

Fast and high sensitivity UHPLC/MS columns

1 mm YMC-Triart

YMC
EUROPE GMBH
The Selectivity Company

Ideal choice for

- Low sensitivity compounds
- Low sample amounts
- High sensitivity LC/MS analyses
- Peptides / peptide mapping
- Oligonucleotides

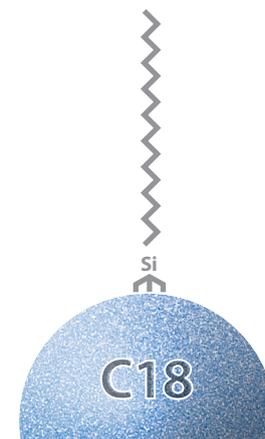
Features

- High performance 1 mm UHPLC columns
- High precision column hardware for reliable results
- Highly reproducible YMC-Triart phases in highly reproducible hardware
- Excellent peak shapes for high sensitivity LC-MS analyses
- Bringing MicroLC and UHPLC advantages together

Specifications

Particle size	1.9 µm
Pore size	12 nm
Modification	Trifunctional
Base particle	Organic/inorganic hybrid silica
pH range	1–12
Temperature range	pH < 7: 90 °C pH > 7: 50 °C
Pressure limit	100 MPa / 15,000 psi

YMC-Triart C18



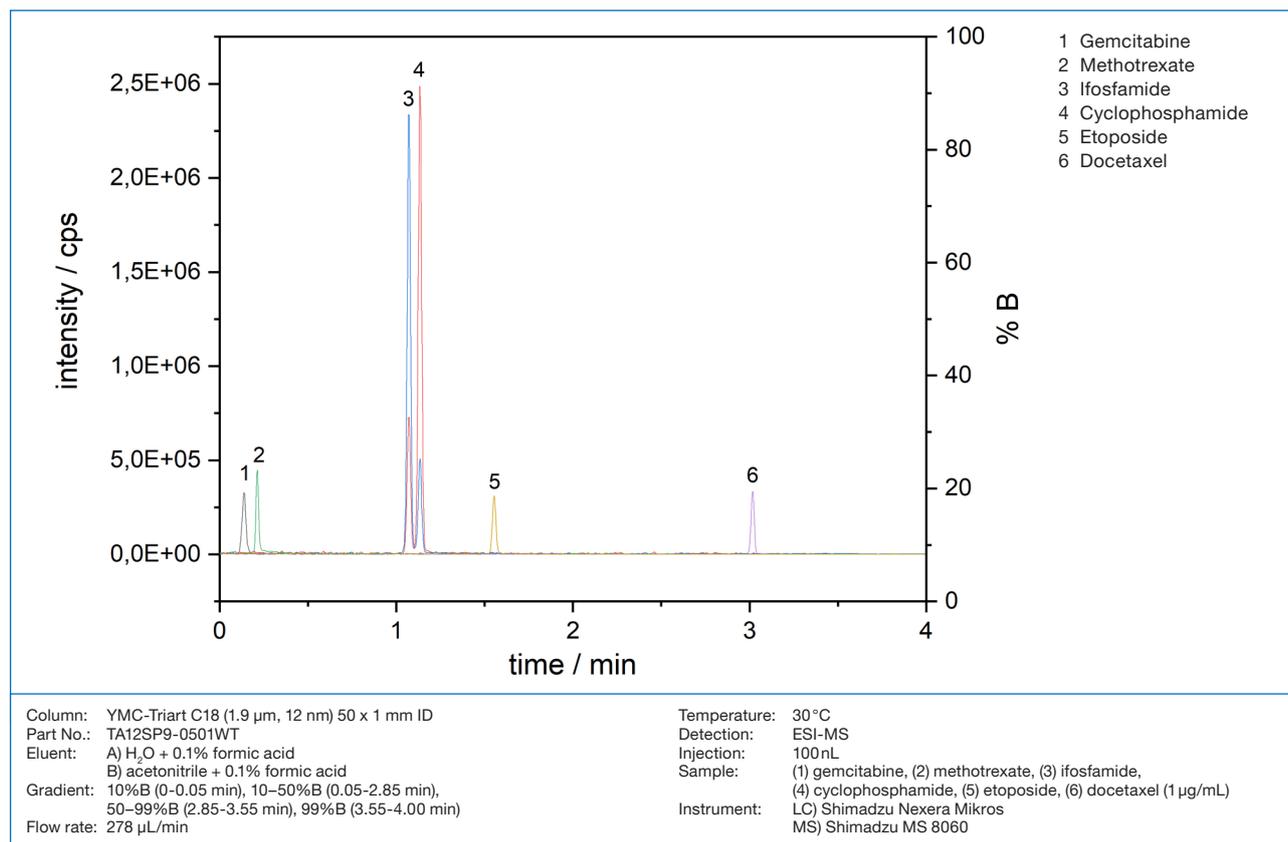
versatile applications

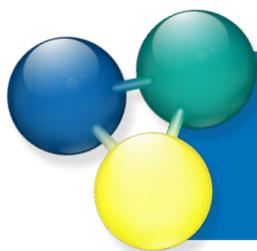
first choice for
method development

pH 1–12/90 °C max.

100% aqueous eluents

Ideal choice for high sensitivity screenings



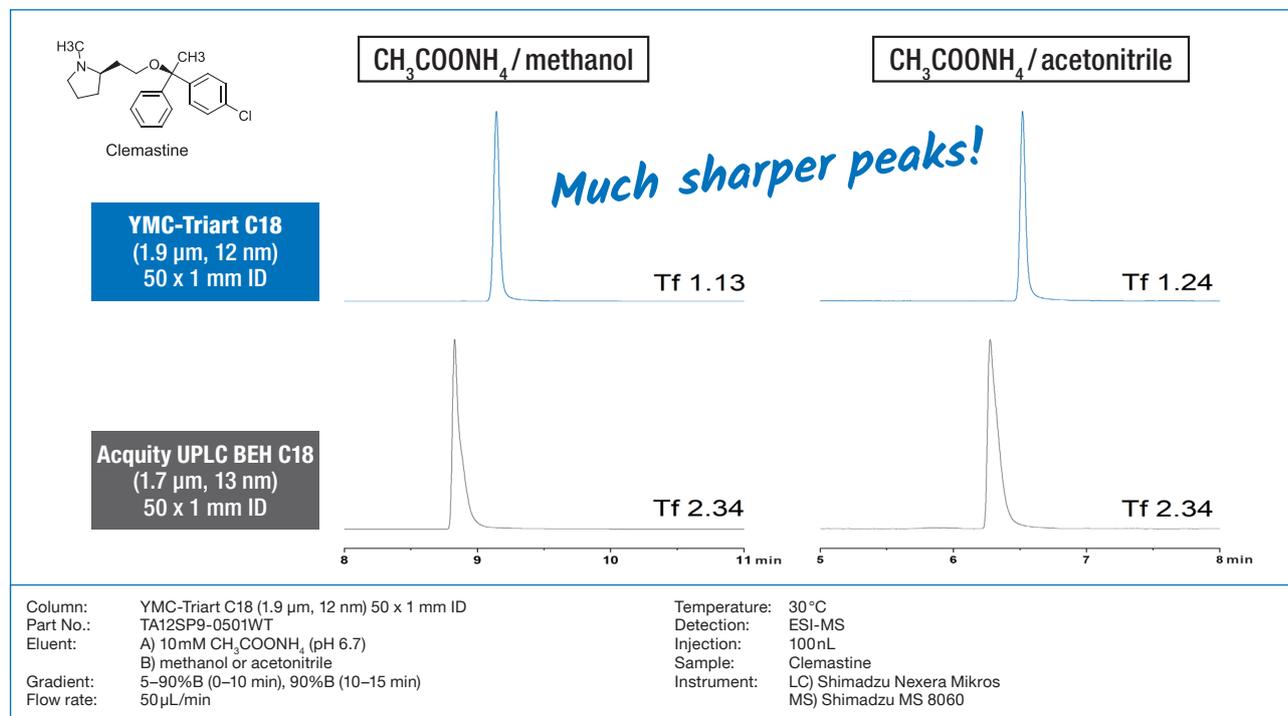


Fast and high sensitivity UHPLC/MS columns

1 mm YMC-Triart

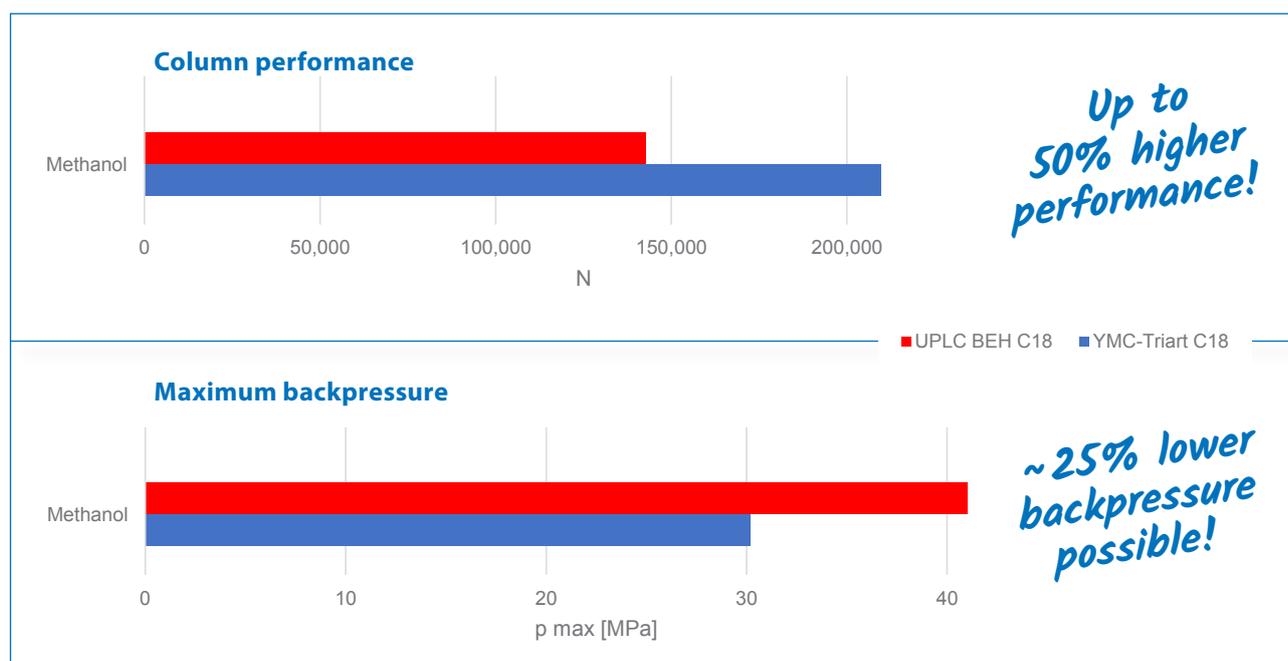
YMC
EUROPE GMBH
The Selectivity Company

Excellent peak shapes for challenging basic compounds



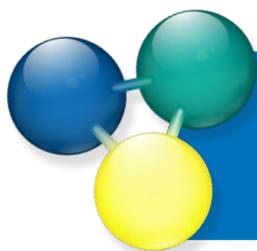
The well-known basic compound clemastine generally exhibits peak tailing. The YMC-Triart column shows sharp peaks using both organic modifiers, while an alternative column shows much higher tailing factors.

High performance and low back pressures



Application data by courtesy of: Tobias Werres, IUTA - Institut für Energie- und Umwelttechnik e.V., Duisburg, Germany.

The 1 mm YMC-Triart UHPLC column shows up to 50% higher performance together with a remarkably lower back pressure compared to the competitor column. This demonstrates the higher packing quality of the YMC-Triart column as well as the narrow particle size distribution.

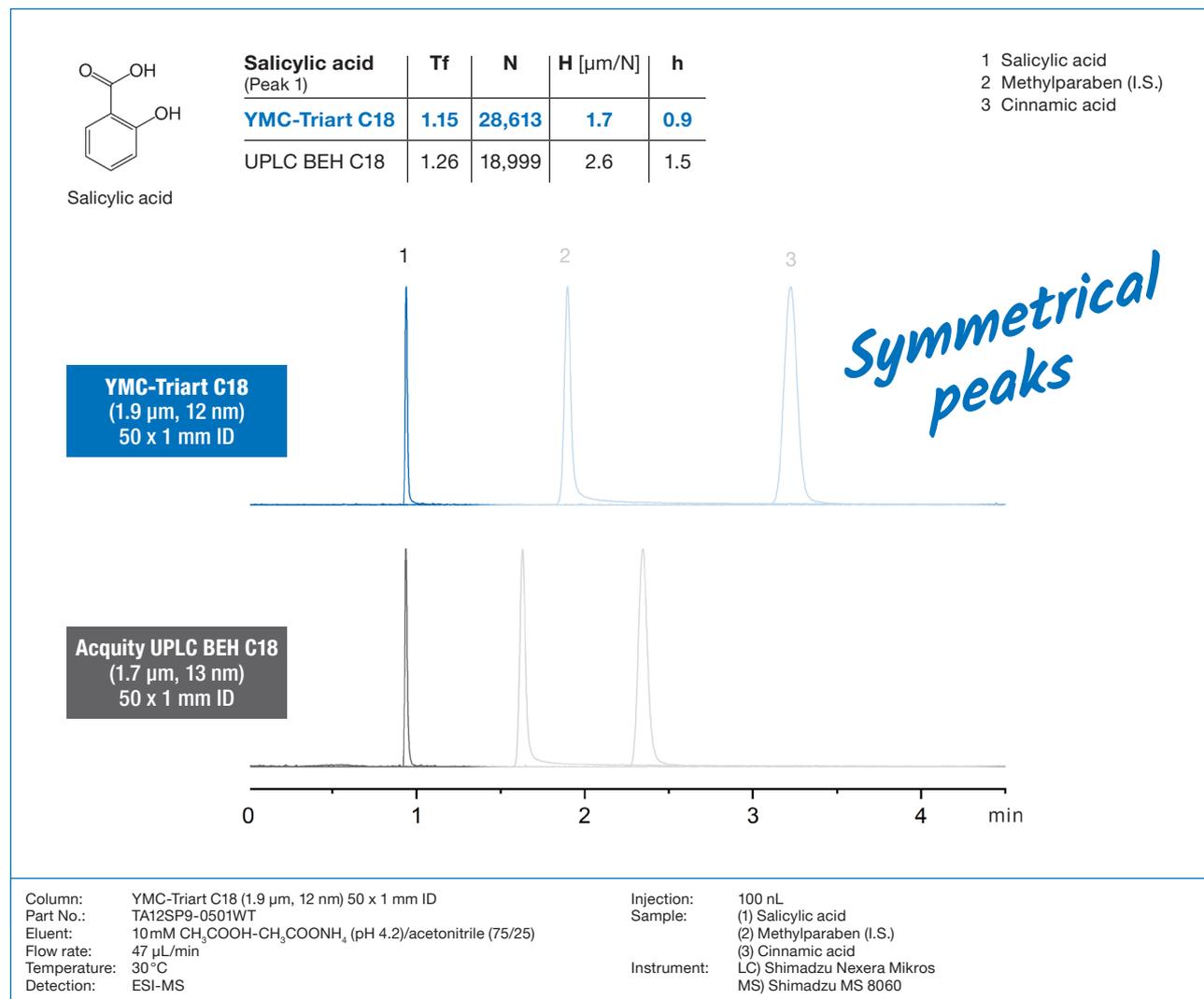


Fast and high sensitivity UHPLC/MS columns

1 mm YMC-Triart

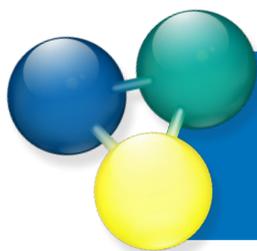
YMC
EUROPE GMBH
The Selectivity Company

Symmetrical peaks, higher performance and increased resolution



Application data by courtesy of: Tobias Werres, IUTA - Institut für Energie- und Umwelttechnik e.V., Duisburg, Germany.

YMC-Triart phases are synthesised using methodology adapted from micro-reactor technology. This technique ensures a reduction in impurities that contribute to peak tailing during the analysis of some types of acidic compounds.

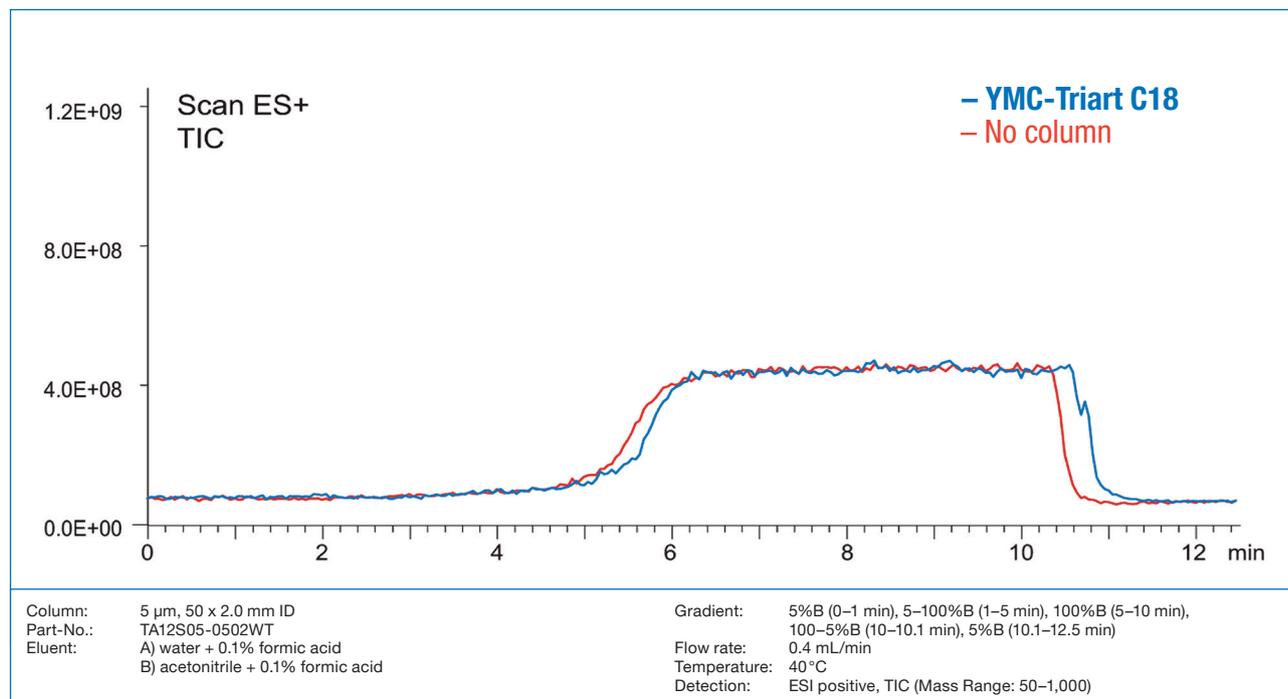


Fast and high sensitivity UHPLC/MS columns

1 mm YMC-Triart

YMC
EUROPE GMBH
The Selectivity Company

Full MS compatibility of YMC-Triart columns



Column bleeding, caused by the fragments from the stationary phase, is the main reason for background noise and restrictions on detection limits. No bleed is observed in the test of total ion current (TIC) measured by LC/MS with blank or with a YMC-Triart C18 column. In terms of the signal/noise ratio (S/N ratio), YMC-Triart C18 columns not only reduce the background noise but also increase the sensitivity of the analysis.

Ordering Information

YMC-Triart C18 UHPLC columns

Particle size [μ m]	Column ID [mm]	Column Length [mm]		
		50	100	150
1.9	1.0	TA12SP9-0501WT	TA12SP9-1001WT	TA12SP9-1501WT

Other YMC-Triart phases available on request.

YMC CO., LTD.

YMC Karasuma-Gojo Bld. 284 Daigo-cho,
Karasuma Nishiiru Gojo-dori Shimogyo-ku,
Kyoto 600-8106 Japan
Phone +81(0)75-342-4515, FAX +81(0)75-342-4550
www.ymc.co.jp

YMC Europe GmbH

Schöttmannshof 19
D-46539 Dinslaken
Germany
Phone +49(0)2064/427-0, FAX +49(0)2064/427-222
www.ymc.de

YMC Schweiz GmbH

Im Wasenboden 8
4056 Basel
Phone + 41 61 561 80 50, Fax + 41 61 561 80 59
www.ymc-schweiz.ch