

Bulk Packing Material for Preparative Chromatography

PHASE	PRODUCT	PHASE CODE	PHASE (Silica-based unless noted)	PORE SIZE* (nm)	PARTICLE SIZE* (µm spherical)	CARBON LOAD** (%C)	pH	TYPICAL APPLICATION
Reversed Phase	Triart Prep C18	TAS	organic/inorganic hybrid particle, polymeric bonding	12; (20)	10; 15; 20	20	2.0-10.0	first choice for method development, most versatile phase
	ODS-A-HG	AAG	one of YMC's international bestsellers, traditional high performance C18 silica	12; 20; 30	10; 15; 20; 50	17; 12; 7	2.0-7.5	pharmaceuticals, vitamins, peptides, PTC-amino acids, general purpose phase
	ODS-AQ-HG	AQG	"hydrophilic" endcapping, for 100% aqueous eluent systems, substantially increased retention of polar compounds	8; 12; 20	10; 15; 20; 50	15; 14; 10	2.0-7.5	strong polar compounds, pharmaceuticals, antibiotics, peptides and proteins, nucleic acids, amino acids and nucleotides
	Triart Prep C8	TOS	organic/inorganic hybrid particle, polymeric bonding	(12); 20	10; 15; 20	13	2.0-10.0	proteins and peptides, general purpose phase
	C8-HG (Octyl)	OCG	traditional C8, high coverage monomeric bonding chemistry	12; 20; 30	10; 15; 20; 50	10; 7; 4	2.0-7.5	proteins and peptides, estrogens, general purpose phase
	YMCbasic	BA	specifically designed for the separation of basic compounds and peptides	20	10; 15	7	2.0-7.5	basic molecules w/o modifiers, peptides
	Ph-HG (Phenyl)	PHG	monomerically bonded phenyl, the π-π electron interaction gives a separation selectivity different from ODS	12; (20; 30)	10; 15; 20; 50	9	2.0-7.5	phenols, fullerenes, sweeteners, aromatics
	C4	C4-HG (Butyl)	BUG	traditional C4, less hydrophobic surface structure than C8 packing material	12; 20; 30	10; 15; 20; 50	7; 5; 3	2.0-7.5
C1	TMS-HG (C1)	TMG	trimethylsilane bonding, excellent hydrolytic stability	12; (20; 30)	10; 15; 20; 50	4	2.0-7.5	water-soluble vitamins
	YMC Omega	OMG	specifically designed for the separation of polyunsaturated fatty acids	proprietary	10; 20; 50	15	2.0-7.5	polyunsaturated fatty acids, EPA, DHA
Normal Phase/HILIC	NH2-HG (Amino)	NHG	primary amino derivative, high coverage monomeric bonding chemistry, suitable for HILIC	12; (20; 30)	10; 15; 20; 50	3	2.0-7.5	saccharides, nucleotides, water-soluble vitamins
	CN-HG (Cyano)	CNG	for RP and NP applications, useful also for SFC and HILIC	12; (20; 30)	10; 15; 20; 50	7	2.0-7.5	proteins, steroids, catechols, for SFC applications
	Diol-HG	DNG	for normal phase applications, high recovery for biological material, suitable for HILIC and SFC	12; 20; 30	10; 15; 20; 50	-	2.0-7.5	polar natural products, pharmaceuticals, for HILIC and SFC applications
	SIL-HG (Silica)	SLG	ultra high purity, high mechanical stability, suitable for HILIC and SFC	6; 8; 12; 20; 30	10; 15; 20; 50	-	-	small organic molecules, fat-soluble vitamins, tocopherols, steroids
	SIL (Silica)	SL	high purity, suitable for MPLC and column chromatography	6; 12	50; 75; 150	-	-	small organic molecules, fat-soluble vitamins, tocopherols, steroids
SEC	Diol-120	DLG	versatile phase for gel filtration separations	12	10; 15; 20; 50	-	5.0-7.5	peptides, proteins, malto-oligosaccharides, MW 5,000 to 100,000
	Diol-200	DLG	versatile phase for gel filtration separations	20	10; 15; 20	-	5.0-7.5	peptides, proteins, malto-oligosaccharides, MW 10,000 to several 100,000
	Diol-300	DLG	versatile phase for gel filtration separations	30	10; 15; 20	-	5.0-7.5	peptides, proteins, malto-oligosaccharides, MW several 10,000 to 1,000,000
Chiral	Chiral Amylose-C	KAN	polysaccharide chiral selector, coated type	proprietary	10; 20	-	-	wide application range, SFC/SMB
	Chiral Cellulose-C	KCN	polysaccharide chiral selector, coated type	proprietary	10; 20	-	-	wide application range, SFC/SMB
	Chiral Amylose-SA	KSA	polysaccharide chiral selector, immobilised type	proprietary	10; 20	-	2.0-9.0	wide application range for RP, NP, SFC and SMB
	Chiral Cellulose-SB	KSB	polysaccharide chiral selector, immobilised type	proprietary	10; 20	-	2.0-9.0	wide application range for RP, NP, SFC and SMB
	Chiral Cellulose-SC	KSC	polysaccharide chiral selector, immobilised type	proprietary	10; 20	-	2.0-9.0	wide application range for RP, NP, SFC and SMB
	Chiral Cellulose-SJ	KSJ	polysaccharide chiral selector, immobilised type	proprietary	10; 20	-	2.0-9.0	wide application range for RP, NP, SFC and SMB
	Chiral Prep CD ST	ST	cyclodextrin based stationary phase for chiral RP separations	12	10; 20; 50	-	2.0-7.0	chiral separations, structural isomers
Chiral Prep CD PM	PM	phenyl modified cyclodextrin based phase, for NP and RP applications	12	10; 20; 50	-	2.0-7.0	chiral separations, structural isomers	
IEX	BioPro Q	QA	high dynamic binding capacity, hydrophilic polymer strong anion exchange media	porous	75	-	2.0-12.0	monoclonal antibodies, proteins, IgG
	BioPro S	SP	high dynamic binding capacity, hydrophilic polymer strong cation exchange media	porous	75	-	2.0-12.0	monoclonal antibodies, proteins, IgG
	BioPro SmartSep Q	QS	high mechanical strength, hydrophilic polymer anion exchange media	porous	10; 20; 30	-	2.0-12.0	nucleic acid, antibody pharmaceuticals, and general peptides/proteins
	BioPro SmartSep S	SS	high mechanical strength, hydrophilic polymer cation exchange media	porous	10; 20; 30	-	2.0-12.0	insulin, antibody pharmaceuticals, and general peptides/proteins
	BioPro DA	DAM	high dynamic binding capacity, hydrophilic polymer weak anion exchange media	porous	60	-	3.0-12.0	monoclonal antibodies, proteins, IgG, general peptides/proteins
	BioPro CM	CMM	high dynamic binding capacity, hydrophilic polymer weak cation exchange media	porous	60	-	3.0-12.0	monoclonal antibodies, proteins, IgG, general peptides/proteins

Analytical grades (3 and 5 µm) are routinely available in pre-packed columns. Particle sizes as indicated. If not listed, please ask for quotation. Multi ton capacity.

Customized packing materials available on request. Pore sizes in parenthesis on request. *Not all combinations available. **With respect to pore size.



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Scale Up Assistance

Choose Best Selectivity

Analyte Solubility	Separation Mechanism	Functional Group	YMC Product	Application
Water soluble	Reversed Phase	C18	Triart Prep C18-S	versatile phase, stable over large pH range
			ODS-A-HG	derivatized amino acids, dyes, peptides, polar compounds
			ODS-AQ-HG	nucleotides, oligonucleotides, peptides, vitamins, highly polar and ionic compounds
		C8	Triart Prep C8-S	peptides, small proteins, phase stable over large pH range
			YMCbasic	derivatized amino acids, organic amines, basic drugs, metabolites, peptides
			C8-HG (Octyl)	peptides, proteins
	C4	C4-HG (Butyl)	peptides, vitamins	
	C1	TMS-HG	vitamins	
	HILIC	NH ₂	NH ₂ -HG (Amino)	carbohydrates, sugars, nucleotides
		Diol	Diol-HG	oligosaccharides, peptides, proteins
	Size Exclusion	Diol	Diol-HG	peptides
	Ion-Pairing Ion-Suppression	C18	Triart Prep C18-S	versatile phase, stable over large pH range
Non-water soluble Organic solvent soluble	Reversed Phase	C18	Triart Prep C18-S	versatile phase, stable over large pH range
			ODS-A-HG	fat-soluble vitamins, carotenoids
		C8	Triart Prep C8-S	peptides, small proteins, phase stable over large pH range
			C8-HG (Octyl)	aflatoxins, fatty acids, polyaromatics, estrogens
		Phenyl	Ph-HG (Phenyl)	fatty acids, polyaromatics, medium polar compounds
	Normal Phase	SIL	SIL-HG	fat-soluble vitamins, organic compounds, estrogens
		Diol	Diol-HG	steroids, triglycerides, vitamins
		CN	CN-HG (Cyano)	steroids, proteins
		NH ₂	NH ₂ -HG (Amino)	steroids, aromatic alcohols