RESINS FOR PREPARATIVE BIOSEPARATIONS



		BULK STATIONARY PHASES	BASE MATERIAL	PARTICLE SIZE* (µm)	PORE SIZE* (nm)	pH RANGE	TARGET MOLECULES AND TYPICAL APPLICATION IN DSP		MODE	
		BioPro IEX Q75	hydrophilic polymer beads	75	porous	2.0-12.0	capturing and high-scale purification of proteins and oligos, removal of DNA and HCP	C CIP		
		BioPro IEX SmartSep Q30	hydrophilic polymer beads	30	porous	2.0-12.0	large-scale purification of proteins, peptides and oligos	OP CP	Ch	
	AEX	BioPro IEX SmartSep Q20	hydrophilic polymer beads	20	porous	2.0-12.0	large-scale purification of proteins, peptides and oligos	OP CP	Charge	
		BioPro IEX SmartSep Q10	hydrophilic polymer beads	10	porous	2.0-12.0	polishing of protein, peptide and oligo purification at high resolution	P CIP		
至		MacroSep IEX Q	hydrophilic polymer beads	30	macro-porous	2.0-12.0	purification of large biomolecules like AAV, VLPs, plasmid DNA, protein complexes	OP OP		
		BioPro IEX S75	hydrophilic polymer beads	75	porous	2.0-12.0	capturing and high-scale purification of proteins, removal of HCP	C CIP	0	
	×	BioPro IEX SmartSep S30	hydrophilic polymer beads	30	porous	2.0-12.0	large-scale polishing and purification of proteins, peptides, antibodies	OP CP	Charge	
	CEX	BioPro IEX SmartSep S20	hydrophilic polymer beads	20	porous	2.0-12.0	large-scale polishing and purification of proteins, peptides, antibodies	OP CP		
		BioPro IEX SmartSep S10	hydrophilic polymer beads	10	porous	2.0-12.0	polishing of protein and peptide purification at high resolution	P CP		
		YMC*Gel Diol-HG-120	high grade silica	10, 15, 20, 50	12	5.0-7.5	purification of small proteins, separation from aggregates	P		
SEC		YMC*Gel Diol-HG-200	high grade silica	10, 15, 20	20	5.0-7.5	purification of intermediate and larger proteins, nanodiscs, separation from aggregates	P	Size	
		YMC*Gel Diol-HG-300	high grade silica	10, 15, 20	30	5.0-7.5	purification of large proteins, complexes, antibodies, VLPs and lipoproteins	P		
		YMC-Triart Prep C18-S	organic/inorganic hybrid silica	7, 10, 15, 20	12	2.0-10.0	purification of biologicals in acidic, neutral and basic conditions, sample desalting and concentration	OP OP		
	C18	YMC*Gel ODS-A-HG	high grade silica	10, 15, 20, 50	8, 12, 20, 30	2.0-7.5	purification of small proteins and peptides	O P	,	
		YMC*Gel ODS-AQ-HG	high grade silica	10, 15, 20, 50	8, 12, 20	2.0-7.5	purification of more polar biomolecules like nucleic acids, sample desalting and concentration	00 P	,	
Se		YMC-Triart Prep C8-S	organic/inorganic hybrid silica	10, 15, 20	12, 20	2.0-10.0	capturing and intermediate purification of larger peptides in acidic, neutral and basic conditions	OP OP	Hyd	
Reversed Phase	8	YMC-Triart Prep Bio200 C8	organic/inorganic hybrid silica	10	20	2.0-10.0	purification of larger peptides, specifically insulin at broad pH-range	OP OP	Hydrophobicity	
verse		YMC*Gel C8-HG	high grade silica	10, 15, 20, 50	12, 20, 30	2.0-7.5	capturing and intermediate purification of larger peptides	00	nobi	
Re		YMC-Triart Prep Phenyl-S	organic/inorganic hybrid silica	10	12	2.0-10.0	purification of peptides and small proteins in acidic, neutral and basic conditions	OP @	city	
		YMC*Gel Ph-HG	high grade silica	10, 15, 20, 50	12, (20, 30)	2.0-7.5	purification of peptides with low/intermediate hydrophobicity	00 P	Hydrophobicity	
	27	YMC-Triart Prep C4-S	organic/inorganic hybrid silica	10	12	2.0-10.0	purification of oligonucleotides and peptides in acidic, neutral and basic conditions	OP		
	S	YMC*Gel C4-HG	high grade silica	10, 15, 20, 50	12, 20, 30	2.0-7.5	separation of peptide isoforms, purification of oligonucleotides	00 P	,	





SAMPLE OPTIONS FOR PREPARATIVE CHROMATOGRAPHY

	SAMPLE TYPE	FIGURE	FEATURES / PROPERTIES	AVAILABLE DIMENSIONS
	Screening kits	YMC BIOPRO Terifications of the statement of the statemen	 Kits containing 5 polypropylene columns with 1 or 5 mL of resin Compatible with Äkta and comparable LC systems Available for MacroSep IEX Q and BioPro IEX 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
Biochromatography	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)
	Packed analytical columns	ROW	 Pre-packed bioinert columns in analytical dimensions Available for IEX resins 	150 mm x 4.6 mm ID 100 mm x 4.6 mm ID
	Bulk samples	THE CALL THE PROPERTY OF THE P	 Resin for self-packing of screening columns Various packaging sizes available Available for IEX resins 	50 mL 250 mL other dimensions available on request
	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) 	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
/ 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
Reversed Phase / Normal Phase	Bulk samples		 Stationary phase media for self-packing Various quantities and packaging sizes available Available for all types of YMC RP/NP bulk media 	ID (mm) Length (mm) Volume (μL) 5.0 10.0 200 Typical dimensions: 250 mm x 4.6 mm ID stainless-steel column 150 mm x 10 mm ID stainless-steel column