



**Your alternative to
Agilent
UHPLC and HPLC columns**

The versatile and powerful VDSpher® phases allow for numerous applications in normal and reversed phase as well as HILIC chromatography. Our wide range of phases offers excellent alternatives to Zorbax, Polaris, Pursuit, TC-C18(2) and HC-C18(2). Our recommendations are listed in the following tables. If you don't find the required phase on this list, please contact us to find a similar or alternative product from the wide range of VDSpher® phases.

Contents

1. Alternatives to Zorbax StableBond SB	page 2
2. Alternatives to Zorbax Eclipse XDB	page 3
3. Alternatives to Zorbax Eclipse Plus	page 4
4. Alternatives to Zorbax 300	page 4
5. Alternatives to other Zorbax phases	page 5 / page 6
6. Alternatives to Polaris	page 6
7. Alternatives to Pursuit	page 7 / page 8
8. Alternatives to TC-C18(2) and HC-C18(2)	page 8

1. Alternatives to Zorbax StableBond SB

Agilent	VDSpher®	
Zorbax StableBond SB	replacement recommendation	comments
Zorbax StableBond SB-C18, 1.8µm	U-VDSpher® PUR 100 C18-M-SE, 1.8µm	endcapped higher surface area and higher carbon load → longer retention expected
Zorbax StableBond SB-C18, 3.5µm	VDSpher® PUR 100 C18-M, 3.5µm	higher surface area and higher carbon load → longer retention expected
Zorbax StableBond SB-C18, 5µm	VDSpher® PUR 100 C18-M, 5µm	higher surface area and higher carbon load → longer retention expected
Zorbax StableBond SB-C18, 7µm	VDSpher® PUR 100 C18-E, 7µm	endcapped higher surface area and higher carbon load → longer retention expected
Zorbax StableBond SB-C8, 1.8µm	U-VDSpher® PUR 100 C8-E, 1.8µm	endcapped higher surface area and higher carbon load → longer retention expected
Zorbax StableBond SB-C8, 3.5µm	VDSpher® PUR 100 C8-E, 3.5µm	endcapped higher surface area and higher carbon load → longer retention expected
Zorbax StableBond SB-C8, 5µm	VDSpher® 100 C8-M, 5µm	higher surface area and higher carbon load → longer retention expected
Zorbax StableBond SB-C8, 7µm	VDSpher® PUR 100 C8-E, 7µm	endcapped higher surface area and higher carbon load → longer retention expected
Zorbax StableBond SB-Phenyl, 1.8µm	U-VDSpher® PUR 100 Phenyl-E, 1.8µm	endcapped higher surface area and higher carbon load → longer retention expected
Zorbax StableBond SB-Phenyl, 3.5µm	VDSpher® PUR 100 Phenyl-E, 3.5µm	endcapped higher surface area and higher carbon load → longer retention expected
Zorbax StableBond SB-Phenyl, 5µm	VDSpher® PUR 100 Phenyl-E, 5µm	endcapped higher surface area and higher carbon load → longer retention expected
Zorbax StableBond SB-Phenyl, 7µm	VDSpher® PUR 100 Phenyl-E, 7µm	endcapped higher surface area and higher carbon load → longer retention expected
Zorbax StableBond SB-CN, 1.8µm	U-VDSpher® PUR 100 CN, 1.8µm	endcapped higher surface area and higher carbon load → longer retention expected
Zorbax StableBond SB-CN, 3.5µm	VDSpher® PUR 100 CN, 3.5µm	endcapped higher surface area and higher carbon load → longer retention expected
Zorbax StableBond SB-CN, 5µm	VDSpher® PUR 100 CN, 5µm	endcapped higher surface area and higher carbon load → longer retention expected
Zorbax StableBond SB-CN, 7µm	VDSpher® PUR 100 CN, 7µm	endcapped higher surface area and higher carbon load → longer retention expected

2. Alternatives to Zorbax Eclipse XDB

Agilent	VDSpher®	
Zorbax Eclipse XDB	replacement recommendation	comments
Zorbax Eclipse XDB-C18, 1.8µm	U-VDSpher® PUR 100 C18-M-SE, 1.8µm	higher surface area and higher carbon load → longer retention expected
Zorbax Eclipse XDB-C18, 3.5µm	VDSpher® PUR 100 C18-SE, 3.5µm	higher surface area and higher carbon load → longer retention expected
Zorbax Eclipse XDB-C18, 5µm	VDSpher® PUR 100 C18-SE, 5µm	higher surface area and higher carbon load → longer retention expected
Zorbax Eclipse XDB-C18, 7µm	VDSpher® PUR 100 C18-E, 7µm	use only in range of pH = 2 to 7.5 higher surface area and higher carbon load → longer retention expected
Zorbax Eclipse XDB-C8, 1.8µm	U-VDSpher® PUR 100 C8-E, 1.8µm	higher surface area and higher carbon load → longer retention expected
Zorbax Eclipse XDB-C8, 3.5µm	VDSpher® PUR 100 C8-SE, 3.5µm	higher surface area and higher carbon load → longer retention expected
Zorbax Eclipse XDB-C8, 5µm	VDSpher® PUR 100 C18-SE, 5µm	higher surface area and higher carbon load → longer retention expected
Zorbax Eclipse XDB-C8, 7µm	VDSpher® PUR 100 C8-E, 7µm	use only in range of pH = 2 to 7.5 higher surface area and higher carbon load → longer retention expected
Zorbax Eclipse XDB-Phenyl, 1.8µm	U-VDSpher® PUR 100 Phenyl-E, 1.8µm	use only in range of pH = 2 to 7.5 higher surface area and higher carbon load → longer retention expected
Zorbax Eclipse XDB-Phenyl, 3.5µm	VDSpher® PUR 100 Phenyl-E, 3.5µm	use only in range of pH = 2 to 7.5 higher surface area and higher carbon load → longer retention expected
Zorbax Eclipse XDB-Phenyl, 5µm	VDSpher® PUR 100 Phenyl-SE, 5µm	higher surface area and higher carbon load → longer retention expected
Zorbax Eclipse XDB-Phenyl, 7µm	VDSpher® PUR 100 Phenyl-E, 7µm	use only in range of pH = 2 to 7.5 higher surface area and higher carbon load → longer retention expected
Zorbax Eclipse XDB-CN, 1.8µm	U-VDSpher® PUR 100 CN, 1.8µm	higher surface area and higher carbon load → longer retention expected
Zorbax Eclipse XDB-CN, 3.5µm	VDSpher® PUR 100 CN, 3.5µm	higher surface area and higher carbon load → longer retention expected
Zorbax Eclipse XDB-CN, 5µm	VDSpher® PUR 150 CN-SE, 5µm	
Zorbax Eclipse XDB-CN, 7µm	VDSpher® PUR 100 CN, 7µm	higher surface area and higher carbon load → longer retention expected

3. Alternatives to Zorbax Eclipse Plus

Agilent	VDSpher®	
Zorbax Eclipse Plus	replacement recommendation	comments
Zorbax Eclipse Plus C18, 1.8µm	U-VDSpher® PUR 100 C18-E, 1.8µm	use only in range of pH = 2 to 7.5 higher surface area and higher carbon load → longer retention expected
Zorbax Eclipse Plus C18, 3.5µm	VDSpher® PUR 100 C18-SE, 3.5µm	higher surface area and higher carbon load → longer retention expected
Zorbax Eclipse Plus C18, 5µm	VDSpher® PUR 100 C18-SE, 5µm	higher surface area and higher carbon load → longer retention expected
Zorbax Eclipse Plus C8, 1.8µm	U-VDSpher® PUR 100 C8-E, 1.8µm	use only in range of pH = 2 to 7.5 higher surface area and higher carbon load → longer retention expected
Zorbax Eclipse Plus C8, 3.5µm	VDSpher® PUR 100 C8-SE, 3.5µm	higher surface area and higher carbon load → longer retention expected
Zorbax Eclipse Plus C8, 5µm	VDSpher® PUR 100 C8-SE, 5µm	higher surface area and higher carbon load → longer retention expected
Zorbax Eclipse Plus Phenyl-Hexyl, 1.8µm	U-VDSpher® PUR 100 Phenyl-B, 1.8µm	use only in range of pH = 2 to 7.5 higher surface area and higher carbon load → longer retention expected
Zorbax Eclipse Plus Phenyl-Hexyl, 3.5µm	VDSpher® PUR 100 Phenyl-B, 3.5µm	use only in range of pH = 2 to 7.5 higher surface area and higher carbon load → longer retention expected
Zorbax Eclipse Plus Phenyl-Hexyl, 5µm	VDSpher® PUR 100 Phenyl-B, 5µm	use only in range of pH = 2 to 7.5 higher surface area and higher carbon load → longer retention expected

4. Alternatives to Zorbax 300

Agilent	VDSpher®	
Zorbax 300	replacement recommendation	comments
Zorbax 300SB-C18, 5µm	VDSpher® OptiBio 300 C18-V, 5µm	higher surface area and higher carbon load → longer retention expected
Zorbax 300SB-C8, 5µm	VDSpher® OptiBio 300 C8-V, 5µm	higher surface area and higher carbon load → longer retention expected
Zorbax 300Extend-C18, 5µm	VDSpher® OptiBio 300 C18-TSE, 5µm	use only in range of pH = 2 to 10 higher surface area and higher carbon load → longer retention expected

5. Alternatives to other Zorbax phases

Agilent	VDSpher®	
Zorbax	replacement recommendation	comments
Zorbax Extend-C18, 1.8µm	U-VDSpher® PUR 100 C18-M-SE, 1.8µm	use only in range of pH = 2 to 10 higher surface area and higher carbon load → longer retention expected
Zorbax Extend-C18, 3.5µm	VDSpher® PUR 100 C18-M-SE, 3.5µm	use only in range of pH = 2 to 10 higher surface area and higher carbon load → longer retention expected
Zorbax Extend-C18, 5µm	VDSpher® PUR 100 C18-M-SE, 5µm	use only in range of pH = 2 to 10 higher surface area and higher carbon load → longer retention expected
Zorbax HILIC Plus, 1.8µm	U-VDSpher® PUR 100 SIL, 1.8µm	equilibration with RP solvents required, higher surface area → longer retention expected
Zorbax HILIC Plus, 3.5µm	VDSpher® PUR 100 SIL, 3.5µm	equilibration with RP solvents required, higher surface area → longer retention expected
Zorbax Rx-C18, 3.5µm	VDSpher® PUR 100 C18-M, 3.5µm	higher surface area and higher carbon load → longer retention expected
Zorbax Rx-C18, 5µm	VDSpher® PUR 100 C18-M, 5µm	higher surface area and higher carbon load → longer retention expected
Zorbax Rx-C18, 7µm	VDSpher® PUR 100 C18-E, 7µm	endcapped higher surface area and higher carbon load → longer retention expected
Zorbax Rx-C8, 3.5µm	VDSpher® PUR 100 C8-E, 3.5µm	endcapped higher surface area and higher carbon load → longer retention expected
Zorbax Rx-C8, 5µm	VDSpher® 100 C8-M, 5µm	higher surface area and higher carbon load → longer retention expected
Zorbax Rx-C8, 7µm	VDSpher® PUR 100 C8-E, 7µm	endcapped higher surface area and higher carbon load → longer retention expected
Zorbax Rx-SIL, 1.8µm	U-VDSpher® PUR 100 SIL, 1.8µm	higher surface area → longer retention expected
Zorbax Rx-SIL, 5µm	VDSpher® PUR 150 SIL, 5µm	
Zorbax Rx-SIL, 7µm	VDSpher® PUR 100 SIL, 7µm	higher surface area → longer retention expected
Zorbax ODS, 5µm	VDSpher® PUR 100 C18-E, 5µm	
Zorbax ODS, 7µm	VDSpher® PUR 100 C18-E, 7µm	
Zorbax C8, 5µm	VDSpher® PUR 100 C8-E, 5µm	

5. Alternatives to other Zorbax phases (continued)

Agilent	VDSpher®	
Zorbax	replacement recommendation	comments
Zorbax C8, 7µm	VDSpher® PUR 100 C8-E, 7µm	
Zorbax Phenyl, 5µm	VDSpher® PUR 100 Phenyl-E, 5µm	
Zorbax NH ₂ , 5µm	VDSpher® PUR 100 NH ₂ , 5µm	not endcapped
Zorbax CN, 5µm	VDSpher® PUR 100 CN, 5µm	
Zorbax CN, 7µm	VDSpher® PUR 100 CN, 7µm	
Zorbax SIL, 5µm	VDSpher® PUR 100 SIL, 5µm	
Zorbax SIL, 7µm	VDSpher® PUR 100 SIL, 7µm	

6. Alternatives to Polaris

Agilent	VDSpher®	
Polaris	replacement recommendation	comments
Polaris C18-A, 3µm	VDSpher® OptiAqua PUR 100 C18, 3µm	
Polaris C18-A, 5µm	VDSpher® OptiAqua PUR 100 C18, 5µm	
Polaris C18-A, 10µm	VDSpher® OptiAqua PUR 100 C18, 10µm	
Polaris C8-A, 3µm	VDSpher® PUR 100 C8-H, 3µm	
Polaris C8-A, 5µm	VDSpher® OptiAqua PUR 100 C8, 5µm	
Polaris Si-A, 5µm	VDSpher® PUR 150 SIL, 5µm	
Polaris Si-A, 10µm	VDSpher® PUR 100 SIL, 10µm	higher surface area → longer retention expected

7. Alternatives to Pursuit

Agilent	VDSpher®	
Pursuit	replacement recommendation	comments
Pursuit C18, 3µm	VDSpher® PUR 100 C18-E, 3µm	use only in range of pH = 2 to 7.5 higher surface area and higher carbon load → longer retention expected
Pursuit C18, 5µm	VDSpher® 150 C18-E, 5µm	use only in range of pH = 2 to 7.5
Pursuit C18, 10µm	VDSpher® PUR 100 C18-E, 10µm	use only in range of pH = 2 to 7.5 higher surface area and higher carbon load → longer retention expected
Pursuit C8, 3µm	VDSpher® PUR 100 C8-E, 3µm	use only in range of pH = 2 to 7.5 higher surface area and higher carbon load → longer retention expected
Pursuit C8, 5µm	VDSpher® 150 C8-E, 5µm	use only in range of pH = 2 to 7.5
Pursuit C8, 10µm	VDSpher® PUR 100 C8-E, 10µm	use only in range of pH = 2 to 7.5 higher surface area and higher carbon load → longer retention expected
Pursuit XRs C18, 3µm	VDSpher® PUR 100 C18-SE, 3µm	use only in range of pH = 2 to 9
Pursuit XRs C18, 5µm	VDSpher® PUR 100 C18-SE, 5µm	use only in range of pH = 2 to 9
Pursuit XRs C18, 10µm	VDSpher® PUR 100 C18-SE, 10µm	use only in range of pH = 2 to 9
Pursuit XRs C8, 3µm	VDSpher® PUR 100 C8-SE, 3µm	use only in range of pH = 2 to 9
Pursuit XRs C8, 5µm	VDSpher® PUR 100 C8-SE, 5µm	use only in range of pH = 2 to 9
Pursuit XRs C8, 10µm	VDSpher® PUR 100 C8-SE, 10µm	use only in range of pH = 2 to 9
Pursuit XRs Si, 3µm	VDSpher® PUR 100 SIL, 3µm	lower surface area → shorter retention expected
Pursuit XRs Si, 5µm	VDSpher® 75 SIL, 5µm	
Pursuit XRs Si, 10µm	VDSpher® PUR 100 SIL, 10µm	lower surface area → shorter retention expected
Pursuit XRs Ultra C18, 3µm	VDSpher® PUR 100 C18-M-SE, 3µm	
Pursuit XRs Ultra C18, 5µm	VDSpher® PUR 100 C18-M-SE, 5µm	

7. Alternatives to Pursuit (continued)

Agilent	VDSpher®	
Pursuit	replacement recommendation	comments
Pursuit XRs Ultra C18, 10µm	VDSpher® PUR 100 C18-M-SE, 10µm	
Pursuit XRs Ultra C8, 3µm	VDSpher® PUR 100 C8-M-SE, 3µm	
Pursuit XRs Ultra C8, 5µm	VDSpher® PUR 100 C8-M-SE, 5µm	
Pursuit XRs Ultra C8, 10µm	VDSpher® PUR 100 C8-SE, 10µm	use only in range of pH = 2 to 9

8. Alternatives to TC-C18(2) and HC-C18(2)

Agilent	VDSpher®	
	replacement recommendation	comments
HC-C18(2), 5µm	VDSpher® PUR 100 C18-SE, 5µm	
TC-C18(2), 5µm	VDSpher® OptiAqua PUR 100 C18, 5µm	

VDS optilab Chromatographietechnik GmbH does not warrant that every application can be transferred or applied without changes of chromatographic conditions.

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Manufacturer

VDS optilab Chromatographietechnik GmbH

Wiesenweg 11a

Phone: +49 (0) 30 55 15 39 01

10365 Berlin

Email: info@vdsoutilab.de

Germany

Internet: www.vdsoutilab.de

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