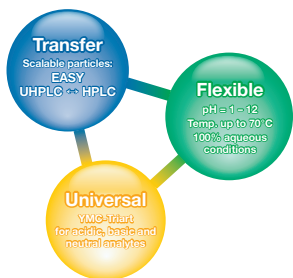
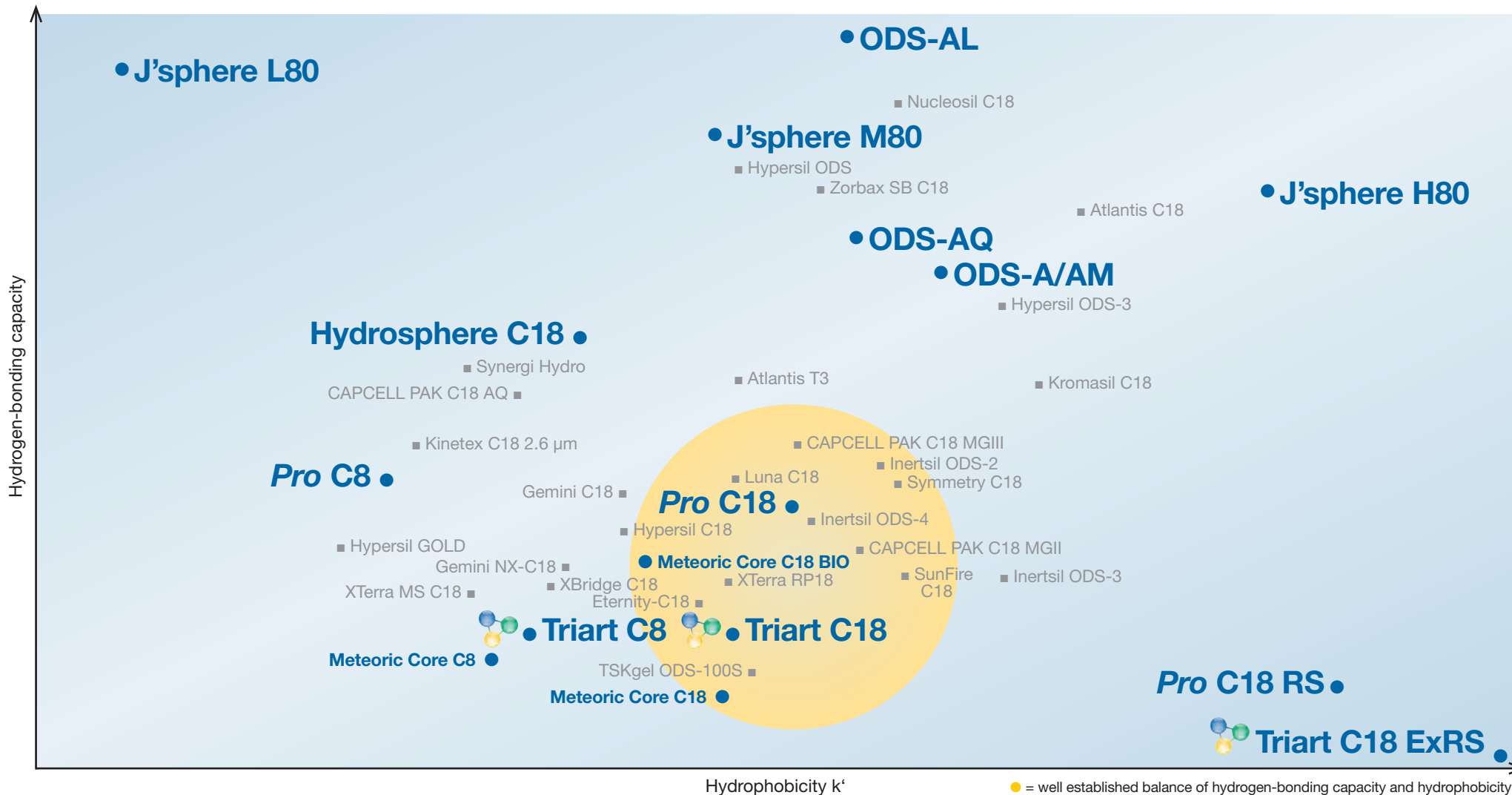


Analytical stationary phases routinely available from **YMC**

	PRODUCT	PHASE (silica-based unless stated)	END-CAPPED	USP CLASS NO.	PARTICLE SIZE (µm spherical)	PORE SIZE (nm)	CARBON LOAD (%C)	pH	TYPICAL APPLICATIONS	
Reversed Phase	C30	Carotenoid	—	L62	3, 5	proprietary	proprietary	2.0-7.5	isomeric carotenes, retinols, steroids, fat-soluble vitamins	
	C18	Triart C18 ExRS	pH-stable organic/inorganic hybrid particle for steric recognition	yes	L1	1.9, 3, 5	8	25	1.0-12.0	stereoisomers and hydrophobic analytes
		Triart C18	pH-stable organic/inorganic hybrid particle, 100% aqueous conditions possible	yes	L1	1.9, 3, 5	12	20	1.0-12.0	acidic, neutral, basic compounds, "versatile" stationary phase
		Pro C18	very low residual non-specific interactions	yes	L1	3, 5	12	16	2.0-8.0	antioxidants, metabolites
		UltraHT	2 µm Pro C18 for fast and ultra fast separations			2				
		Pro C18 RS	high carbon load with polymeric bonding C18	yes	L1	3, 5	8	22	1.0-10.0	acidic and basic compounds
		Hydrosphere C18	can be used in 100% aqueous eluent	yes	L1	3, 5	12	12	2.0-8.0	strong polar compounds, water-soluble vitamins
		UltraHT	2 µm Hydrosphere C18 for fast and ultra fast separations			2				
		Meteoric Core C18	silica based Core-Shell particle	yes	L1	2.7	8	7	1.5-10	basic, coordinating compounds, fast separations
		Meteoric Core C18 BIO	silica based Core-Shell particle	yes	L1	2.7	16	5	1.5-10	peptides, proteins, fast separations
		ODS-A	one of the YMC's international bestsellers	yes	L1	3, 5	12, 20, 30	17, 12, 7	2.0-7.5	general purpose phase
		ODS-AM	high performance C18 column for validated methods operation	yes	L1	3, 5	12	17	2.0-7.5	purines, phenols, PTC-amino acids, angiotensins, alkaloids
		ODS-AQ	"hydrophilic" endcapping, for 100% aqueous eluent systems	yes	L1	3, 5	12, 20	14, 10	2.0-7.5	strong polar compounds
	J'sphere ODS	C18-family with differently controlled hydrophobicity for method development	yes	L1	4	8	22, 14, 9 (JH, JM, JL)	1.0-9.0 (JH) 2.0-7.5 (JM+JL)	positional isomers, complexing agents, pharmaceuticals	
	ODS-AL	traditional C18 for "mixed mode" separations	no	L1	5	12	17	2.0-7.5	tocopherols, fat-soluble vitamins, disinfectants	
	PolymerC18	polymethacrylate matrix, wide pH applicability	—	—	6	proprietary	10	2.0-13.0	phenols, anilines, quaternary amines	
	C8	Triart C8	pH-stable organic/inorganic hybrid particle	yes	L7	1.9, 3, 5	12	17	1.0-12.0	acidic, neutral, basic and chelating compounds, metabolites, "versatile" stationary phase
		Pro C8	C8, with very low residual non-specific interactions	yes	L7	3, 5	12	10	2.0-7.5	acidic, neutral, basic and chelating compounds, drugs and metabolites
		Meteoric Core C8	silica based Core-Shell particle	yes	L7	2.7	8	5	1.5-9.0	basic, coordinating compounds, fast separations
C ₈ (Octyl)		traditional C8	yes	L7	3, 5	12, 20, 30	10, 7, 4	2.0-7.5	proteins and peptides, estrogens, general purpose phase	
YMCbasic		monomeric bonded chains of C8 and smaller	—	L7	3, 5	20	7	2.0-7.5	basic molecules w/o modifiers, anilines, alkaloids, antidepressants	
Ph (Phenyl)		monomeric bonded phenyl	yes	L11	3, 5	12, 30	9, 3	2.0-7.5	phenols, fullerenes, sweeteners	
C4	Triart Phenyl	polymeric bonding phenyl butyl, organic/inorganic hybrid particle	yes	L11	1.9, 3, 5	12	17	1.0-10.0	pharmaceuticals, sweeteners	
	Triart PFP	polymeric bonding PFP propyl, organic/inorganic hybrid particle	no	L43	1.9, 3, 5	12	15	1.0-8.0	halogenated and polar compounds	
	Pro C4	C4, with very low residual non-specific interactions	yes	L26	3, 5	12	7	2.0-7.5	polar acidic, neutral, basic and chelating compounds, polar peptides	
	C ₄ (Butyl)	traditional C4	yes	L26	3, 5	12, 20, 30	7, 5, 3	2.0-7.5	biological separations, polar compounds	
	Protein-RP	high stability, good recovery rates	—	L26	5	20	4	1.5-7.5	proteins, peptides	
	YMC-PAH	proprietary bonding chemistry	—	—	3, 5	proprietary	proprietary	2.0-8.0	polyaromatic hydrocarbons	
Normal Phase / HILIC	TMS (C1)	trimethyl silane	—	L13	3, 5	12	4	2.0-7.5	water-soluble vitamins	
	PVA-SIL	polyvinyl alcohol bonded on silica support	—	L24	5	12	—	2.0-9.5	phospholipids, retinoids, lipids	
	Polyamine II	mixed secondary and tertiary amino derivative	—	—	5	12	—	2.0-7.5	malto-oligosaccharides, tocopherols, nucleotides, sugars	
	NH ₂ (Amino)	primary amino derivate	—	L8	3, 5	12	—	2.0-7.5	sugars, nucleotides, water-soluble vitamins	
	CN (Cyano)	useful for SFC applications, can be used in RP mode	yes	L10	3, 5	12, 30	7, 3	2.0-7.5	proteins, steroids, catechols	
	Triart-Diol HILIC	versatile HILIC phase, organic/inorganic hybrid particle	—	L20	1.9, 3, 5	12	—	2.0-10.0	small organic molecules, water-soluble vitamins	
	Diol (DN)	versatile alternative to silica for normal phase separations	—	L20	5	6, 12	—	2.0-7.5	small organic molecules, fat-soluble vitamins, tocopherols	
	SIL (Silica)	ultra high purity, high mechanical stability	—	L3	3, 5	6, 12	—	2.0-7.5	small organic molecules, fat-soluble vitamins, tocopherols	
	IEX	BioPro QA / SP	high ion exchange capacity, porous hydrophilic polymer	—	—	5	100	—	2.0-12.0	proteins, peptides, nucleotides
		BioPro QA-F / SP-F	high ion exchange capacity, non-porous hydrophilic polymer	—	—	3, 5	—	—	2.0-12.0	proteins, peptides, nucleotides
Chiral	SEC	Diol-60, -120, -200, -300	—	L20	3, 5	6, 12, 20, 30	—	5.0-7.5	peptides, proteins, malto-oligosaccharides	
	Chiral	Amylose-C	coated derivative [alternative to CHIRALPAK® AD-H, AD-3]	—	L51	3, 5	proprietary	—	—	chiral compounds in NP, SFC modes
		Cellulose-C	coated derivative [alternative to CHIRALCEL® OD-H, OD-3]	—	L40	3, 5	proprietary	—	—	chiral compounds in NP, SFC modes
		Amylose-SA	immobilised derivative [alternative to CHIRALPAK® IA, IA-3]	—	—	3, 5	proprietary	—	2.0-9.0	cis-trans and geometric isomers in NP, RP, SFC modes
		Cellulose-SB	immobilised derivative [alternative to CHIRALPAK® IB, IB-3]	—	—	3, 5	proprietary	—	2.0-9.0	cis-trans and geometric isomers in NP, RP, SFC modes
		Cellulose-SC	immobilised derivative [alternative to CHIRALPAK® IC, IC-3]	—	—	3, 5	proprietary	—	2.0-9.0	cis-trans and geometric isomers in NP, RP, SFC modes
		Amylose-SE	immobilised derivative [alternative to CHIRALPAK® IE, IE-3]	—	—	3, 5	proprietary	—	2.0-9.0	cis-trans and geometric isomers in NP, RP, SFC modes
		NEA (R)(S)	polymeric 1-naphthylethylamine	—	—	5	30	—	2.0-6.5	nonpolar to medium polar optical isomers for NP, RP modes
		α-, β-, γ-CD BR	α-, β-, γ-bromo-cyclodextrin	—	—	5	12	—	3.5-6.5	optical and positional isomers in RP mode

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YMC-Triart columns stand for:

- Versatility
- Flexibility in method development
- Long service life = High productivity
- Reproducibility