Produktinformation

Oktober 2025

LC-Phasenspezifikationen nach USP

L 1	Octadecyl silane chemically bonded to porous silica or ceramic micro-particles, 3 – 10 µm in diameter, or a monolithic rod. **Available Phases: MultoHigh RP18, Multospher RP18, Multospher RP18-HP, Multohyp ODS, Multohyp BDS-C18, MultoHigh-Bio C18, MultoKrom C18, MultoKrom BDS C18, MultoWorb ODS 1, MultoWorb ODS 2, CS-ODS, ProntoSIL 120-C18 ace EPS**
L 2	Octadecyl silane chemically bonded to silica gel of a controlled surface porosity that has been bonded to a solid spherical core, 30 – 50 µm in diameter.
L 3	Porous silica particles, 3 – 10 µm in diameter. **Available Phases: MultoHigh Si, Multospher Si, MultoKrom Si, MultoWorb Si**
L 4	Silica gel of a controlled surface porosity that has been bonded to a solid spherical core, 30 – 50 µm in diameter.
L 5	Alumina of a controlled surface porosity that has been bonded to a solid spherical core, 30 – 50 µm in diameter.
L 6	Strong cation-exchange packing –sulfonated fluorocarbon polymer coated on a solid spherical core, 30 – 50 µm diameter.
L 7	Octyl silane chemically bonded to porous silica or ceramic micro-particles, 3 – 10 µm in diameter. **Available Phases: MultoHigh RP8, Multospher RP8, MultoHigh-Bio-C8, LiChrospher RP8**
L 8	An essentially monomolecular layer of aminopropylsilane chemically bonded to a totally porous silica gel, 3 – 10 µm in diameter. **Available Phases: Multospher APS-HP, MultoWorb NH2, LiChrospher NH2, ProntoSIL Amino**
L 9	10 µm irregular or spherical, totally porous silica gel having a chemically bonded, strongly acidic cation-exchange coating, 3 – 10 µm in diameter. **Available Phases: MultoWorb SCX**
L 10	Nitrile groups bonded to porous silica particles, 3 – 10 µm in diameter. **Available Phases: MultoHigh CN, MultoWorb CN, LiChrospher CN, ProntoSIL CN**
L 11	Phenyl groups chemically bonded to porous silica particles, 3 – 10 µm in diameter. **Available Phases: MultoHigh Phenyl, MultoWorb Phe, ProntoSIL Phenyl**
L 12	A strong anion-exchange packing made by chemically bonding a quaternary amine to a solid silica spherical core, 30 – 50 µm in diameter.
L 13	Trimethylsilane chemically bonded to porous silica particles, 3 – 10 µm in diameter.
L 14	Silica gel having a chemically bonded, strongly basic quaternary ammonium anion-exchange coating, 5 – 10 µm in diameter. **Available Phases: MultoWorb SAX**
L 15	Hexyl silane chemically bonded to totally porous silica particles, 3 – 10 µm in diameter. **Available Phases: MultoWorb C6**
L 16	Dimethylsilane chemically bonded to porous silica particles 5 – 10 µm in diameter.

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L 17	Strong cation-exchange resin consisting of sulfonated cross-linked styrene-divinylbenzene copolymer in the hydrogen form, 7 – 11 µm in diameter. **Available Phases: Organic Acid-Resin, Hamilton PRP-X200, Hamilton PRP-X300**
L 18	Amino and cyano groups chemically bonded to porous silica particles, 3 – 10 µm in diameter.
L 19	Strong cation-exchange resin consisting of sulfonated cross-linked styrene-divinylbenzene copolymer in the calcium form, about 9 µm in diameter. **Available Phases: Carbohydrate Ca^{2+}, Hamilton HC 75 Ca, Hamilton HC 40**
L 20	Dihydroxypropane groups chemically bonded to porous silica particles, 5 – 10 µm in diameter. **Available Phases: MultoHigh DIOL, LiChrospher Diol, ProntoSIL Diol**
L 21	A rigid, spherical styrene-divinylbenzene copolymer, 5 – 10 µm in diameter. **Available Phases: CS-RPC, Hamilton PRP-1**
L 22	A cation-exchange resin made of porous polystyrene gel with sulfonic acid groups about 10 µm in size.
L 23	An anion-exchange resin made of porous polymethacrylate or polyacrylate gel with quaternary ammonium groups , about 10 µm in size.
L 24	A semi-rigid hydrophilic gel consisting of vinyl polymers with numerous hydroxyl groups on the matrix surface, 32 – 60 µm in diameter.
L 25	Packing having the capacity to separate compounds with molecular weight range from 100-5000 (as determined by polyethylene oxide), applied to neutral, anionic, and cationic water-soluble polymers. A polymethacrylate resin base, cross-linked with polyhydroxylated ether (surface contained some residual carboxyl functional groups) was found suitable.
L 26	Butyl silane chemically bonded to totally porous silica particles, 3 – 10 µm in diameter. **Available Phases: MultoKrom C4, MultoHigh-Bio C4**
L 27	Porous silica particles, 30 – 50 µm in diameter.
L 28	A multifunctional support, which consists of a high purity, 100 Å, spherical silica substrate that has been bonded with anionic exchanger, amine functionality in addition to a conventional reversed phase C8 functionality.
L 29	Gamma alumina, reversed phase, low carbon percentage by weight, alumina-based polybutadiene spherical particles, 5 µm in diameter with a pore volume of 80 Å.
L 30	Ethyl silane chemically bonded to totally porous silica particles, 3 – 10 µm in diameter
L 31	A hydroxide-selective strong anion-exchange resin quaternary amine bonded on latex particles attached to a core of 8.5 µm macroporous particles having a pore size of 2000 Å and consisting of ethylvinylbenzene cross-linked with 55 % divinylbenzene.
L 32	A chiral ligand-exchange resin packing-*L*-proline copper complex covalently bonded to irregularly shaped silica particles, 5 – 10 µm in diameter.
L 33	Packing having the capacity to separate dextrans by molecular size over a range of 4.000 – 500.000 daltons. It is spherical, silica-based and processed to provide pH

	stability.
L 34	Strong cation-exchange resin consisting of sulfonated cross-linked styrene-divinylbenzene copolymer in the lead form, about 9 µm in diameter. **Available Phases: Carbohydrate Pb^{2+}, Hamilton HC 75 Pb form**
L 35	A zirconium-stabilized spherical silica packing with a hydrophilic (diol-type) molecular monolayer bonded phase having a pore size of 150 Å.
L 36	A 3,5-dinitrobenzoyl derivative of *L*-phenylglycine covalently bonded to 5 µm aminopropyl silica.
L 37	Packing having the capacity to separate proteins by molecular size over a range of 2.000 to 40.000 daltons. It is a polymethacrylate gel.
L 38	A methacrylate-based size-exclusion packing for water-soluble samples.
L 39	A hydrophilic polyhydroxymethacrylate gel of totally porous spherical resin.
L 40	Cellulose *tris*-3,5-dimethylphenylcarbamate coated porous silica particles, 5 to 20 µm in diameter. **Available Phases: Chiral OM, CHIRALPAK OD**
L 41	Immobilized a1-acid glycoprotein on spherical silica particles, 5 µm in diameter.
L 42	Octyl silane and octadecyl silane groups chemically bonded to porous silica particles, 5 µm in diameter.
L 43	Pentafluorophenyl groups chemically bonded to silica particles by a propyl spacer, 5 to 10 µm in diameter.
L 44	A multifunctional support, which consists of a high purity, 60 A, spherical silica substrate that has been bonded with a cationic exchanger, sulfonic acid functionality in addition to a conventional reversed-phase C8 functionality.
L 45	Beta cyclodextrin bonded to porous silica particles, 5 to 10 µm in diameter.
L 46	Polystyrene-divinylbenzene substrate agglomerated with quaternary amine-functionalised latex beads, about 10 µm in diameter.
L 47	High capacity anion-exchange microporous substrate, fully functionalized with a trimethylamine group, 8 µm in diameter.
L 48	Sulfonated, cross-linked polystyrene with an outer layer of submicron, porous, anion exchange microbeads, 15 µm in diameter.
L 49	A reversed-phase packing made by coating a thin layer of polybutadiene on to spherical porous zirconia particles, 3 to 10 µm in diameter.
L 50	Multifunction resin with reversed-phase retention and strong anion-exchange functionalities. The resin consists of ethylvinylbenzene, 55 % cross-linked with divinylbenzene copolymer, 3 to 15 µm in diameter, and a surface area of not less than 350 m^2/g. Substrate is coated with quaternary ammonium-functionalized latex particles consisting of styrene cross-linked with divinylbenzene.
L 51	Amylose *tris*-3,5-dimethylphenylcarbamate coated, porous, spherical, silica particles, 5 to 10 µm in diameter. **Available Phases: MultoHigh Chiral-AM, CHIRALPAK AD**

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L 52	A strong cation-exchange resin made of porous silica with sulfopropyl group, 5 to 10 µm in diameter.
L 53	Weak cation-exchange resin consisting of ethylvinylbenzene, 55 % cross-linked with divinylbenzene copolymer, 3 to 15 µm diameter. Substrate is surface-grafted with carboxylic acid and /or phosphoric acid functionalized monomers. Capacity not less than 500 µEq/column.
L 54	A size exclusion medium made of covalent bonding of dextran to highly cross-linked porous agarose beads, about 13 µm in diameter.
L 55	A strong cation-exchange resin made of porous silica coated with polybutadiene-maleic acid copolymer, about 5 µm in diameter.
L 56	Propyl silane chemically bonded to totally porous silica particles, 3 to 10 µm in diameter.
L 57	A chiral-recognition protein, ovomucoid, chemically bonded to silica particles, about 5 µm in diameter, with a pore size of 120 angstroms.
L 58	Strong cation-exchange resin consisting of sulfonated cross-linked styrene-divinylbenzene copolymer in the sodium form, about 6 to 30 µm diameter.
L 59	Packing having the capacity to separate proteins by molecular weight over the range of 5 to 7000 kDa. It is spherical (5 – 10 µm), silica-based, and processed to provide hydrophilic characteristics and pH stability.
L 60	Spherical, porous silica gel, 10 µm or less in diameter, the surface of which has been covalently modified with alkyl amide groups and endcapped.
L 61	A hydroxide -selective, strong anion-exchange resin consisting of a highly cross-linked core of 13 µm microporous particles having a pore size less than 10 Angstrom units and consisting of ethylvinylbenzene cross-linked with 55 % divinylbenzene with a latex coating composed of 85 nm diameter microbeads bonded with alkanol quaternary ammonium ions (6 %).
L 62	C30 silane bonded phase on a fully porous spherical silica, 3 to 15 µm in diameter. **Available Phases: MultoHigh RP30**
L 63	Glycopeptide teicoplanin linked through multiple covalent bonds to a 100 A units spherical silica.
L 64	Strongly basic anion exchange resin consisting of 8 % cross-linked styrene-divinylbenzene copolymer with a quaternary ammonium group in the chloride form, 45 to 180 µm in diameter.
L 65	Strongly acidic cation-exchange resin consisting of 8 % sulfonated cross-linked styrene-divinylbenzene copolymer with a sulfonic acid group in the hydrogen form, 63 to 250 µm in diameter.
L 66	A crown ether coated on 5 µm particle size gel substrate. The active site is (*S*)-18-crown-6 ether.
L 67	Porous vinyl alcohol copolymer with a C18 alkyl group attached to the hydroxyl group of the polymer, 2 to 10 µm in diameter.
L 68	Spherical, porous silica, 10 µm or less in diameter, the surface of which has been

	covalently modified with alkyl amide groups and not endcapped.
L 69	Ethylvinylbenzene/divinylbenzene substrate agglomerated with quaternary amine functionalized 130 nm latex beads, about 6.5 µm in diameter.
L 70	Cellulose tris(phenyl carbamate) coated on 5 µm silica.
L 71	A rigid, spherical polymethacrylate, 4 to 6 µm in diameter.
L 72	(*S*)-Phenylglycine and 3,5-dinitroaniline urea linkage covalently bonded to silica.
L 73	A rigid, spherical polydivinylbenzene particle, 5 to 10 µm in diameter.
L 74	A strong anion-exchange resin consisting of a highly cross-linked core of 7 µm microporous particles having a 100 Å average pore size and consisting of ethylvinylbenzene cross-linked with 55 % divinylbenzene and an anion-exchange layer grafted to the surface, which is functionalized with alkyl quaternary ammonium ions.
L 75	A chiral-recognition protein, bovine serum albumin (BSA), chemically bonded to silica particles, about 7 µm in diameter, with a pore size of 300 Å.
L 76	Silica based weak cation-exchange material, 5 µm in diameter. Substrate is surface polymerized polybutadiene-maleic acid to provide carboxylic acid functionalities. Capacity not less than 29 µEq/column. **Available Phases: Multospher Kation**
L 77	Weak cation-exchange resin consisting of ethylvinylbenzene, 55 % cross-linked with divinyl benzene copolymer, 6 to 9 µm diameter. Substrate is surface grafted with carboxylic acid functionalized groups. Capacity not less than 500 µEq/column (4 mm x 25 cm).
L 78	A silane ligand that consists of both reversed-phase (an alkyl chain longer than C8) and anion-exchange (primary, secondary, or tertiary amino groups) functional groups chemically bonded to porous or non-porous or ceramic microparticles, 1.0 to 50 µm in diameter or a monolithic rod.
L 79	A chiral-recognition protein, human serum albumin (HSA), chemically bonded to silica particles, about 5 µm in diameter.
L 80	Cellulose tris(4-methylbenzoate)-coated, porous spherical, silica particles, 5 µm in diameter.
L 81	A hydroxide-selective, strong anion-exchange resin consisting of a highly cross-linked core of 9 µm porous particles having a pore size of 2000 Å units and consisting of ethylvinylbenzene cross-linked with 55 % divinylbenzene with a latex coating composed of 70 nm diameter microbeads (6 % cross-linked) bonded with alkanol quaternary ammonium ions.
L 82	Polyamine chemically bonded to cross-linked polyvinyl alcohol polymer, 4 – 5 µm in diameter.
L 83	A hydroxide-selective, strong anion-exchange resin – quaternary amine bonded on latex particles attached to a core of 10.5 µm microporous particles having a pore size of 10 Å and consisting of ethylvinylbenzene cross-linked with 55 % divinylbenzene.
L 84	Weak cation-exchange resin consisting of ethylvinylbenzene, 55 % cross-linked with divinylbenzene copolymer, 5 µm diameter. Substrate is surface grafted with carboxylic

	acid functionalized groups. Capacity not less than 8400 µEq/column (5 mm x 25 cm).
L 85	A silane ligand that consists of both reversed-phase (an alkyl chain longer than C8) and weak cation-exchange (carboxyl groups) functional groups chemically bonded to porous or non-porous particles, 1.0 to 50 µm in diameter.
L 86	A 5 µm fused core particle with a highly polar ligand possessing 5 hydroxyl groups tethered to the silica gel outer layer.
L 87	Dodecyl silane chemically bonded to porous silica particles, 1.5 to 10 µm in diameter.
L 88	Glycopeptide vancomycin linked through multiple covalent bonds to 100 Å spherical silica.
L 89	Packing having the capacity to separate compounds with a molecular weight range from 100-3000 (as determined by polyethylene oxide), applied to neutral and anionic water-soluble polymers. A polymethacrylate resin base, cross-linked with polyhydroxylated ether (surface contains some residual cationic functional groups.
L 90	Amylose tris[(*S*)-alpha-methylbenzylcarbamate] coated on porous, spherical silica particles, 3 to 10 µm in diameter.
L 91	Strong anion-exchange resin consisting of monodispersed porous polystyrene/divinylbenzene beads coupled with quaternary amine. Bead size is 10 µm.
L 92	A strong anion-exchange resin consisting of a highly cross-linked core of 5 to 9 µm microporous particles having a 100 Å average pore size and consisting of ethylvinylbenzene cross-linked with 55 % divinylbenzene and an anion-exchange layer grafted to the surface, which is functionalized with alkanol quaternary ammonium ions.
L 93	Cellulose tris(3,5-dimethylphenylcarbamate) reversed-phase chiral stationary phase coated on 3 or 5 µm silica gel particles.
L 94	A strong anion-exchange resin consisting of highly cross-linked 15 µm microporous particles functionalized with very low cross-linked latex (0.5 %) to provide alkanol quaternary ammonium ion exchange sites.
L 95	Highly polar alkyl ligand comprising five hydroxyl groups that are chemically bonded to totally porous or superficially porous silica or a monolithic silica rod.
L 96	Alkyl chain, reversed-phase bonded totally or superficially porous silica designed to retain hydrophilic and other polar compounds when using highly aqueous mobile phases, including 100 % aqueous, 1.5 µm to 10 µm in diameter. **Available Phases: Multospher RP18-AQ, MultoKrom C18 AQ**
L 97	Weak cation-exchange resin consisting of a highly cross-linked core of 5.5 µm porous particles having a pore size of 2000 Å units and consisting of ethylvinylbenzene cross-linked with 55 % divinylbenzene. Substrate is surface grafted with carboxylic acid functionalized groups. Capacity not less than 2400 µEq/column (4 mm x 25 cm).
L 98	Weak cation-exchange resin consisting of a highly cross-linked core of 8 µm microporous particles having a pore size of 10 Å units and consisting of ethylvinylbenzene cross-linked with 55 % divinylbenzene. Substrate is surface grafted with carboxylic acid functionalized groups. Capacity not less than 46 µEq/column (4 mm x 5 cm).

L 99	Amylose tris-(3,5-dimethylphenylcarbamate), immobilized on porous, spherical, silica particles, 3 to 5 µm in diameter.
L 100	A 55 % crosslinked, microporous, hydrophobic resin core (9 µm microporous particles having a pore size of 10 Å units) that consists of a bilayer of anion and cation exchange latex. The first layer is fully sulfonated (140 nm) and the second layer is fully aminated (76 nm).
L 101	Cholesteryl groups chemically bonded to porous or non-porous silica or ceramic micro-particles, 1.5 to 10 µm in diameter, or a monolithic rod.
L 102	(Naproxen, (*S*,*S*)Whelk-O 1) 1-(3,5-dinitrobenzamido)-1,2,3,4-tetrahydrophenanthrene covalently bonded to porous spherical silica particles, 5 to 10 µm in diameter.
L 103	A hydroxide-selective, strong anion-exchange resin consisting of a highly cross-linked core of 7.5 µm porous particles having a pore size of 2000 Å units and consisting of ethylvinylbenzene cross-linked with 55 % divinylbenzene electrostatically bonded with hyperbranched alkanol quaternary ammonium ions.
L 104	Triazole groups chemically bonded to porous silica particles, 1.5 to 10 µm in diameter.
L 105	A strong anion-exchange resin consisting of a highly cross-linked 9 µm supermacroporous (2000 Å) particles functionalized with very low cross-linked latex (0.2 %) to provide alkyl quaternary ammonium ion sites.
L 106	Weak cation-exchange resin consisting of ethylvinylbenzene, 55 % cross-linked with divinylbenzene copolymer, 5-8 µm diameter, macroporous particles having an average pore size of 100 Å units. Substrate is surface grafted with carboxylic acid and phosphonic acid functional groups. Capacity not less than 2800 µEq/column (4 mm x 25 cm).
L 107	Cellulose tris(4-methylbenzoate)-coated porous spherical particles, 3 to 5 µm in diameter, for use with reversed phase mobile phases.
L 108	A chiral-recognition protein, cellobiohydrolase (CBH), chemically bonded to silica particles, about 5 µm in diameter.
L 109	Spherical particles of porous graphitic carbon, 3 to 30 µm in diameter.
L 110	A strong anion-exchange resin consisting of a highly cross-linked 13 µm microporous (less than 10 Å) particles coated with very low cross-linked latex (0.5 %) to provide alkanol quaternary ammonium ion exchange sites.
L 111	Polyamine chemically bonded to porous spherical silica particles, 5 µm in diameter.
L 112	A hydroxide-selective , strong anion-exchange resin consisting of a highly cross-linked core of 8.5 µm porous particles having a pore size of 2000 Å units and consisting of ethylvinylbenzene cross-linked with 55 % divinylbenzene with a latex coating composed of 65 nm diameter microbeads (5 % crosslinked) bonded with alkanol quaternary ammonium ions.
L 113	A hydroxide-selective, strong anion-exchange resin consisting of a highly cross-linked core of 7.5 µm porous particles having a pore size of 2000 Å units and consisting of ethylvinylbenzene cross-linked with 55 % divinylbenzene with a latex coating composed of 65 nm diameter microbeads (5 %) crosslinked bonded with alkanol

	quaternary ammonium ions.
L 114	Sulfobetaine graft-polymerized to totally or superficially porous silica, 1.5 to 10 µm in diameter, or a monolithic rod. Packing having densely bonded zwitterionic groups with 1:1 charge balance.
L 115	Ethylvinylbenzene/divinylbenzene substrate (55 % cross-linked) agglomerated with quaternary amine functionalized 275 nm latex microbeads (6 % cross-linked), about 8.5 µm in diameter.
L 116	Sulfonated ethylvinylbenzene/divinylbenzene substrate approximately 12 to 14 µm in diameter agglomerated with hydrophilic quaternary amine functionalized glycidyl-derivative methacrylate microbeads.
L 117	A crown ether coated on a 5 µm particle size silica gel substrate. The active site is (*R*)-18-crown-6-ether.
L 118	Aqueous polymerized C18 groups on silica particles, 1.2 to 5 µm in diameter. **Available Phases: Multospher PAH-III**
L 119	Cellulose tris-(3,5-dichlorophenylcarbamate), immobilized on porous, spherical, silica particles, 3 to 5 µm in diameter.
L 120	A hydroxide-selective, strong anion-exchange resin consisting of a highly cross-linked core of 13 µm microporous particles having a pore size of <10 Å units and consisting of ethylvinylbenzene cross-linked with 55 % divinylbenzene with a latex coating composed of 65 nm diameter microbeads (8 % crosslinked) bonded with alkanol quaternary ammonium ions. Capacity not less than 10 µEq/column (4 mm x 5 cm).
L 121	A hydroxide-selective, strong anion-exchange resin consisting of a highly cross-linked core of 11 µm porous particles having a pore size of less than 10 Å units and consisting of ethylvinylbenzene cross-linked with 55 % divinylbenzene electrostatically bonded with hyperbranched alkanol quaternary ammonium ions.
L 122	Sulfobetaine graft-polymerized to totally or superficially porous hydrophilic polymer particles, 1.0 to 10 µm in diameter, or a monolithic rod. Packing having densely bonded zwitterionic groups with 1:1 charge balance.
L 123	Cellulose tris-(3-chloro-4-methylphenylcarbamate) coated porous silica particles, 3 to 20 µm in diameter.
L 124	Strong cation-exchange resin consisting of sulfonated cross-linked styrene-divinylbenzene copolymer in the silver form, average 9 µm in diameter.
L 125	Polyvinyl alcohol polymer gel weak cation-exchange packing material, 5 µm porous particles. The surface is polymerized with polybutadiene-maleic acid to provide carboxylic acid functionalities. The capacity is not less than 1 mEq/column.