

Use a better
column

VDSpher®

Your alternative to Macherey-Nagel 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 NUCLEOSIL and NUCLEODUR. 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 NUCLEOSIL C₁₈, C₁₈ AB and C₁₈ HD

Macherey-Nagel	VDSpher®	
NUCLEOSIL	replacement recommendation	comments
NUCLEOSIL 50-5 C ₁₈ ec	VDSpher® 75 C18-E, 5µm	
NUCLEOSIL 100-3 C ₁₈	VDSpher® PUR 100 C18-E, 3µm	
NUCLEOSIL 100-5 C ₁₈	VDSpher® 100 C18-E, 5µm	
NUCLEOSIL 100-7 C ₁₈	VDSpher® PUR 100 C18-E, 7µm	
NUCLEOSIL 100-10 C ₁₈	VDSpher® 100 C18-E, 10µm	
NUCLEOSIL 120-5 C ₁₈	VDSpher® 150 C18-E, 5µm	
NUCLEOSIL 300-5 C ₁₈	VDSpher® OptiBio 300 C18-E, 5µm	
NUCLEOSIL 100-5 C ₁₈ AB	VDSpher® 100 C18-M-SE, 5µm	
NUCLEOSIL 100-5 C ₁₈ HD	VDSpher® 100 C18-SE, 5µm	

2. Alternatives to NUCLEOSIL C₄ and C₆H₅

Macherey-Nagel	VDSpher®	
NUCLEOSIL	replacement recommendation	comments
NUCLEOSIL 120-5 C ₄	VDSpher® 100 C4-E, 5µm	higher surface area and higher carbon load → longer retention expected
NUCLEOSIL 300-5 C ₄	VDSpher® OptiBio 300 C4-E, 5µm	
NUCLEOSIL 100-5 C ₆ H ₅	VDSpher® 100 Phenyl-E, 5µm	endcapped higher surface area and higher carbon load → longer retention expected

3. Alternatives to NUCLEOSIL C₈

Macherey-Nagel	VDSpher®	
NUCLEOSIL	replacement recommendation	comments
NUCLEOSIL 100-5 C ₈ ec	VDSpher® 100 C8-E, 5µm	
NUCLEOSIL 100-5 C ₈	VDSpher® PUR 100 C8-NE, 5µm	
NUCLEOSIL 100-7 C ₈	VDSpher® PUR 100 C8-E, 7µm	endcapped
NUCLEOSIL 100-10 C ₈	VDSpher® 100 C8-E, 10µm	endcapped
NUCLEOSIL 120-3 C ₈	VDSpher® PUR 100 C8-E, 3µm	endcapped higher surface area and higher carbon load → longer retention expected
NUCLEOSIL 120-5 C ₈	VDSpher® PUR 100 C8-NE, 5µm	higher surface area and higher carbon load → longer retention expected
NUCLEOSIL 300-5 C ₈	VDSpher® OptiBio PUR 300 C8-E, 5µm	endcapped
NUCLEOSIL 100-5 C ₈ HD	VDSpher® 100 C8-SE, 5µm	

4. Alternatives to NUCLEOSIL OH and silica

Macherey-Nagel	VDSpher®	
NUCLEOSIL	replacement recommendation	comments
NUCLEOSIL 100-5 OH	VDSpher® 100 Diol, 5µm	
NUCLEOSIL 50-5	VDSpher® 75 SIL, 5µm	
NUCLEOSIL 100-5	VDSpher® 100 SIL, 5µm	

5. Alternatives to NUCLEOSIL CN and NH₂

Macherey-Nagel	VDSpher [®]	
NUCLEOSIL	replacement recommendation	comments
NUCLEOSIL 100-5 CN	VDSpher [®] 100 CN, 5µm	endcapped
NUCLEOSIL 100-5 CN-RP	VDSpher [®] 100 CN-RP, 5µm	endcapped
NUCLEOSIL 100-10 CN	VDSpher [®] 100 CN, 10µm	endcapped
NUCLEOSIL 100-3 NH ₂	VDSpher [®] PUR 100 NH ₂ , 3µm	
NUCLEOSIL 100-5 NH ₂ -RP	VDSpher [®] 100 NH ₂ , 5µm	equilibration with RP solvents required
NUCLEOSIL 100-5 NH ₂	VDSpher [®] 100 NH ₂ , 5µm	
NUCLEOSIL 100-10 NH ₂	VDSpher [®] 100 NH ₂ , 10µm	

6. Alternatives to NUCLEODUR C₁₈

Macherey-Nagel	VDSpher [®]	
NUCLEODUR	replacement recommendation	comments
NUCLEODUR 100-3 C ₁₈ ec	VDSpher [®] PUR 100 C18-E, 3µm	use only in range of pH = 2 to 7.5
NUCLEODUR 100-5 C ₁₈ ec	VDSpher [®] PUR 100 C18-E, 5µm	use only in range of pH = 2 to 7.5
NUCLEODUR 100-10 C ₁₈ ec	VDSpher [®] PUR 100 C18-E, 10µm	use only in range of pH = 2 to 7.5
NUCLEODUR 300-5 C ₁₈ ec	VDSpher [®] OptiBio PUR 300 C18-E, 5µm	use only in range of pH = 2 to 7.5
NUCLEODUR 100-30 C ₁₈ ec	VDSpher [®] Flash 100 C18-E, 30µm	use only in range of pH = 2 to 7.5
NUCLEODUR 100-50 C ₁₈ ec	VDSpher [®] Flash 100 C18-E, 55µm	use only in range of pH = 2 to 7.5

7. Alternatives to NUCLEODUR C₁₈ Gravity

Macherey-Nagel	VDSpher®	
NUCLEODUR	replacement recommendation	comments
NUCLEODUR C ₁₈ Gravity, 1.8µm	U-VDSpher® PUR 100 C18-E, 1.8µm	use only in range of pH = 2 to 7.5
NUCLEODUR C ₁₈ Gravity, 3µm	VDSpher® PUR 100 C18-SE, 3µm	use only in range of pH = 2 to 9
NUCLEODUR C ₁₈ Gravity, 5µm	VDSpher® PUR 100 C18-SE, 5µm	use only in range of pH = 2 to 9
NUCLEODUR C ₁₈ Gravity, 10µm	VDSpher® PUR 100 C18-SE, 10µm	use only in range of pH = 2 to 9

8. Alternatives to NUCLEODUR C₁₈ Isis

Macherey-Nagel	VDSpher®	
NUCLEODUR	replacement recommendation	comments
NUCLEODUR C ₁₈ Isis, 1.8µm	U-VDSpher® PUR 100 C18-M-SE, 1.8µm	use only in range of pH = 2 to 9
NUCLEODUR C ₁₈ Isis, 3µm	VDSpher® PUR 100 C18-M-SE, 3µm	use only in range of pH = 2 to 9
NUCLEODUR C ₁₈ Isis, 5µm	VDSpher® PUR 100 C18-M-SE, 5µm	use only in range of pH = 2 to 9

9. Alternatives to NUCLEODUR C₁₈ Pyramid

Macherey-Nagel	VDSpher®	
NUCLEODUR	replacement recommendation	comments
NUCLEODUR C ₁₈ Pyramid, 1.8µm	U-VDSpher® PUR 100 C18-H, 1.8µm	use only in range of pH = 2 to 7.5 lower carbon load → shorter retention expected
NUCLEODUR C ₁₈ Pyramid, 3µm	VDSpher® OptiAqua PUR 100 C18, 3µm	use only in range of pH = 2 to 8
NUCLEODUR C ₁₈ Pyramid, 5µm	VDSpher® OptiAqua PUR 100 C18, 5µm	use only in range of pH = 2 to 8

10. Alternatives to NUCLEODUR C₁₈ HTec

Macherey-Nagel	VDSpher [®]	
NUCLEODUR	replacement recommendation	comments
NUCLEODUR C ₁₈ HTec, 1.8µm	U-VDSpher [®] PUR 100 C18-E, 1.8µm	use only in range of pH = 2 to 7.5
NUCLEODUR C ₁₈ HTec, 3µm	VDSpher [®] PUR 100 C18-SE, 3µm	use only in range of pH = 2 to 9
NUCLEODUR C ₁₈ HTec, 5µm	VDSpher [®] PUR 100 C18-SE, 5µm	use only in range of pH = 2 to 9
NUCLEODUR C ₁₈ HTec, 10µm	VDSpher [®] PUR 100 C18-SE, 10µm	use only in range of pH = 2 to 9

11. Alternatives to NUCLEODUR C₈ and C₈ Gravity

Macherey-Nagel	VDSpher [®]	
NUCLEODUR	replacement recommendation	comments
NUCLEODUR 100-3 C ₈ ec	VDSpher [®] PUR 100 C8-E, 3µm	use only in range of pH = 2 to 7.5
NUCLEODUR 100-5 C ₈ ec	VDSpher [®] PUR 100 C8-E, 5µm	use only in range of pH = 2 to 7.5
NUCLEODUR 100-7 C ₈ ec	VDSpher [®] PUR 100 C8-E, 7µm	use only in range of pH = 2 to 7.5
NUCLEODUR 100-10 C ₈ ec	VDSpher [®] PUR 100 C8-E, 10µm	use only in range of pH = 2 to 7.5
NUCLEODUR C ₈ Gravity, 1.8µm	U-VDSpher [®] PUR 100 C8-E, 1.8µm	use only in range of pH = 2 to 7.5
NUCLEODUR C ₈ Gravity, 5µm	VDSpher [®] PUR 100 C8-SE, 5µm	use only in range of pH = 2 to 9
NUCLEODUR C ₈ Gravity, 10µm	VDSpher [®] PUR 100 C8-E, 10µm	use only in range of pH = 2 to 7.5

12. Alternatives to NUCLEODUR C₄ and Phenyl-Hexyl

Macherey-Nagel	VDSpher®	
NUCLEODUR	replacement recommendation	comments
NUCLEODUR 300-5 C ₄ ec	VDSpher® OptiBio PUR 100 C4-E, 5µm	use only in range of pH = 2 to 7.5
NUCLEODUR Phenyl-Hexyl, 3µm	VDSpher® PUR 100 Phenyl-B, 3µm	use only in range of pH = 2 to 7.5
NUCLEODUR Phenyl-Hexyl, 5µm	VDSpher® PUR 100 Phenyl-B, 5µm	use only in range of pH = 2 to 7.5

13. Alternatives to NUCLEODUR HILIC and silica

Macherey-Nagel	VDSpher®	
NUCLEODUR	replacement recommendation	comments
NUCLEODUR HILIC	VDSpher® PUR 100 HILIC-Z, 5µm	
NUCLEODUR 100-3	VDSpher® PUR 100 SIL, 3µm	
NUCLEODUR 100-5	VDSpher® PUR 100 SIL, 5µm	
NUCLEODUR 100-10	VDSpher® PUR 100 SIL, 10µm	
NUCLEODUR 100-30	VDSpher® Flash 100 SIL, 30µm	
NUCLEODUR 100-50	VDSpher® Flash 100 SIL, 55µm	

14. Alternatives to NUCLEODUR CN and NH₂

Macherey-Nagel	VDSpher [®]	
NUCLEODUR	replacement recommendation	comments
NUCLEODUR 100-5 CN-RP	VDSpher [®] PUR 100 CN-RP, 5µm	use only in range of pH = 2 to 8
NUCLEODUR 100-5 CN	VDSpher [®] PUR 100 CN, 5µm	use only in range of pH = 2 to 8
NUCLEODUR 100-3 NH ₂ -RP	VDSpher [®] PUR 100 NH ₂ , 3µm	equilibration with RP solvents required
NUCLEODUR 100-5 NH ₂ -RP	VDSpher [®] PUR 100 NH ₂ , 5µm	equilibration with RP solvents required
NUCLEODUR 100-5 NH ₂	VDSpher [®] PUR 100 NH ₂ , 5µm	

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