



**Your alternative to
Merck
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 LiChrosorb, LiChrospher, Superspher and Purospher. 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 LiChrospher

Merck	VDSpher®	
LiChrospher	replacement recommendation	comments
LiChrospher Si 60, 5µm	VDSpher® 75 SIL, 5µm	lower surface area → shorter retention expected
LiChrospher Si 60, 10µm	VDSpher® 75 SIL, 10µm	lower surface area → shorter retention expected
LiChrospher Si 100, 5µm	VDSpher® 100 SIL, 5µm	lower pore volume lower surface area → shorter retention expected
LiChrospher Si 100, 10µm	VDSpher® 100 SIL, 10µm	lower pore volume lower surface area → shorter retention expected
LiChrospher 100 CN, 5µm	VDSpher® 100 CN, 5µm	endcapped lower pore volume
LiChrospher 100 CN, 10µm	VDSpher® 100 CN, 10µm	endcapped lower pore volume
LiChrospher 100 NH ₂ , 5µm	VDSpher® 100 NH ₂ , 5µm	lower pore volume
LiChrospher 100 NH ₂ , 10µm	VDSpher® 100 NH ₂ , 10µm	lower pore volume
LiChrospher 100 DIOL, 5µm	VDSpher® 100 Diol, 5µm	lower pore volume
LiChrospher 100 DIOL, 10µm	VDSpher® PUR 100 Diol, 10µm	lower pore volume
LiChrospher 100 RP-8, 5µm	VDSpher® PUR 100 C8-NE, 5µm	lower pore volume lower carbon load → shorter retention expected
LiChrospher 100 RP-8, 10µm	VDSpher® 100 C8-E, 10µm	endcapped, lower pore volume lower carbon load → shorter retention expected
LiChrospher 100 RP-8 endcapped, 5µm	VDSpher® 100 C8-E, 5µm	lower pore volume lower carbon load → shorter retention expected
LiChrospher 100 RP-8 endcapped, 10µm	VDSpher® 100 C8-E, 10µm	lower pore volume lower carbon load → shorter retention expected
LiChrospher 100 RP-18, 5µm	VDSpher® 100 C18-NE, 5µm	lower pore volume lower carbon load → shorter retention expected
LiChrospher 100 RP-18, 10µm	VDSpher® 100 C18-NE, 10µm	lower pore volume lower carbon load → shorter retention expected
LiChrospher 100 RP-18 endcapped, 5µm	VDSpher® 100 C18-E, 5µm	lower pore volume lower carbon load → shorter retention expected

1. Alternatives to LiChrospher (continued)

Merck	VDSpher®	
LiChrospher	replacement recommendation	comments
LiChrospher 100 RP-18 endcapped, 10µm	VDSpher® 100 C18-E, 10µm	lower pore volume lower carbon load → shorter retention expected
LiChrospher 60 RP-select B, 5µm	VDSpher® 100 C8-SB, 5µm	
LiChrospher 60 RP-select B, 10µm	VDSpher® 100 C8-SB, 10µm	
LiChrospher WP 300 RP-18, 5µm	VDSpher® OptiBio 300 C18-V, 5µm	

2. Alternatives to Purospher

Merck	VDSpher®	
Purospher	replacement recommendation	comments
Purospher RP-18 endcapped, 5µm	VDSpher® PUR 100 C18-SE, 5µm	lower pore volume lower surface area → shorter retention expected
Purospher RP-18 HC, 5µm	VDSpher® PUR 100 C18-NE, 5µm	lower pore volume lower surface area → shorter retention expected
Purospher STAR RP-18 endcapped, 3µm	VDSpher® PUR 100 C18-M-SE, 3µm	lower pore volume higher carbon load → longer retention expected
Purospher STAR RP-18 endcapped, 5µm	VDSpher® PUR 100 C18-M-SE, 5µm	lower pore volume higher carbon load → longer retention expected
Purospher STAR RP-8 endcapped, 3µm	VDSpher® PUR 100 C8-M-SE, 3µm	lower pore volume
Purospher STAR RP-8 endcapped, 5µm	VDSpher® PUR 100 C8-M-SE, 5µm	lower pore volume
Purospher STAR Si, 5µm	VDSpher® PUR 100 SIL, 5µm	lower pore volume
Purospher STAR NH ₂ , 5µm	VDSpher® PUR 100 NH ₂ , 5µm	lower pore volume

3. Alternatives to LiChrosorb

Merck	VDSpher®	
LiChrosorb	replacement recommendation	comments
LiChrosorb RP-18, 5µm	VDSpher® 100 C18-NE, 5µm	spherical
LiChrosorb RP-18, 10µm	VDSpher® 100 C18-NE, 10µm	spherical
LiChrosorb RP-8, 5µm	VDSpher® PUR 100 C8-NE, 5µm	spherical
LiChrosorb RP-8, 10µm	VDSpher® 100 C8-E, 10µm	spherical endcapped
LiChrosorb Si 60, 5µm	VDSpher® 75 SIL, 5µm	spherical
LiChrosorb Si 100, 10µm	VDSpher® 100 SIL, 10µm	spherical

4. Alternatives to Superspher

Merck	VDSpher®	
Superspher	replacement recommendation	comments
Superspher Si 60, 4µm	VDSpher® PUR 100 SIL, 4µm	lower surface area → shorter retention expected
Superspher 60 RP-8, 4µm	VDSpher® PUR 100 C8-E, 4µm	endcapped, lower pore volume lower carbon load → shorter retention expected
Superspher 60 RP-8 endcapped, 4µm	VDSpher® PUR 100 C8-E, 4µm	lower pore volume lower carbon load → shorter retention expected
Superspher 100 RP-18, 4µm	VDSpher® PUR 100 C18-E, 4µm	endcapped, lower pore volume lower carbon load → shorter retention expected
Superspher 100 RP-18 endcapped, 4µm	VDSpher® PUR 100 C18-E, 4µm	lower pore volume lower carbon load → shorter retention expected
Superspher 60 RP-select B, 4µm	VDSpher® PUR 100 C8-SB, 4µm	

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