Bioinert columns for bioseparations and coordinating compounds

YMC EUROPE GMBH
The Selectivity Company

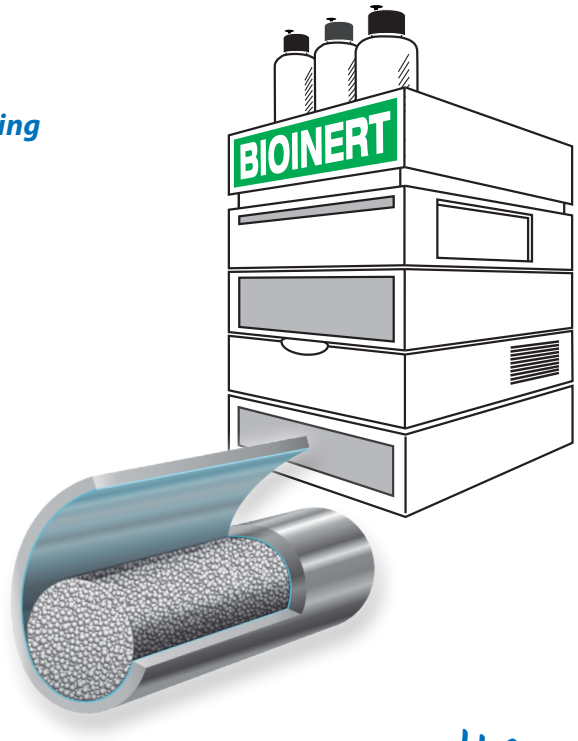
NEW Bioinert YMC-Accura Triart

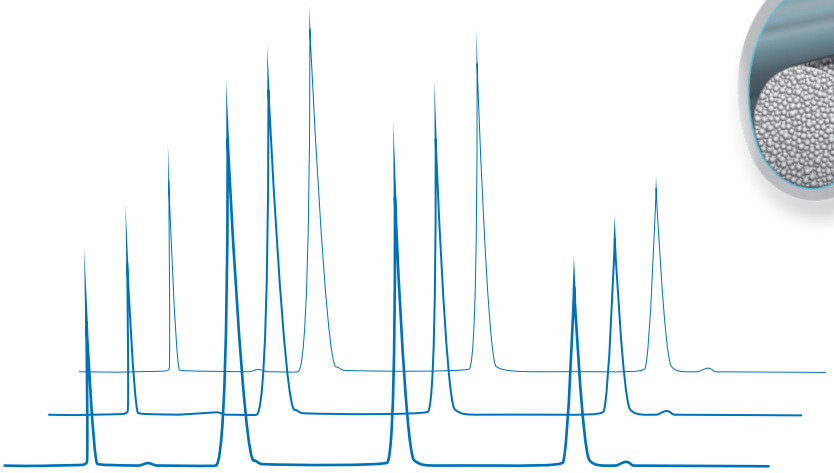
Features

- *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
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.

CPS analitica for Chemistry

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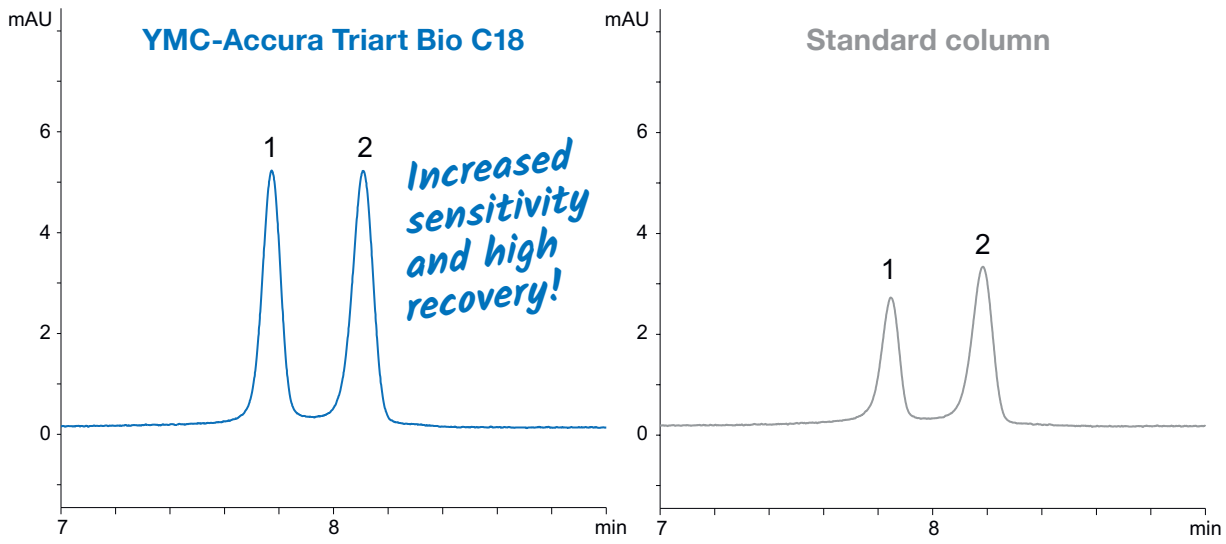
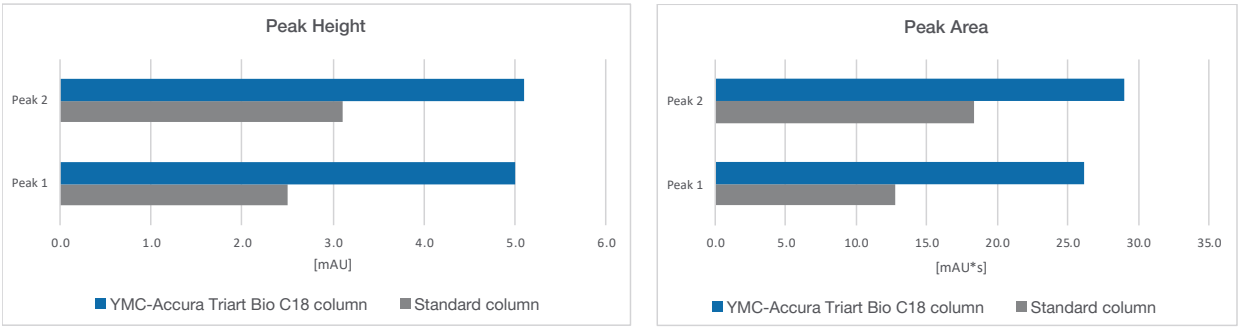
Ideal choice for challenging analytes such as phosphorothioate oligonucleotides



Column:	YMC-Accura Triart Bio C18 (1.9 µm, 30 nm), 50 x 2.1 mm ID
Part No.:	TA30SP9-05Q1PTC
Eluent:	A) 15 mM triethylamine - 400 mM HFIP*
	B) methanol
Gradient:	8–18%B (0–10 min)
Flow rate:	0.42 mL/min
Temperature:	65°C
Detection:	UV at 260 nm
Injection:	1 µL
Sample:	All PS RNA 20mer (1) (5'-U^C^A^U^C^A^C^A^C^U^G^A^A^U^A^C^C^A^A^U-3')
	All PS RNA 21mer (2) (5'-G^U^C^A^U^C^A^C^A^C^U^G^A^A^U^A^C^C^A^A^U-3')
	^=Phosphorothioate

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

High sensitivity and recovery



Doubled peak height and area!

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

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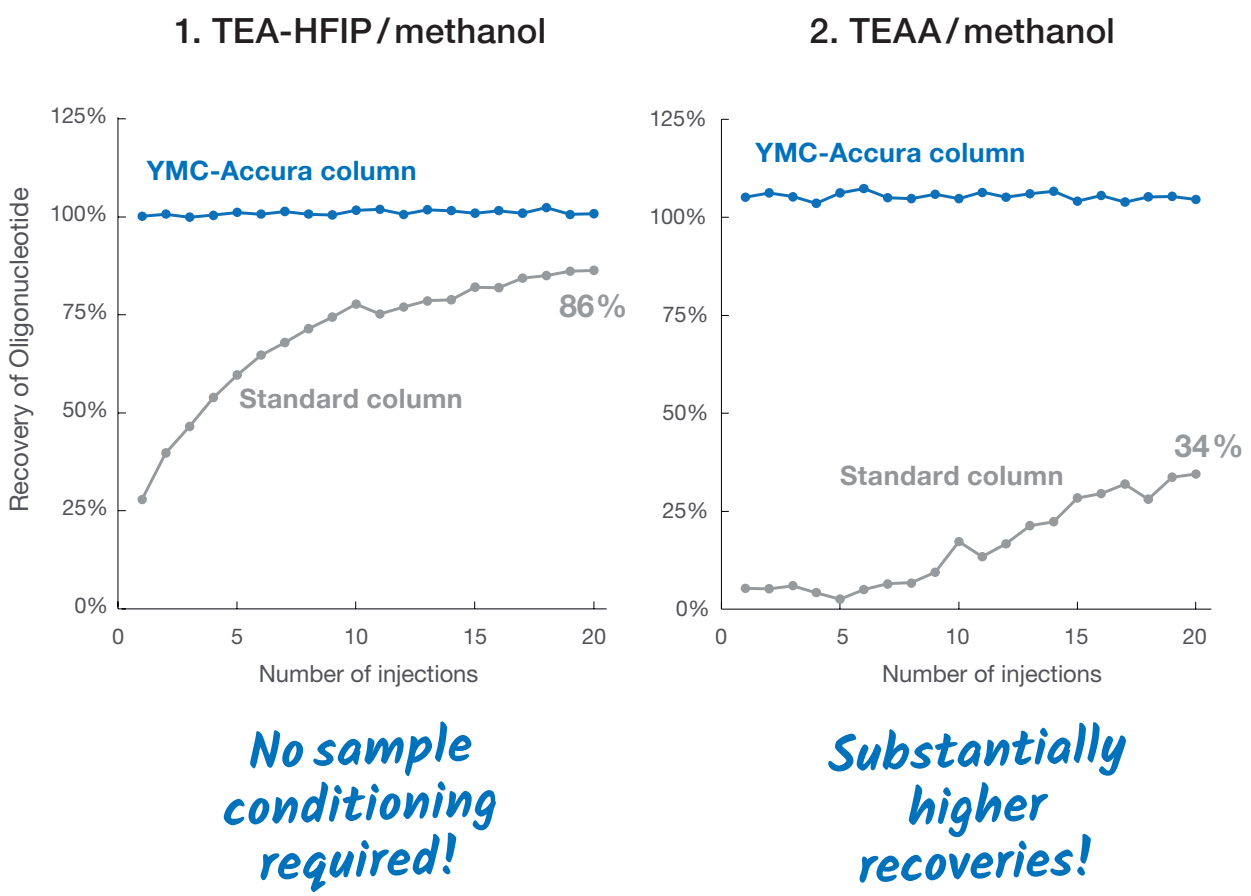
No preconditioning required due to high inertness of YMC-Accura columns



Column:	*Empty* YMC-Accura (without stationary phase)
Eluent:	1) 8 mM TEA 200 mM HFIP / methanol (82/18) 2) 100 mM TEAA* / methanol (82/18)
Flow rate:	0.42 mL/min
Detection:	UV at 260 nm
Temperature:	65°C
Injection:	1 µL
Sample:	All PS RNA 20mer (1) (5'-U^C^A^U^C^A^C^A^C^U^G^A^A^U^A^C^C^A^A^U-3') ^=Phosphorothioate

*Triethylaminoacetic acid

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.

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Ordering information

YMC-Accura Triart 1.9 µm UHPLC columns (max. pressure 1,000 bar)

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 450 bar)

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

YMC-Accura Triart 5 µm HPLC columns (max. pressure 450 bar)

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

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