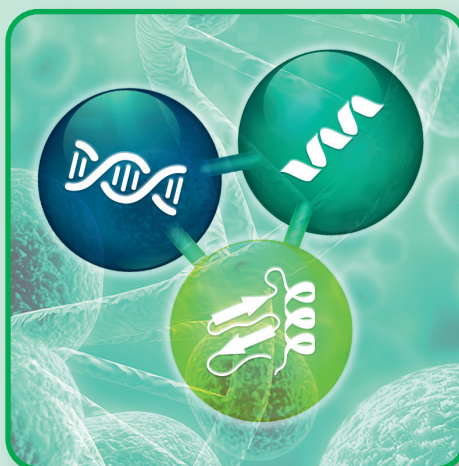




Bioinert Columns

YMC Accura Triart

Oligonucleotides
Peptides/proteins
Metal coordinating
compounds



Highly accurate results
Exceptional peak shapes
Excellent recoveries
No carry-over

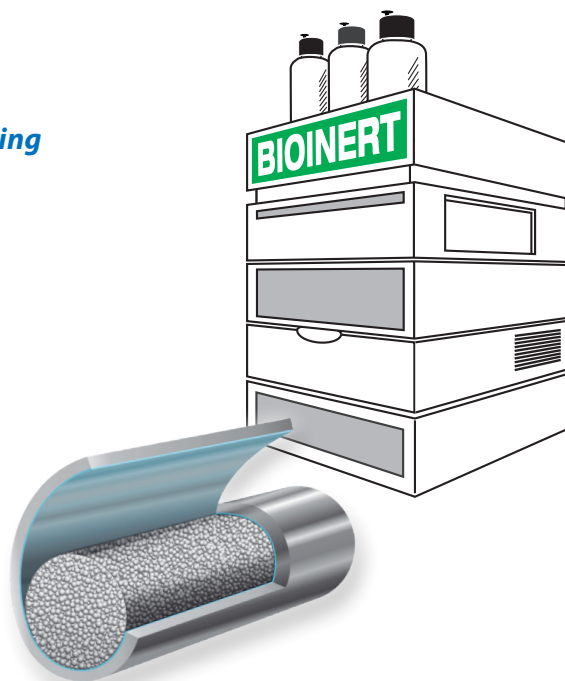
Bioinert coated YMC Accura Triart

Features

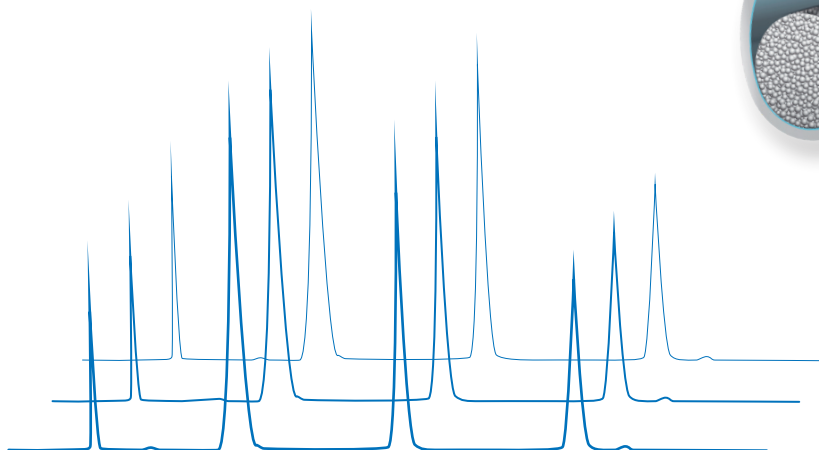
- *Exceptional peak shapes with high sensitivities*
- *Excellent recoveries without column preconditioning*
- *Superior reproducibility and no carry-over effects*
- *Ideal for highly sensitive LC/MS analyses*
- *New surface coated hardware*

Ideal choice for

- *Oligonucleotides, nucleotides*
- *Peptides and proteins*
- *Metal coordinating compounds*



*Reliable results
without
preconditioning!*



Specifications

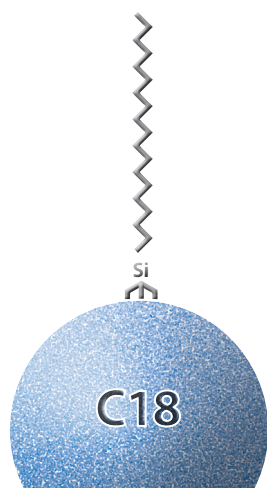
YMC-Triart Phases	C18, C18 ExRS, Bio C18, C8, Bio C4, Phenyl, PFP, Diol-HILIC
Particle Size	1.9, 3, 5 μm
Hardware	Bioinert coated stainless steel (all wetted parts incl. frits)
Pressure Limit	1.9 μm : 100 MPa / 1,000 bar / 15,000 psi 3/5 μm : 45 MPa / 450 bar / 6,525 psi
Column Connection	No special connections required

YMC Accura Triart columns are an alternative to the already existing YMC-Triart metal-free, PEEK-lined columns from YMC. As the used column coating is less hydrophobic compared to the PEEK-lining, **YMC Accura** columns are the ideal choice for e.g. more hydrophobic peptides which tend to show pronounced interactions with PEEK.

Available inert stationary phases

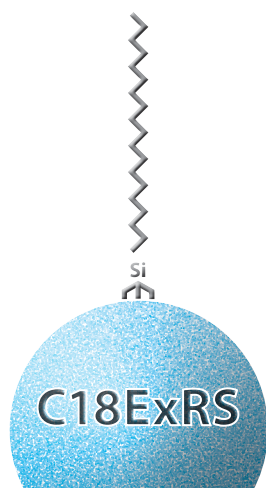
YMC

YMC-Triart C18



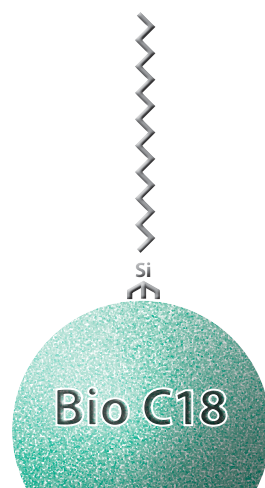
versatile applications
first choice for
method development
pH 1–12/90 °C max.
100% aqueous eluents ✓

YMC-Triart C18 ExRS



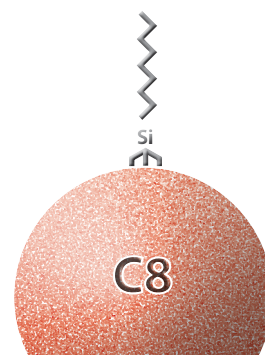
extended pH and stability
hydrophobic substances
positional isomers
pH 1–12/90 °C max.

YMC-Triart Bio C18



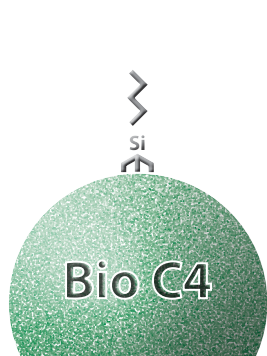
peptides/proteins/
oligonucleotides
300 Å widepore
pH 1–12/90 °C max.
100% aqueous eluents ✓

YMC-Triart C8



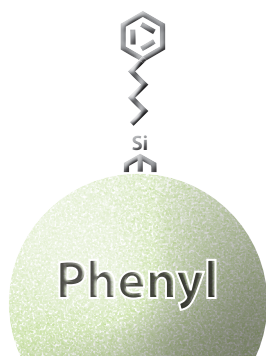
alternative to C18
short retention time
pH 1–12/90 °C max.

YMC-Triart Bio C4



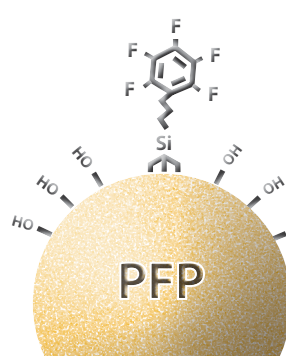
proteins/antibodies/peptides
300 Å widepore
pH 1–10/90 °C max.
100% aqueous eluents ✓

YMC-Triart Phenyl



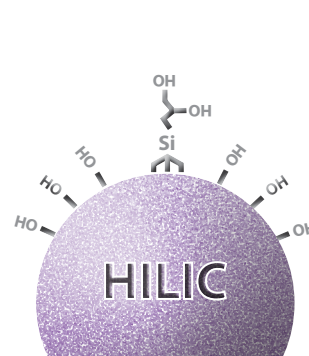
aromatic compounds
(π -electron donor)
conjugated systems
100% aqueous eluents ✓

YMC-Triart PFP



aromatic compounds
(π -electron donor)
cis-trans isomers
polar halogenated
compounds
100% aqueous eluents ✓

YMC-Triart Diol-HILIC

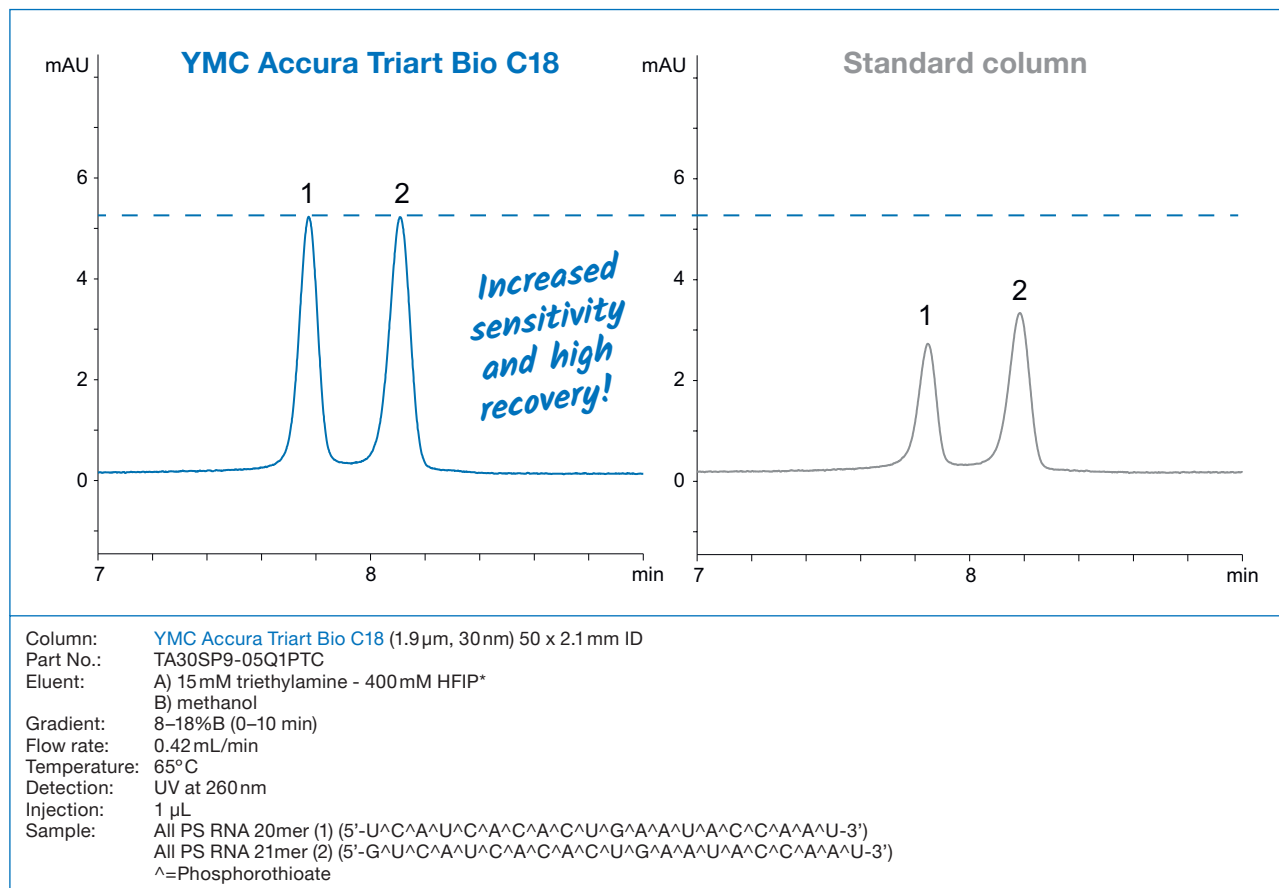


very polar compounds
less ionic adsorption
ideal choice for SFC
100% aqueous eluents ✓

Ensured sensitivity and recovery

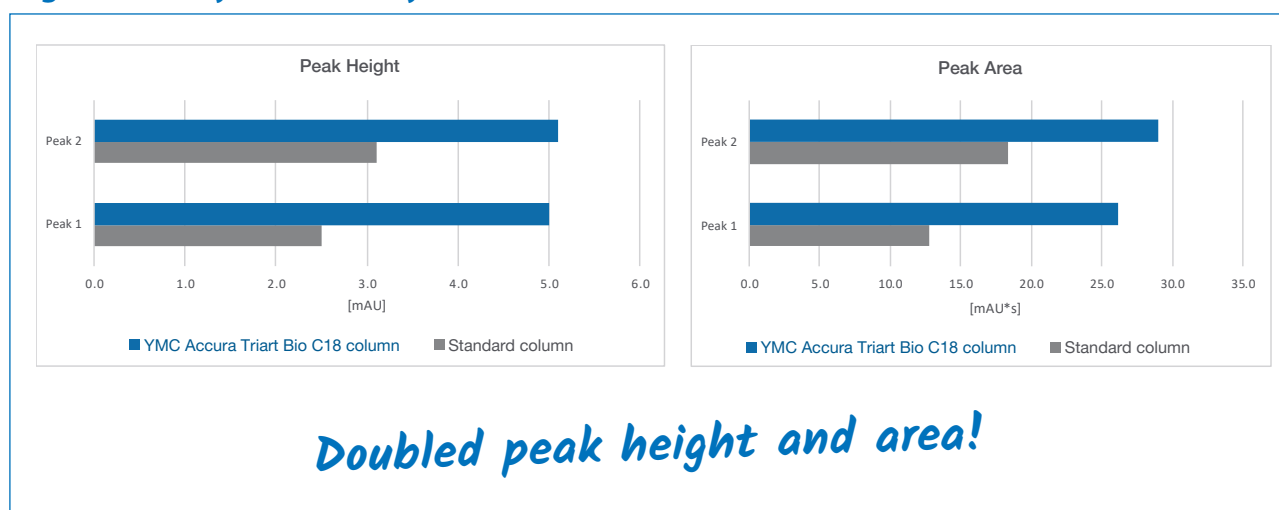


Ideal choice for challenging analytes such as phosphorothioate oligonucleotides



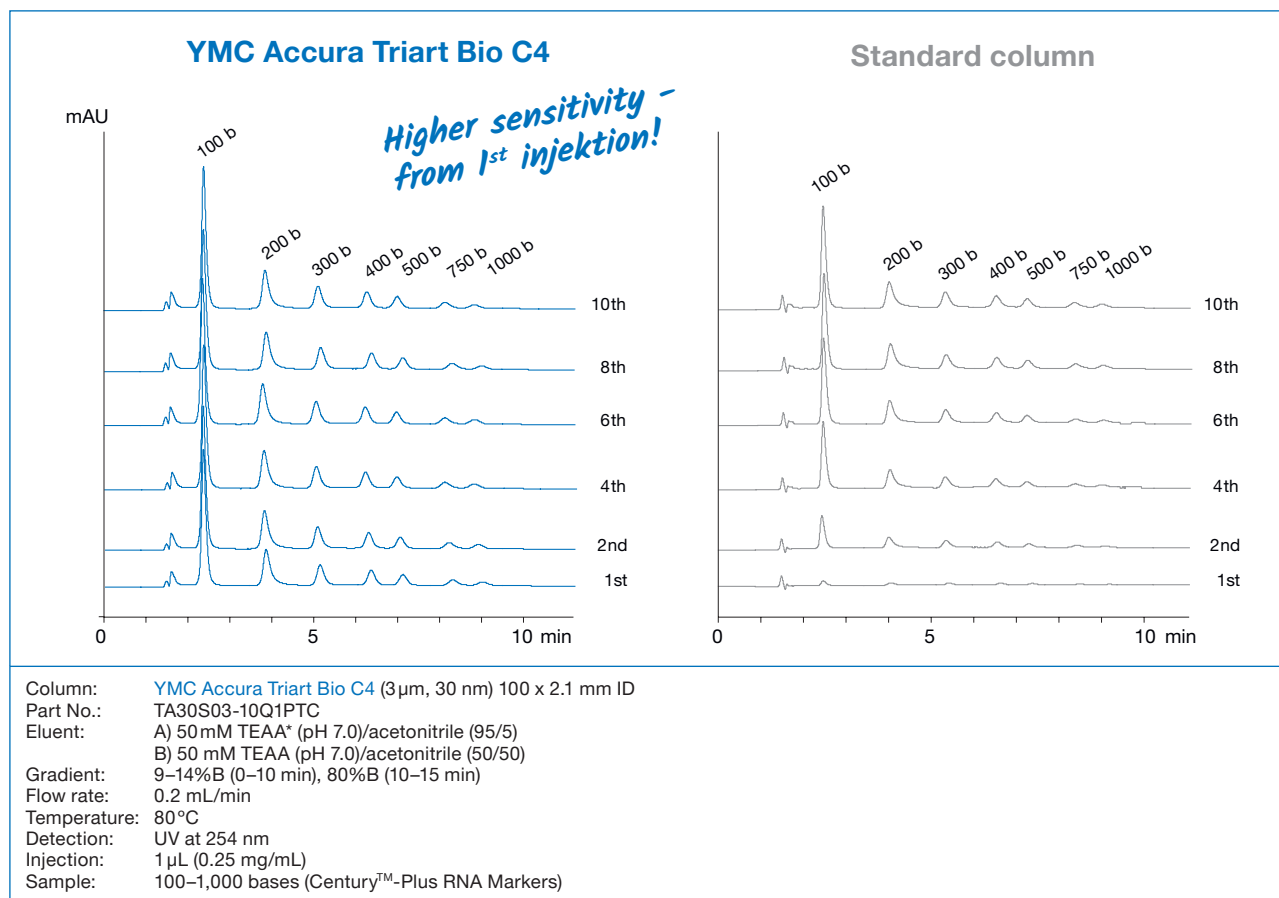
*1,1,1,3,3,3-hexafluoro-2-propanol

High sensitivity and recovery



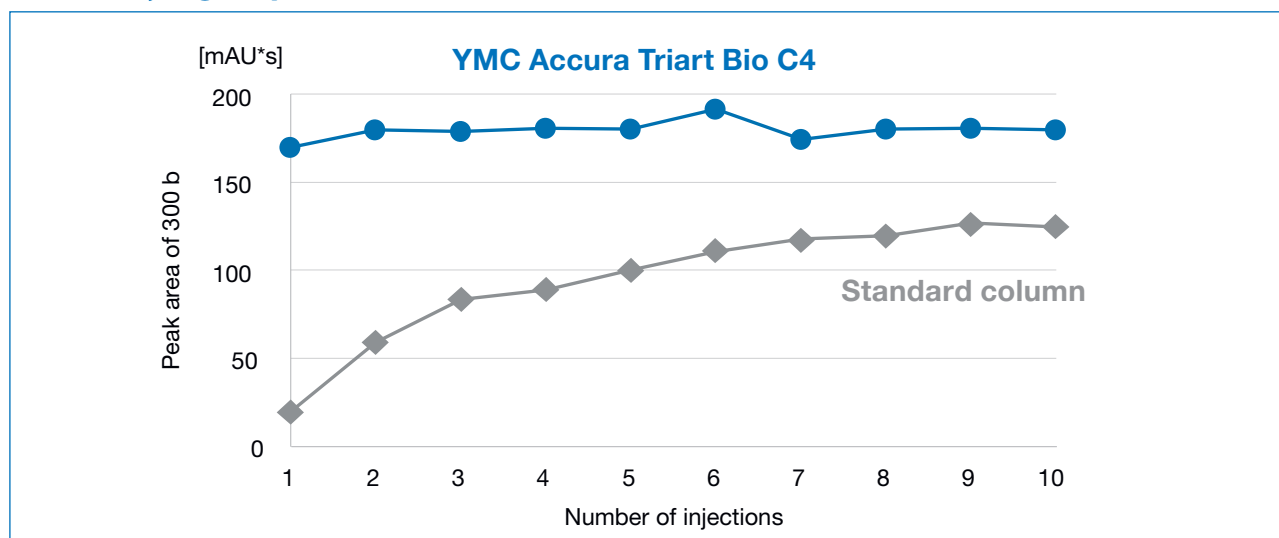
The **YMC Accura Triart Bio C18** column provides double peak heights and peak areas for the oligonucleotides compared to those for regular stainless-steel columns. **YMC Accura Triart** columns enhance the sensitivity significantly and help to save precious samples without any loss.

No preconditioning required for reliable results from the 1st injection



* Triethylammonium acetate

Constantly higher peak areas and therefore recoveries

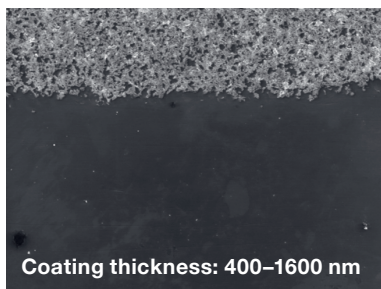


The **YMC Accura Triart Bio C4** column shows stable peak areas from the first injection, while the standard stainless-steel column provides only 10% of the peak area (for the 300 base marker) with the first injection. Even after the tenth injection, the peak areas of the stainless-steel column are considerably less than those of the **YMC Accura Triart** column.

Robust coating for high inertness

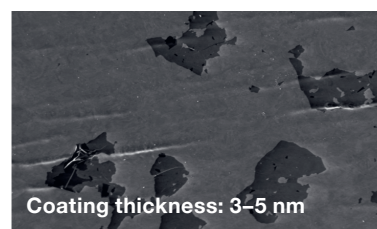
YMC

Durable bioinert coating



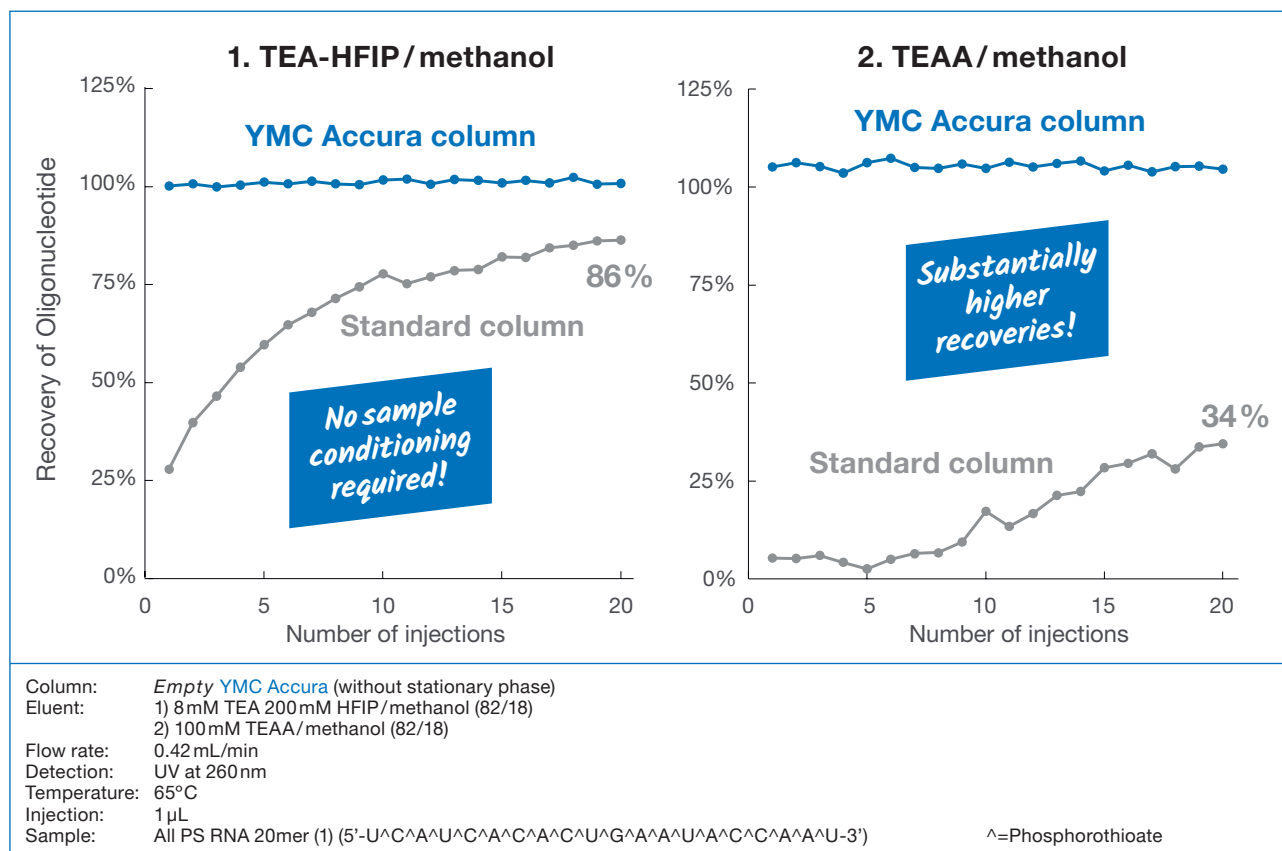
The robust bioinert coating used on **YMC Accura** hardware is 130 to 320-fold thicker making it more durable than other similar hardware concepts. A long-term inertness against sensitive substances is ensured. In order to demonstrate its robustness, a **YMC Accura** column was packed multiple times. Even though this is quite a challenge for the column surface, the coating remains unaffected (SEM* picture: top area is bare steel for comparison).

Other coated columns can lose their inertness over time. This will again lead to adsorption of sensitive compounds on the uncovered metallic surfaces. Peak tailing, loss of recovery and sample carry-over are typical results of the delamination of the coating. After only unpacking a coated competitor column most of the coating is already delaminated (dark spots: remaining coating).



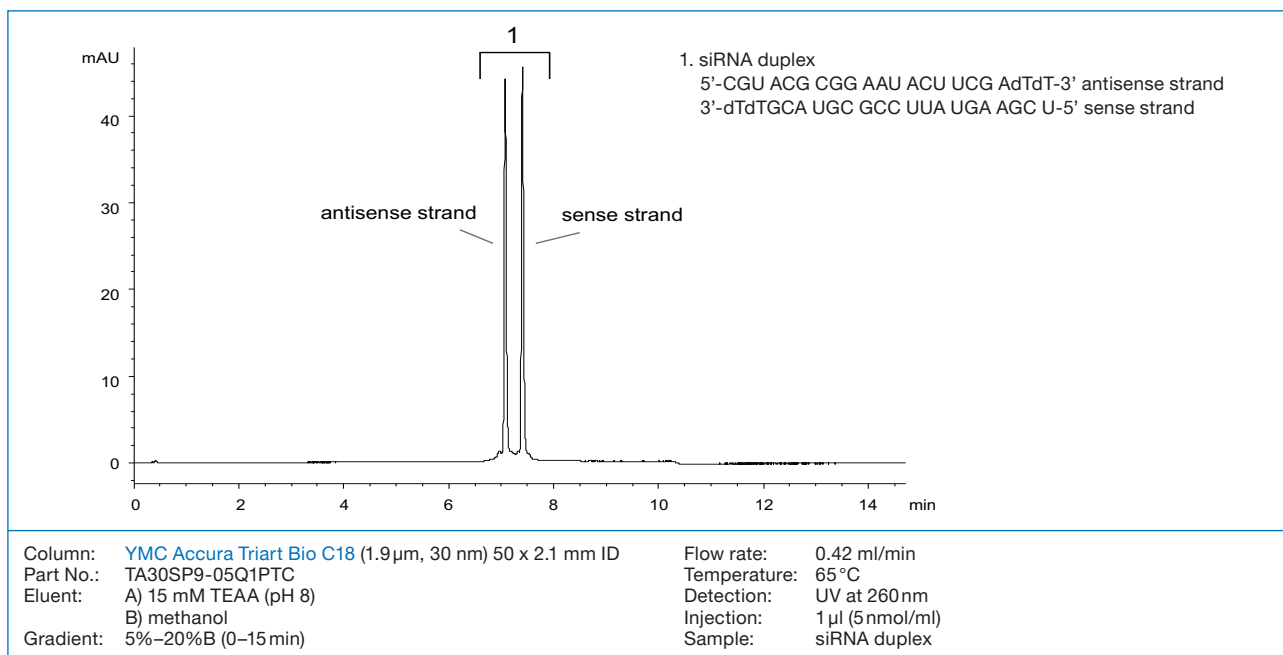
*Scanning Electron Microscope

High surface inertness without any adsorption

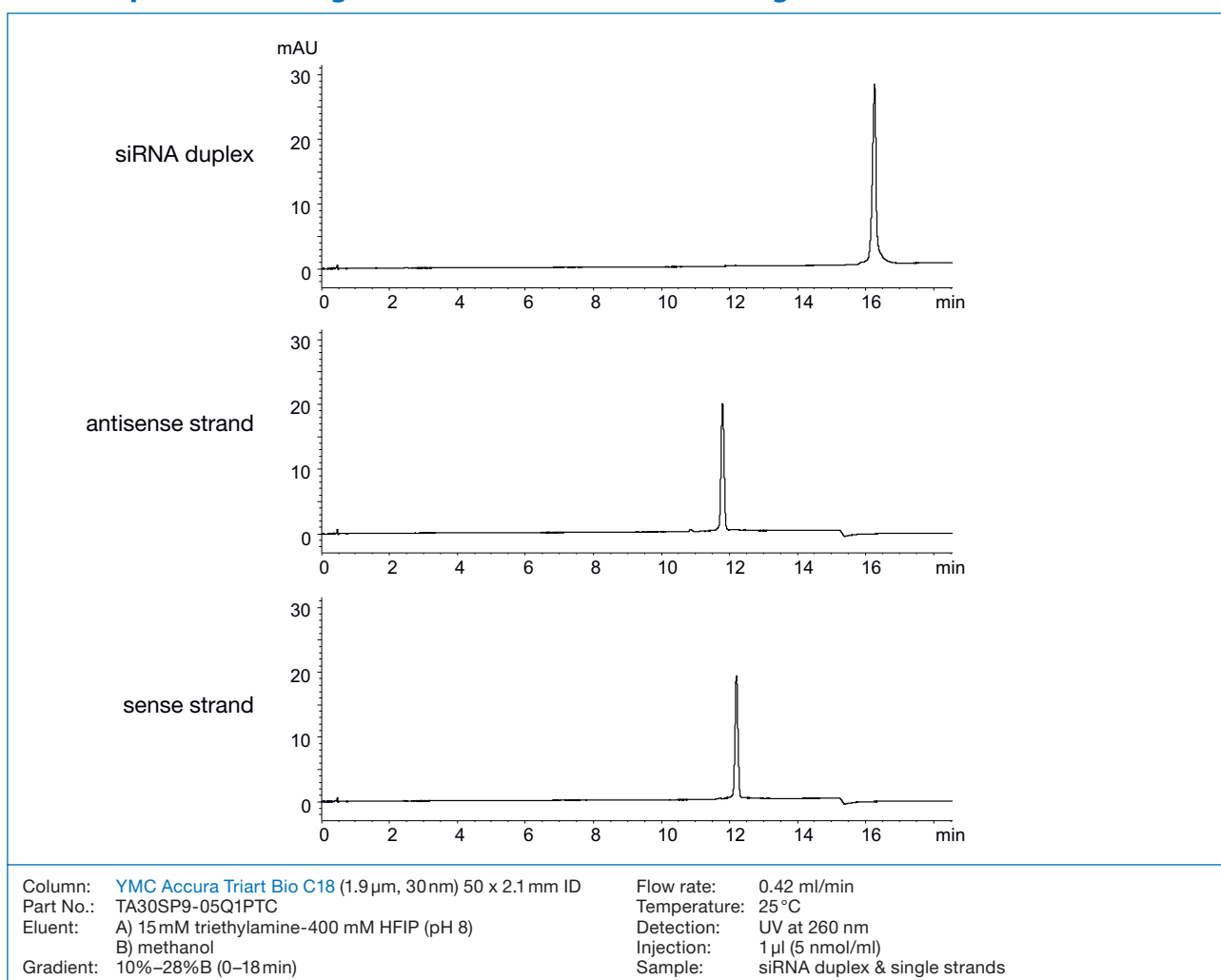


The **YMC Accura** hardware with its inert surface area prevents adsorption of oligonucleotides using a range of different buffers. No sample conditioning is required. **YMC Accura** columns further provide significantly higher recoveries and sensitivities that cannot be achieved with regular stainless steel columns – even after conditioning with 20 sample injections. These ready-to-use columns ensure high recovery and reproducibility from the very first use.

siRNA duplex under denaturing conditions



siRNA duplex and its single strands under non-denaturing conditions



Ordering information



YMC Accura Triart 1.9 µm UHPLC columns (max. pressure 100 MPa)

Phase	Column ID (mm)	Column length (mm)		
		50	100	150
C18	2.1	TA12SP9-05Q1PTC	TA12SP9-10Q1PTC	TA12SP9-15Q1PTC
C18 ExRS	2.1	TAR08SP9-05Q1PTC	TAR08SP9-10Q1PTC	TAR08SP9-15Q1PTC
Bio C18	2.1	TA30SP9-05Q1PTC	TA30SP9-10Q1PTC	TA30SP9-15Q1PTC
C8	2.1	TO12SP9-05Q1PTC	TO12SP9-10Q1PTC	TO12SP9-15Q1PTC
Bio C4	2.1	TB30SP9-05Q1PTC	TB30SP9-10Q1PTC	TB30SP9-15Q1PTC
Phenyl	2.1	TPH12SP9-05Q1PTC	TPH12SP9-10Q1PTC	TPH12SP9-15Q1PTC
PFP	2.1	TPF12SP9-05Q1PTC	TPF12SP9-10Q1PTC	TPF12SP9-15Q1PTC
Diol-HILIC	2.1	TDH12SP9-05Q1PTC	TDH12SP9-10Q1PTC	TDH12SP9-15Q1PTC

YMC Accura Triart 3 µm HPLC columns (max. pressure 45 MPa)

Phase	Column ID (mm)	Column length (mm)		
		50	100	150
C18	2.1	TA12S03-05Q1PTC	TA12S03-10Q1PTC	TA12S03-15Q1PTC
	4.6	TA12S03-0546PTC	TA12S03-1046PTC	TA12S03-1546PTC
C18 ExRS	2.1	TAR08S03-05Q1PTC	TAR08S03-10Q1PTC	TAR08S03-15Q1PTC
	4.6	TAR08S03-0546PTC	TAR08S03-1046PTC	TAR08S03-1546PTC
Bio C18	2.1	TA30S03-05Q1PTC	TA30S03-10Q1PTC	TA30S03-15Q1PTC
	4.6	TA30S03-0546PTC	TA30S03-1046PTC	TA30S03-1546PTC
C8	2.1	TO12S03-05Q1PTC	TO12S03-10Q1PTC	TO12S03-15Q1PTC
	4.6	TO12S03-0546PTC	TO12S03-1046PTC	TO12S03-1546PTC
Bio C4	2.1	TB30S03-05Q1PTC	TB30S03-10Q1PTC	TB30S03-15Q1PTC
	4.6	TB30S03-0546PTC	TB30S03-1046PTC	TB30S03-1546PTC
Phenyl	2.1	TPH12S03-05Q1PTC	TPH12S03-10Q1PTC	TPH12S03-15Q1PTC
	4.6	TPH12S03-0546PTC	TPH12S03-1046PTC	TPH12S03-1546PTC
PFP	2.1	TPF12S03-05Q1PTC	TPF12S03-10Q1PTC	TPF12S03-15Q1PTC
	4.6	TPF12S03-0546PTC	TPF12S03-1046PTC	TPF12S03-1546PTC
Diol-HILIC	2.1	TDH12S03-05Q1PTC	TDH12S03-10Q1PTC	TDH12S03-15Q1PTC
	4.6	TDH12S03-0546PTC	TDH12S03-1046PTC	TDH12S03-1546PTC

YMC Accura Triart 5 µm HPLC columns (max. pressure 45 MPa)

Phase	Column ID (mm)	Column length (mm)		
		50	100	150
C18	2.1	TA12S05-05Q1PTC	TA12S05-10Q1PTC	TA12S05-15Q1PTC
	4.6	TA12S05-0546PTC	TA12S05-1046PTC	TA12S05-1546PTC
C18 ExRS	2.1	TAR08S05-05Q1PTC	TAR08S05-10Q1PTC	TAR08S05-15Q1PTC
	4.6	TAR08S05-0546PTC	TAR08S05-1046PTC	TAR08S05-1546PTC
Bio C18	2.1	TA30S05-05Q1PTC	TA30S05-10Q1PTC	TA30S05-15Q1PTC
	4.6	TA30S05-0546PTC	TA30S05-1046PTC	TA30S05-1546PTC
C8	2.1	TO12S05-05Q1PTC	TO12S05-10Q1PTC	TO12S05-15Q1PTC
	4.6	TO12S05-0546PTC	TO12S05-1046PTC	TO12S05-1546PTC
Bio C4	2.1	TB30S05-05Q1PTC	TB30S05-10Q1PTC	TB30S05-15Q1PTC
	4.6	TB30S05-0546PTC	TB30S05-1046PTC	TB30S05-1546PTC
Phenyl	2.1	TPH12S05-05Q1PTC	TPH12S05-10Q1PTC	TPH12S05-15Q1PTC
	4.6	TPH12S05-0546PTC	TPH12S05-1046PTC	TPH12S05-1546PTC
PFP	2.1	TPF12S05-05Q1PTC	TPF12S05-10Q1PTC	TPF12S05-15Q1PTC
	4.6	TPF12S05-0546PTC	TPF12S05-1046PTC	TPF12S05-1546PTC
Diol-HILIC	2.1	TDH12S05-05Q1PTC	TDH12S05-10Q1PTC	TDH12S05-15Q1PTC
	4.6	TDH12S05-0546PTC	TDH12S05-1046PTC	TDH12S05-1546PTC

Your local contact:

