



**Your alternative to
Phenomenex
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 Gemini, Synergi, Luna and Jupiter. 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.

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1. Alternatives to Gemini

Phenomenex	VDSpher®	
Gemini	replacement recommendation	comments
Gemini C18, 3µm	VDSpher® PUR 100 C18-SE, 3µm	use only in range of pH = 2 to 9
Gemini C18, 5µm	VDSpher® PUR 100 C18-SE, 5µm	use only in range of pH = 2 to 9
Gemini C18, 10µm	VDSpher® PUR 100 C18-SE, 10µm	use only in range of pH = 2 to 9
Gemini C6-Phenyl, 3µm	VDSpher® PUR 100 Phenyl-SE, 3µm	use only in range of pH = 2 to 9
Gemini C6-Phenyl, 5µm	VDSpher® PUR 100 Phenyl-SE, 5µm	use only in range of pH = 2 to 9
Gemini NX-C18, 3µm	VDSpher® PUR 100 C18-SE, 3µm	use only in range of pH = 2 to 9
Gemini NX-C18, 5µm	VDSpher® PUR 100 C18-SE, 5µm	use only in range of pH = 2 to 9
Gemini NX-C18, 10µm	VDSpher® PUR 100 C18-SE, 10µm	use only in range of pH = 2 to 9

2. Alternatives to Synergi

Phenomenex	VDSpher®	
Synergi	replacement recommendation	comments
Synergi Fusion-RP, 2.5µm	VDSpher® MS 100 C18-H, 2.5µm	
Synergi Fusion-RP, 4µm	VDSpher® MS 100 C18-H, 4µm	
Synergi Fusion-RP, 10µm	VDSpher® PUR 100 C18-H, 10µm	
Synergi Hydro-RP, 2.5µm	VDSpher® MS 100 C18-LC-H, 2.5µm	
Synergi Hydro -RP, 4µm	VDSpher® MS 100 C18-LC-H, 4µm	
Synergi Hydro -RP, 10µm	VDSpher® OptiAqua PUR 100 C18, 10µm	

3. Alternatives to Luna

Phenomenex	VDSpher®	
Luna	replacement recommendation	comments
Luna C18, 3µm	VDSpher® PUR 100 C18-M-SE, 3µm	
Luna C18, 5µm	VDSpher® PUR 100 C18-M-SE, 5µm	
Luna C18, 10µm	VDSpher® PUR 100 C18-M-SE, 10µm	
Luna C18(2), 2.5µm	VDSpher® MS 100 C18-DE, 2.5µm	
Luna C18(2), 3µm	VDSpher® PUR 100 C18-SE, 3µm	
Luna C18(2), 5µm	VDSpher® PUR 100 C18-SE, 5µm	
Luna C18(2), 10µm	VDSpher® PUR 100 C18-SE, 10µm	
Luna C8, 3µm	VDSpher® PUR 100 C8-M-SE, 3µm	
Luna C8, 5µm	VDSpher® PUR 100 C8-M-SE, 5µm	
Luna C8, 10µm	VDSpher® PUR 100 C8-SE, 10µm	
Luna C8(2), 3µm	VDSpher® PUR 100 C8-SE, 3µm	
Luna C8(2), 5µm	VDSpher® PUR 100 C8-SE, 5µm	
Luna C8(2), 10µm	VDSpher® PUR 100 C8-SE, 10µm	
Luna CN, 5µm	VDSpher® PUR 100 CN, 5µm	
Luna CN, 10µm	VDSpher® 100 CN, 10µm	
Luna HILIC, 3µm	VDSpher® PUR 100 Diol, 3µm	equilibration with RP solvents required
Luna HILIC, 5µm	VDSpher® PUR 100 HILIC-OH, 5µm	

3. Alternatives to Luna (continued)

Phenomenex	VDSpher®	
Luna	replacement recommendation	comments
Luna NH2, 3µm	VDSpher® PUR 100 NH ₂ , 3µm	not endcapped lower surface area and lower carbon load → shorter retention expected
Luna NH2, 5µm	VDSpher® PUR 100 NH ₂ , 5µm	not endcapped lower surface area and lower carbon load → shorter retention expected
Luna NH2, 10µm	VDSpher® 100N H ₂ , 10µm	not endcapped lower surface area and lower carbon load → shorter retention expected
Luna Phenyl-Hexyl, 3µm	VDSpher® PUR 100 Phenyl-B, 3µm	lower surface area and lower carbon load → shorter retention expected
Luna Phenyl-Hexyl, 5µm	VDSpher® PUR 100 Phenyl-B, 5µm	lower surface area and lower carbon load → shorter retention expected
Luna Phenyl-Hexyl, 10µm	VDSpher® 100 Phenyl-E, 10µm	lower surface area and lower carbon load → shorter retention expected
Luna Silica(2), 3µm	VDSpher® PUR 100 SIL, 3µm	
Luna Silica(2), 5µm	VDSpher® PUR 100 SIL, 5µm	
Luna Silica(2), 10µm	VDSpher® PUR 100 SIL, 10µm	
Luna SCX, 5µm	VDSpher® PUR 100 OA-1, 5µm	higher silanol activity
Luna Omega C18, 1.6µm	U-VDSpher® PUR 100 C18-M-SE, 1.8µm	
Luna Omega Polar C18, 1.6µm	U-VDSpher® PUR 100 C18-H, 1.8µm	
Luna Omega Polar C18, 5µm	VDSpher® PUR 100 C18-H, 5µm	
Luna PREP C18(2), 10µm	VDSpher® 100 C18-SE, 10µm	
Luna PREP C18(3), 10µm	VDSpher® 100 C18-E, 10µm	
Luna PREP C4, 10µm	VDSpher® 100 C4-E, 10µm	
Luna PREP C8(2), 10µm	VDSpher® 100 C8-SE, 10µm	

3. Alternatives to Luna (continued)

Phenomenex	VDSpher®	
Luna	replacement recommendation	comments
Luna PREP C8(3), 10µm	VDSpher® 100 C8-E, 10µm	
Luna PREP Phenyl-Hexyl, 10µm	VDSpher® 100 Phenyl-E, 10µm	
Luna PREP Silica(2), 10µm	VDSpher® 100 SIL, 10µm	
Luna PREP Silica(3), 10µm	VDSpher® 100 SIL, 10µm	

4. Alternatives to Jupiter

Phenomenex	VDSpher®	
Jupiter	replacement recommendation	comments
Jupiter C18, 3µm	VDSpher® OptiBio PUR 300 C18-SE, 3µm	lower surface area and lower carbon load → shorter retention expected
Jupiter C18, 5µm	VDSpher® OptiBio PUR 300 C18-PSE, 5µm	lower surface area and lower carbon load → shorter retention expected
Jupiter C18, 10µm	VDSpher® OptiBio PUR 300 C18-E, 10µm	lower surface area and lower carbon load → shorter retention expected
Jupiter C4, 5µm	VDSpher® OptiBio PUR 300 C4-SE, 5µm	lower surface area and lower carbon load → shorter retention expected
Jupiter C4, 10µm	VDSpher® OptiBio PUR 300 C4-SE, 10µm	lower surface area and lower carbon load → shorter retention expected

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

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