	Thermo Scientific	97105-052130	97105-054630	97105-104630	97105-154630	97105-254630
Symmetry C18[4]	Waters	186000206	186000207	186002616	WAT045905	WAT054275
Ultra C18	Restek	9174552	9174555	9174515	9174565	9174575
Vision HT C18 HighLoad[5,6]	Grace	-	-	-	5151970	5151920
Waters Spherisorb ODS1	Waters	-	PSS830611	PSS830612	PSS830613	PSS830615
Waters Spherisorb ODS2	Waters	-	PSS831911	PSS831912	PSS831913	PSS831915
YMC-Pack ODS-A	YMC	AA12S05-05Q1WT	AA12S05-0546WT	AA12S05-1046WT	AA12S05-1546WT	AA12S05-2546WT
YMC-Pack ODS-AM	YMC	AM12S05-0502WT	AM12S05-0546WT	AM12S05-1046WT	AM12S05-1546WT	AM12S05-2546WT
YMC-Pack Pro C18[3,5]	YMC	AS12S05-0502WT	AS12S05-0546WT	AS12S05-1046WT	AS12S05-1546WT	AS12S05-2546WT
Zorbax Eclipse XDB-C18[4]	Agilent	960967-902	946975-902	-	993967-902	990967-902
Zorbax Eclipse Plus C18[4]	Agilent	959746-902	959946-902	959996-902	959993-902	959990-902
Zorbax ODS	Agilent	-	-	-	883952-702	880952-702
Zorbax Rx-C18[4]	Agilent	-	-	-	883967-902	880967-902
Zorbax SB-C18[4]	Agilent	860975-902	846975-902	-	883975-902	880975-902

[1] 1.7 µm; [2] 1.9 µm; [3] 2 µm; [4] 3.5 µm; [5] 2.0 mm ID; [6] 1.5 µm

Avantor® ACE® Generix® C8(2) Cross Reference Guide

ALTERNATIVES TO THE FOLLOWING LEADING AND LEGACY COLUMN BRANDS:

(Manufacturers' original part numbers are shown in the table below. Avantor® ACE® Generix® columns are also available in additional dimensions - please enquire for further details.)

Column Brand	Manufacturer	1.8 µm		3 µm		
		2.1 x 50 mm	2.1 x 100 mm	2.1 x 50 mm	4.6 x 100 mm	4.6 x 150 mm
Avantor® ACE® Generix® C8(2)	**Avantor**			**GEN-3C82-0502**	**GEN-3C82-1046**	**GEN-3C82-1546**
Acclaim 120 C8	Thermo Scientific	-	-	**059122**		**059127**
Ascentis C8	Supelco	-	-	**581400-U**	**581407-U**	**581408-U**
Betasil C8	Thermo Scientific	-	-	-	-	-
Discovery C8	Supelco	-	-	-	-	-
Fortis C8[1]	Fortis Technologies	**F08-0203-01**	**F08-0205-01**	**F08-0203-03**	**F08-0505-03**	**F08-0507-03**
Hypersil MOS	Thermo Scientific	-	-	-	-	-
Hypersil BDS C8	Thermo Scientific	-	-	**28203-052130**	**28203-104630**	**28203-154630**
Hypersil GOLD C8[2]	Thermo Scientific	**25202-052130**	**25202-102130**	**25203-052130**	**25203-104630**	**25203-154630**
Inertsil C8	GL Sciences	-	-	-	-	-
Inertsil C8-3[3]	GL Sciences	**5020-84931**	**5020-84933**	**5020-04812**	**5020-04844**	**5020-01911**
Inertsil C8-4[3]	GL Sciences	**5020-81282**	**5020-81284**	**5020-03972**	**5020-03995**	**5020-03996**
InertSustain C8[3]	GL Sciences	**5020-16236**	**5020-16238**	**5020-16133**	**5020-16156**	**5020-16157**
Luna C8(2)[4]	Phenomenex	-	-	**00B-4248-B0**	**00D-4248-E0**	**00F-4248-E0**
LiChrosorb RP-8	Merck	-	-	-	-	-
LiChrospher RP-8	Merck	-	-	-	-	-
LiChrospher RP-8e	Merck	-	-	-	-	-
Nucleosil 100 C8	Macherey-Nagel	-	-	-	-	-
Nucleosil 120 C8	Macherey-Nagel	-	-	-	-	**720214.46**
Nucleosil C8 HD	Macherey-Nagel	-	-	-	-	-
Nucleodur C8 Gravity[4]	Macherey-Nagel	**760755.20**	**760757.20**	**760653.20**	**760656.46**	**760658.46**
Nucleodur C8 ec[4]	Macherey-Nagel	-	-	**760063.20**	**760059.46**	**760061.46**
Prodigy C8[4]	Phenomenex	-	-	-	-	-
Purospher STAR RP-8e[3]	Merck	**1.50630.0001**	**1.50629.0001**	**1.50674.0001**	-	**1.50009.7220**
Roc C8	Restek	-	-	-	**9533315**	**9533365**
SunFire C8[5]	Waters	-	-	**186002710**	**186002731**	**186002732**
Supelcosil LC-8	Supelco	-	-	-	-	**58983**
Supelcosil LC-8 DB	Supelco	-	-	-	-	**58991**
Syncronis C8[1]	Thermo Scientific	**97202-052130**	**97202-102130**		**97203-104630**	**97203-154630**
Symmetry C8[5]	Waters	-	-	**WAT200624**	**WAT066204**	**WAT200630**
Ultra C8	Restek	-	-	**9103352**	**9103315**	**9103365**
Waters Spherisorb C84	Waters	-	-	-	**PSS832212**	**PSS832213**
YMC-Pack C8	YMC	-	-	**OC12S03-05Q1QT**	**OC12S03-1046WT**	**OC12S03-1546WT**
YMC-Pack Pro C8	YMC	-	-	**OS12S03-05Q1QT**	**OS12S03-1046WT**	**OS12S03-1546WT**
Zorbax Eclipse XDB-C8[5]	Agilent	**927700-906**	**928700-906**	**971700-906**	**961967-906**	**963967-906**
Zorbax Eclipse Plus C8[5]	Agilent	**959757-906**	**959758-906**	**959743-906**	**959961-906**	**959963-906**
Zorbax Rx-C8[5]	Agilent	-	-	-	-	-
Zorbax SB-C8[5]	Agilent	**857700-906**	**858700-906**	**871700-906**	**861953-906**	**863953-906**

[1] 1.7 µm; [2] 1.9 µm; [3] 2 µm; [4] 2.0 mm ID; [5] 3.5 µm

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For more information or advice please contact our technical support team at **chromsupport@avantorsciences.com**

Column Brand	Manufacturer	5 µm				
		2.1 x 50 mm	4.6 x 50 mm	4.6 x 100 mm	4.6 x 150 mm	4.6 x 250 mm
Avantor® ACE® Generix® C8(2)	**Avantor**	**GEN-5C82-0502**	**GEN-5C82-0546**	**GEN-5C82-1046**	**GEN-5C82-1546**	**GEN-5C82-2546**
Acclaim 120 C8	Thermo Scientific	059134	059138	059139	059140	059141
Ascentis C8	Supelco	-	-	-	581424-U	581425-U
Betasil C8	Thermo Scientific	-	-	-	70205-154630	70205-254630
Discovery C8	Supelco	59352-U21	59352-U	569423-U	59353-U	59354-U
Fortis C8[1]	Fortis Technologies	F08-0203-05	F08-0503-05	F08-0505-05	F08-0507-05	F08-0509-05
Hypersil MOS	Thermo Scientific	-	30205-054630	30205-104630	30205-154630	30205-254630
Hypersil BDS C8	Thermo Scientific	28205-052130	28205-054630	28205-104630	28205-154630	28205-254630
Hypersil GOLD C8[2]	Thermo Scientific	25205-052130	25205-054630	25205-104630	25205-154630	25205-254630
Inertsil C8[3]	GL Sciences	-	-	-	5020-01224	5020-01228
Inertsil C8-3[3]	GL Sciences	5020-04912	5020-04942	5020-04944	5020-01900	5020-01901
Inertsil C8-4[3]	GL Sciences	5020-04052	5020-04082	5020-04084	5020-04085	5020-04086
InertSustain C8	GL Sciences	5020-16003	5020-16024	5020-16026	5020-16027	5020-16028
Luna C8(2)[4]	Phenomenex	00B-4249-B0	00B-4249-E0	00D-4249-E0	00F-4249-E0	00G-4249-E0
LiChrosorb RP-8	Merck	-	-	-	-	1.51903.0001
LiChrospher RP-8	Merck	-	-	1.50634.0001	1.50635.0001	1.50636.0001
LiChrospher RP-8e	Merck	-	-	1.50637.0001	1.50638.0001	1.50639.0001
Nucleosil 100 C8	Macherey-Nagel	-	-	-	720990.46	720013.46
Nucleosil 120 C8	Macherey-Nagel	-	-	-	720735.46	720052.46
Nucleosil C8 HD	Macherey-Nagel	-	-	-	720194.46	720196.46
Nucleodur C8 Gravity[4]	Macherey-Nagel	760750.20	760750.46	760754.46	760752.46	760753.46
Nucleodur C8 ec[4]	Macherey-Nagel	760700.20	760700.46	760704.46	760702.46	760703.46
Prodigy C8[4]	Phenomenex		00B-3301-E0	00D-3301-E0	00F-3301-E0	00G-3301-E0
Purospher STAR RP-8e	Merck	-	-	-	1.50031.0001	1.50032.0001
Roc C8	Restek	-	-	9533515	9533565	9533575
SunFire C8[5]	Waters	186002715	186002735	186002736	186002737	186002738
Supelcosil LC-8	Supelco	-	58238	-	58220-U	58297
Supelcosil LC-8-DB	Supelco	-	58344	-	58347	58354
Syncronis C8[1]	Thermo Scientific			97205-104630	97205-154630	97205-254630
Symmetry C8[5]	Waters	186000212	186000213	186002617	WAT045995	WAT054270
Ultra C8	Restek	9103552	9103555	9103515	9103565	9103575
Waters Spherisorb C81	Waters	-	PSS831811	PSS831812	PSS831813	PSS831815
YMC-Pack C8	YMC	OC12S05-05Q1WT	OC12S05-0546WT	OC12S05-1046WT	OC12S05-1546WT	OC12S05-2546WT
YMC-Pack Pro C8[4]	YMC	OS12S05-0502WT	OS12S05-0546WT	OS12S05-1046WT	OS12S05-1546WT	OS12S05-2546WT
Zorbax Eclipse XDB-C8[5]	Agilent	960967-906	946975-906	-	993967-906	990967-906
Zorbax Eclipse Plus C8[5]	Agilent	959746-906	959946-906	959996-906	959993-906	959990-906
Zorbax Rx-C8	Agilent	-	-	-	883967-901	880967-901
Zorbax SB-C8[5]	Agilent	860975-906	846975-906	-	883975-906	880975-906

[1] 1.7 µm; [2] 1.9 µm; [3] 2 µm; [4] 2.0 mm ID; [5] 3.5 µm

Avantor® ACE® Generix® Phenyl-Hexyl Cross Reference Guide

ALTERNATIVES TO THE FOLLOWING LEADING AND LEGACY COLUMN BRANDS:

(Manufacturers' original part numbers are shown in the table below. Avantor® ACE® Generix® columns are also available in additional dimensions - please enquire for further details.)

Column Brand	Manufacturer	1.8 µm		3 µm		
		2.1 x 50 mm	2.1 x 100 mm	2.1 x 50 mm	4.6 x 100 mm	4.6 x 150 mm
Avantor® ACE® Generix® Phenyl Hexyl		**GEN-18PHEX-0502**	**GEN-18PHEX-1002**	**GEN-3PHEX-0502**	**GEN-3PHEX-1046**	**GEN-3PHEX-1546**
Acclaim 120 Phenyl-1	Thermo Scientific	-	-	-	-	071969
Hypersil Phenyl	Thermo Scientific	-	-	-	-	-
Hypersil Phenyl-BES	Thermo Scientific	-	-	-	-	28903-154630
Hypersil GOLD Phenyl[1]	Thermo Scientific	25902-052130	25902-102130	-	25903-104630	25903-154630
Inertsil Ph	GL Sciences	-	-	-	-	-
Inertsil Ph-3[2]	GL Sciences	5020-85131	5020-85133	5020-05012	5020-05044	5020-01931
InertSustain Phenyl[2]	GL Sciences	5020-16536	5020-16538	5020-16433	5020-16456	5020-16457
InertSustain Phenylhexyl	GL Sciences	-	-	5020-89125	5020-89148	5020-89149
Luna Phenyl-Hexyl[3]	Phenomenex	-	-	00B-4256-B0	00D-4256-E0	00F-4256-E0
Nucleosil C6H5	Macherey-Nagel	-	-	-	-	-
Nucleodur Phenyl-Hexyl[3]	Macherey-Nagel	760563.20	760566.20	760573.20	760576.46	760578.46
Prodigy Phenyl-3[3]	Phenomenex	-	-	-	-	-
Purospher STAR Phenyl[2]	Merck	1.51013.0001	1.51014.0001	1.50672.0001	-	-
Roc Phenyl-Hexyl	Restek	-	-	-	9535315	9535365
Syncronis Phenyl[4]	Thermo Scientific	97902-052130	97902-102130	-	-	-
Waters Spherisorb Phenyl	Waters	-	-	-	PSS833712	PSS833713
YMC-Pack Ph[3]	YMC	-	-	PH12S03-0502WT	PH12S03-1046WT	PH12S03-1546WT
Zorbax Eclipse XDB-Phenyl[5]	Agilent	-	-			963967-912
Zorbax Eclipse Plus-Phenyl-Hexyl[5]	Agilent	959757-912	959758-912	959743-912	959961-912	959963-912

Column Brand	Manufacturer	5 µm				
		2.1 x 50 mm	4.6 x 50 mm	4.6 x 100 mm	4.6 x 150 mm	4.6 x 250 mm
Avantor® ACE® Generix® Phenyl Hexyl		**GEN-5PHEX-0502**	**GEN-5PHEX-0546**	**GEN-5PHEX-1046**	**GEN-5PHEX-1546**	**GEN-5PHEX-2546**
Acclaim 120 Phenyl-1	Thermo Scientific	-	-	-	-	079697
Ascentis Phenyl	Supelco	581611-U	581615-U	-	581616-U	581617-U
Hypersil Phenyl	Thermo Scientific	-	-	-	30905-154630	30905-254630
Hypersil Phenyl-BDS	Thermo Scientific	-	-	-	28905-154630	28905-254630
Hypersil GOLD Phenyl[1]	Thermo Scientific	-	25905-054630	-	25905-154630	25905-254630
Inertsil Ph	GL Sciences	-	-	-	5020-01324	5020-01328
Inertsil Ph-3[2]	GL Sciences	5020-05112	5020-05142	5020-05144	5020-01920	5020-01921
InertSustain Phenyl[2]	GL Sciences	5020-16303	5020-16324	5020-16326	5020-16327	5020-16328
InertSustain Phenylhexyl	GL Sciences	5020-89002	5020-89016	5020-89025	5020-89026	5020-89027
Luna Phenyl-Hexyl[3]	Phenomenex	00B-4257-B0	00B-4257-E0	00D-4257-E0	00F-4257-E0	00G-4257-E0
Nucleosil C6H5	Macherey-Nagel	-	-	-	-	720956.46
Nucleodur Phenyl-Hexyl[3]	Macherey-Nagel	760583.20	760583.46	760586.46	760588.46	760589.46
Prodigy Phenyl-3[3]	Phenomenex	-	-	00B-4298-E0	00F-4298-E0	00G-4298-E0
Purospher STAR Phenyl[2]	Merck	-	-	-	1.51919.0001	1.51918.0001
Roc Phenyl-Hexyl	Restek	-	-	9535515	9535565	9535575
Syncronis Phenyl[4]	Thermo Scientific	-	-	-	97905-154630	97905-254630
Waters Spherisorb Phenyl	Waters	-	-	PSS830812	PSS830813	PSS830815
YMC-Pack Ph	YMC	PH12S05-05Q1QT	PH12S05-0546WT	PH12S05-1046WT	PH12S05-1546WT	PH12S05-2546WT
Zorbax Eclipse XDB-Phenyl[5]	Agilent	960967-912	935967-912	-	993967-912	990967-912
Zorbax Eclipse Plus-Phenyl-Hexyl[5]	Agilent	-	-	959996-912	959993-912	959990-912

[1] 1.9 µm; [2] 2 µm; [3] 2.0 mm ID; [4] 1.7 µm ID; [5] 3.5 µm

Note: Phenyl-Hexyl phases incorporate a C6 alkyl spacer which may result in improved hydrophobicity and increased stability in acidic conditions compared to conventional phenyl bonded phases.

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Avantor® ACE® Generix® SIL Cross Reference Guide

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ALTERNATIVES TO THE FOLLOWING LEADING AND LEGACY COLUMN BRANDS:

(Manufacturers' original part numbers are shown in the table below. Avantor® ACE® Generix® columns are also available in additional dimensions - please enquire for further details.)

Column Brand	Manufacturer	3 µm		
		2.1 x 50 mm	4.6 x 100 mm	4.6 x 150 mm
Avantor® ACE® Generix® SIL		GEN-3SIL-0502	GEN-3SIL-1046	GEN-3SIL-1546
Ascentis Si	Supelco	581500-U	-	-
Hypersil Silica	Thermo Scientific	30003-052130	-	30003-154630
Hypersil GOLD Silica[1]	Thermo Scientific	-	-	25103-154630
Inertsil SIL	GL Sciences	5020-04212	5020-04244	5020-01701
Luna Silica(2)[2]	Phenomenex	00B-4162-B0	00D-4162-E0	00F-4162-E0
Nucleosil SiOH	Macherey-Nagel	-	-	-
Nucleodur SiOH	Macherey-Nagel	-	-	760172.46
Roc Silica	Restek	-	9530315	9530365
Purospher STAR Si	Merck	-	-	-
SunFire Silica	Waters	-	-	-
Supelcosil LC-Si	Supelco	-	-	58981
Syncronis Silica[3]	Thermo Scientific	-	-	97003-154630
Ultra Silica	Restek	9100352	9100315	9100365
Waters Spherisorb Silica	Waters	-	PSS832012	PSS832013
YMC-Pack SIL	YMC	SL12S03-05Q1QT	SL12S03-1046WT	SL12S03-1546WT

Column Brand	Manufacturer	5 µm				
		2.1 x 50 mm	4.6 x 50 mm	4.6 x 100 mm	4.6 x 150 mm	4.6 x 250 mm
Avantor® ACE® Generix® SIL		GEN-5SIL-0502	GEN-5SIL-0546	GEN-5SIL-1046	GEN-5SIL-1546	GEN-5SIL-2546
Ascentis Si	Supelco	-	-	-	581512-U	581513-U
Hypersil Silica	Thermo Scientific	-	30005-054630	-	30005-154630	30005-254630
Hypersil GOLD Silica[1]	Thermo Scientific	-	-	-	25105-154630	25105-254630
Inertsil SIL	GL Sciences	5020-04312	5020-04342	5020-04344	5020-01711	5020-01712
Luna Silica(2)[2]	Phenomenex	00B-4274-B0	00B-4274-E0	00D-4274-E0	00F-4274-E0	00G-4274-E0
Nucleosil SiOH	Macherey-Nagel	-	-	-	-	720099.46
Nucleodur SiOH	Macherey-Nagel	-	760023.46	-	760012.46	760007.46
Roc Silica	Restek	-	-	9530515	9530565	9530575
Purospher STAR Si	Merck	-	-	-	1.50356.0001	1.50357.0001
SunFire Silica[3]	Waters	-	-	-	186003453	186003454
Supelcosil LC-Si	Supelco	-	58236	-	58200-U	58295
Syncronis Silica[3]	Thermo Scientific	-	-	97005-104630	97005-154630	97005-254630
Ultra Silica	Restek	9100552	9100555	9100515	9100565	9100575
Waters Spherisorb Silica	Waters	-	PSS830111	PSS083112	PSS830113	PSS830115
YMC-Pack SIL	YMC	SL12S05-05Q1QT	SL12S05-0546WT	SL12S05-1046WT	SL12S05-1546WT	SL12S05-2546WT
Zorbax Rx-Sil	Agilent	-	-	-	883975-901	880975-901

[1] 1.9 µm; [2] 2.0 mm ID; [3] 1.7 µm

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Ordering Information

AVANTOR® ACE® GENERIX® 1.8 µm UHPLC COLUMNS

Columns Dimensions	Particle size	UHPLC/HPLC hardware pressure rated up to 1,000 bar / 15,000 psi		
		C18(2)	C8(2)	Phenyl-Hexyl
2.1 x 50 mm	1.8 µm	GEN-18C182-0502U	GEN-18C82-0502U	GEN-18PHEX-0502U
2.1 x 75 mm	1.8 µm	GEN-18C182-7502U	GEN-18C82-7502U	GEN-18PHEX-7502U
2.1 x 100 mm	1.8 µm	GEN-18C182-1002U	GEN-18C82-1002U	GEN-18PHEX-1002U
3.0 x 50 mm	1.8 µm	GEN-18C182-0503U	GEN-18C82-0503U	GEN-18PHEX-0503U
3.0 x 75 mm	1.8 µm	GEN-18C182-7503U	GEN-18C82-7503U	GEN-18PHEX-7503U
3.0 x 100 mm	1.8 µm	GEN-18C182-1003U	GEN-18C82-1003U	GEN-18PHEX-1003U
Guard cartridges for 2.1-3.0 mm ID UHPLC columns (3/pk)		GEN-C182-GDU	GEN-C82-GDU	GEN-PHEX-GDU
UHPLC guard holder		H0011	H0011	H0011

AVANTOR® ACE® GENERIX® 3 µm HPLC COLUMNS

Columns Dimensions	Particle size	HPLC hardware pressure rated up to 275 bar / 4,000 psi			
		C18(2)	C8(2)	Phenyl-Hexyl	Sil
2.1 x 50 mm	3 µm	GEN-3C182-0502	GEN-3C82-0502	GEN-3PHEX-0502	GEN-3SIL-0502
2.1 x 75 mm	3 µm	GEN-3C182-7502	GEN-3C82-7502	GEN-3PHEX-7502	GEN-3SIL-7502
2.1 x 100 mm	3 µm	GEN-3C182-1002	GEN-3C82-1002	GEN-3PHEX-1002	GEN-3SIL-1002
2.1 x 125 mm	3 µm	GEN-3C182-1202	GEN-3C82-1202	GEN-3PHEX-1202	GEN-3SIL-1202
2.1 x 150 mm	3 µm	GEN-3C182-1502	GEN-3C82-1502	GEN-3PHEX-1502	GEN-3SIL-1502
3.0 x 50 mm	3 µm	GEN-3C182-0503	GEN-3C82-0503	GEN-3PHEX-0503	GEN-3SIL-0503
3.0 x 75 mm	3 µm	GEN-3C182-7503	GEN-3C82-7503	GEN-3PHEX-7503	GEN-3SIL-7503
3.0 x 100 mm	3 µm	GEN-3C182-1003	GEN-3C82-1003	GEN-3PHEX-1003	GEN-3SIL-1003
3.0 x 125 mm	3 µm	GEN-3C182-1203	GEN-3C82-1203	GEN-3PHEX-1203	GEN-3SIL-1203
3.0 x 150 mm	3 µm	GEN-3C182-1503	GEN-3C82-1503	GEN-3PHEX-1503	GEN-3SIL-1503
4.0 x 50 mm	3 µm	GEN-3C182-0504	GEN-3C82-0504	GEN-3PHEX-0504	GEN-3SIL-0504
4.0 x 75 mm	3 µm	GEN-3C182-7504	GEN-3C82-7504	GEN-3PHEX-7504	GEN-3SIL-7504
4.0 x 100 mm	3 µm	GEN-3C182-1004	GEN-3C82-1004	GEN-3PHEX-1004	GEN-3SIL-1004
4.0 x 125 mm	3 µm	GEN-3C182-1204	GEN-3C82-1204	GEN-3PHEX-1204	GEN-3SIL-1204
4.0 x 150 mm	3 µm	GEN-3C182-1504	GEN-3C82-1504	GEN-3PHEX-1504	GEN-3SIL-1504
4.6 x 50 mm	3 µm	GEN-3C182-0546	GEN-3C82-0546	GEN-3PHEX-0546	GEN-3SIL-0546
4.6 x 75 mm	3 µm	GEN-3C182-7546	GEN-3C82-7546	GEN-3PHEX-7546	GEN-3SIL-7546
4.6 x 100 mm	3 µm	GEN-3C182-1046	GEN-3C82-1046	GEN-3PHEX-1046	GEN-3SIL-1046
4.6 x 125 mm	3 µm	GEN-3C182-1246	GEN-3C82-1246	GEN-3PHEX-1246	GEN-3SIL-1246
4.6 x 150 mm	3 µm	GEN-3C182-1546	GEN-3C82-1546	GEN-3PHEX-1546	GEN-3SIL-1546
Guard cartridges for 2.1 mm ID HPLC columns (5/pk)		GEN-C182-GD2	GEN-C82-GD2	GEN-PHEX-GD2	GEN-SIL-GD2
Guard cartridges for 3.0-4.6 mm ID HPLC columns (5/pk)		GEN-C182-GD	GEN-C82-GD	GEN-PHEX-GD	GEN-SIL-GD
HPLC guard holder		H0010	H0010	H0010	H0010

AVANTOR® ACE® GENERIX® 5 µm HPLC COLUMNS

Columns Dimensions	Particle size	HPLC hardware pressure rated up to 275 bar / 4,000 psi			
		C18(2)	C8(2)	Phenyl-Hexyl	Sil
2.1 x 50 mm	5 µm	GEN-5C182-0502	GEN-5C82-0502	GEN-5PHEX-0502	GEN-5SIL-0502
2.1 x 75 mm	5 µm	GEN-5C182-7502	GEN-5C82-7502	GEN-5PHEX-7502	GEN-5SIL-7502
2.1 x 100 mm	5 µm	GEN-5C182-1002	GEN-5C82-1002	GEN-5PHEX-1002	GEN-5SIL-1002
2.1 x 125 mm	5 µm	GEN-5C182-1202	GEN-5C82-1202	GEN-5PHEX-1202	GEN-5SIL-1202
2.1 x 150 mm	5 µm	GEN-5C182-1502	GEN-5C82-1502	GEN-5PHEX-1502	GEN-5SIL-1502
2.1 x 250 mm	5 µm	GEN-5C182-2502	GEN-5C82-2502	GEN-5PHEX-2502	GEN-5SIL-2502
3.0 x 50 mm	5 µm	GEN-5C182-0503	GEN-5C82-0503	GEN-5PHEX-0503	GEN-5SIL-0503
3.0 x 75 mm	5 µm	GEN-5C182-7503	GEN-5C82-7503	GEN-5PHEX-7503	GEN-5SIL-7503
3.0 x 100 mm	5 µm	GEN-5C182-1003	GEN-5C82-1003	GEN-5PHEX-1003	GEN-5SIL-1003
3.0 x 125 mm	5 µm	GEN-5C182-1203	GEN-5C82-1203	GEN-5PHEX-1203	GEN-5SIL-1203
3.0 x 150 mm	5 µm	GEN-5C182-1503	GEN-5C82-1503	GEN-5PHEX-1503	GEN-5SIL-1503
3.0 x 250 mm	5 µm	GEN-5C182-2503	GEN-5C82-2503	GEN-5PHEX-2503	GEN-5SIL-2503
4.0 x 50 mm	5 µm	GEN-5C182-0504	GEN-5C82-0504	GEN-5PHEX-0504	GEN-5SIL-0504
4.0 x 75 mm	5 µm	GEN-5C182-7504	GEN-5C82-7504	GEN-5PHEX-7504	GEN-5SIL-7504
4.0 x 100 mm	5 µm	GEN-5C182-1004	GEN-5C82-1004	GEN-5PHEX-1004	GEN-5SIL-1004
4.0 x 125 mm	5 µm	GEN-5C182-1204	GEN-5C82-1204	GEN-5PHEX-1204	GEN-5SIL-1204
4.0 x 150 mm	5 µm	GEN-5C182-1504	GEN-5C82-1504	GEN-5PHEX-1504	GEN-5SIL-1504
4.0 x 250 mm	5 µm	GEN-5C182-2504	GEN-5C82-2504	GEN-5PHEX-2504	GEN-5SIL-2504
4.6 x 50 mm	5 µm	GEN-5C182-0546	GEN-5C82-0546	GEN-5PHEX-0546	GEN-5SIL-0546
4.6 x 75 mm	5 µm	GEN-5C182-7546	GEN-5C82-7546	GEN-5PHEX-7546	GEN-5SIL-7546
4.6 x 100 mm	5 µm	GEN-5C182-1046	GEN-5C82-1046	GEN-5PHEX-1046	GEN-5SIL-1046
4.6 x 125 mm	5 µm	GEN-5C182-1246	GEN-5C82-1246	GEN-5PHEX-1246	GEN-5SIL-1246
4.6 x 150 mm	5 µm	GEN-5C182-1546	GEN-5C82-1546	GEN-5PHEX-1546	GEN-5SIL-1546
4.6 x 250 mm	5 µm	GEN-5C182-2546	GEN-5C82-2546	GEN-5PHEX-2546	GEN-5SIL-2546
Guard cartridges for 2.1 mm ID HPLC columns (5/pk)		GEN-C182-GD2	GEN-C82-GD2	GEN-PHEX-GD2	GEN-SIL-GD2
Guard cartridges for 3.0-4.6 mm ID HPLC columns (5/pk)		GEN-C182-GD	GEN-C82-GD	GEN-PHEX-GD	GEN-SIL-GD
HPLC guard holder		H0010	H0010	H0010	H0010

AVANTOR® ACE® GENERIX® HPLC COLUMN MULTIPACKS

Three column multipacks provide further cost savings

Column Dimensions	Particle size	HPLC hardware pressure rated up to 275 bar / 4,000 psi			
		C18(2)	C8(2)	Phenyl-Hexyl	Sil
2.1 x 50 mm (3/pk)	3 µm	GEN-3C182-0502/3PK	GEN-3C82-0502/3PK	GEN-3PHEX-0502/3PK	GEN-3SIL-0502/3PK
4.6 x 100 mm (3/pk)	3 µm	GEN-3C182-1046/3PK	GEN-3C82-1046/3PK	GEN-3PHEX-1046/3PK	GEN-3SIL-1046/3PK
4.6 x 150 mm (3/pk)	3 µm	GEN-3C182-1546/3PK	GEN-3C82-1546/3PK	GEN-3PHEX-1546/3PK	GEN-3SIL-1546/3PK
2.1 x 50 mm (3/pk)	5 µm	GEN-5C182-0502/3PK	GEN-5C82-0502/3PK	GEN-5PHEX-0502/3PK	GEN-5SIL-0502/3PK
4.6 x 150 mm (3/pk)	5 µm	GEN-5C182-1546/3PK	GEN-5C82-1546/3PK	GEN-5PHEX-1546/3PK	GEN-5SIL-1546/3PK
4.6 x 250 mm (3/pk)	5 µm	GEN-5C182-2546/3PK	GEN-5C82-2546/3PK	GEN-5PHEX-2546/3PK	GEN-5SIL-2546/3PK

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