

Analytical Stationary Phases for BioLC



Mode		Product	Phase (silica-based unless stated)	End-capped	USP Class #	Particle Size (µm)	Pore size (Å)	pH	Max. Temperature	Typical Applications
HIC	C4	BioPro HIC HT	non-porous HIC phase, high throughput, high pressure tolerance, polymethacrylate particle	—	—	2.3	—	2.0 - 12.0	60 °C	antibody drug conjugates (ADC), antibodies, proteins
		BioPro HIC BF	non-porous HIC phase, higher hydrophobicity, polymethacrylate particle	—	—	4	—	2.0 - 12.0	60 °C	antibody drug conjugates (ADC), antibodies, proteins
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 throughput,	—	—	3, 5, (6)	—	2.0 - 12.0	80 °C (Accura hardware) 60 °C (PEEK hardware)	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
		BioPro IEX SF	non-porous cation exchanger, high throughput,	—	—	3, 5, (6)	—	2.0 - 12.0	80 °C (Accura hardware) 60 °C (PEEK hardware)	proteins, antibodies, peptides
Size Exclusion		YMC-Pack Diol-60	versatile phase for gel filtration separations for MW < 10,000 Da	—	L20	3, 5	60	5.0 - 7.5	40 °C	peptides and small proteins, oligosaccharides
		YMC-Pack Diol-120	versatile phase for gel filtration separations for MW 1,000 to 100,000	—	L20	3, 5	120	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	—	L20	2, 3, 5	200	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	300	5.0 - 7.5	40 °C	very large proteins, antibodies, polysaccharides
		YMC-Pack MAB	size exclusion column specifically dedicated to antibodies for MW 10,000 to 700,000	—	L20/L59	3	250	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	120	1.0 - 12.0	pH<7: 90 °C pH>7: 50 °C	small molecule, peptides (oligo) nucleotides, peptide mapping, high temperature application, LC/MS separation
		YMC-Triart Bio C18	pH-stable widepore organic/inorganic hybrid particle	yes	L1	1.9, 3, 5	300	1.0 - 12.0	pH<9: 90 °C pH>9: 50 °C	larger peptides, small proteins, oligonucleotides, LC/MS separations
		Meteoric Core C18 BIO	silica based Core-Shell particle with larger pore	yes	L1	2.7	160	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	120	2.0 - 8.0	50 °C	small molecule, peptides, (oligo) nucleotides, nucleosides, peptide mapping
	C8	YMC-Triart C8	pH-stable organic/inorganic hybrid particle	yes	L7	1.9, 3, 5	120	1.0 - 12.0	pH<7: 90 °C pH>7: 50 °C	small molecule, (oligo)nucleotides, high temperature applications, LC/MS separation
C4	YMC-Triart Bio C4	pH-stable widepore organic/inorganic hybrid particle	yes	L26	1.9, 3, 5	300	1.0 - 10.0	pH<7: 90 °C pH>7: 50 °C	proteins, antibodies, peptides, high temperature applications, LC/MS separation	

high temperature stability

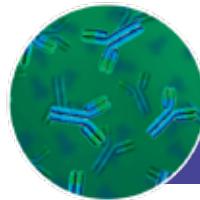
Bioinert hardware available for most phases

YMC Columns for Biomolecules



Proteins / Peptides

HIC	IEX	SEC	RP
BioPro HIC HT	BioPro IEX QA	YMC-Pack Diol-60	YMC-Triart C18
BioPro HIC BF	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	YMC-Triart Bio C4
		YMC-SEC MAB	



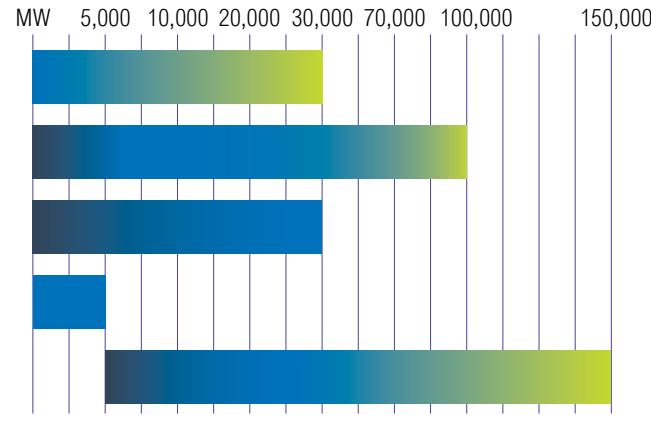
(Monoclonal) Antibodies

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



8 Charlestown Street, Devens, MA 01434 • United States
Tel: 978.487.1100
sales@ymcamerica.com • www.ymcamerica.com

Column Selection Tool according to molecular weight



- Most appropriate MW range
- Extended MW range by elevated temperature
- Appropriate MW range



Oligonucleotides / Nucleic Acids

HILIC	AEX	SEC	IP-RP
YMC-Triart Diol HILIC	BioPro AEX QA	YMC-Pack Diol-200	YMC-Triart C18
	BioPro AEX QF	YMC-Pack Diol-300	YMC-Triart Bio C18
		YMC-SEC MAB	Hydrosphere C18
			YMC-Triart C8
			YMC-Triart Bio C4



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YMC Co., Ltd Headquarters • Kyoto, Japan
Tel: +81.75.342.4515
sales@ymc.co.jp • www.ymc.co.jp/en