YMC — Triart HPLC and UHPLC COLUMNS

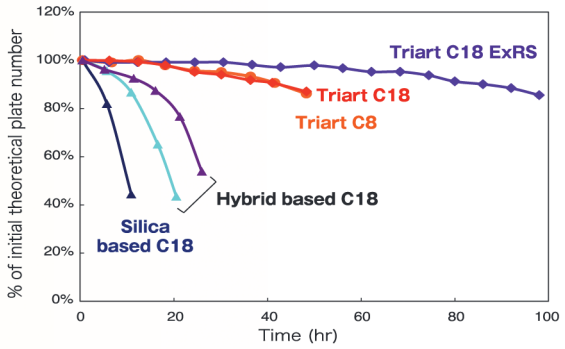
Rugged, inert columns last longer so you can run more samples.

Triart Columns – 9 Reasons to Use Triart Columns in Your Lab

Simplified HPLC method development

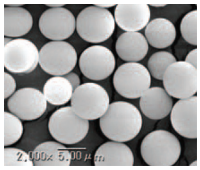
- Extreme chemical stability allows you to choose from a range of separation conditions to optimize selectivity without changing columns
- pH resistant from 1-12 (C8, C18 columns)
- Can be used with 0-100% organic or aqueous solvents
- Stable to 70°C
- High physical strength and a broad range of particle sizes allow columns to be used on a wide range of instruments
- Microreactor production avoids delamination of organic and inorganic layers
- 1000 MPa (bar) / 14,500 psi limit for UHPLC
- 1.9μm, 3μm, 5μm analytical columns and up to 50μm preparative columns
- YMC has increased the maximum temperature limit on Triart C4, C8 and C18 to 90°C from pH 1 - 7

Stability of Triart columns at high pH.
Conditions: Phosphate buffer (pH 11.5), 40°C.

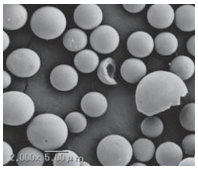


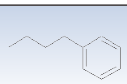
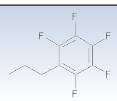
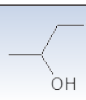
Avoid Delamination

Triart C18



Other Hybrid Particle



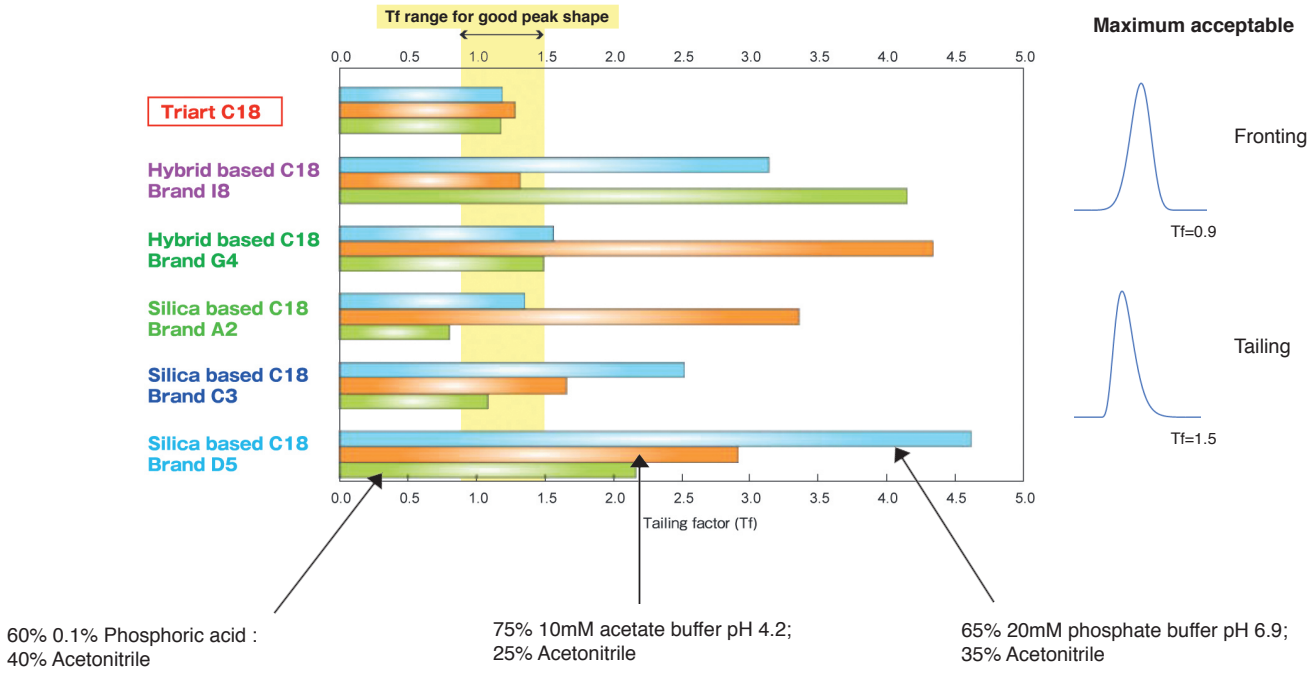
Mode	Reversed Phase							HILIC
Product name	C18 BIO	C4 BIO	C18	C18 ExRS	C8	Phenyl	PFP	Diol-HILIC
Base material	Multi-layered organic/inorganic hybrid							
Stationary phase	$-C_{18}H_{37}$	$-C_4H_9$	$-C_{18}H_{37}$	$-C_{18}H_{37}$ Trifunctional for Steric selectivity	$-C_8H_{17}$			
Bonding type	Polymeric							
Particle size	1.9 μm, 3 μm, 5 μm (plus preparative sizes)							
Pore size	300 Å		120 Å					
End-capping	Yes						No	No
Carbon loading	Proprietary	20%	20%	25%	17%	17%	15%	12%
pH range	1 - 12					1 - 10	1 - 8	2 - 10
Temperature limit (recommendation)	90°C to pH 1 - 7, 50°C to pH 12					50°C		
100% aqueous mobile phase compatibility	**Yes**	**Yes**	**Yes**	**No**	**No**	**Yes**	**Yes**	**-**

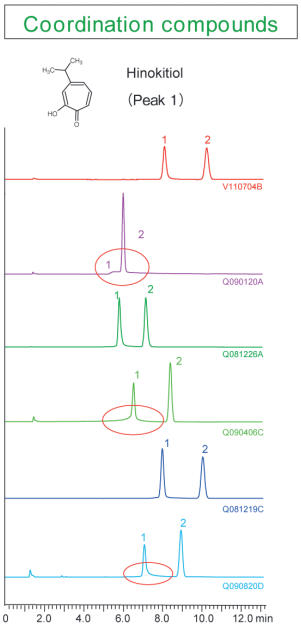
Make fewer compromises and simplify your HPLC method development.

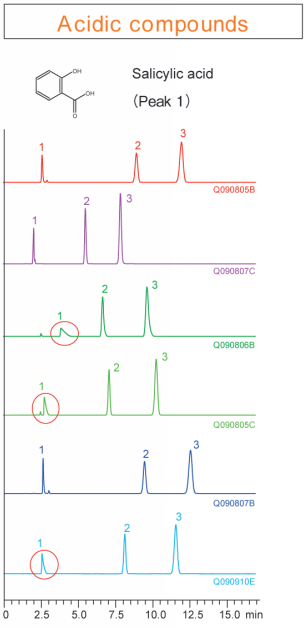
Contact our Technical Support Team for more information.

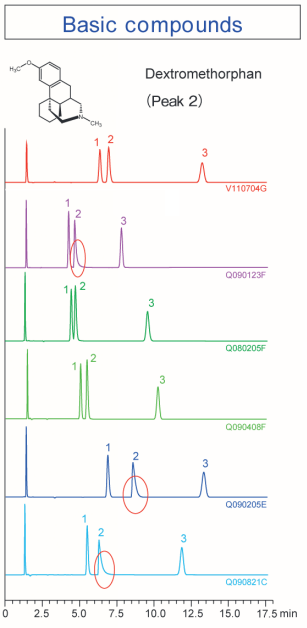
Excellent separations for even your most miserable analyses

Use pH where it's needed most: for selectivity, not to fix peak shape
Difficult analytes don't need complicated mobile phases to obtain symmetrical peaks. Triart is so inert, simple mobile phases provide excellent peak shapes even for acids, bases and metal chelators.









Triart is tested to work well for difficult analytes and conditions…Imagine what it can do with easy analytes!

To see Triart put to the test under more conditions, request Literature Code **YM10**, or visit **www.chromspec.com/ymc-triart**.