

Agilent HPLC Columns for Small Molecule



Your preferred supplier of chromatography instruments & consumables

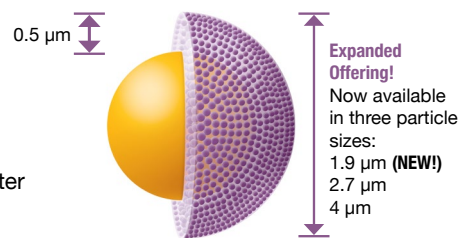


Agilent InfinityLab Poroshell 120 HPLC Columns

- ➔ 2 µm frit, for rugged performance with dirty samples
- ➔ High efficiency and high resolution
- ➔ Up to 50% less back pressure than sub 2 µm particle
- ➔ Compatible with 400/600 bar LC's, as well as UHPLCs

These high efficiency, high resolution columns can be used on any type of LC. The porous outer layer and solid core limit diffusion distance and improve separation speed while the narrow particle size distribution improves efficiency and resolution.

We recognize that you have your own quality control demands and that you test your method with multiple batches of material to ensure it's robust and reproducible. To support your requirements, we offer all-in-one kits that put method validation columns from three separate lots right at your fingertips. Simply add the letter "K" to the end of the part number.



Poroshell 120 Particle



(shown with column ID tag)

AGILENT INFINITY LAB POROSHELL 120 BONDED PHASE SPECIFICATIONS

BONDED PHASE	PORE SIZE	TEMP LIMIT	pH RANGE	ENDCAPPED
EC-C18, EC-C8, Phenyl-Hexyl	120Å	60° C	2.0 – 8.0	Yes
SB-C18	120Å	90° C	1.0 – 8.0	No
SB-C8, SB-Aq	120Å	80° C	1.0 – 8.0	No
Bonus RP	120Å	60° C	2.0 – 9.0	Triple
HILIC	120Å	60° C	0.0 – 8.0	No
HILIC-Z, HILIC-OH5	120Å	80° C (at pH 7)	2.0-12.0 (at 35 °C)	No
EC-CN	120Å	60° C	2.0 – 8.0	Double
PFP	120Å	60° C	2.0 – 8.0	Yes
HPH-C18, HPH-C8*	110Å	60° C	3.0 – 11.0	Yes

Specifications represent typical values only

**New Poroshell HPH-C18 and HPH-C8 technologies are made by chemically modifying Poroshell particles using proprietary technology designed to give high pH stability. Therefore, the pore sizes differ from the other phases in the Poroshell family.*

TECH TIP

Optional Column ID Tag*

Column ID tags give you at a glance details about the last injection date, number of injections, and the maximum temperature used. To order, simply add a "T" to the end of any Agilent InfinityLab Poroshell 120 HPLC Column.

** Column ID Tags are only compatible with Agilent Infinity II thermostatted column compartment with column identification option.*

AGILENT INFINITY LAB POROSHELL 120 2.7 µm

SIZE (mm)	EC-C18	EC-C8	SB-C18	SB-C8	HPH-C18	HPH-C8	SB-Aq	BONUS RP	EC-CN
4.6 x 150	693975-902	693975-906	683975-902	683975-906	693975-702	693975-706	683975-914	693968-901	693975-905
4.6 x 100	695975-902	695975-906	685975-902	685975-906	695975-702	695975-706	685975-914	695968-901	695975-905
4.6 x 75	697975-902	697975-906	687975-902	—	—	—	—	—	—
4.6 x 50	699975-902	699975-906	689975-902	689975-906	699975-702	699975-706	689975-914	699968-901	699975-905
4.6 x 30	691975-902	691975-906	681975-902	—	—	—	—	—	—
4.6 x 5 Guard, 3/pk	820750-911	820750-913	820750-912	—	—	—	—	—	—
3.0 x 150	693975-302	693975-306	683975-302	683975-306	693975-502	693975-506	683975-314	693968-301	693975-305
3.0 x 100	695975-302	695975-306	685975-302	685975-306	695975-502	695975-506	685975-314	695968-301	695975-305
3.0 x 75	697975-302	697975-306	687975-302	—	—	—	—	—	—
3.0 x 50	699975-302	699975-306	689975-302	689975-306	699975-502	699975-506	689975-314	699968-301	699975-305
3.0 x 30	691975-302	691975-306	681975-302	—	—	—	—	—	—
3.0 x 5 Guard, 3/pk	823750-911	823750-913	823750-912	—	—	—	—	—	—
2.1 x 150	693775-902	693775-906	683775-902	683775-906	693775-702	693775-706	683775-914	693768-901	693775-905
2.1 x 100	695775-902	695775-906	685775-902	685775-906	695775-702	695775-706	685775-914	695768-901	695775-905
2.1 x 75	697775-902	697775-906	687775-902	—	—	—	—	—	—
2.1 x 50	699775-902	699775-906	689775-902	689775-906	699775-702	699775-706	689775-914	699768-901	699775-905
2.1 x 30	691775-902	691775-906	681775-902	—	—	—	—	—	—
2.1 x 5 Guard 3/pk	821725-911	821725-913	821725-912	—	—	—	—	—	—



Agilent Small Molecule Columns

AGILENT INFINITY LAB POROSHELL 120 2.7 µm			
SIZE (mm)	PFP	PHE-HEX	HILIC
4.6 x 150	693975-408	693975-912	693975-901
4.6 x 100	695975-408	695975-912	695975-901
4.6 x 50	699975-408	699975-912	699975-901
4.6 x 5 Guard, 3/pk	—	820750-914	—
3.0 x 150	693975-308	693975-312	693975-301
3.0 x 100	695975-308	695975-312	695975-301
3.0 x 50	699975-308	699975-312	699975-301
3.0 x 5 Guard, 3/pk	—	823750-914	—
2.1 x 150	693775-408	693775-912	693775-901
2.1 x 100	695775-408	695775-912	695775-901
2.1 x 50	699775-408	699775-912	699775-901
2.1 x 5 Guard, 3/pk	821725-915	821725-914	—

AGILENT INFINITY LAB POROSHELL 120 4 µm					
SIZE (mm)	EC-C18	EC-C8	PFP	PHE-HEX	HILIC
4.6 x 250	690970-902	690970-906	690970-408	690970-912	690970-901
4.6 x 150	693970-902	693970-906	693970-408	693970-912	693970-901
4.6 x 100	695970-902	695970-906	695970-408	695970-912	695970-901
4.6 x 50	699970-902	699970-906	699970-408	699970-912	699970-901
4.6 x 5 Guard, 3/pk	820750-916	—	—	—	—
3.0 x 250	690970-302	690970-306	690970-308	690970-312	690970-301
3.0 x 150	693970-302	693970-306	693970-308	693970-312	693970-301
3.0 x 100	695970-302	695970-306	695970-308	695970-312	695970-301
3.0 x 50	699970-302	699970-306	699970-308	699970-312	699970-301
3.0 x 5 Guard, 3/pk	823750-916	—	—	—	—
2.1 x 250	650750-902	650750-906	650750-408	650750-912	650750-901
2.1 x 150	693770-902	693770-906	693770-408	693770-912	693770-901
2.1 x 100	695770-902	695770-906	695770-408	695770-912	695770-901
2.1 x 50	699770-902	699770-906	699770-408	699770-912	699770-901
2.1 x 5 Guard, 3/pk	821725-916	—	—	—	—

UHPLC Guard Column 3/pk
Complete guard assembly—
No holder required



AGILENT INFINITY LAB POROSHELL 120 1.9 µm						
SIZE (mm)	EC-C18	EC-C8	HILIC	PFP	PHE-HEX	HPH-C18
3.0 x 150	693675-302	693675-306	693675-301	693675-308	693675-312	693675-502
3.0 x 100	695675-302	695675-306	695675-301	695675-308	695675-312	695675-502
3.0 x 50	699675-302	699675-306	699675-301	699675-308	699675-312	699675-502
3.0 Guard, 3/pk	823750-940	823750-941	823750-944	823750-942	823750-943	823750-945
2.1 x 150	693675-902	693675-906	693675-901	693675-408	693675-912	693675-702
2.1 x 100	695675-902	695675-906	695675-901	695675-408	695675-912	695675-702
2.1 x 75	699675-902	—	—	—	—	—
2.1 x 50	—	699675-906	699675-901	699675-408	699675-912	699675-702
2.1 Guard, 3/pk	821725-940	821725-941	821725-944	821725-942	821725-943	821725-945

TECH TIP

Column ID Tag* Standard on Poroshell 120 1.9 µm

Column ID tags give you at a glance details about the last injection date, number of injections, and the maximum temperature used.

* Column ID Tags are only compatible with Agilent Infinity II thermostatted column compartment with column identification option.

Analyze challenging polar compounds with confidence

NEW InfinityLab Poroshell 120 HILIC chemistries allow you to retain and separate small polar analytes using a standard LC system and common reversed-phase solvents.

Robust Poroshell particle technology offers a high efficiency, fast analysis for increased productivity and long column lifetimes.

NEW Agilent Infinity Lab Poroshell 120 HILIC-OH5 Columns

- ➔ **NEW InfinityLab Poroshell 120 HILIC-Z:** A novel zwitterionic phase retains highly charged compounds, with excellent peak shape—even in high pH or high temperature conditions.
- ➔ **NEW InfinityLab Poroshell 120 HILIC-OH5:** A robust poly-hydroxy fructan phase offers alternate selectivity for optimal separation of polar analytes.

TECH TIP

Optional Column ID Tag*

Column ID tags give you at a glance details about the last injection date, number of injections, and the maximum temperature used. To order, simply add a "T" to the end of any Agilent InfinityLab Poroshell 120 HILIC-Z or HILIC-OH5 Column.

* Column ID Tags are only compatible with Agilent Infinity II thermostatted column compartment with column identification option.

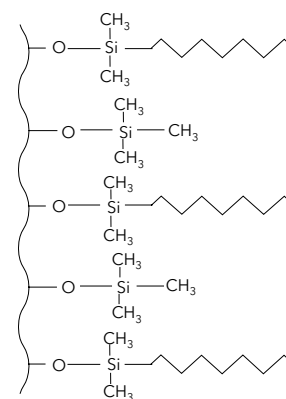
AGILENT INFINITY LAB POROSHELL 120 2.7 µm NEW!		
SIZE (mm)	HILIC-Z	HILIC-OH5
4.6 x 150	683975-924	683975-601
4.6 x 100	685975-924	685975-601
4.6 x 50	689975-924	689975-601
4.6 x 5 Guard, 3/pk	820750-933	—
3.0 x 150	683975-324	—
3.0 x 100	685975-324	—
3.0 x 50	689975-324	—
3.0 x 5 Guard, 3/pk	823750-948	—
2.1 x 150	683775-924	683775-601
2.1 x 150 PEEK lined	673775-924	—
2.1 x 100	685775-924	685775-601
2.1 x 100 PEEK lined	675775-924	—
2.1 x 50	689775-924	689775-601
2.1 x 50 PEEK lined	679775-924	—
2.1 x 5 Guard, 3/pk	821725-947	—

Agilent ZORBAX Eclipse Plus

- The ideal column for method development—excellent for a wide range of compounds
- High level of performance—peak shape, efficiency, resolution, and lifetime—with all sample types: acids, bases and neutrals

Agilent ZORBAX Eclipse Plus columns provide the ultimate in performance for silica-based columns. Peak shape is excellent for the most challenging basic compounds, improving efficiency and resolution with these sample types. These results are achieved by improvements in the silica manufacturing and bonding technology, which is completely controlled by Agilent.

Because of their high level of performance, Eclipse Plus columns are the ideal first choice for method development of all samples. If you need to achieve fast method development and superior productivity, then choose a column with high-resolution 1.8 μm particles. For standard methods, conventional 5 μm and Rapid Resolution 3.5 μm columns are your best choice. With all particle sizes, easy method transfer is possible.



AGILENT ZORBAX ECLIPSE PLUS COLUMN SPECIFICATIONS

BONDED PHASE	PORE SIZE	SURFACE AREA	pH RANGE*	ENDCAPPED	TEMP LIMIT	CARBON LOAD
ZORBAX Eclipse Plus C18	95Å	160 m ² /g	2.0 – 9.0	Double	60 °C	9%
ZORBAX Eclipse Plus C8	95Å	160 m ² /g	2.0 – 9.0	Double	60 °C	7%
ZORBAX Eclipse PAH	95Å	160 m ² /g	2.0 – 8.0	No	60 °C	14%
ZORBAX Eclipse Plus Ph-Hex	95Å	160 m ² /g	2.0 – 8.0	Double	60 °C	9%

Specifications represent typical values only.

*Column lifetime will be reduced significantly at pH > 7 and temperatures > 40 °C. At pH 6-9, highest column stability for all silica based columns is obtained by operating at temperatures < 40 °C and using lower buffer concentrations in the range of 0.01 – 0.02 M, especially with phosphate and carbonate buffers.



ZORBAX Eclipse Plus Columns

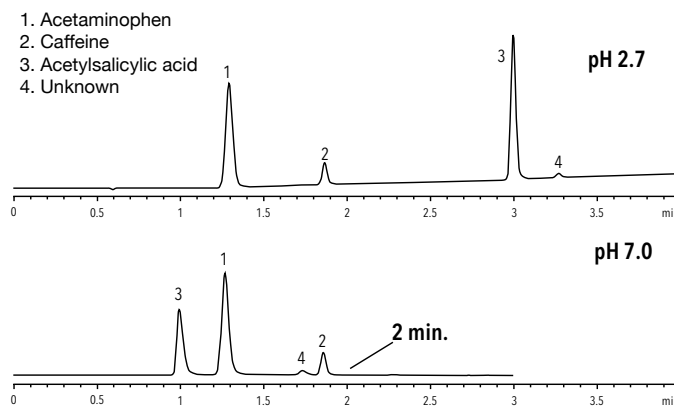
Rapid analysis of an analgesic tablet, selectivity differences at pH 2 and pH 7

Column A: Eclipse Plus C8
959946-906
4.6 x 50 mm, 5 μm

Gradient: 10 – 60% B/3 min
pH 2.7:A: 0.1% Formic acid B: 0.1% fa in ACN
pH 7.0: A: 20 mM Na phosphate B: ACN

Sample: generic Excedrin tablet

Both Eclipse Plus C18 and C8 can be used over a wide pH range to optimize selectivity or analysis time





Agilent ZORBAX Eclipse Plus

DESCRIPTION	SIZE (mm)	PARTICLE SIZE (µm)	Eclipse Plus C18 (USP L1)	Eclipse Plus C8 (USP L7)	Eclipse Plus Phenyl-Hexyl (USP L11)	Eclipse PAH (USP L1)
Analytical	4.6 x 250	5	959990-902	959990-906	959990-912	959990-918
Analytical	4.6 x 150	5	959993-902	959993-906	959993-912	959993-918
Analytical	4.6 x 100	5	959996-902	959996-906	959996-912	959996-918
Analytical	4.6 x 50	5	959946-902	959946-906	—	—
Rapid Resolution	4.6 x 150	3.5	959963-902	959963-906	959963-912	959963-918
Rapid Resolution	4.6 x 100	3.5	959961-902	959961-906	959961-912	959963-918
Rapid Resolution	4.6 x 75	3.5	959933-902	959933-906	959933-912	—
Rapid Resolution	4.6 x 50	3.5	959943-902	959943-906	959943-912	959943-918
Rapid Resolution	4.6 x 30	3.5	959936-902	959936-906	—	—
Guard Column Cartridges, 4/pk	4.6 x 12.5	5	820950-936	820950-937	820950-938	820950-939
High Performance ZORBAX Guard Fittings Kit			820999-901	820999-901	820999-901	820999-901
Rapid Resolution HT, 600 bar	4.6 x 100	1.8	959964-902	959964-906	959964-912	959964-918
Rapid Resolution HT, 600 bar	4.6 x 75	1.8	959951-902	—	—	—
Rapid Resolution HT, 600 bar	4.6 x 50	1.8	959941-902	959941-906	959941-912	959941-918
Rapid Resolution HT, 600 bar	4.6 x 30	1.8	959931-902	959931-906	959931-912	959931-918
UHPLC Guard, 600 bar, 3/pk	4.6 x 5	1.8	820750-901	—	—	—
Solvent Saver	3.0 x 250	5	—	—	—	959990-318
Solvent Saver	3.0 x 150	5	959993-302	959993-306	—	—
Solvent Saver Plus	3.0 x 150	3.5	959963-302	959963-306	959963-312	—
Solvent Saver Plus	3.0 x 100	3.5	959961-302	959961-306	959961-312	—
Guard Column Cartridges, 4/pk	4.6 x 12.5	5	820950-936	820950-937	820950-938	820950-939
High Performance ZORBAX Guard Fittings Kit			820999-901	820999-901	820999-901	820999-901
Solvent Saver RRHD, 1200 bar	3.0 x 150	1.8	959759-302	959759-306	—	—
Solvent Saver RRHD, 1200 bar	3.0 x 100	1.8	959758-302	959758-306	959758-312	959758-318
Solvent Saver RRHD, 1200 bar	3.0 x 50	1.8	959757-302	959757-306	959757-312	959757-318
Solvent Saver HT, 600 bar	3.0 x 100	1.8	959964-302	959964-306	959964-312	—
Solvent Saver HT, 600 bar	3.0 x 50	1.8	959941-302	959941-306	959941-312	—
UHPLC Guard Column, 1200 bar, 3/pk	3.0 x 5	1.8	823750-901	—	—	—
Narrow Bore	2.1 x 250	5	—	—	—	959790-918
Narrow Bore	2.1 x 150	5	959701-902	959701-906	959701-912	959701-918
Narrow Bore	2.1 x 50	5	959746-902	959746-906	—	—
Narrow Bore RR	2.1 x 150	3.5	959763-902	959763-906	959763-912	—
Narrow Bore RR	2.1 x 100	3.5	959793-902	959793-906	959793-912	959793-918
Narrow Bore RR	2.1 x 50	3.5	959743-902	959743-906	959743-912	—
Narrow Bore RR	2.1 x 30	3.5	959733-902	959733-906	959733-912	—
Guard Cartridges, 4/pk	2.1 x 12.5	5	821125-936	821125-937	821125-938	821125-939
High Performance ZORBAX Guard Fittings Kit			820999-901	820999-901	820999-901	820999-901
Narrow Bore RRHD, 1200 bar	2.1 x 150	1.8	959759-902	959759-906	959759-912	959763-918
Narrow Bore RRHD, 1200 bar	2.1 x 100	1.8	959758-902	959758-906	959758-912	959764-918
Narrow Bore RRHD, 1200 bar	2.1 x 50	1.8	959757-902	959757-906	959757-912	959741-918
Narrow Bore RRHT, 600 bar	2.1 x 100	1.8	959764-902	959764-906	959764-912	959764-918
Narrow Bore RRHT, 600 bar	2.1 x 50	1.8	959741-902	959741-906	959741-912	959741-918
Narrow Bore RRHT, 600 bar	2.1 x 30	1.8	959731-902	959731-906	959731-912	—
UHPLC Guard Column, 1200 bar, 3/pk	2.1 x 5	1.8	821725-901	—	—	—

UHPLC Guard Column
Complete guard assembly—
No holder required

High Performance ZORBAX
Guard Fittings Kit
820999-901



Cartridges
sold separately

Agilent ZORBAX Eclipse XDB

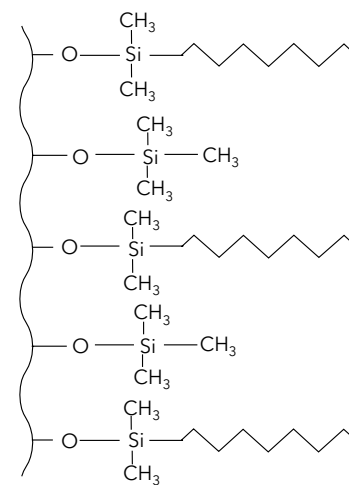
- Four selectivity choices for method development optimization
- Good peak shape for basic, acidic and neutral compounds
- High performance over a wide pH range—pH 2 – 9
- Particle sizes from 1.8 to 7 μm
- Long lifetime with eXtra Dense Bonding (XDB) and double endcapping

AGILENT ZORBAX ECLIPSE XDB COLUMN SPECIFICATIONS

BONDED PHASE	PORE SIZE	SURFACE AREA	pH RANGE*	ENDCAPPED	TEMP LIMIT	CARBON LOAD
ZORBAX Eclipse XDB C18	80Å	180 m ² /g	2.0 – 9.0	Double	60 °C	10%
ZORBAX Eclipse XDB C8	80Å	180 m ² /g	2.0 – 9.0	Double	60 °C	7.6%
ZORBAX Eclipse XDB-Phenyl	80Å	180 m ² /g	2.0 – 9.0	Double	60 °C	7.2%
ZORBAX Eclipse XDB-CN	80Å	180 m ² /g	2.0 – 8.0	Double	60 °C	4.3%

Specifications represent typical values only

*Eclipse XDB columns are designed for operation over a wide pH range. At pH 6 – 9, highest columns stability for all silica based columns is achieved by operating at temperatures < 40 °C and using low buffer concentrations in the range of 0.01 – 0.02 M.



eXtra Densely Bonded and Double Endcapped Eclipse XDB Bonded Phase

DESCRIPTION	SIZE (mm)	PARTICLE SIZE (μm)	Eclipse XDB-C18 (USP L1)	Eclipse XDB-C8 (USP L7)	Eclipse XDB-Phenyl (USP L11)	Eclipse XDB-CN (USP L10)
STANDARD COLUMNS (NO SPECIAL HARDWARE REQUIRED)						
SemiPrep	9.4 x 250	5	990967-202	990967-206	—	—
SemiPrep Guard Cartridge	9.4 x 15	5	820675-112*	820675-112*	820675-112*	820675-112*
SemiPrep Guard Hardware Kit			840140-901	840140-901	840140-901	840140-901
Analytical	4.6 x 250	5	990967-902	990967-906	990967-912	990967-905
Analytical	4.6 x 150	5	993967-902	993967-906	993967-912	993967-905
Analytical	4.6 x 50	5	946975-902	946975-906	—	—
Rapid Resolution	4.6 x 150	3.5	963967-902	963967-906	963967-912	963967-905
Rapid Resolution	4.6 x 100	3.5	961967-902	961967-906	—	961967-905
Rapid Resolution	4.6 x 75	3.5	966967-902	966967-906	966967-912	966967-905
Rapid Resolution	4.6 x 50	3.5	935967-902	935967-906	935967-912	—
Rapid Resolution	4.6 x 30	3.5	934967-902	934967-906	—	—
Rapid Resolution	4.6 x 20	3.5	932967-902	932967-906	—	—
Guard Cartridges, 4/pk	4.6 x 12.5	5	820950-925	820950-926	820950-927	820950-935
High Performance ZORBAX Guard Fittings Kit			820999-901	820999-901	820999-901	820999-901
Rapid Resolution HT, 600 bar	4.6 x 100	1.8	928975-902	928975-906	—	—
Rapid Resolution HT, 600 bar	4.6 x 50	1.8	927975-902	927975-906	—	—
Rapid Resolution HT, 600 bar	4.6 x 30	1.8	924975-902	924975-906	—	—
Rapid Resolution HT, 600 bar	4.6 x 20	1.8	926975-902	926975-906	—	—
UHPLC Guard Column, 1200 bar/3pk	4.6 x 5	1.8	820750-903	—	—	—
Solvent Saver	3.0 x 250	5	990967-302	990967-306	990967-312	990967-305
Solvent Saver	3.0 x 150	5	993967-302	993967-306	993967-312	993967-305
Solvent Saver Plus	3.0 x 150	3.5	963954-302	963954-306	963954-312	963954-305
Solvent Saver Plus	3.0 x 100	3.5	961967-302	961967-306	961967-312	—
Solvent Saver Plus	3.0 x 50	3.5	966954-302	—	—	—
Guard Cartridges, 4/pk	4.6 x 12.5	5	820950-925	820950-926	820950-927	820950-935
High Performance ZORBAX Guard Fittings Kit			820999-901	820999-901	820999-901	820999-901

*These columns are packed with Eclipse XDB-C18, 5 μm



DESCRIPTION	SIZE (mm)	PARTICLE SIZE (µm)	Eclipse XDB-C18 (USP L1)	Eclipse XDB-C8 (USP L7)	Eclipse XDB-Phenyl (USP L11)	Eclipse XDB-CN (USP L10)
STANDARD COLUMNS (NO SPECIAL HARDWARE REQUIRED)						
Solvent Saver RRHD, 1200 bar	3.0 x 150	1.8	981759-302	—	—	—
Solvent Saver RRHD, 1200 bar	3.0 x 100	1.8	981758-302	—	—	—
Solvent Saver RRHD, 1200 bar	3.0 x 100	1.8	981757-302	—	—	—
Solvent Saver HT, 600 bar	3.0 x 100	1.8	928975-302	928975-306	—	—
Solvent Saver HT, 600 bar	3.0 x 50	1.8	927975-302	927975-306	—	—
Solvent Saver HT, 600 bar	3.0 x 30	1.8	924975-302	924975-306	—	—
Solvent Saver HT, 600 bar	3.0 x 20	1.8	926975-302	926975-306	—	—
UHPLC Guard Column, 1200 bar, 3/pk	3.0 x 5	1.8	823750-903	—	—	—
Narrow Bore	2.1 x 150	5	993700-902	993700-906	993700-912	993700-905
Narrow Bore	2.1 x 50	5	960967-902	960967-906	960967-912	960967-905
Narrow Bore RR	2.1 x 150	3.5	930990-902	930990-906	—	—
Narrow Bore RR	2.1 x 100	3.5	961753-902	961753-906	—	961753-905
Narrow Bore RR	2.1 x 75	3.5	966735-902	—	—	—
Narrow Bore RR	2.1 x 50	3.5	971700-902	971700-906	—	—
Narrow Bore RR	2.1 x 30	3.5	974700-902	974700-906	—	—
Narrow Bore RR	2.1 x 20	3.5	972700-902	972700-906	—	—
Guard Cartridges, 4/pk	2.1 x 12.5	5	821125-926	821125-926	821125-926	821125-935
High Performance ZORBAX Guard Fittings Kit			820999-901	820999-901	820999-901	820999-901
Narrow Bore RRHD, 1200 bar	2.1 x 150	1.8	981759-902	—	—	—
Narrow Bore RRHD, 1200 bar	2.1 x 100	1.8	981758-902	—	—	—
Narrow Bore RRHD, 1200 bar	2.1 x 50	1.8	981757-902	—	—	—
Narrow Bore RRHT, 600 bar	2.1 x 100	1.8	928700-902	928700-906	—	—
Narrow Bore RRHT, 600 bar	2.1 x 50	1.8	927700-902	927700-906	—	—
Narrow Bore RRHT, 600 bar	2.1 x 30	1.8	924700-902	924700-906	—	—
Narrow Bore RRHT, 600 bar	2.1 x 20	1.8	926700-902	926700-906	—	—
UHPLC Guard Column, 1200 bar, 3/pk	2.1 x 5	1.8	821725-903	—	—	—
MicroBore RR	1.0 x 150	3.5	963600-902	963600-906	—	—
MicroBore RR	1.0 x 50	3.5	965600-902	965600-906	—	—
MicroBore RR	1.0 x 30	3.5	961600-902	961600-906	—	—
MicroBore Guard Column, 3/pk	1.0 x 17	5	5185-5921	5185-5921	—	—
CAPILLARY GLASS-LINED COLUMNS						
Capillary	0.5 x 250	5	5064-8286	—	—	—
Capillary	0.5 x 150	5	5064-8287	—	—	—
Capillary RR	0.5 x 150	3.5	5064-8288	—	—	—
Capillary RR	0.5 x 35	3.5	5064-8298	—	—	—
Capillary	0.3 x 250	5	5064-8269	—	—	—
Capillary	0.3 x 150	5	5064-8291	—	—	—
Capillary RR	0.3 x 150	3.5	5064-8271	—	—	—
Capillary	0.5 x 35	5	5064-8296	—	—	—
Capillary	0.3 x 35	5	5064-8297	—	—	—

UHPLC Guard Column
Complete guard assembly—
No holder required

High Performance ZORBAX
Guard Fittings Kit
820999-901

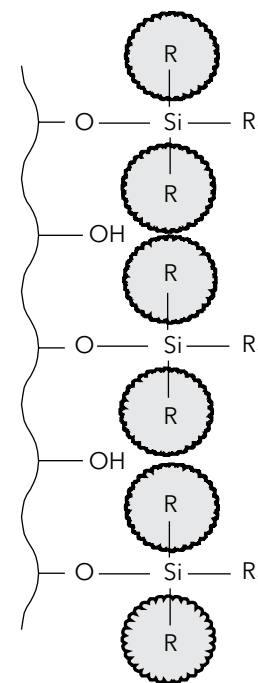


Cartridges
sold separately

Agilent ZORBAX 80Å StableBond

- ➔ Longest column lifetime and best reproducibility for low pH separations—down to pH 1
- ➔ Patented stable column chemistry allows use at high temperature and low pH without degradation
- ➔ Six different bonded phases provide broad selectivity—SB-C18, SB-C8, SB-CN, SB-Phenyl, SB-C3 and SB-Aq
- ➔ High purity (Type B) silica for good peak shape

Agilent ZORBAX StableBond columns use patented, unique, nonfunctional silanes with bulky disobutyl (SB-C18) or disopropyl (SB-C8, SB-C3, SB-Phenyl, SB-CN, and SB-Aq) side chain groups that sterically protect the key siloxane bond to the silica surface from hydrolytic attack at low pH. StableBond packing materials are not endcapped in order to provide exceptional stability and to maximize lifetime and reproducibility under acidic mobile phase conditions.



Sterically Protected StableBond Bonded Phase

AGILENT ZORBAX 80Å STABLEBOND COLUMN SPECIFICATIONS						
BONDED PHASE	PORE SIZE	SURFACE AREA	pH RANGE*	ENDCAPPED	TEMP LIMITS*	CARBON LOAD
ZORBAX SB-C18	80Å	180 m ² /g	0.8 – 8.0	No	90 °C	10%
ZORBAX SB-C8	80Å	180 m ² /g	1.0 – 8.0	No	80 °C	5.5%
ZORBAX SB-C3	80Å	180 m ² /g	1.0 – 8.0	No	80 °C	4%
ZORBAX SB-Phenyl	80Å	180 m ² /g	1.0 – 8.0	No	80 °C	5.5%
ZORBAX SB-CN	80Å	180 m ² /g	1.0 – 8.0	No	80 °C	4%
ZORBAX SB-Aq	80Å	180 m ² /g	1.0 – 8.0	No	80 °C	proprietary

Specifications represent typical values only

*StableBond columns are designed for optimal use at low pH. At pH 6 – 8, highest column stability for all silica-based columns is obtained at temperatures < 40 °C and using lower buffer concentrations in the range of 0.01 – 0.02 M. At mid-range pH, Eclipse Plus, Eclipse XDB and Bonus-RP are recommended.

StableBond SB-C18 shows excellent stability at low pH and high temperature (pH 0.8, 90 °C)

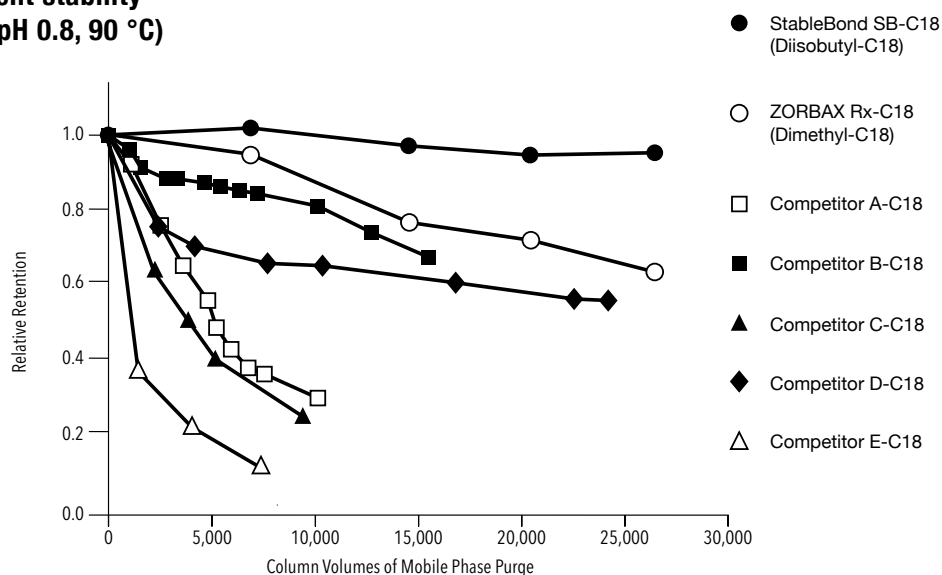
Column: ZORBAX SB-C18
883975-902
4.6 x 150 mm, 5 µm

Column: ZORBAX Rx-C18
883967-902
4.6 x 150 mm, 5 µm

Mobile Phase: 50% Methanol/50% Water with 1.0% TFA
Test Solute: Toluene

Temperature: 90 °C

As an indicator of column breakdown, retention time of toluene was measured after purging the column with mobile phase. Only the StableBond SB-C18 is unchanged after three working months of use under these very low pH (0.8) and high temperature (90 °C) conditions. ZORBAX Rx-C18 also provides a stable matrix, and can be used as an alternative selectivity to StableBond SB-C18





DESCRIPTION	SIZE (mm)	PARTICLE SIZE (µm)	SB-C18 (USP L1)	SB-C8 (USP L7)	SB-CN (USP L10)	SB-C3 (USP L56)	SB-Phenyl (USP L11)	SB-Aq
STANDARD COLUMNS (NO SPECIAL HARDWARE REQUIRED)								
SemiPrep	9.4 x 250	5	880975-202	880967-201	880975-205	880975-209	880975-212	—
SemiPrep	9.4 x 150	5	883975-202	—	—	—	—	—
SemiPrep	9.4 x 100	5	884975-202	—	—	—	—	—
SemiPrep	9.4 x 50	5	846975-202	—	—	—	—	—
SemiPrep Guard Cartridges, 2/pk	9.4 x 15	7	820675-115	820675-115	820675-124	820675-124	820675-115	—
SemiPrep Guard Hardware Kit	9.4 x 15		840140-901	840140-901	840140-901	840140-901	840140-901	—
Analytical	4.6 x 250	5	880975-902	880975-906	880975-905	880975-909	880975-912	880975-914
Analytical	4.6 x 150	5	883975-902	883975-906	883975-905	883975-909	883975-912	883975-914
Analytical	4.6 x 50	5	846975-902	846975-906	—	—	—	846975-914
Rapid Resolution	4.6 x 250	3.5	884950-567	—	—	—	—	—
Rapid Resolution	4.6 x 150	3.5	863953-902	863953-906	863953-905	—	863953-912	863953-914
Rapid Resolution	4.6 x 100	3.5	861953-902	861953-906	861953-905	—	861953-912	861953-914
Rapid Resolution	4.6 x 75	3.5	866953-902	—	866953-905	—	866953-912	866953-914
Rapid Resolution	4.6 x 50	3.5	835975-902	835975-906	835975-905	—	835975-912	835975-914
Rapid Resolution	4.6 x 30	3.5	834975-902	834975-906	—	—	—	—
Rapid Resolution	4.6 x 20	3.5	832975-902	832975-906	—	—	—	—
Guard Cartridges, 4/pk	4.6 x 12.5	5	820950-920	820950-915	820950-916	820950-922	820950-917	820950-933
High performance ZORBAX guard fittings kit			820999-901	820999-901	820999-901	820999-901	820999-901	820999-901
Rapid Resolution HT, 600 bar	4.6 x 150	1.8	829975-902	829975-906	829975-905	—	829975-912	829975-914
Rapid Resolution HT, 600 bar	4.6 x 100	1.8	828975-902	828975-906	828975-905	—	828975-912	828975-914
Rapid Resolution HT, 600 bar	4.6 x 75	1.8	—	830975-906	—	—	—	—
Rapid Resolution HT, 600 bar	4.6 x 50	1.8	827975-902	827975-906	827975-905	—	827975-912	827975-914
Rapid Resolution HT, 600 bar	4.6 x 30	1.8	824975-902	824975-906	824975-905	—	824975-912	824975-914
Rapid Resolution HT, 600 bar	4.6 x 20	1.8	826975-902	826975-906	—	—	—	—
UHPLC Guard Columns, 600 bar, 3/pk	4.6 x 5	1.8	820750-902	820750-904	—	—	—	—
Solvent Saver	3.0 x 250	5	880975-302	880975-306	880975-305	880975-309	880975-312	880975-314
Solvent Saver	3.0 x 150	5	883975-302	883975-306	883975-305	883975-309	883975-312	883975-314
Solvent Saver Plus	3.0 x 150	3.5	863954-302	863954-306	863954-305	—	863954-312	863954-314
Solvent Saver Plus	3.0 x 100	3.5	861954-302	861954-306	861954-305	861954-309	861954-312	861954-314
Solvent Saver Plus	3.0 x 75	3.5	866953-302	—	—	—	—	—
Guard Cartridges, 4/pk	4.6 x 12.5	5	820950-920	820950-915	820950-916	820950-922	820950-917	820950-933
High performance ZORBAX guard fittings kit			820999-901	820999-901	820999-901	820999-901	820999-901	820999-901
Solvent Saver RRHD, 1200 bar	3.0 x 150	1.8	859700-302	859700-306	—	—	—	—
Solvent Saver RRHD, 1200 bar	3.0 x 100	1.8	858700-302	858700-306	858700-305	—	858700-312	858700-314
Solvent Saver RRHD, 1200 bar	3.0 x 50	1.8	857700-302	857700-306	857700-305	—	857700-312	857700-314
Solvent Saver HT, 600 bar	3.0 x 150	1.8	829975-302	829975-306	829975-305	—	829975-312	—
Solvent Saver HT, 600 bar	3.0 x 100	1.8	828975-302	828975-306	828975-305	828975-309	828975-312	828975-314
Solvent Saver HT, 600 bar	3.0 x 50	1.8	827975-302	827975-306	827975-305	—	—	—
Solvent Saver HT, 600 bar	3.0 x 30	1.8	824975-302	824975-306	824975-305	—	827975-312	827975-314
Solvent Saver HT, 600 bar	3.0 x 20	1.8	826975-302	826975-306	—	—	—	—
UHPLC Guard Columns, 1200 bar, 3/pk	3.0 x 5	1.8	823750-902	823750-904	—	—	—	—

Unless indicated, column pressure limit is 400 bar

(Continued on next page)

UHPLC Guard Column
Complete guard assembly—
No holder required

High Performance ZORBAX
Guard Fittings Kit
820999-901



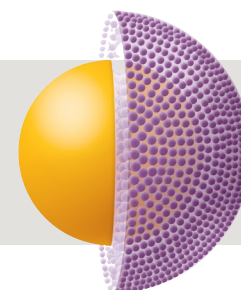
Cartridges
sold separately

DESCRIPTION	SIZE (mm)	PARTICLE SIZE (µm)	SB-C18 (USP L1)	SB-C8 (USP L7)	SB-CN (USP L10)	SB-C3 (USP L56)	SB-Phenyl (USP L11)	SB-Aq
STANDARD COLUMNS (NO SPECIAL HARDWARE REQUIRED)								
Narrow Bore	2.1 x 150	5	883700-922	—	883700-905	883700-909	883700-912	—
Narrow Bore	2.1 x 50	5	860975-902	860975-906	860975-905	860975-909	860975-912	860975-914
Narrow Bore RR	2.1 x 150	3.5	830990-902	830990-906	—	—	—	830990-914
Narrow Bore RR	2.1 x 100	3.5	861753-902	861753-906	861753-905	—	861753-912	861753-914
Narrow Bore RR	2.1 x 75	3.5	866735-902	—	—	—	—	—
Narrow Bore RR	2.1 x 50	3.5	871700-902	871700-906	—	—	—	871700-914
Narrow Bore RR	2.1 x 30	3.5	874700-902	874700-906	—	—	—	—
Narrow Bore RR	2.1 x 20	3.5	872700-902	872700-906	—	—	—	—
Guard Cartridge, 4/pk	2.1 x 12.5	5	821125-915	821125-915	821125-924	821125-924	821125-915	821125-933
High performance ZORBAX guard fittings kit			820999-901	820999-901	820999-901	820999-901	820999-901	820999-901
Narrow Bore RRHD, 1200 bar	2.1 x 150	1.8	859700-902	859700-906	859700-905	—	859700-912	859700-914
Narrow Bore RRHD, 1200 bar	2.1 x 100	1.8	858700-902	858700-906	858700-905	—	858700-912	858700-914
Narrow Bore RRHD, 1200 bar	2.1 x 50	1.8	857700-902	857700-906	857700-905	—	857700-912	857700-914
Narrow Bore RRHT, 600 bar	2.1 x 150	1.8	820700-902	820700-906	820700-905	—	820700-912	—
Narrow Bore RRHT, 600 bar	2.1 x 100	1.8	828700-902	828700-906	828700-905	—	828700-912	828700-914
Narrow Bore RRHT, 600 bar	2.1 x 50	1.8	827700-902	827700-906	827700-905	—	827700-912	827700-914
Narrow Bore RRHT, 600 bar	2.1 x 30	1.8	824700-902	824700-906	824700-905	—	824700-912	824700-914
Narrow Bore RRHT, 600 bar	2.1 x 20	1.8	826700-902	826700-906	—	—	—	—
UHPLC Guard Column, 1200 bar, 3/pk	2.1 x 5	1.8	821725-902	821725-904	—	—	—	—
MicroBore RR	1.0 x 150	3.5	863600-902	963600-906	863600-905	—	—	—
MicroBore RR	1.0 x 50	3.5	865600-902	865600-906	—	—	—	—
MicroBore RR	1.0 x 30	3.5	861600-902	861600-906	—	—	—	—
MicroBore Guard Column, 3/pk	1.0 x 17	5	5185-5920	5185-5920	—	—	—	—
PREPHT CARTRIDGE COLUMNS (REQUIRE ENDFITTINGS KIT 820400-901)								
PrepHT Cartridge	21.2 x 250	7	877250-102	877250-106	877250-105	—	877250-112	877250-114
PrepHT Cartridge	21.2 x 150	7	877150-102	877150-106	—	—	—	877150-114
PrepHT Cartridge	21.2 x 150	5	870150-902	870150-906	—	—	—	870150-914
PrepHT Cartridge	21.2 x 100	5	870100-902	870100-906	—	—	—	870100-914
PrepHT Cartridge	21.2 x 50	5	870050-902	870050-906	—	—	—	870050-914
PrepHT Cartridge, 2/pk	17.0 x 7.5	5	820212-920	820212-915	820212-915	—	820212-915	820212-933
Guard Cartridge Hardware			820444-901	820444-901	820444-901	820444-901	820444-901	820444-901
PrepHT Endfittings, 2/pk			820400-901	820400-901	820400-901	820400-901	820400-901	820400-901
AGILENT CARTRIDGE COLUMNS (REQUIRE HARDWARE KIT 5021-1845)								
Analytical	4.6 x 250	5	7995218-585	7995208-585	—	—	—	—
Analytical	4.6 x 150	5	7995218-595	7995208-595	—	—	—	—
Rapid Resolution	4.6 x 75	3.5	7995218-344	7995208-344	—	—	—	—
Guard Cartridges, 10/pk	4.0 x 4	5	7995118-504	7995118-504	—	—	—	—
Cartridge Holder			5021-1845	5021-1845	—	—	—	—

Unless indicated, column pressure limit is 400 bar

TECH TIP

ZORBAX StableBond SB-C18, SB-C8 and SB-Aq phases are also available in Poroshell 120 (see 2)





DESCRIPTION	SIZE (mm)	PARTICLE SIZE (µm)	SB-C18 (USP L1)	SB-C8 (USP L7)
STANDARD COLUMNS (NO SPECIAL HARDWARE REQUIRED)				
Rapid Resolution HT	4.6 x 50	1.8	822975-902	822975-906
Rapid Resolution HT, 3/pk	4.6 x 50	1.8	822975-932	—
Narrow Bore RRHT	2.1 x 50	1.8	822700-902	—
Narrow Bore RRHT, 3/pk	2.1 x 50	1.8	822700-932	—
CAPILLARY GLASS-LINED COLUMNS				
Capillary	0.5 x 250	5	5064-8258	—
Capillary	0.5 x 150	5	5064-8256	—
Capillary	0.5 x 35	5	5064-8254	—
Capillary RR	0.5 x 150	3.5	5064-8262	—
Capillary RR	0.5 x 35	3.5	5064-8260	—
Capillary	0.3 x 250	5	5064-8257	—
Capillary	0.3 x 150	5	5064-8255	—
Capillary	0.3 x 35	5	5064-8253	—
Capillary RR	0.3 x 150	3.5	5064-8261	—

Agilent ZORBAX 80Å StableBond

The high purity, low acidity silica provides excellent peak shape with acidic, basic and neutral compounds making StableBond columns an excellent choice for low pH method development. ZORBAX StableBond columns are compatible with all common mobile phases, including highly aqueous mobile phases.

Five different bonded phases provide selectivity options

Column A: ZORBAX SB-C18
883975-902
4.6 x 150 mm, 5 µm

Column B: ZORBAX SB-C8
883975-906
4.6 x 150 mm, 5 µm

Column C: ZORBAX SB-C3
883975-909
4.6 x 150 mm, 5 µm

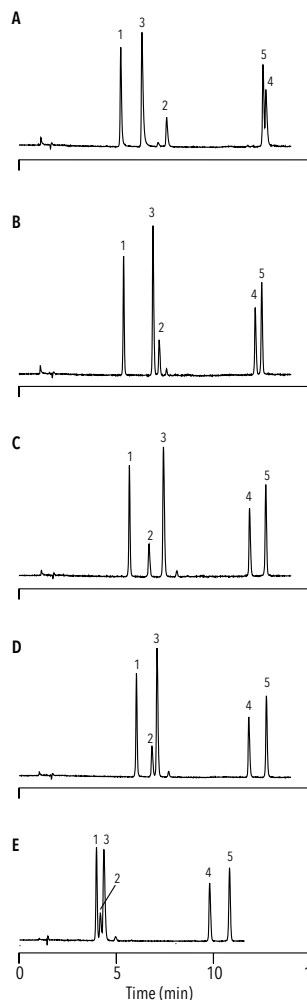
Column D: ZORBAX SB-Phenyl
883975-912
4.6 x 150 mm, 5 µm

Column E: ZORBAX SB-CN
883975-905
4.6 x 150 mm, 5 µm

Mobile Phase: 0 – 100% B in 18.8 min
A: 50 mM NaH₂PO₄, pH 2.5 in 95% H₂O/5% ACN
B: 50 mM NaH₂PO₄, pH 2.5 in 47% H₂O/53% ACN

Flow Rate: 1.0 mL/min
Temperature: 26 °C
Detector: 254 nm

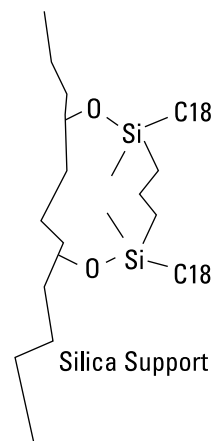
SB-C3 is just one of the five different StableBond selectivity choices. In this example, optimum resolution is obtained with SB-C3. All are based on the same high purity Rx-SIL. Selectivity changes are therefore dependent only on the bonded phases, making method development more reliable.



1. Procaine
2. Lidocaine
3. d-Cinchonine
4. Butacaine
5. Tetracaine

Agilent ZORBAX 80Å Extend-C18

- High efficiency and long life at pH up to 11.5
- Bidentate bonding and double endcapping provides high pH stability
- More efficiency and better peak shape than polymer-based columns
- Improve retention, resolution and peak shape of basic compounds
- High sensitivity for LC/MS separations of peptides



AGILENT ZORBAX 80Å EXTEND-C18 COLUMN SPECIFICATIONS

BONDED PHASE	PORE SIZE	SURFACE AREA	pH RANGE*	ENDCAPPED	TEMP LIMITS*	CARBON LOAD
ZORBAX Extend-C18	80Å	180 m ² /g	2.0 – 11.5	Double	60 °C	12.5%

Specifications represent typical values only

*Temperature limits are 60 °C up to pH 8, 40 °C from pH 8 – 11.5

**Above pH 6 highest column stability for all silica based columns is obtained by reducing the operating temperature to 40 °C or below and using lower buffer concentrations (0.01 – 0.02 M) or organic buffers.

Long life at high pH with Extend-C18

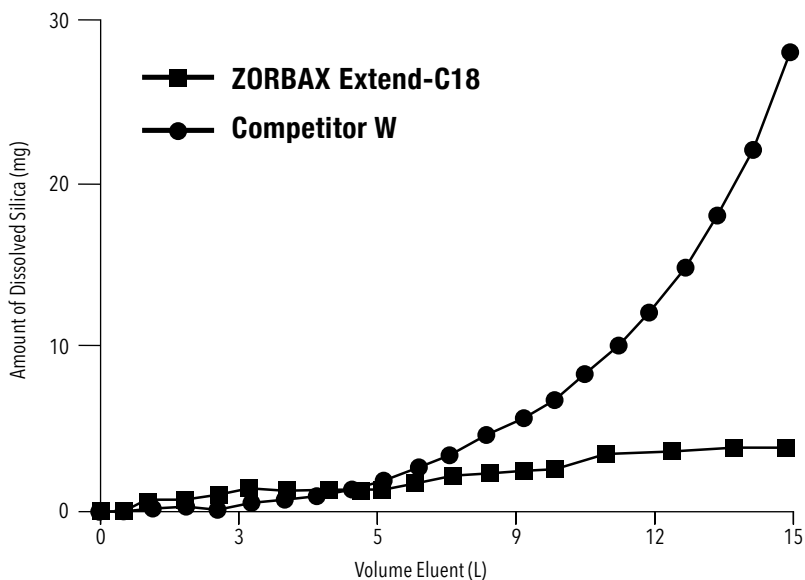
Column: ZORBAX Extend-C18
773450-902
4.6 x 150 mm, 5 µm

Mobile Phase: 20% Methanol
80% 0.1 M Carbonate buffer, pH 10.0

Flow Rate: 1.0 mL/min

Temperature: Ambient

At high pH, columns will fail due to silica dissolution. The example here shows extended lifetime of ZORBAX Extend-C18 at high pH in comparison to competitor W. This was measured by the amount of dissolved silica.





Agilent ZORBAX 80Å Extend-C18 (cont.)

DESCRIPTION	SIZE (mm)	PARTICLE SIZE (µm)	Extend-C18 (USP L1)
STANDARD COLUMNS (NO SPECIAL HARDWARE REQUIRED)			
Analytical	4.6 x 250	5	770450-902
Analytical	4.6 x 150	5	773450-902
Analytical	4.6 x 50	5	746450-902
Rapid Resolution	4.6 x 150	3.5	763953-902
Rapid Resolution	4.6 x 100	3.5	764953-902
Rapid Resolution	4.6 x 75	3.5	766953-902
Rapid Resolution	4.6 x 50	3.5	735953-902
Rapid Resolution HT, 600 bar	4.6 x 100	1.8	728975-902
Rapid Resolution HT, 600 bar	4.6 x 50	1.8	727975-902
Rapid Resolution HT, 600 bar	4.6 x 30	1.8	724975-902
Rapid Resolution HT, 600 bar	4.6 x 20	1.8	726975-902
Guard Cartridge, 4/pk	4.6 x 12.5	5	820950-930
Guard Hardware Kit			820999-901
Solvent Saver	3.0 x 250	5	770450-302
Solvent Saver	3.0 x 150	5	773450-302
Solvent Saver Plus	3.0 x 150	3.5	763954-302
Solvent Saver Plus	3.0 x 100	3.5	764953-302
Solvent Saver Plus	3.0 x 50	3.5	735954-302
Solvent Saver RRHD, 1200 bar	3.0 x 150	1.8	759700-302
Solvent Saver RRHD, 1200 bar	3.0 x 100	1.8	758700-302
Solvent Saver RRHD, 1200 bar	3.0 x 50	1.8	757700-302
Solvent Saver HT, 600 bar	3.0 x 100	1.8	728975-302
Solvent Saver HT, 600 bar	3.0 x 50	1.8	727975-302
Solvent Saver HT, 600 bar	3.0 x 30	1.8	724975-302
Solvent Saver HT, 600 bar	3.0 x 20	1.8	726975-302
Guard Cartridge, 4/pk	4.6 x 12.5	5	820950-930
Guard Hardware Kit			820999-901
Narrow Bore	2.1 x 150	5	773700-902
Narrow Bore	2.1 x 50	5	760450-902
Narrow Bore RR	2.1 x 100	3.5	761753-902
Narrow Bore RR	2.1 x 50	3.5	735700-902
Narrow Bore RRHD, 1200 bar	2.1 x 150	1.8	759700-902
Narrow Bore RRHD, 1200 bar	2.1 x 100	1.8	758700-902
Narrow Bore RRHD, 1200 bar	2.1 x 50	1.8	757700-902
Narrow Bore RRHT, 600 bar	2.1 x 100	1.8	728700-902
Narrow Bore RRHT, 600 bar	2.1 x 50	1.8	727700-902
Narrow Bore RRHT, 600 bar	2.1 x 30	1.8	724700-902
Narrow Bore RRHT, 600 bar	2.1 x 20	1.8	726700-902
Guard Cartridge, 4/pk	2.1 x 12.5	5	821125-930
Guard Hardware Kit			820999-901
MicroBore RR	1.0 x 150	3.5	763600-902
MicroBore RR	1.0 x 50	3.5	765600-902
MicroBore RR	1.0 x 30	3.5	761600-902
MicroBore Guard, 3/pk	1.0 x 17	5	5185-5923
Guard Hardware Kit			820999-901

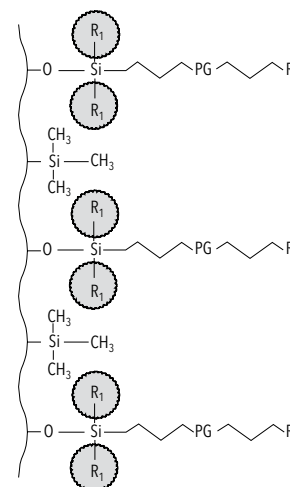
Unless indicated, column pressure limit is 400 bar

DESCRIPTION	SIZE (mm)	PARTICLE SIZE (µm)	Extend-C18 (USP L1)
PREPHT CARTRIDGE COLUMNS (REQUIRE ENDFITTINGS KIT 820400-901)			
PrepHT Cartridge	21.2 x 150	5	770150-902
PrepHT	21.2 x 100	5	770100-902
PrepHT	21.2 x 50	5	770050-902
PrepHT Endfittings, 2/pk			820400-901
PrepHT Guard Cartridge, 2/pk	17.0 x 7.5	5	820212-930
Guard Cartridge Hardware			820444-901

Agilent ZORBAX Bonus-RP

- Excellent peak shape for challenging basic compounds at low and mid pH
- Unique reversed-phase selectivity
- Novel bonding technology with embedded polar group and steric protection
- Usable in 100% aqueous mobile phases

The Agilent ZORBAX Bonus-RP column has a polar amide group embedded in a long alkyl chain. This novel bonding reduces interactions between basic compounds and the silica support, improving peak shape for the most difficult basic compounds. Peak shape and column lifetime are further improved by triple endcapping. In addition, diisopropyl side groups provide steric protection against acid hydrolysis for good lifetime at low pH. The Bonus-RP column provides an alternate selectivity to C18 and C8 alkyl bonded phases.



Unique, Polar Alkyl Bonus-RP Bonded Phase

AGILENT ZORBAX BONUS-RP COLUMN SPECIFICATIONS

BONDED PHASE	PORE SIZE	SURFACE AREA	pH RANGE	ENDCAPPED	TEMP LIMITS*	CARBON LOAD
ZORBAX Bonus-RP	80Å	180 m ² /g	2.0 – 9.0	Triple	60 °C	9.5%

Specifications represent typical values only

*Temperature limits are 60 °C up to pH 8, 40 °C from pH 8 – 9.

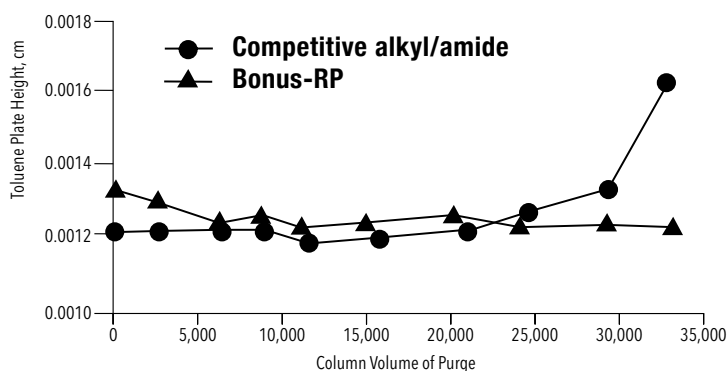
ZORBAX Bonus-RP is stable at low and mid pH

Column: ZORBAX Bonus-RP
883668-901
4.6 x 150 mm, 5 µm

Mobile Phase: 60% 25 mM
Phosphate Buffer,
pH 7.0:40% ACN

Flow Rate: 1.5 mL/min
Temperature: 23 °C

Triple endcapping of Bonus-RP enhances stability at pH 7. Each 10,000 column volume is equivalent to approximately one working month.



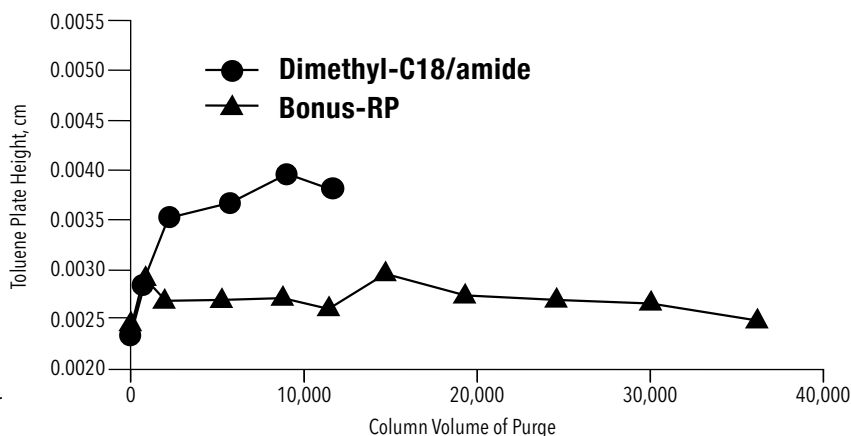
Dimethyl-C18/amide, Bonus-RP

Column: ZORBAX Bonus-RP
883668-901
4.6 x 150 mm, 5 µm

Mobile Phase: Aging:
50% MeOH
50% 0.1% TFA
Test:
80% MeOH
20% H₂O

Flow Rate: 1.0 mL/min
Temperature: Aging:
60 °C
Test:
23 °C

Sterically protecting side groups provides low pH stability and longer column lifetime than similar polar alkyl bonded phases.





Agilent ZORBAX Bonus-RP (cont.)

DESCRIPTION	SIZE (mm)	PARTICLE SIZE (µm)	Bonus-RP (USP L60)
STANDARD COLUMNS (NO SPECIAL HARDWARE REQUIRED)			
Analytical	4.6 x 250	5	880668-901
Analytical	4.6 x 150	5	883668-901
Rapid Resolution	4.6 x 250	3.5	884950-577
Rapid Resolution	4.6 x 150	3.5	863668-901
Rapid Resolution	4.6 x 100	3.5	864668-901
Rapid Resolution	4.6 x 75	3.5	866668-901
Rapid Resolution	4.6 x 50	3.5	835668-901
Rapid Resolution HT, 600 bar	4.6 x 100	1.8	828668-901
Rapid Resolution HT, 600 bar	4.6 x 75	1.8	830668-901
Rapid Resolution HT, 600 bar	4.6 x 50	1.8	827668-901
Guard Cartridge, 4/pk	4.6 x 12.5	5	820950-928
Guard Hardware Kit			820999-901
Solvent Saver	3.0 x 250	5	880668-301
Solvent Saver	3.0 x 150	5	883668-301
Solvent Saver Plus	3.0 x 150	3.5	863668-301
Solvent Saver Plus	3.0 x 100	3.5	864668-301
Solvent Saver HT, 600 bar	3.0 x 100	1.8	828668-301
Solvent Saver HT, 600 bar	3.0 x 50	1.8	827668-301
Guard Cartridge, 4/pk	4.6 x 12.5	5	820950-928
Guard Hardware Kit			820999-901
Narrow Bore	2.1 x 150	5	883725-901
Narrow Bore	2.1 x 50	5	861971-901
Narrow Bore RR	2.1 x 120	3.5	863700-901
Narrow Bore RR	2.1 x 100	3.5	861768-901
Narrow Bore RR	2.1 x 50	3.5	861700-901
Rapid Resolution HD, 1200 bar	2.1 x 150	1.8	859768-901
Rapid Resolution HD, 1200 bar	2.1 x 100	1.8	858768-901
Rapid Resolution HD, 1200 bar	2.1 x 50	1.8	857768-901
Narrow Bore RRHT, 600 bar	2.1 x 100	1.8	828768-901
Narrow Bore RRHT, 600 bar	2.1 x 50	1.8	827768-901
Guard Cartridge, 4/pk	2.1 x 12.5	5	821125-928
Guard Hardware Kit			820999-901
MicroBore RR	1.0 x 150	3.5	863608-901
MicroBore RR	1.0 x 50	3.5	865608-901
MicroBore RR	1.0 x 30	3.5	861608-901
MicroBore Guard, 3/pk	1.0 x 17	5	5185-5922
Guard Hardware Kit			820999-901
PREPHT CARTRIDGE COLUMNS (REQUIRE ENDFITTINGS KIT 820400-901)			
PrepHT Cartridge	21.2 x 250	7	878250-101
PrepHT Cartridge	21.2 x 150	7	878150-101
PrepHT Cartridge	21.2 x 150	5	868150-901
PrepHT Cartridge	21.2 x 100	5	868100-901
PrepHT Cartridge	21.2 x 50	5	868050-901
PrepHT Endfittings, 2/pk			820400-901
PrepHT Guard Cartridge, 2/pk	17.0 x 7.5	5	820212-928
Guard Cartridge Hardware			820444-901

Unless indicated, column pressure limit is 400 bar

Improved peak shape of basic compounds using Bonus-RP

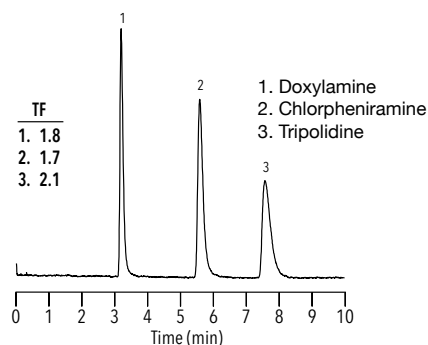
Column: Alkyl-C8
4.6 x 150 mm, 5 µm

Mobile Phase: 75% 25 mM NH₄OAc, pH 5.5

Flow Rate: 1.5 mL/min

Temperature: 40 °C

Detector: 254 nm



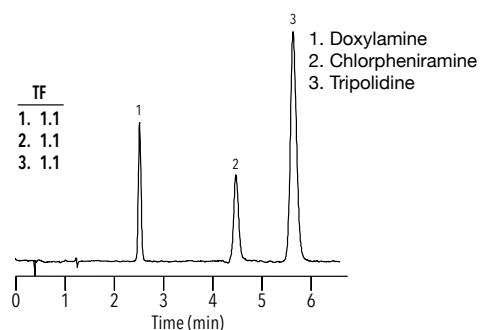
Column: ZORBAX Bonus-RP
883668-901
4.6 x 150 mm, 5 µm

Mobile Phase: 80% 25 mM NH₄OAc, pH 5.5
20% ACN

Flow Rate: 1.5 mL/min

Temperature: 40 °C

Detector: 254 nm



Bonus-RP eliminates peak tailing of these basic compounds in comparison to a typical alkyl C8 bonded phase. In the mid pH region, residual silanols can interact more strongly with basic compounds to cause peak tailing. The polar group in the Bonus-RP bonded phase eliminates peak tailing of these basic compounds by reducing interactions with residual silanols.

Agilent ZORBAX Eclipse PAH

DESCRIPTION	SIZE (mm)	PARTICLE SIZE (µm)	Eclipse PAH (USP L1)
Analytical	4.6 x 250	5	959990-918
Analytical	4.6 x 150	5	959993-918
Analytical	4.6 x 100	5	959996-918
Rapid Resolution	4.6 x 150	3.5	959963-918
Rapid Resolution	4.6 x 100	3.5	959961-918
Rapid Resolution	4.6 x 50	3.5	959943-918
Rapid Resolution HT, 600 bar	4.6 x 100	1.8	959964-918
Rapid Resolution HT, 600 bar	4.6 x 50	1.8	959941-918
Rapid Resolution HT, 600 bar	4.6 x 30	1.8	959931-918
Solvent Saver	3.0 x 250	5	959990-318
Guard Cartridges, 4/pk	4.6 x 12.5	5	820950-939
Guard Hardware Kit			820999-901
Narrow Bore	2.1 x 250	5	959790-918
Narrow Bore	2.1 x 150	5	959701-918
Narrow Bore RR	2.1 x 100	3.5	959793-918
Narrow Bore RRHT, 600 bar	2.1 x 100	1.8	959764-918
Narrow Bore RRHT, 600 bar	2.1 x 50	1.8	959741-918
Guard Cartridges, 4/pk	2.1 x 12.5	5	821125-939
Guard Hardware Kit			820999-901



ZORBAX Eclipse PAH Columns

- Extensive range of particle sizes (1.8, 3.5 and 5 µm) and sizes for fast and high resolution separations
- Each batch of material is specifically tested with PAHs for maximum reproducibility under expected operating conditions
- Excellent performance using the high quality, improved silica of Eclipse Plus columns
- Great for applications requiring "shape selectivity" or the separation of geometric isomers

ZORBAX ECLIPSE PAH COLUMN SPECIFICATIONS

PORE SIZE	SURFACE AREA	pH RANGE	END-CAPPED	TEMP LIMIT
95Å	160 m ² /g	2.0 – 8.0	No	60 °C

Specifications represent typical values only.

Agilent ZORBAX HILIC Plus

DESCRIPTION	SIZE (mm)	PARTICLE SIZE (µm)	ZORBAX HILIC Plus
Analytical	4.6 x 100	3.5	959961-901
Analytical	4.6 x 50	3.5	959943-901
Narrow Bore	2.1 x 100	3.5	959793-901
Narrow Bore	2.1 x 50	3.5	959743-901
Rapid Resolution HD, 1200 bar	3.0 x 100	1.8	959758-301
Rapid Resolution HD, 1200 bar	3.0 x 50	1.8	959757-301
Rapid Resolution HD, 1200 bar	2.1 x 150	1.8	959759-901
Rapid Resolution HD, 1200 bar	2.1 x 100	1.8	959758-901
Rapid Resolution HD, 1200 bar	2.1 x 50	1.8	959757-901

ZORBAX HILIC PLUS COLUMN SPECIFICATIONS

BONDED PHASE	PORE SIZE	SURFACE AREA	pH RANGE
ZORBAX HILIC Plus	95Å	160 m ² /g	0.0 – 8.0

Specifications represent typical values only.

Agilent ZORBAX NH2

DESCRIPTION	SIZE (mm)	PARTICLE SIZE (µm)	ZORBAX NH2
Analytical	4.6 x 250	5	880952-708
Analytical	4.6 x 150	5	883952-708
Analytical	2.1 x 50	5	860700-708
Guard Cartridges, 4/pk	4.6 x 12.5	5	820950-908
Guard Hardware Kit			820999-901

ZORBAX NH2 COLUMN SPECIFICATIONS

BONDED PHASE	PORE SIZE	SURFACE AREA	pH RANGE	END CAPPED
ZORBAX NH2	70Å	300 m ² /g	2.0 – 7.0	Yes

Specifications represent typical values only.

Agilent ZORBAX Rx

AGILENT ZORBAX RX COLUMN SPECIFICATIONS						
BONDED PHASE	PORE SIZE	SURFACE AREA	pH RANGE*	ENDCAPPED	TEMP LIMIT	CARBON LOAD
ZORBAX Rx-C18	80Å	160 m ² /g	2.0 – 8.0	No	60 °C	12%
ZORBAX Rx-C8	80Å	160 m ² /g	1.0 – 8.0	No	80 °C	5.5%

Specifications represent typical values only.

*At pH 6 – 9 highest column stability for all silica based columns is obtained by operating at temperatures < 40 °C and using lower buffer concentrations in the range of 0.01 – 0.02 M.

DESCRIPTION	SIZE (mm)	PARTICLE SIZE (µm)	Rx-C18 (USP L1)	Rx-C8* (USP L7)
Analytical	4.6 x 250	5	880967-902	880967-901
Analytical	4.6 x 150	5	883967-902	883967-901
Rapid Resolution	4.6 x 150	3.5	863967-902	—
Rapid Resolution	4.6 x 100	3.5	861967-902	—
Rapid Resolution	4.6 x 75	3.5	866967-902	—
Narrow Bore	2.1 x 150	5	883700-902	—
Narrow Bore RR	2.1 x 100	3.5	861767-902	—
Guard Cartridge, 4/pk	4.6 x 12.5	5	820950-914	820950-913
Guard Cartridge, 4/pk	2.1 x 12.5	5	821125-915	821125-915
High Performance ZORBAX Guard Fittings Kit			820999-901	820999-901

*Rx-C8 is the same product as SB-C8. For other sizes and configurations, see ZORBAX StableBond (8)

- ➔ Recommended for alternate selectivity at low pH relative to Eclipse Plus C18, Eclipse XDB-C18 and StableBond SB-C18; for higher temperature applications, StableBond is recommended.
- ➔ Higher carbon load than SB-C18 columns (12% vs. 10%)
- ➔ High stability and good peak shape for low pH applications (up to pH 8)
- ➔ Manufactured using dimethyloctadecylsilane and non-encapped
- ➔ ZORBAX Rx-C8 is the same product as SB-C8

Agilent Pursuit XRs

SIZE (mm)	PARTICLE SIZE (µm)	PURSUIT XRs C18	PURSUIT XRs C8	PURSUIT XRs DIPHENYL
4.6 x 150	5	A6000150X046	A6010150X046	A6020150X046
4.6 x 100	5	A6000100X046	A6010100X046	A6020100X046
4.6 x 50	5	A6000050X046	—	A6020050X046
4.6 x 150	3	A6001150X046	A6010150X046	A6021150X046
4.6 x 100	3	A6001100X046	A6011100X046	A6021100X046
4.6 x 50	3	A6001050X046	A6011050X046	A6021050X046
4.6 x 30	3	A6001030X046	—	A6021030X046
3.0 x 150	5	A6000150X030	A6010150X030	A6020150X030
3.0 x 100	5	A6000100X030	A6010100X030	A6020100X030
3.0 x 150	3	A6001150X030	A6011150X030	A6021150X030
3.0 x 100	3	A6001100X030	A6011100X030	A6021100X030
3.0 x 50	3	A6001050X030	A6011050X030	A6021050X030
2.0 x 150	5	A6000150X020	A6010150X020	A6020150X020
2.0 x 100	5	A6000100X020	A6010100X020	—
2.0 x 50	5	A6000050X020	A6010050X020	A6020050X020
2.0 x 250	3	A6001250X020	—	A6021250X020
2.0 x 150	3	A6001150X020	A6011150X020	A6021150X020
2.0 x 100	3	A6001100X020	A6011100X020	A6021100X020
2.0 x 50	3	A6001050X020	A6011050X020	A6021050X020
2.0 x 30	3	—	—	A6021030X020
2.0 x 20	3	A6001020X020	—	—
1.0 x 150	3	A6001150X010	—	—
1.0 x 100	3	A6001100X010	—	A6021100X010

AGILENT PURSUIT XRS COLUMN SPECIFICATIONS					
BONDED PHASE	USP METHOD	PORE SIZE	pH RANGE	END-CAPPED	CARBON LOAD
Pursuit XRs C18	L1	100Å	1.5-10	Yes	22%
Pursuit XRs C8	L7	100Å	1.5-10	Yes	15%
Pursuit XRs Diphenyl	L11	100Å	1.5-8.0	Yes	14.6%
Pursuit XRs Ultra C18	—	100Å	1.5-10	Yes	23.2%
Pursuit XRs Ultra C8	—	100Å	1.5-10	Yes	15%
Pursuit XRs Ultra Diphenyl	—	100Å	1.5-8.0	Yes	14.6%

SIZE (mm)	PARTICLE SIZE (µm)	PURSUIT XRs ULTRA C18	PURSUIT XRs ULTRA C8	PURSUIT XRs ULTRA DIPHENYL
3.0 x 150	2.8	A7501150X030	A7511150X030	—
3.0 x 100	2.8	A7501100X030	—	—
2.0 x 150	2.8	A7501150X020	—	—
2.0 x 100	2.8	A7501100X020	A7511100X020	A7521100X020
2.0 x 50	2.8	A7501050X020	A7511050X020	A7521050X020
2.0 x 30	2.8	A7501030X020	A7511030X020	A7521030X020

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