

# USP-NF Column List

No.	Packing Material	Corresponding Column	Page
L1	Octadecyl silane chemically bonded to porous or non-porous silica or ceramic micro-particles or superficially porous particles, 1.5 to 10 µm in diameter, or a monolithic rod.	Silica C18M 4D, C18M 4E	24
		C18U 2B, C18U 2D	24
L17	Strong cation-exchange resin consisting of sulfonated cross-linked styrene-divinylbenzene copolymer in the hydrogen form, 6 to 12 µm in diameter.	SUGAR SH1011, SH1011 8C	30
		SUGAR SH1821	30
		RSpak KC-811, KC-811 6E	30
L19	Strong cation-exchange resin consisting of sulfonated cross-linked styrene-divinylbenzene copolymer in the calcium form, 5 - 15 µm in diameter.	SUGAR SC1011	26
		SUGAR SC1211	26
		EP SC1011-7F	27
		USPpak MN-431	27
L20	Dihydroxypropane groups chemically bonded to porous silica or hybrid particles, 1.5 to 10 µm in diameter, or a monolithic silica rod.	PROTEIN KW-800 series	36
		KW400 series	36
		PROTEIN LW-803	37
		PROTEIN LW-403 4D	37
L21	A rigid, spherical styrenedivinylbenzene copolymer, 3 to 30 µm in diameter.	RSpak DS-613, DS-413	16
		GPC KF-800 series, KD-800 series, KF-400HQ series, HK-400 series, LF series	48, 50, 52, 54, 56
L22	A cation-exchange resin made of porous polystyrene gel with sulfonic acid groups, 5 - 15 µm in diameter.	SUGAR SC1011	26
		SUGAR SP0810, SP0810 8C	26
		SUGAR KS-800 series	26
		RSspak DC-613	26
		SUGAR SZ5532	26
		SUGAR SC1211	26
		EP SC1011-7F	27
		USPpak MN-431	27
		SUGAR SH1011, SH1011 8C	30
		SUGAR SH1821	30
		RSpak KC-811, KC-811 6E	30
L23	An anion-exchange resin made of porous polymethacrylate or polyacrylate gel with quarternary ammonium groups, 7-12 µm in size.	CXpak P-421S	62
		IC I-524A	32
L25	Packing having the capacity to separate compounds with a 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.	IEC QA-825	62
		OHpak SB-802 HQ	40
		OHpak SB-802.5 HQ	40
L33	Packing having the capacity to separate dextrans by molecular size over a range of 4,000 to 500,000 Da. It is spherical, silica-based, and processed to provide pH stability.	OHpak LB-802.5	41
		PROTEIN KW-800 series	36
		KW400 series	36
L34	Strong cation-exchange resin consisting of sulfonated cross-linked styrene-divinylbenzene copolymer in the lead form, 7 to 9 µm in diameter.	PROTEIN LW-803, LW-403 4D	37
		SUGAR SP0810, SP0810 8C	26
L37	Packing having the capacity to separate proteins by molecular size over a range of 2,000 to 40,000 Da. It is a polymethacrylate gel.	OHpak SB-803 HQ	40
		OHpak LB-803	41
L38	A methacrylate-based size-exclusion packing for water-soluble samples.	OHpak SB-800 HQ series	40
		OHpak LB-800 series	41
L39	A hydrophilic polyhydroxymethacrylate gel of totally porous spherical resin.	ODP2 HP series	12
		RSpak DM-614	16
		OHpak SB-800 HQ series	40
		OHpak LB-800 series	41
L45	Beta cyclodextrin, R,S-hydroxypropyl ether derivative, bonded to porous silica particles, 3 to 10 µm in diameter.	ORpak CDBS-453	64
L58	Strong cation-exchange resin consisting of sulfonated cross-linked styrene-divinylbenzene copolymer in the sodium form, about 6 to 30 µm in diameter.	SUGAR KS-800 series	26
		RSspak DC-613	26
		CXpak P-421S	62
L59	Packing for the size-exclusion separations of proteins (separation by molecular weight) over the range of 5 to 7000 kDa. The packing is spherical 1.5 - 10 µm, silica or hybrid packing with a hydrophilic coating.	PROTEIN KW-800 series	36
		KW400 series	36
		PROTEIN LW-803, LW-403 4D	37
L67	Porous vinyl alcohol copolymer with a C18 alkyl group attached to the hydroxyl group of the polymer, 2 to 10 µm in diameter.	Asahipak ODP-50 series	14
L71	A rigid, spherical polymetacrylate, 4 to 6 µm in diameter.	RSpak DE-613, DE-413, DE-213	16
L76	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.	IC YK-421	33
L82	Polyamine chemically bonded to cross-linked polyvinyl alcohol polymer, 5 µm in diameter.	Asahipak NH2P-50 series, NH2P-40 series	22
L89	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).	OHpak SB-802 HQ, SB-802.5 HQ	40
		OHpak LB-802.5	41
L125	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.	IC YS-50	33

Note: Please check USP's "Chromatographic Database" for the latest information.