

## KNAUER HPLC Phases USP "L" code column listing



USP Code	USP Specifications	KNAUER Phases
L1	Octadecyl silane (ODS, C18) chemically bonded to porous silica or ceramic micro-particles, 1.5- 10 µm diameter, or a monolithic silica rod.	Eurospher 100 C18 Eurospher II 100 C18/C18A/C18H/C18P Eurosil Bioselect 300 C18/C18A Nucleosil 100/120/300 C18 ProntoSIL 120 C18 AQ/C18 AQ Plus/C18 H/C18 SH ProntoSIL 200 C18 ace-EPS/C18 AQ/C18 H ProntoSIL Hypersorb 120 ODS ProntoSIL Spheribond 80 ODS1/ODS2 LiChrospher 100 RP 18/RP 18e
L3	Porous silica particles, 3-10 µm diameter, or a monolithic silica rod.	Eurospher 100 Si Eurospher II 100 Si Nucleosil 100/120/300 Si ProntoSIL 120 Si ProntoSIL 200 Si LiChrospher 60/100 Si
L7	Octylsilane chemically (C8) bonded to totally porous silica particles, 1.5-10 µm diameter, or a monolithic silica rod.	Eurospher 100 C8 Eurospher II 100 C8/C8A Eurosil Bioselect 300 C8 Nucleosil 100/120/300 C8 ProntoSIL 120/200 C8 SH LiChrospher 100 RP 8/RP 8e LiChrospher 60 RP select B
L8	An essentially monomolecular layer of aminopropylsilane (NH <sub>2</sub> ) chemically bonded to totally porous silica gel support, 3-10 µm diameter.	Eurospher 100 NH <sub>2</sub> Eurospher II 100 NH <sub>2</sub> Nucleosil 100 NH <sub>2</sub> ProntoSIL 120 Amino/Amino e LiChrospher 100 NH <sub>2</sub>
L9	Totally porous silica gel with chemically bonded, strong cation-exchange coating (SCX), 3-10 µm diameter.	Nucleosil 100 SA
L10	Nitrile groups (CN) chemically bonded to porous silica particles, 3-10 µm diameter.	Eurospher 100 CN Eurospher II 100 CN Nucleosil 100 CN ProntoSIL 120 CN LiChrospher 100 CN

L11	Phenyl groups chemically bonded to porous silica particles, 1.5-10 µm diameter.	Eurospher 100 Phenyl Eurospher II 100 Phenyl Nucleosil 100 C6H5 ProntoSIL 120 Phenyl
L13	Trimethylsilane (C1) chemically bonded to porous silica particles, 3-10 µm diameter.	ProntoSIL 120 C1
L14	Silica gel having a chemically bonded, strongly basic quaternary ammonium anion-exchange coating (SAX), 5-10 µm diameter.	Nucleosil 100 SB
L16	Dimethylsilane (C2) chemically bonded to porous silica particles, 5-10 µm diameter.	Nucleosil 100 C2
L17	Strong cation exchange resin consisting of sulfonated cross-linked styrene-divinylbenzene copolymer in the hydrogen form, 7-11 µm diameter	Eurokat H
L19	Strong cation exchange resin consisting of sulfonated cross-linked styrene-divinylbenzene copolymer in the calcium form, about 9 µm diameter	Eurokat Ca
L20	Dihydroxypropane (Diol) groups chemically bonded to porous silica particles, 5-10 µm diameter	Eurospher 100 Diol Eurospher II 100 Diol LiChrospher Diol ProntoSIL 120 Diol
L21	A rigid spherical styrene-divinylbenzene copolymer, 5-10 µm diameter	Hamilton PRP-1
L22	A cation-exchange resin made of porous polystyrene gel with sulfonic acid groups, about 10 µm size	Hamilton PRP-X100/PRP-X200
L25	Packing having the capacity to separate compounds with a MW range from 100 to 5 000 Da (as determined by polyethylene oxide), applied to neutral, anionic and cationic water-soluble polymers.	AppliChrom ABOA SuperOH-P-200
L26	Butyl silane (C4) chemically bonded to totally porous silica particles, 3-10 µm diameter	Eurospher II 100 C4 Eurosil Bioselect 300 C4 Nucleosil 120/300 C4 ProntoSIL 120 C4
L32	A chiral ligand-exchange resin packing L-proline copper complex covalently bonded to irregular shaped silica particles, 5-10 µm diameter	Nucleosil Chiral-1
L34	Strong cation exchange resin consisting of sulfonated cross-linked styrene-divinylbenzene copolymer in the lead form, about 9 µm diameter	Eurokat Pb
L36	A 3,5-dinitrobenzoyl derivative of L-phenylglycine covalently bonded to 5 µm aminopropyl silica	Nucleosil Chiral-2/ Nucleosil Chiral-3
L40	Cellulose tris-3,5-dimethylphenylcarbamate coated porous silica particles, 5-20 µm diameter	Eurospher II Chiral OM
L45	Beta cyclodextrin bonded to porous silica particles 5-10 µm diameter	NUCLEODEX β-OH/NUCLEODEX β-PM

L47	High capacity anion-exchange microporous substrate, fully functionalised with a trimethylamine group, 8µm in diameter	Hamilton RCX-10
L51	Amylose tris-3,5-dimethylphenylcarbamate coated porous, spherical silica particles, 5-10 µm diameter	Eurospher II Chiral AM/ Eurospher II Chiral AM-R
L62	C30 silane bonded phase on a fully porous spherical silica, 3 to 15 µm in diameter	ProntoSIL 200 C30
L93	Cellulose tris(3,5-dimethylphenylcarbamate) reversed phase chiral stationary phase coated on 3 or 5 µm silica gel particles	Eurospher II Chiral OM-R