

Analytical stationary phases for BioLC from **YMC**

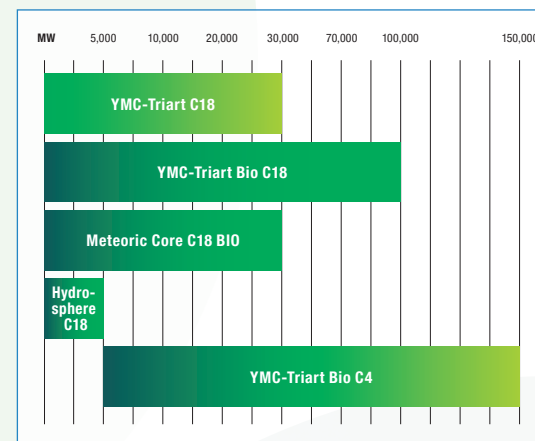
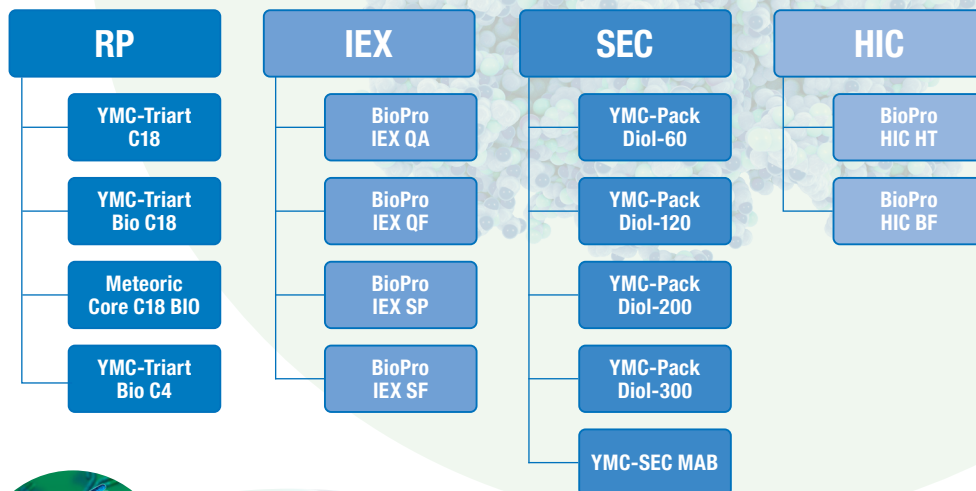
Mode		Product	Phase (silica-based unless stated)	End-Capped	USP Class No.	Particle size (µm)	Pore size (nm)	pH	Max. Temperature	Typical Applications	
HIC	C4	BioPro HIC HT	non-porous HIC phase, high throughput, high pressure tolerance, polymethacrylate particle	—	—	2.3	—	2.0–12.0	60 °C	antibody drug conjugates (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, 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
		BioPro IEX SF	non-porous cation exchanger, high throughput, polymethacrylate particle		—	—	3, 5	—	2.0–12.0	60 °C	proteins, antibodies, peptides
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 1,000 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	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<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	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
	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
HILIC		YMC-Triart Diol-HILIC	pH-stable organic/inorganic hybrid particle		no	L20	1.9, 3, 5	12	2.0–10.0	50 °C	(oligo)nucleotides, peptides

 high temperature stability  (optional) bioinert hardware available

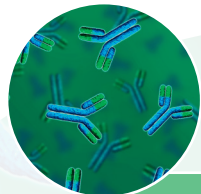
YMC Columns for Biomolecules



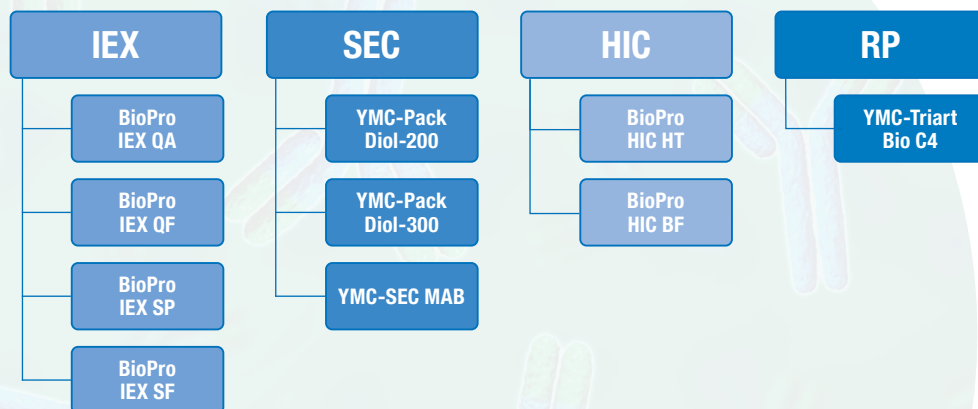
Proteins / Peptides



■ most appropriate MW range
■ extended MW range by elevated temperature
■ appropriate MW range



(Monoclonal) Antibodies



Oligonucleotides / Nucleic Acids

