ANALYTICAL STATIONARY PHASES FOR RP-HPLC AND UHPLC FROM YMC

Reversed Phase		STATIONARY PHASE	PHASE CHARACTERISTICS (silica-based unless stated)	USP CLASS	PARTICLE SIZE (µm)	PORE SIZE (nm)	CARBON LOAD (%C)	pH RANGE	TYPICAL APPLICATIONS
	C30	YMC Carotenoid	specialty phase with proprietary polymeric bonding chemistry	L62	3, 5	proprietary	proprietary	2.0–7.5	isomeric carotenes, retinols, steroids, fat-soluble vitamins
	C18	YMC-Triart C18	organic/inorganic hybrid silica, most versatile phase	L1	1.9, 3, 5	12	20	1.0–12.0	acidic, neutral, basic compounds, medium polar compounds
		YMC-Triart C18 ExRS	organic/inorganic hybrid silica, steric recognition	L1	1.9, 3, 5	8	25	1.0–12.0	stereoisomers and hydrophobic analytes, fatty acids
		YMC-Triart Bio C18	organic/inorganic hybrid silica, widepore phase, medium hydrophobicity	L1	1.9, 3, 5	30	—	1.0–12.0	acidic, neutral, basic compounds
		YMC-Pack *Pro* C18	ultra-high purity silica, general purpose phase	L1	2, 3, 5	12	16	2.0–8.0	antioxidants, metabolites, APIs
		YMC-Pack *Pro* C18 RS	ultra-high purity silica, steric recognition	L1	3, 5	8	22	1.0–10.0	stereoisomers and hydrophobic analytes
		Hydrosphere C18	ultra-high purity silica, very polar phase	L1	2, 3, 5	12	12	2.0–8.0	strong polar compounds, water-soluble vitamins
		Meteoric Core C18	silica based Core-Shell phase for fast separation	L1	2.7	8	7	1.5–10	fast analysis of basic and coordinating compounds
		Meteoric Core C18 BIO	silica based widepore Core-Shell phase for fast separation	L1	2.7	16	5	1.5–10	fast analysis of peptides and small proteins
		YMC-Pack ODS-A	classical general purpose phase, different pore sizes	L1	3, 5	12, 20, 30 *	17, 12, 7	2.0–7.5	validated API methods
		YMC-Pack ODS-AM	classical general purpose phase for validated methods operation	L1	3, 5	12	17	2.0–7.5	purines, phenols, alkaloids
		YMC-Pack ODS-AQ	classical polar phase	L1	3, 5	12, 20	14, 10	2.0–7.5	strong polar compounds
		YMC-Pack ODS-AL	classical phase for „mixed mode“ separations	L1	5	12	17	2.0–7.5	tocopherols, fat-soluble vitamins, disinfectants
		J'Sphere ODS	specialty phase with controlled hydrophobicity for method development	L1	4	8	22, 14, 9 (JH, JM, JL)	1.0–9.0 (JH) 2.0–7.5 (JM/JL)	positional isomers, complexing agents
		YMC PAH	specialty phase designed for the analysis of PAHs	L118	3, 5	proprietary	proprietary	2.0–6.5	PAHs, PCBs
	C8	YMC-Triart C8	organic/inorganic hybrid silica, general purpose phase, medium hydrophobicity	L7	1.9, 3, 5	12	17	1.0–12.0	acidic, neutral, basic compounds
		YMC-Pack *Pro* C8	ultrahigh purity silica, general purpose phase, medium hydrophobicity	L7	3, 5	12	10	2.0–7.5	acidic, neutral, basic and chelating compounds, drugs/metabolites
		Meteoric Core C8	silica based Core-Shell phase, medium hydrophobicity	L7	2.7	8	5	1.5–9.0	fast analysis of basic and coordinating compounds
		YMC-Pack C8	classical general purpose phase with different pore sizes, medium hydrophobicity	L7	3, 5	12, 20, 30 *	10, 7, 4	2.0–7.5	proteins and peptides, estrogens
		YMCbasic	specialty phase for basic pharmaceuticals w/o need for ion pair modifiers	L7	3, 5	20	7	2.0–7.5	basic molecules, anilines, alkaloids, antidepressants
	⬡	YMC-Triart Phenyl	organic/inorganic hybrid silica, phenyl-butyl ligand	L11	1.9, 3, 5	12	17	1.0–10.0	aromatic compounds, pharmaceuticals, sweeteners
		YMC-Pack Ph (Phenyl)	classical phase, phenyl ligand	L11	3, 5	12, 30 *	9, 3	2.0–7.5	aromatic compounds, phenols, fullerenes, sweeteners
		YMC-Triart PFP	organic/inorganic hybrid silica, PFP-propyl ligand, steric recognition	L43	1.9, 3, 5	12	15	1.0–8.0	aromatic stereoisomers, halogenated and polar compounds
	C4	YMC-Triart Bio C4	organic/inorganic hybrid silica, low hydrophobicity, widepore phase	L26	1.9, 3, 5	30	—	1.0–10.0	proteins, antibodies, peptides
		YMC-Pack *Pro* C4	ultra-high purity silica, general purpose phase, low hydrophobicity	L26	3, 5	12	7	2.0–7.5	polar acidic, neutral, basic and chelating compounds
		YMC-Pack C4	classical phase, different pore sizes, low hydrophobicity	L26	3, 5	12, 20, 30 *	7, 5, 3	2.0–7.5	biological separations, polar compounds
	C1	YMC-Pack TMS (C1)	classical phase, very low hydrophobicity	L13	3, 5	12	4	2.0–7.5	water-soluble vitamins
	CN	YMC-Pack CN	classical phase, useful for SFC applications	L10	3, 5	12, 30 *	7, 3	2.0–7.5	steroids, catechols

*not all combinations of particle and pore size are available

C% high hydrobhobicity · pH high pH stability · high temperature stability · 100% aqueous stable · BIO (optional) bioinert hardware available

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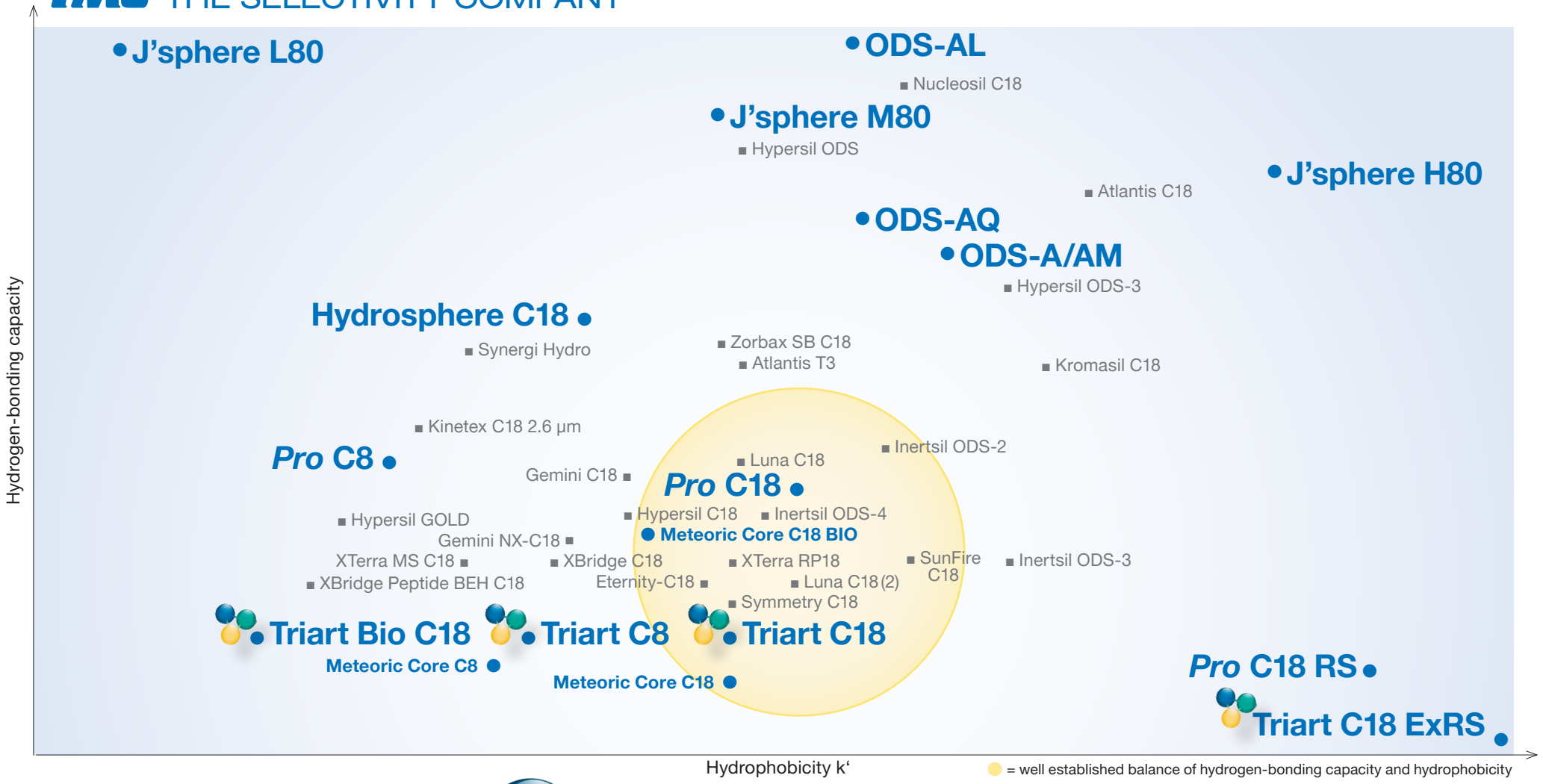
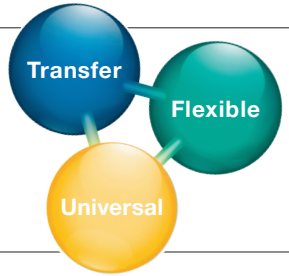
YMC THE SELECTIVITY COMPANY





YMC-Triart columns stand for:

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

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