

Analytical Stationary Phases for RP-HPLC and UHPLC

Reversed Phase

C% High hydrophobicity

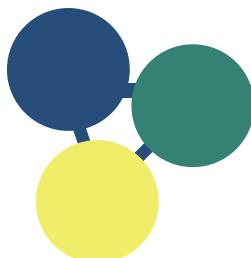
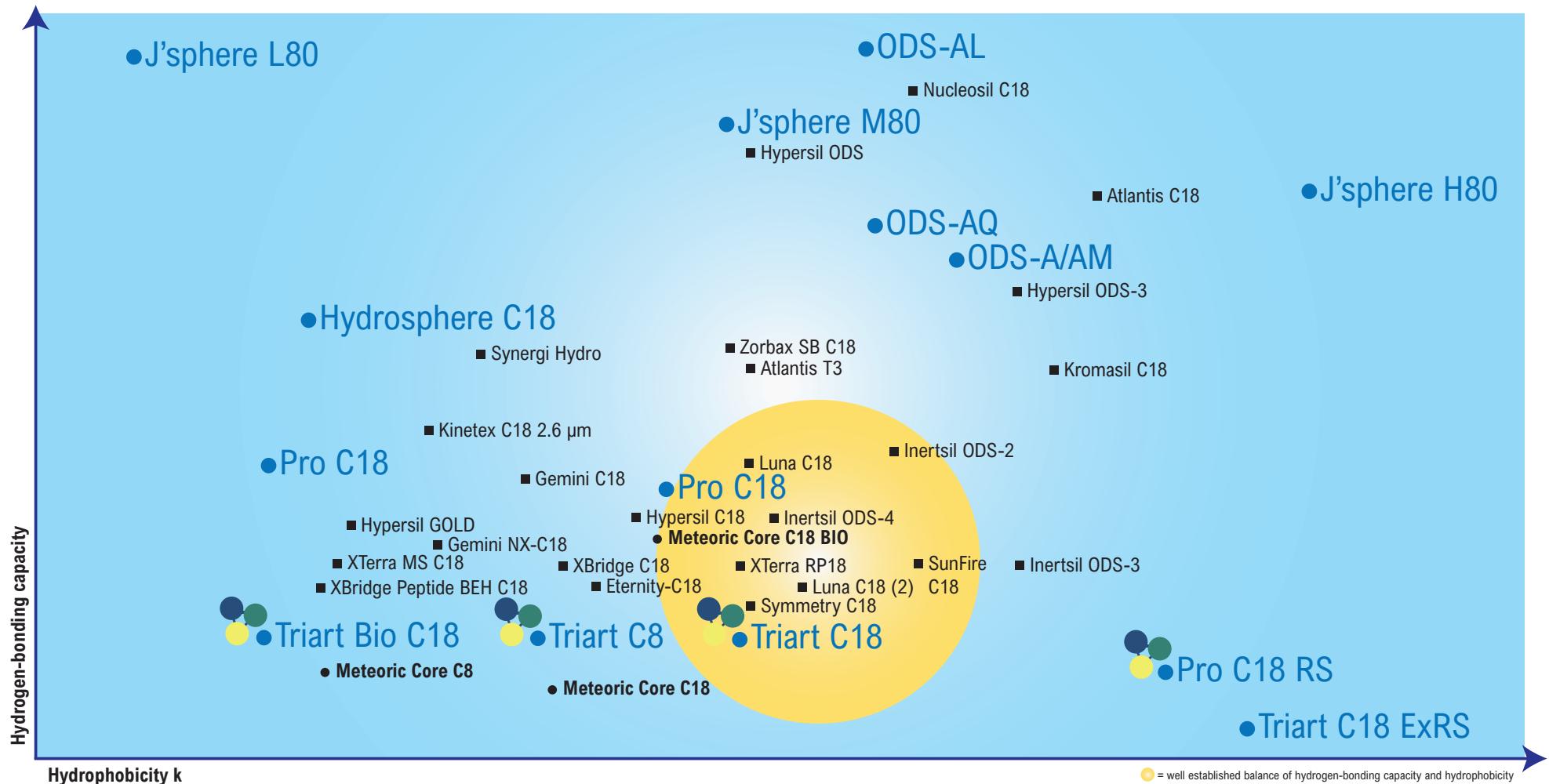
pH_{bH} High pH stability

OH 100% aqueous stable

OH Non-endcapped

Product	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	C%	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	C%	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	pH _{bH}	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	pH _{bH}	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-AO	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	C%	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-Pack Polymer C18	phase based on polymer matrix		—	6	proprietary	—	2.0-13.0 phenols, anilines, quaternary amines
	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	OH	L43	1.9, 3, 5	12	15	1.0-8.0 aromatic stereoisomers allogenated and polar compounds
C4	YMC-Triart Bio C4	organic/inorganic hybrid silica, low hydrophobicity, widepore phase	pH _{bH}	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	
	YMC-Pack PROTEIN-RP	specialty phase designed for high stability and good recovery rates	L26	5	20	4	1.5-7.5 proteins, peptides	
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



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



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