RESINS FOR PREPARATIVE BIOSEPARATIONS



		Bulk Stationary phases	Base material	Particle size* (µm)	Pore size* (nm)	pH range	Target molecules and typical application in DSP		Mod
		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	Charge -
>	×	BioPro IEX SmartSep Q30	Hydrophilic polymer beads	30	porous	2.0-12.0	Large-scale polishing and purification of proteins, peptides, VLPs, oligos and plasmids	OP OP	
ΛΕΧ	¥	BioPro IEX SmartSep Q20	Hydrophilic polymer beads	20	porous	2.0-12.0	Large-scale polishing and purification of proteins, peptides, VLPs, oligos and plasmids	OP OP	
<		BioPro IEX SmartSep Q10	Hydrophilic polymer beads	10	porous	2.0-12.0	Polishing of protein, peptide and oligo purification at high resolution	PCP	
절 —	ı	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
>	ا ج	BioPro IEX SmartSep S30	Hydrophilic polymer beads	30	porous	2.0-12.0	Large-scale polishing and purification of proteins, peptides, antibodies	OP OP	
Ž	3	BioPro IEX SmartSep S20	Hydrophilic polymer beads	20	porous	2.0-12.0	Large-scale polishing and purification of proteins, peptides, antibodies	OP OP	Charge -
	Ī	BioPro IEX SmartSep S10	Hydrophilic polymer beads	10	porous	2.0-12.0	Polishing of protein and peptide purification at high resolution	PCP	
	,	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	
NEC.	,	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	
	,	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	O P O	
2	<u>ة</u> ج	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	OP	
	,	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	GOP	
	,	YMC Omega	Classical silica	10, 20, 50	proprietary	2.0-7.5	Purification of polyunsaturated fatty acids	GOP	
D D	,	YMC-Triart Prep C8-S	Organic/inorganic hybrid silica	10, 15, 20	12, 20	2.0-10.0	Capturing and intermediate purification of larger proteins in acidic, neutral and basic conditions	OP OP	
	_	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	O P O	
reversed Fliase		YMC*Gel C8-HG	High grade silica	10, 15, 20, 50	12, 20, 30	2.0-7.5	Capturing and intermediate purification of larger proteins	G O P	
	,	YMCbasic	Classical silica	10	20	2.0-7.5	Purification of peptides and basic compounds	OP	
/=		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 OP	
		YMC*Gel Ph-HG	High grade silica	10, 15, 20, 50	12, (20, 30)	2.0-7.5	Purification of proteins with low/intermediate hydrophobicity	GOP	
		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	1 P CP	
2		YMC*Gel C4-HG	High grade silica	10, 15, 20, 50	12, 20, 30	2.0-7.5	Separation of protein isoforms, aggregate removal, removal of HCP	C O P	





YMC SAMPLE OPTIONS FOR PREPARATIVE CHROMATOGRAPHY

	Sample Type	Figure	Features / Properties	Available dimensions
	Screening kits	YMC SioPro selfotope formings	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
Biochromatography	MiniChrom™ columns		Pre-packed polypropylene screening columns Compatible with Äkta and comparable LC systems	Stock format, available on short notice: 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	FLOW	Pre-packed PEEK scout columns Available for all BioPro IEX resins	150 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 other diemensions 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 5.0 2.5 50 5.0 5.0 22.5 450 5.0 25.0 5.0 30.0 600 Typical dimensions: 250 mm x 4.6 mm ID stainless-steel column 150 mm x 10 mm ID stainless-steel column 150 mm x 10 mm ID stainless-steel column 150 mm x 10 mm ID stainless-steel column The stainless The stainl