BULK STATIONARY PHASES FOR PREPARATIVE CHROMATOGRAPHY

		STATIONARY PHASE	PHASE CHARACTERISTICS	PARTICLE SIZE* (µm)	PORE SIZE* (nm)	CARBON LOAD** (%C)	pH RANGE	TYPICAL APPLICATIONS
Reversed Phase	C18	YMC-Triart Prep C18-S	pH-stable organic/inorganic hybrid silica, most versatile phase, 100% aqueous stable	7, 10, 15, 20	12	20	2.0–10.0	acidic, neutral, basic compounds, peptides, oligonucleotides, small molecules, amino acids, APIs, sugars
		YMC*Gel ODS-A-HG	classical versatile, silica-based C18 phase with improved mechanical stability	10, 15, 20, 50	8, 12, 20, 30	20, 17, 12, 7	2.0–7.5	peptides, proteins, amino acids, pharmaceuticals
		YMC*Gel ODS-AQ-HG	classical silica-based polar RP phase with improved mechanical stability, 100% aqueous stable	10, 15, 20, 50	8, 12, 20	15, 14, 10	2.0–7.5	peptides, nucleic and amino acids, pharmaceuticals, in particular for more polar compounds
	C8	YMC-Triart Prep C8-S	pH-stable organic/inorganic hybrid silica, general purpose phase, medium hydrophobicity	10, 15, 20	12, 20	17, 13	2.0–10.0	acidic, neutral, basic compounds, peptides, oligonucleotides, small molecules, amino acids, APIs
		YMC-Triart Prep Bio200 C8	pH-stable organic/inorganic hybrid silica, specifically designed for peptide and oligonucleotide purification	10	20	14	2.0–10.0	peptides (especially insulin, insulin-like peptides), proteins, oligonucleotides
		YMC*Gel C8-HG	classical silica-based C8 phase with improved mechanical stability, medium hydrophobicity	10, 15, 20, 50	12, 20, 30	10, 7, 4	2.0–7.5	peptides, proteins, pharmaceuticals
		YMCbasic	specifically designed for the separation of basic compounds and peptides	10	20	7	2.0–7.5	small molecules, peptides (specifically insulin), basic compounds
	⬡	YMC*Gel Ph-HG	bonded phenyl group for π electron interactions	10, 15, 20, 50	12, (20, 30)	9	2.0–7.5	phenols, fullerenes, sweeteners, aromatics
	C4	YMC*Gel C4-HG	classical silica-based C4 phase with improved mechanical stability, less hydrophobic modification	10, 15, 20, 50	12, 20, 30	7, 5, 3	2.0–7.5	proteins, antibodies, peptides
	C1	YMC*Gel TMS-HG	classical silica-based C1 phase with improved mechanical stability, very low hydrophobicity	10, 15, 20, 50	12, (20, 30)	4	2.0–7.5	(water-soluble) vitamins
		YMC Omega	specifically designed for the separation of polyunsaturated fatty acids	10, 20, 50	proprietary	15	2.0–7.5	polyunsaturated fatty acids, EPA, DHA
Normal Phase/HILIC	Diol	YMC*Gel NH_2-HG (Amino)	classical silica-based amino phase, primary amino derivative, high coverage monomeric bonding chemistry	10, 15, 20, 50	12, (20, 30)	3	2.0–7.5	sugars, nucleotides, (water-soluble) vitamins
	CN	YMC*Gel CN-HG (Cyano)	classical silica-based cyano phase, polar, hydrophobic and π-π- interactions	10, 15, 20, 50	12, (20, 30)	7	2.0–7.5	RP, NP, SFC, HILIC, proteins, steroids, catechols, nitroaromatics
	NH_2	YMC*Gel Diol-HG	less polar alternative to unmodified silica, polar and hydrophobic characteristics	10, 15, 20, 50	12, 20, 30	—	2.0–7.5	NP, SFC, HILIC, small organic molecules, (fat-soluble) vitamins, tocopherols, steroids, phenols
		YMC*Gel SIL-HG (Silica)	unmodified silica with high purity and improved mechanical stability	10, 15, 20, 50	6, 8, 12, 20, 30	—	—	NP, SFC, HILIC, small organic molecules, (fat-soluble) vitamins, tocopherols, steroids
		YMC*Gel SIL (Silica)	classical high purity silica for LPLC/MPLC and flash chromatography, larger particle sizes	50, 75, 150	6, 12	—	—	small organic molecules, (fat-soluble) vitamins, tocopherols, steroids
IEX		BioPro IEX Q75	high binding capacity, hydrophilic polymer base particle, strong anion exchanger	75	porous	—	2.0–12.0	monoclonal antibodies, proteins and peptides, IgG, oligonucleotides
		BioPro IEX S75	high binding capacity, hydrophilic polymer base particle, strong cation exchanger	75	porous	—	2.0–12.0	monoclonal antibodies, proteins and peptides, IgG
		BioPro IEX SmartSep Q10/20/30	high resolution and mechanical strength, hydrophilic polymer base particle, strong anion exchanger	10, 20, 30	porous	—	2.0–12.0	monoclonal antibodies, proteins and peptides, IgG, oligonucleotides
		BioPro IEX SmartSep S10/20/30	high resolution and mechanical strength, hydrophilic polymer base particle, strong cation exchanger	10, 20, 30	porous	—	2.0–12.0	monoclonal antibodies, proteins and peptides (e.g. insulin), IgG,
SEC		YMC*Gel Diol-HG-120	maximum efficiency for gel filtrations, MW range: 5 to 100 kDa	10, 15, 20, 50	12	—	5.0–7.5	intermediate proteins, oligosaccharides
		YMC*Gel Diol-HG-200	maximum efficiency for gel filtrations, MW range: 5 to 300 kDa	10, 15, 20	20	—	5.0–7.5	large proteins, polysaccharides
		YMC*Gel Diol-HG-300	maximum efficiency for gel filtrations, MW range: 20 to 1,000 kDa	10, 15, 20	30	—	5.0–7.5	very large proteins, antibodies, polysaccharides
Chiral	Polysaccharides	CHIRAL ART Amylose-C	coated derivative [alternative to CHIRALPAK® AD]	10, 20	proprietary	—	—	NP, SMB and SFC mode, wide application range for chiral separations
		CHIRAL ART Amylose-C Neo	coated derivative [alternative to CHIRALPAK® AD], extended resolution and loadability	10, 20	proprietary	—	—	NP, SMB and SFC mode, wide application range for chiral separations
		CHIRAL ART Cellulose-C	coated derivative [alternative to CHIRALCEL® OD]	10, 20	proprietary	—	—	NP, SMB and SFC mode, wide application range for chiral separations
		CHIRAL ART Amylose-SA	immobilised derivative [alternative to CHIRALPAK® IA]	10, 20	proprietary	—	2.0–9.0	NP, SMB, SFC and RP mode, wide application range for chiral separations
		CHIRAL ART Cellulose-SB	immobilised derivative [alternative to CHIRALPAK® IB]	10, 20	proprietary	—	2.0–9.0	NP, SMB, SFC and RP mode, wide application range for chiral separations
		CHIRAL ART Cellulose-SC	immobilised derivative [alternative to CHIRALPAK® IC]	10, 20	proprietary	—	2.0–9.0	NP, SMB, SFC and RP mode, wide application range for chiral separations
		CHIRAL ART Cellulose-SJ	immobilised derivative [alternative to coated CHIRALCEL® OJ]	10, 20	proprietary	—	2.0–9.0	NP, SMB, SFC and RP mode, wide application range for chiral separations

 · *not all combinations of particle and pore size are available · **with respect to pore size

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YMC BULK MEDIA SAMPLE OPTIONS FOR PREPARATIVE CHROMATOGRAPHY

	Sample Type	Figure	Features / Properties	Available dimensions
Reversed Phase / Normal Phase	**Packed analytical columns**		Pre-packed stainless-steel scout columns Analytical HPLC columns packed with preparative bulk Available for all types of YMC RP/NP bulk media Available for all particle sizes	**Typical dimensions:** 250 mm x 4.6 mm ID stainless-steel column 150 mm x 4.6 mm ID stainless-steel column 250 mm x 10 mm ID stainless-steel column 150 mm x 10 mm ID stainless-steel column
	Bulk samples		Stationary phase media for self-packing Various quantities and packaging sizes available Available for all types of YMC RP/NP bulk media	Flexible, customized sample formats
Biochromatography	**Screening kits**		Kits containing 5 polypropylene columns with 1 or 5 mL of resin Compatible with Äkta and comparable LC systems Available for BioPro IEX resins with particle sizes: 20, 30 and 75 µm	26 mm x 7.0 mm (1 mL variant) 26 mm x 15.6 mm (5 mL variant) Single-format: 5 cartridges with identical resin Mixed-format: 4 cartridges with 30 µm and 75 µm resins, each as „S“ and „Q“ variant respectively
	MiniChrom™ columns		Pre-packed polypropylene screening columns Compatible with Äkta and comparable LC systems	**Stock format, available on short notice:** ID (mm) / Length (mm) / Volume (mL) 8.0 / 100 / 5.0 **Further formats:** ID (mm) / Length (mm) / Volume (mL) 5.0 / 10 / 0.2 5.0 / 25 / 0.5 5.0 / 50 / 1.0 8.0 / 20 / 1.0 8.0 / 50 / 2.5 11.3 / 50 / 5.0 11.3 / 100 / 10.0
	Packed analytical columns		Pre-packed PEEK scout columns Available for all BioPro IEX resins	250 mm x 4.6 mm ID PEEK 100 mm x 4.6 mm ID PEEK
	Bulk samples		Resin for self-packing of screening columns Various packaging sizes available Available for all BioPro IEX resins	50 mL 250 mL 1 L 5 L 10 L
	RoboColumns®		Rack format For automated screening via Tecan and Perkin Elmer sampler robots Customized formats possible with individually packed rows of columns (1 resin each)	**Stock format, available on short notice:** ID (mm) / Length (mm) / Volume (µL) 5.0 / 10.0 / 200 **Further formats:** ID (mm) / Length (mm) / Volume (µL) 5.0 / 2.5 / 50 5.0 / 5.0 / 100 5.0 / 22.5 / 450 5.0 / 25.0 / 500 5.0 / 30.0 / 600

Bulk Packing Material 10/2020

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