Analytical stationary phases for BioLC from YMC

Mode		Product	Phase (silica-based unless stated)	End-Capped	USP Class No.	Particle size (µm)	Pore size (nm)	pH	Max. Temperature	Typical Applications
HIC	C4	BioPro HIC BF	non-porous butyl bonded HIC phase, high troughput, polymethacrylate particle	—	—	4	—	2.0–12.0	60 °C	proteins, antibodies, antibody drug conjugates (ADC)
Ion Exchange		BioPro IEX QA	porous anion exchanger, high exchange capacity, polymethacrylate particle	—	—	5	porous	2.0–12.0	60 °C	proteins, antibodies, peptides, (oligo)nucleotides
		BioPro IEX QF	non-porous anion exchanger, high troughput, polymethacrylate particle	—	—	3, 5	—	2.0–12.0	60 °C	proteins, antibodies, peptides, (oligo)nucleotides
		BioPro IEX SP	porous cation exchanger, high exchange capacity, polymethacrylate particle	—	—	5	porous	2.0–12.0	60 °C	proteins, antibodies, peptides, (oligo)nucleotides
		BioPro IEX SF	non-porous cation exchanger, high troughput, polymethacrylate particle	—	—	3, 5	—	2.0–12.0	60 °C	proteins, antibodies, peptides, (oligo)nucleotides
Size Exclusion		YMC-Pack Diol-60	versatile phase for gel filtration separations for MW < 10,000 Da	—	L20	3, 5	6	5.0–7.5	40 °C	peptides and small proteins, oligosaccharides
		YMC-Pack Diol-120	versatile phase for gel filtration separations for MW 5,000 to 100,000 Da	—	L20	3, 5	12	5.0–7.5	40 °C	intermediate proteins, oligosaccharides
		YMC-Pack Diol-200	versatile phase for gel filtration separations for MW 5,000 to 300,000 Da	—	L20	2, 3, 5	20	5.0–7.5	40 °C	large proteins, polysaccharides
		YMC-Pack Diol-300	versatile phase for gel filtration separations for MW 20,000 to 1,000,000 Da	—	L20	2, 3, 5	30	5.0–7.5	40 °C	very large proteins, antibodies, polysaccharides
		YMC-SEC MAB*	size exclusion column specifically dedicated to antibodies for MW 10,000 to 700,000 Da	—	L20/L59	<2, 3	25	5.0–7.5	40 °C	antibodies, aggregates, fragments, large proteins
Reversed Phase	C18	YMC-Triart C18	pH-stable organic/inorganic hybrid particle, 100% aqueous conditions possible	yes	L1	1.9, 3, 5	12	1.0–12.0	pH<7: 90 °C pH>7: 50 °C	peptides, (oligo)nucleotides, peptide mapping, high temperature applications, LC/MS separations
		YMC-Triart Bio C18	pH-stable widepore organic/inorganic hybrid particle	yes	L1	1.9, 3, 5	30	1.0–12.0	pH<7: 90 °C pH>7: 50 °C	larger peptides, small proteins
		Meteoric Core C18 BIO	silica based Core-Shell particle with larger pore	yes	L1	2.7	16	1.5–10.0	pH<7: 70 °C pH>7: 50 °C	peptides, small proteins
		Hydrosphere C18	ultra high purity silica, can be used in 100% aqueous eluents	yes	L1	2, 3, 5	12	2.0–8.0	50 °C	peptides, (oligo)nucleotides, nucleosides, peptide mapping
	C8	YMC-Triart C8	pH-stable organic/inorganic hybrid particle	yes	L7	1.9, 3, 5	12	1.0–12.0	pH<7: 90 °C pH>7: 50 °C	(oligo)nucleotides, high temperature applications, LC/MS separations
		YMCbasic	monomeric bonded chains of C8 and smaller	—	L7	3, 5	20	2.0–7.5	50 °C	peptides, peptide mapping
	C4	YMC-Triart Bio C4	pH-stable widepore organic/inorganic hybrid particle	yes	L26	1.9, 3, 5	30	1.0–10.0	pH<7: 90 °C pH>7: 50 °C	proteins, antibodies, peptides, high temperature applications, LC/MS separations

*some particle sizes are scheduled for a later release

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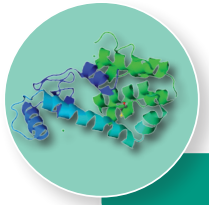
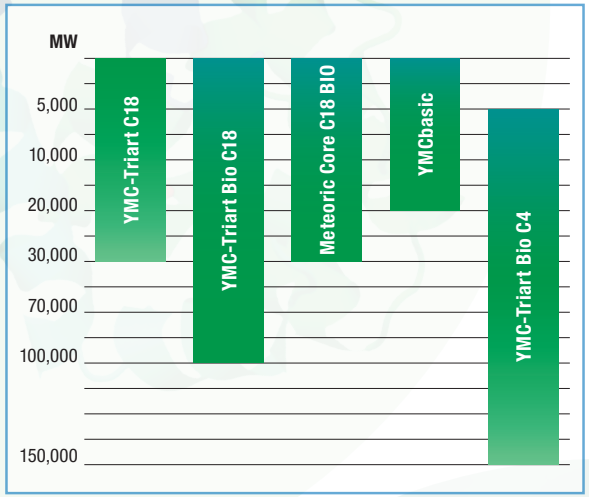
YMC Columns for Biomolecules

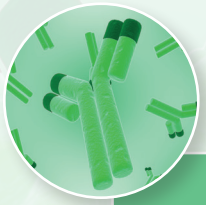
YMC EUROPE GMBH



Proteins / Peptides

HIC	IEX	SEC	RP
BioPro HIC BF	BioPro IEX QA	YMC-Pack Diol-60	YMC-Triart C18
	BioPro IEX QF	YMC-Pack Diol-120	YMC-Triart Bio C18
	BioPro IEX SP	YMC-Pack Diol-200	Meteoric Core C18 BIO
	BioPro IEX SF	YMC-Pack Diol-300	YMCbasic
		YMC-SEC MAB	YMC-Triart Bio C4





(Monoclonal) Antibodies

HIC	IEX	SEC	RP
BioPro HIC BF	BioPro IEX QA	YMC-Pack Diol-200	YMC-Triart Bio C4
	BioPro IEX QF	YMC-Pack Diol-300	
	BioPro IEX SP	YMC-SEC MAB	
	BioPro IEX SF		

Oligonucleotides / Nucleic Acids

IEX	RP
BioPro IEX QA	YMC-Triart C18
BioPro IEX QF	YMC-Triart Bio C18
	YMC-Triart C8
	Hydrosphere C18

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