

VDS optilab phases and their corresponding USP codes

USP code and description	VDS optilab phases
<p>L1 Octadecyl silane chemically bonded to porous or non-porous silica or ceramic micro-particles, 1.5 to 10 µm in diameter, or a monolithic rod</p>	<p>VDSpher[®] C18-E VDSpher[®] C18-NE VDSpher[®] C18-SE VDSpher[®] C18-M VDSpher[®] C18-M-E VDSpher[®] C18-M-SE VDSpher[®] C18-H VDSpher[®] PUR C18-E VDSpher[®] PUR C18-NE VDSpher[®] PUR C18-SE VDSpher[®] PUR C18-M VDSpher[®] PUR C18-M-E VDSpher[®] PUR C18-M-SE VDSpher[®] PUR C18-H U-VDSpher[®] PUR C18-E U-VDSpher[®] PUR C18-M-SE U-VDSpher[®] PUR C18-H VDSpher[®] OptiAqua C18 VDSpher[®] OptiAqua PUR C18 VDSpher[®] OptiBio C18-E VDSpher[®] OptiBio C18-SE VDSpher[®] OptiBio C18-V VDSpher[®] OptiBio PUR C18-E VDSpher[®] OptiBio PUR C18-SE VDSpher[®] OptiBio PUR C18-V-E VDSpher[®] OptiBio PUR C18-TSE VDSpher[®] OptiBio PUR C18-H VDSpher[®] OptiBio PUR C18-PSE VDSpher[®] MS C18-DE VDSpher[®] MS C18-B VDSpher[®] MS C18-B-DE VDSpher[®] MS C18-H VDSpher[®] MS C18-LC-H</p>
<p>L3 Porous silica particles, 1.5 to 10 µm in diameter, or a monolithic silica rod.</p>	<p>VDSpher[®] SIL VDSpher[®] PUR SIL U-VDSpher[®] PUR SIL</p>
<p>L7 Octylsilane chemically bonded to totally or superficially porous silica particles, 1.5 to 10 µm in diameter, or a monolithic silica rod.</p>	<p>VDSpher[®] C8-E VDSpher[®] C8-SB VDSpher[®] C8-SE VDSpher[®] C8-M VDSpher[®] C8-H VDSpher[®] PUR C8-E VDSpher[®] PUR C8-NE VDSpher[®] PUR C8-SB VDSpher[®] PUR C8-SE VDSpher[®] PUR C8-M-E VDSpher[®] PUR C8-M-SE</p>

<p>L7 (continued) Octylsilane chemically bonded to totally or superficially porous silica particles, 1.5 to 10 µm in diameter, or a monolithic silica rod.</p>	<p>VDSpher[®] PUR C8-H U-VDSpher[®] PUR C8-E VDSpher[®] OptiAqua C8 VDSpher[®] OptiAqua PUR C8 VDSpher[®] OptiBio C8-V VDSpher[®] OptiBio PUR C8-E VDSpher[®] OptiBio PUR C8-SE VDSpher[®] OptiBio PUR C8-V-E VDSpher[®] OptiBio PUR C8-PSE VDSpher[®] MS C8-B-DE</p>
<p>L8 An essentially monomolecular layer of aminopropylsilane chemically bonded to totally porous silica gel support, 1.5 to 10 µm in diameter, or a monolithic silica rod.</p>	<p>VDSpher[®] NH₂ VDSpher[®] PUR NH₂ VDSpher[®] PUR SAC VDSpher[®] PUR HILIC-AM VDSpher[®] PUR HILIC-SAC U-VDSpher[®] PUR NH₂</p>
<p>L10 Nitrile groups chemically bonded to porous silica particles, 1.5 to 10 µm in diameter, or a monolithic silica rod.</p>	<p>VDSpher[®] CN VDSpher[®] CN-RP VDSpher[®] PUR CN VDSpher[®] PUR CN-RP VDSpher[®] PUR CN-SE VDSpher[®] PUR CN-SE-RP U-VDSpher[®] PUR CN U-VDSpher[®] PUR CN-RP VDSpher[®] MS CN-DE VDSpher[®] MS CN-DE-RP</p>
<p>L11 Phenyl groups chemically bonded to porous silica particles, 1.5 to 10 µm in diameter, or a monolithic silica rod.</p>	<p>VDSpher[®] Phenyl-E VDSpher[®] PUR Phenyl-E VDSpher[®] PUR Phenyl-B VDSpher[®] PUR Phenyl-SE U-VDSpher[®] PUR Phenyl-E VDSpher[®] MS Phenyl-DE</p>
<p>L17 Strong cation-exchange resin consisting of sulfonated cross-linked styrenedivinylbenzene copolymer in the hydrogen form, 6 to 12 µm in diameter</p>	<p>Optigel CarbEx II H⁺</p>
<p>L19 Strong cation-exchange resin consisting of sulfonated cross-linked styrenedivinylbenzene copolymer in the calcium form, about 9 µm in diameter</p>	<p>Optigel CarbEx II Ca⁺⁺</p>
<p>L20 Dihydroxypropane groups chemically bonded to porous silica or hybrid particles, 1.5 to 10 µm in diameter, or a monolithic silica rod.</p>	<p>VDSpher[®] Diol VDSpher[®] PUR Diol VDSpher[®] PUR HILIC-OH</p>
<p>L26 Butyl silane chemically bonded to totally porous silica particles, 1.5 to 10 µm in diameter</p>	<p>VDSpher[®] C4-E VDSpher[®] C4-SE VDSpher[®] PUR C4-E VDSpher[®] PUR C4-SE VDSpher[®] OptiAqua PUR C4 VDSpher[®] OptiBio C4-E</p>

<p>L26 (continued) Butyl silane chemically bonded to totally porous silica particles, 1.5 to 10 µm in diameter</p>	<p>VDSpher® OptiBio C4-V VDSpher® OptiBio PUR C4-E VDSpher® OptiBio PUR C4-SE VDSpher® OptiBio PUR C4-V-E VDSpher® OptiBio PUR C4-PSE VDSpher® MS C4-B-DE</p>
<p>L27 Porous silica particles, 30 to 50 µm in diameter</p>	<p>VDSpher® 100 SIL, 30µm</p>
<p>L52 A strong cation exchange resin made of porous silica with sulfopropyl groups, 5 to 10 µm in diameter</p>	<p>VDSpher® PUR OA-1</p>
<p>Unknown For these phases the USP code is not existing or not known</p>	<p>VDSpher® PUR PEI VDSpher® PUR HILIC-Z</p>