YMC

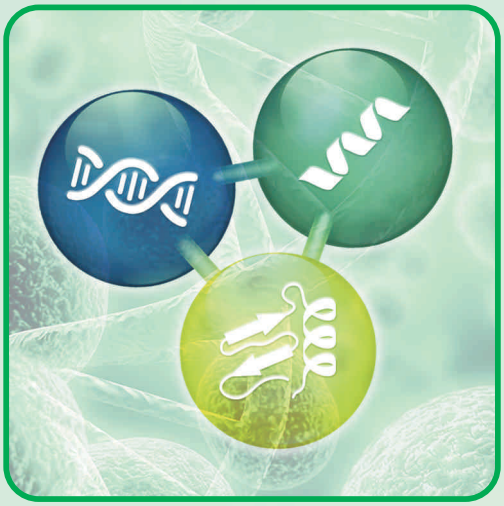
Bioinert Columns

YMC-Accura Triart

Oligonucleotides

Peptides/proteins

Metal coordinating compounds



Highly accurate results

Exceptional peak shapes

Excellent recoveries

No carry-over

Bioinert columns for bioseparations and coordinating compounds

YMC

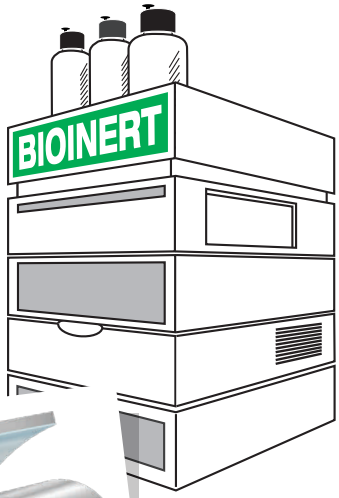
Bioinert coated YMC-Accura Triart

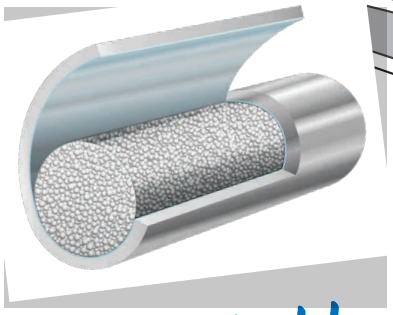
Features

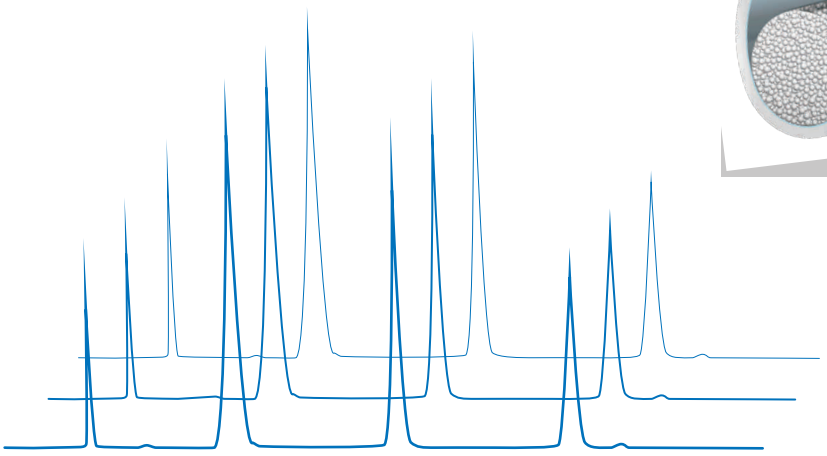
- *Exceptional peak shapes with high sensitivities*
- *Excellent recoveries without column preconditioning*
- *Superior reproducibility and no carry-over effects*
- *Ideal for highly sensitive LC/MS analyses*
- *New surface coated hardware*

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-Triart C18

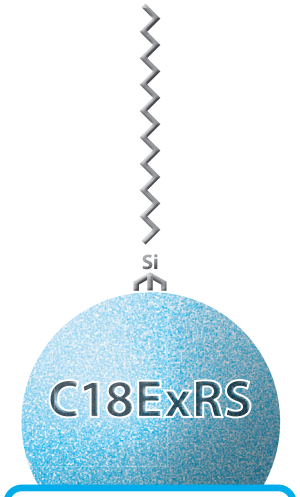
versatile applications

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

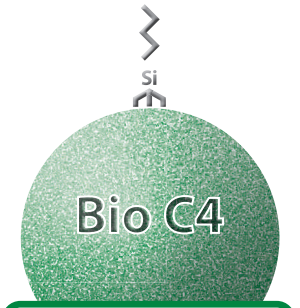
YMC-Triart C8

alternative to C18

short retention time

pH 1–12/90 °C max.

YMC-Triart Bio C4



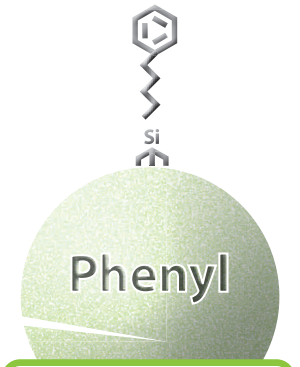
proteins/antibodies/peptides

300 Å widepore

pH 1–10/90 °C max.

100% aqueous eluents

YMC-Triart Phenyl

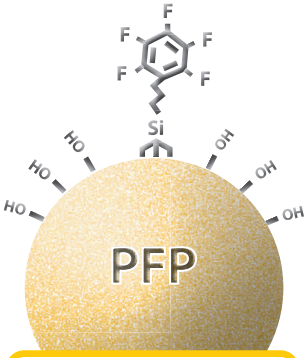


aromatic compounds (π-electron donor)

conjugated systems

100% aqueous eluents

YMC-Triart PFP



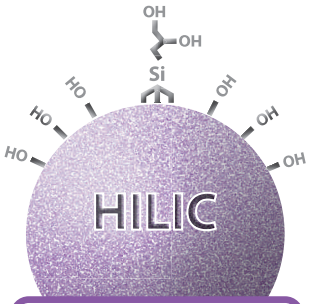
aromatic compounds (π-electron donor)

cis-trans isomers

polar halogenated compounds

100% aqueous eluents

YMC-Triart Diol-HILIC



very polar compounds

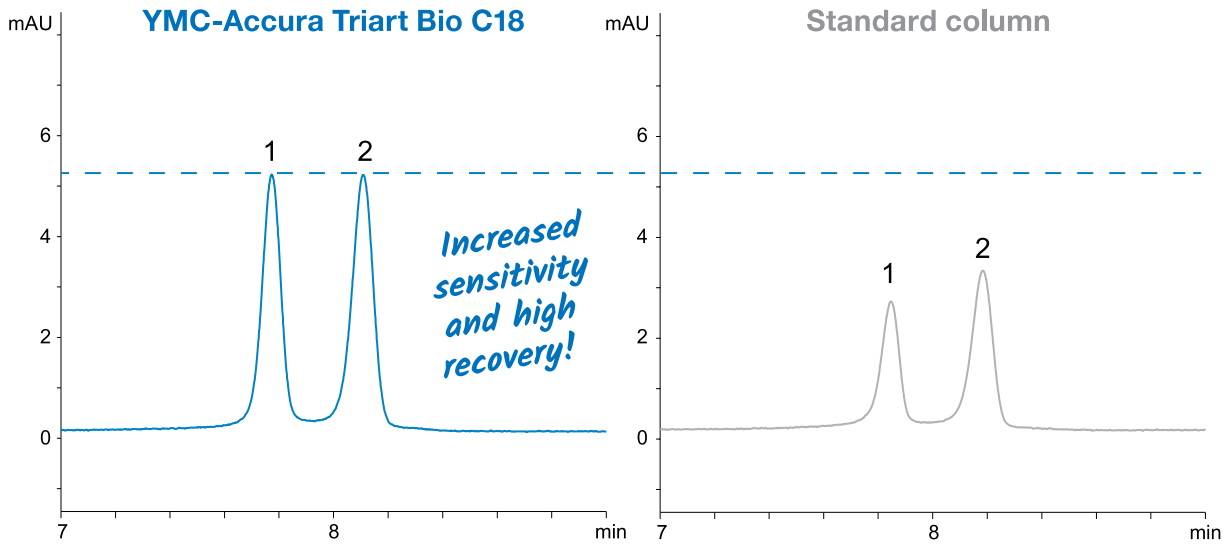
less ionic adsorption

ideal choice for SFC

100% aqueous eluents

Ensured sensitivity and recovery

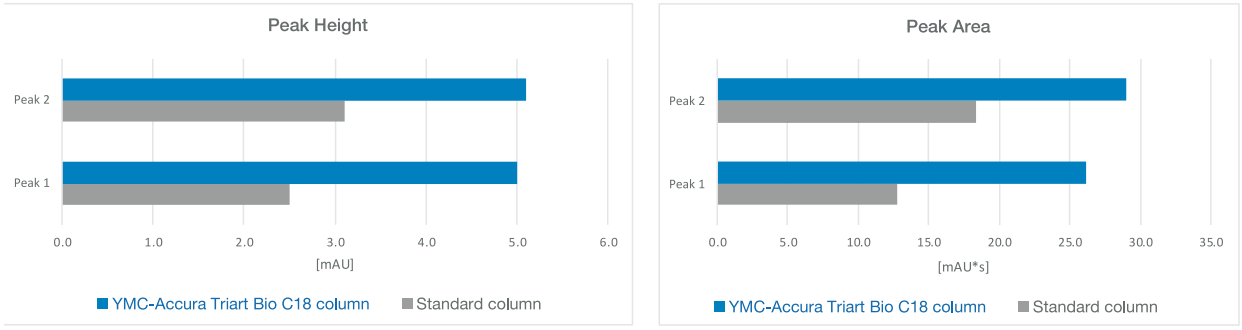
Ideal choice for challenging analytes such as phosphorothioate oligonucleotides



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

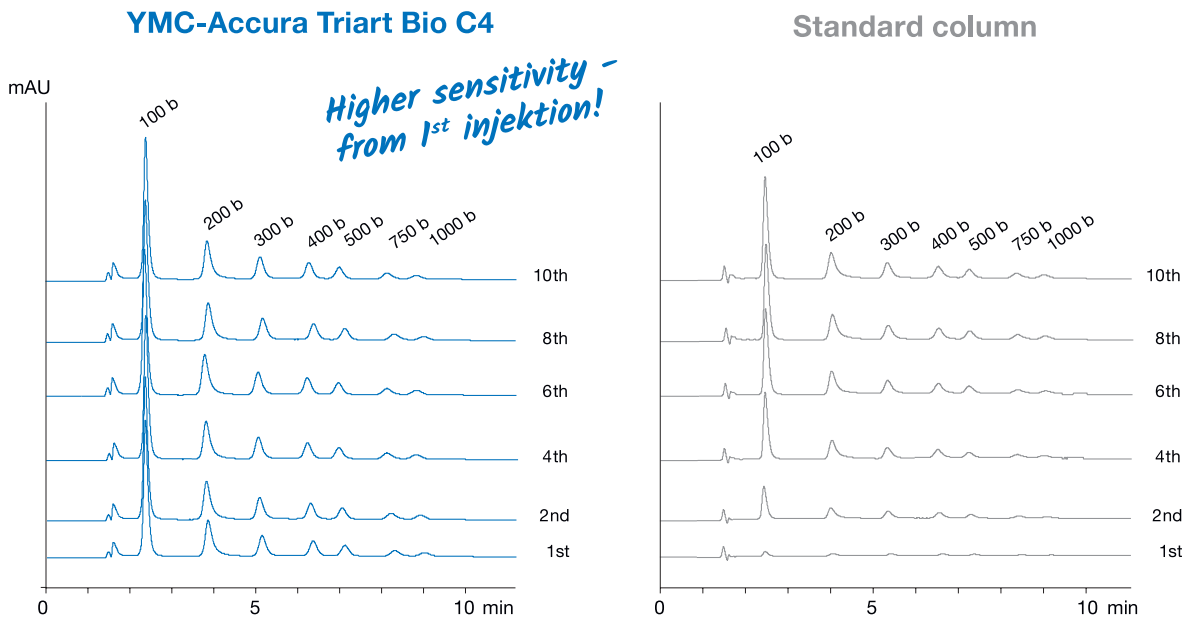


Doubled peak height and area!

The YMC-Accura Triart Bio C18 column provides double peak heights and peak areas for 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.

Immediate reliability

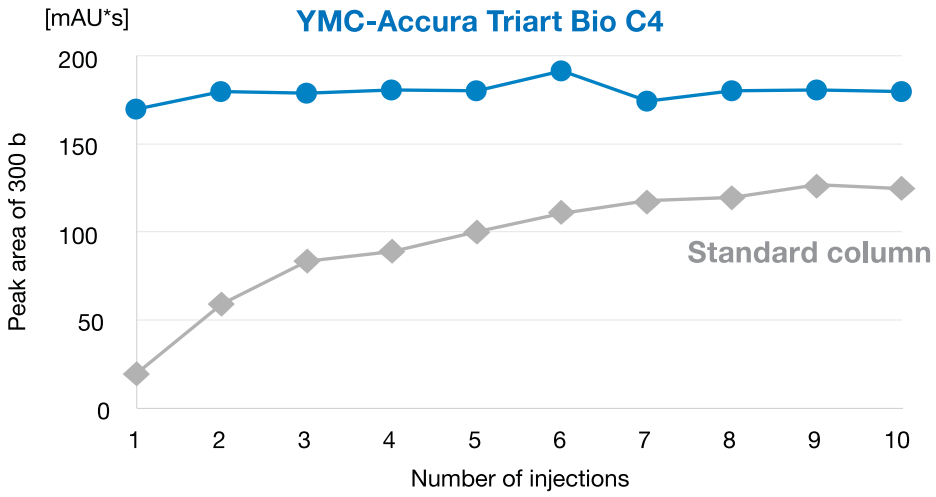
No preconditioning required for reliable results from the 1st injection



Column:	YMC-Accura Triart Bio C4 (3 µm, 30 nm) 100 x 2.1 mm ID
Part No.:	TA30S03-10Q1PTC
Eluent:	A) 50 mM TEAA* (pH 7.0)/acetonitrile (95/5)
	B) 50 mM TEAA (pH 7.0)/acetonitrile (50/50)
Gradient:	9–14%B (0–10 min), 80%B (10–15 min)
Flow rate:	0.2 mL/min
Temperature:	80 °C
Detection:	UV at 254 nm
Injection:	1 µL (0.25 mg/mL)
Sample:	100–1,000 bases (Century™-Plus RNA Markers)

* Triethylammonium acetate

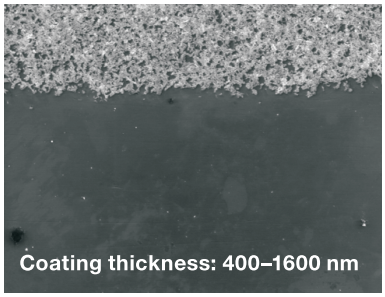
Constantly higher peak areas and therefore recoveries



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.

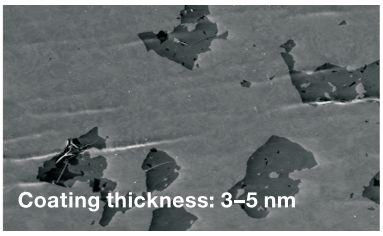
Robust coating for high inertness

Durable bioinert coating



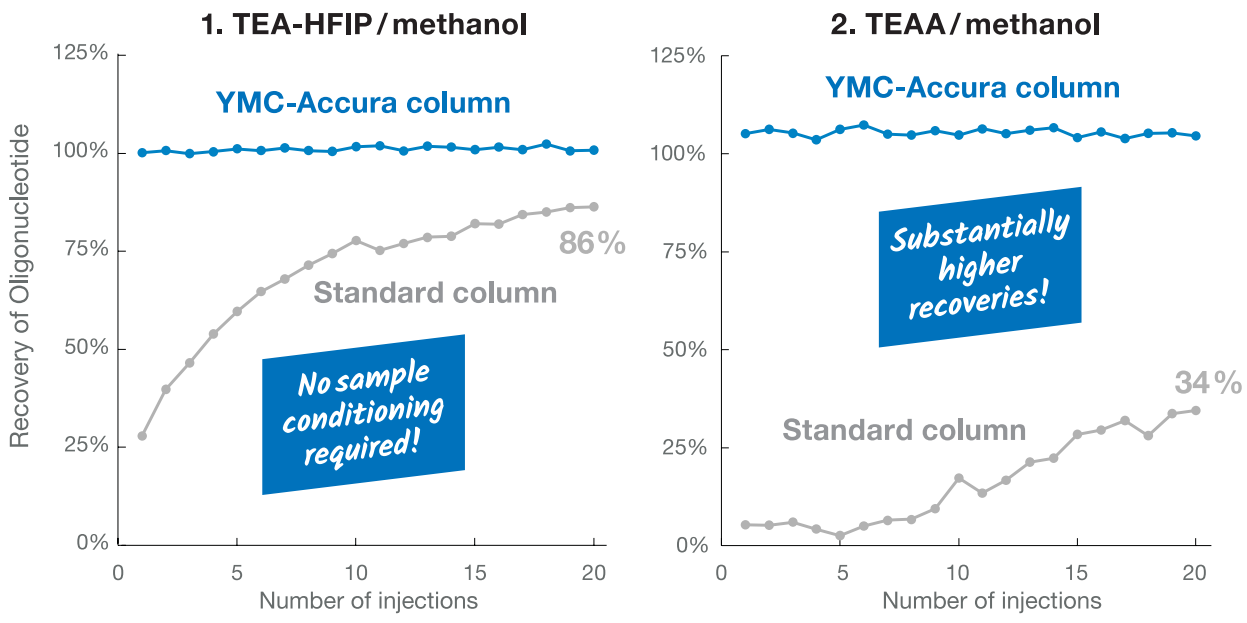
The robust bioinert coating used on YMC-Accura hardware is 130 to 320-fold thicker making it more durable than other similar hardware concepts. A long-term inertness against sensitive substances is ensured.
In order to demonstrate its robustness, a YMC-Accura column was packed multiple times. Even though 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



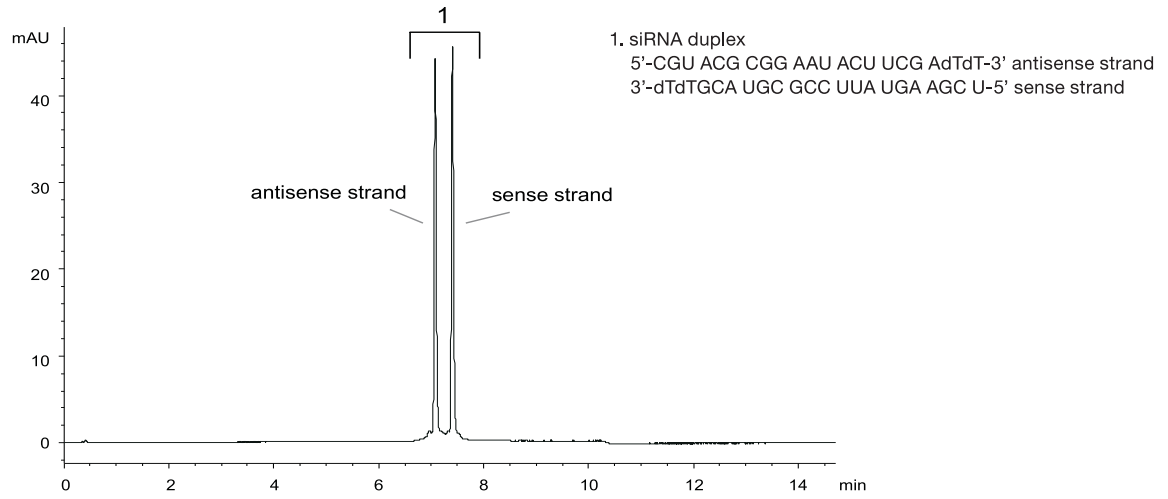
Column:	*Empty* YMC-Accura (without stationary phase)
Eluent:	1) 8 mM TEA 200 mM HFIP / methanol (82/18) 2) 100 mM TEAA / methanol (82/18)
Flow rate:	0.42 mL/min
Detection:	UV at 260 nm
Temperature:	65°C
Injection:	1 µL
Sample:	All PS RNA 20mer (1) (5'-U^C^A^U^C^A^C^A^C^U^G^A^A^U^A^C^C^A^A^U-3')

^=Phosphorothioate

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.

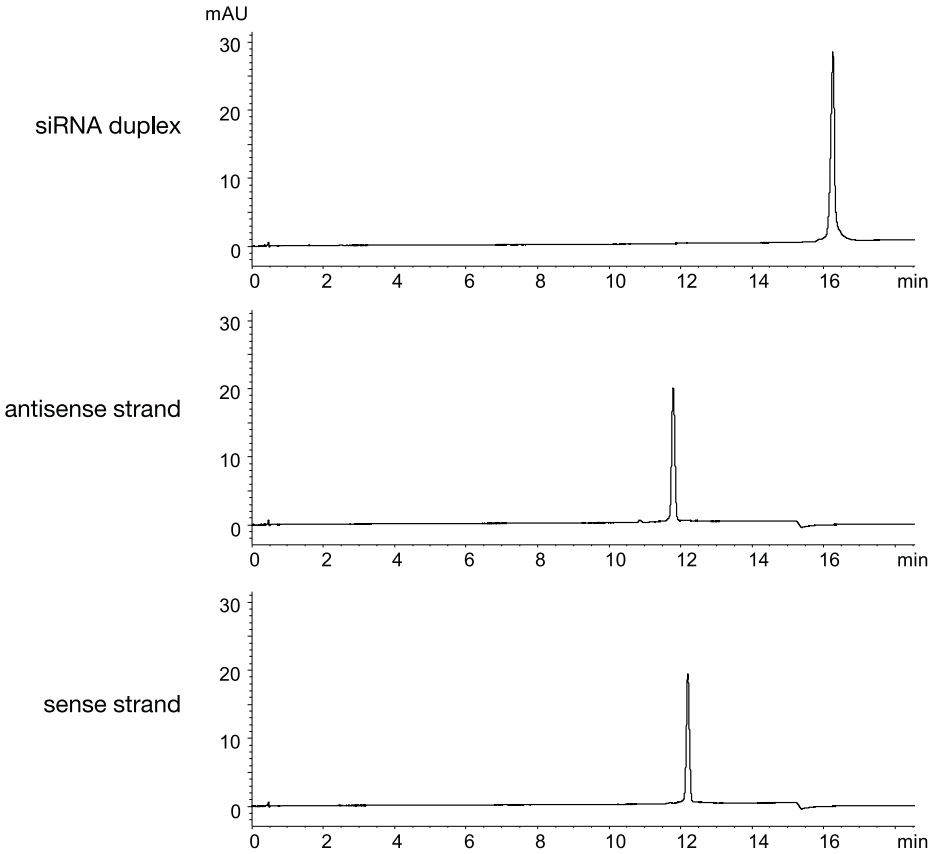
Application examples

siRNA duplex under denaturing conditions



Column:	YMC-Accura Triart Bio C18 (1.9 µm, 30 nm) 50 x 2.1 mm ID	Flow rate:	0.42 ml/min
Part No.:	TA30SP9-05Q1PTC	Temperature:	65 °C
Eluent:	A) 15 mM TEAA (pH 8)	Detection:	UV at 260 nm
	B) methanol	Injection:	1 µl (5 nmol/ml)
Gradient:	5%–20%B (0–15 min)	Sample:	siRNA duplex

siRNA duplex and its single strands under non-denaturing conditions



Column:	YMC-Accura Triart Bio C18 (1.9 µm, 30 nm) 50 x 2.1 mm ID	Flow rate:	0.42 ml/min
Part No.:	TA30SP9-05Q1PTC	Temperature:	25 °C
Eluent:	A) 15 mM triethylamine-400 mM HFIP (pH 8)	Detection:	UV at 260 nm
	B) methanol	Injection:	1 µl (5 nmol/ml)
Gradient:	10%–28%B (0–18 min)	Sample:	siRNA duplex & single strands

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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YMC

NEW

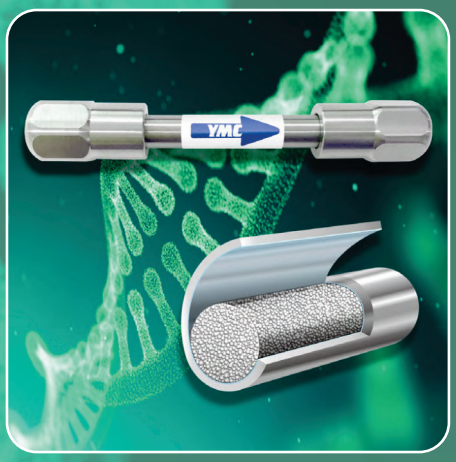
Bioinert Coated Columns

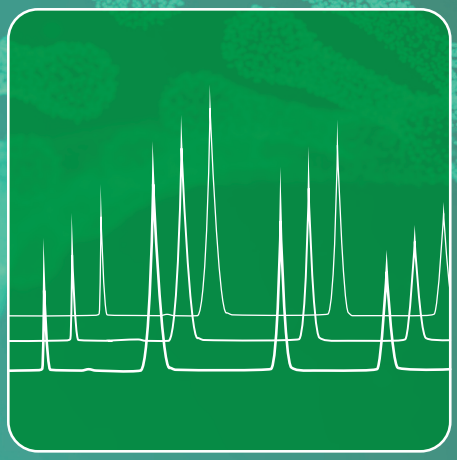
YMC Accura BioPro IEX

Oligonucleotides

Antibodies & Proteins

LC / MS Analyses





Highly accurate results

Exceptional recoveries

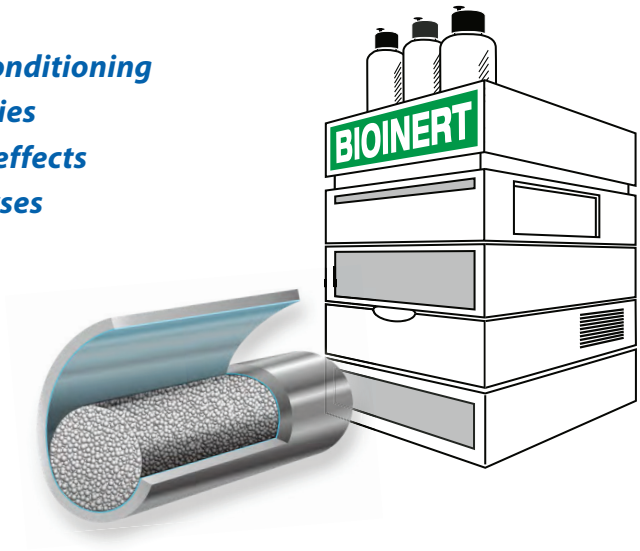
High throughput

Excellent reproducibility

Non-porous YMC Accura BioPro IEX

Features

- *Exceptionally high recoveries without preconditioning*
- *Very sharp peak shapes with high sensitivities*
- *Superior reproducibility and no carry-over effects*
- *High efficiency and rapid throughput analyses*
- *New rigid surface coated hardware*

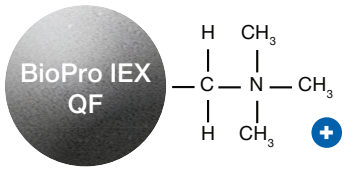


Ideal choice for

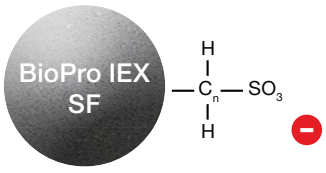
- *Oligonucleotides, nucleotides*
- *Antibodies, proteins and peptides*
- *Sensitive LC/MS analyses*

Specification

	YMC Accura BioPro IEX QF	YMC Accura BioPro IEX SF
Matrix	hydrophilic polymer (polymethacrylate)	hydrophilic polymer (polymethacrylate)
Particle size / µm	3, 5	3, 5
Pore size / nm	non-porous	non-porous
Charged group	$-CH_2N^+(CH_3)_3$	$-(CH_2)_3SO_3^-$
Counter ion	Cl^-	Na^+
Available pH range	2.0–12.0	2.0–12.0
Temperature range	4–60 °C	
Pressure limit	3 µm: 15–20 MPa, 5 µm: 10–30 MPa	
Column hardware	bioinert coated stainless steel	
Frit hardware		

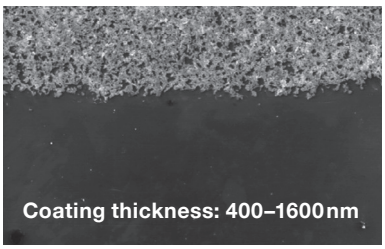


strong anion exchanger



strong cation exchanger

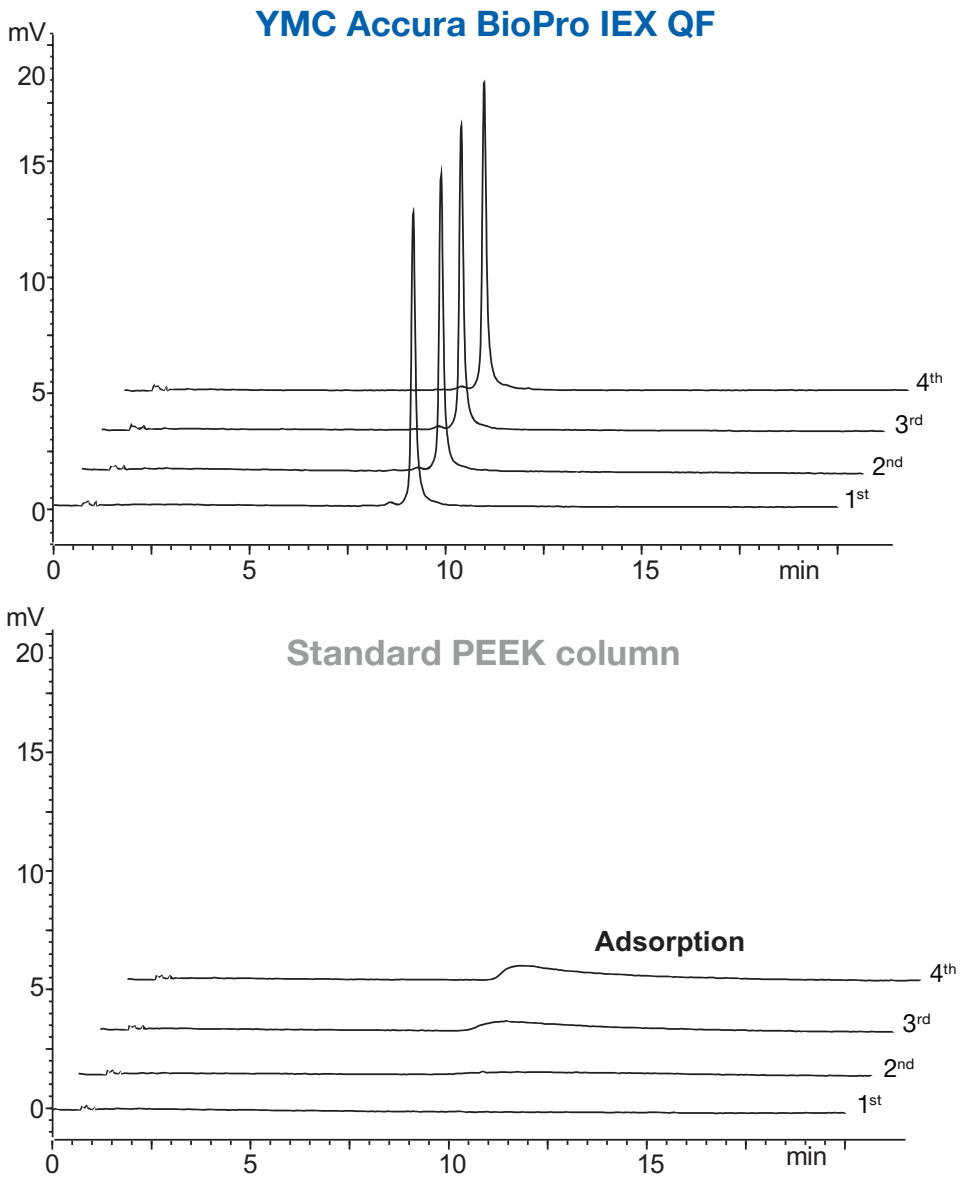
Durable bioinert coating



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).

*Scanning Electron Microscope

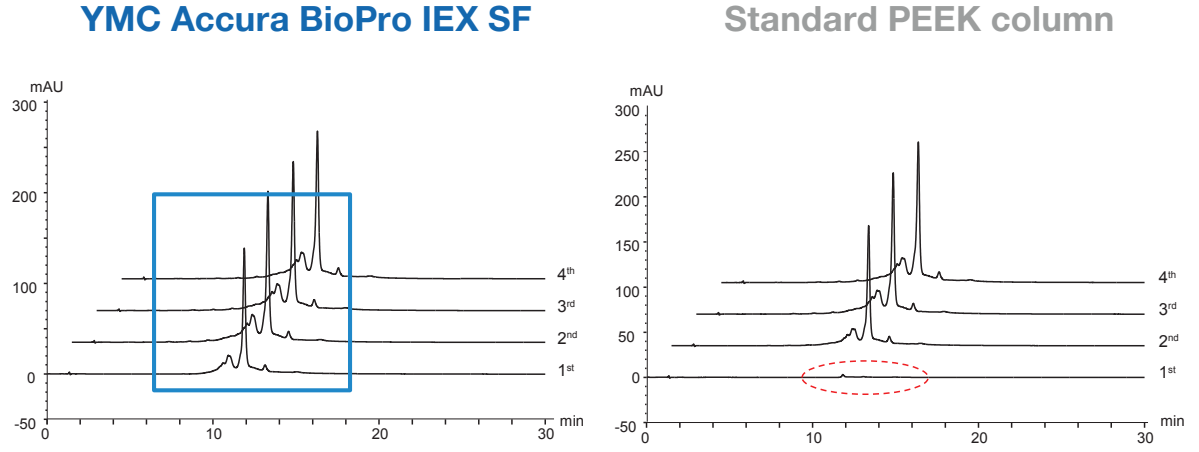
Sharp peaks and reliable recovery for oligonucleotides



Columns:	YMC Accura BioPro IEX QF (5 µm) 100 x 4.6 mm ID (bioinert coated hardware)
	BioPro IEX QF (5 µm) 100 x 4.6 mm ID (standard hardware)
Part Nos.:	QF00S05-1046PTC
	QF00S05-1046WP
Eluent:	A) 20 mM Tris-HCl (pH 8.1)
	B) 20 mM Tris-HCl (pH 8.1) containing 1.0 M $NaClO_4$
Gradient:	25–40%B (0–15 min), 40%B (15–20 min)
Flow rate:	1.0 mL/min
Temperature:	60 °C
Detection:	UV at 260 nm
Injection:	4 µL (5 nmol/mL)
Sample:	21mer RNA
System:	bioinert HPLC

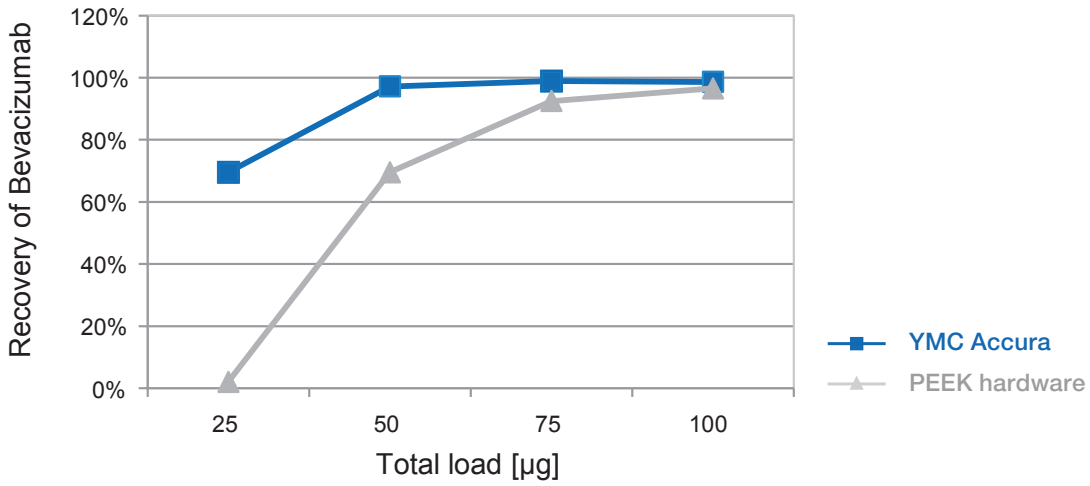
Oligonucleotides generally exhibit poor peak shape and therefore low recovery in AEX analysis, mainly due to adsorption onto the column hardware. YMC Accura BioPro IEX columns provide high recovery and very good peak shapes from the first injection. This makes YMC Accura BioPro IEX QF columns ideal for the analysis of oligonucleotides with reproducible results. The columns show stable peak areas from the 1st injection, so that no preconditioning is required.

No preconditioning required for reliable results



Columns:	YMC Accura BioPro IEX SF (5 µm) 100 x 4.6 mm ID (bioinert coated hardware)
	BioPro IEX SF (5 µm) 100 x 4.6 mm ID (standard hardware)
Part Nos.:	SF00S05-1046PTC
	SF00S05-1046WP
Eluent:	A) 20 mM NaH_2PO_4-Na_2HPO_4 (pH 6.8)
	B) 20 mM NaH_2PO_4-Na_2HPO_4 (pH 6.8) containing 0.2 M NaCl
Gradient:	0–50%B (0–30 min), 0%B (30–45 min)
Flowrate:	0.5 mL/min
Temperature:	25 °C
Detection:	UV at 280 nm
Injection:	5 µL
Sample:	Bevacizumab (5 mg/mL)
System:	bioinert UHPLC

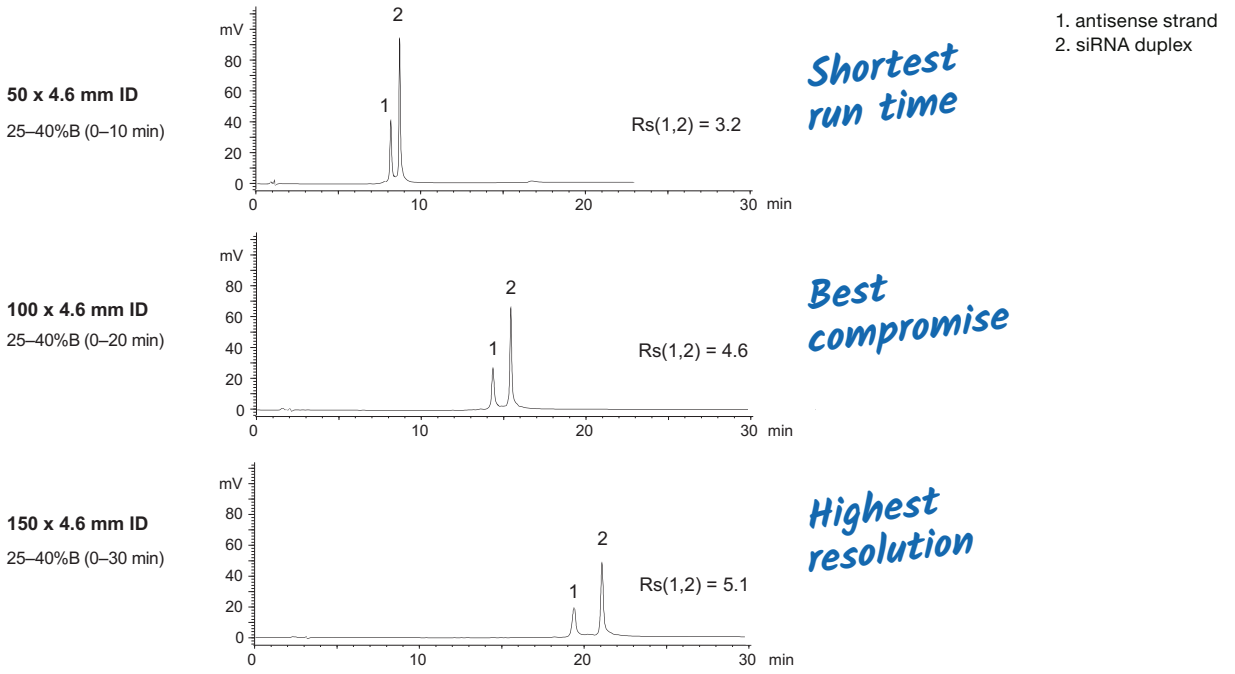
Higher recovery for low loading amounts



The high inertness of YMC Accura BioPro IEX columns also requires no preconditioning in CEX analyses. Especially at low loading amounts, YMC Accura BioPro IEX SF columns provide higher recoveries compared to the standard PEEK column.

Column dimensions according to analysis type

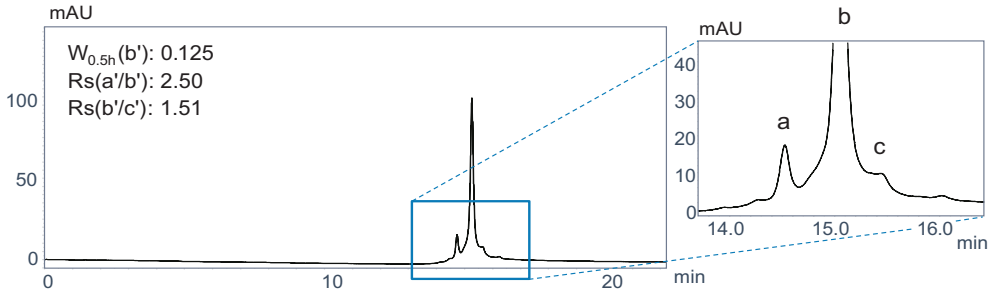
Different column lengths for each separation purpose



Columns:	YMC Accura BioPro IEX QF (5 µm)	Flow rate:	0.5 mL/min
Part Nos.:	QF00S05-0546PTC	Temperature:	60 °C
	QF00S05-1046PTC	Detection:	UV at 260 nm
	QF00S05-1546PTC	Injection:	8 µL (each 5 nmol/mL)
Eluent:	A) 20 mM Tris-HCl (pH 8.1)	System:	bioinert HPLC
	B) 20 mM Tris-HCl (pH 8.1) containing 1.0 M $NaClO_4$		

YMC Accura BioPro IEX columns are available with different lengths for specific purposes. Short columns provide short run times and high throughput, whilst retaining good resolution. Longer columns offer a higher resolution that is required for challenging samples, such as the separation of single- and double-stranded RNA.

Ideally suited for native IEX-MS



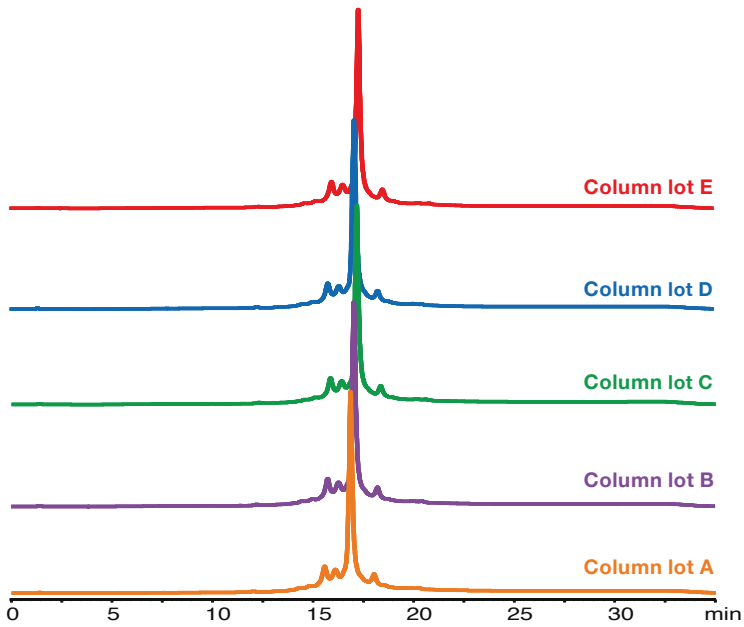
Column:	YMC Accura BioPro IEX SF (3 µm) 100 x 2.1 mm ID	Temperature:	25 °C
Part No.:	SF00S03-10Q1PTC	Detection:	UV at 280 nm
Eluent[1)]:	A) 20 mM CH_3COONH_4-CH_3COOH (pH 5.6)	Injection:	2 µL
	B) 140 mM CH_3COONH_4-10 mM NH_4HCO_3 (pH 7.4)	Sample:	Trastuzumab (1 mg/mL)
Gradient:	20%B (0–2 min), 20–100%B (2–18 min), 100%B (18–22 min)	System:	bioinert UHPLC
Flow rate:	0.1 mL/min		

1) Anal. Chem. 2018, 90, 13013-13020.

Smaller column IDs that allow lower flow rates and volatile mobile phases are necessities for coupling to mass detection. Such high sensitivity analyses are ideally performed using YMC Accura BioPro IEX columns. Another positive effect is the decreased solvent consumption and lower amount of sample required.

Reproducibility and stability

Excellent batch-to-batch reproducibility

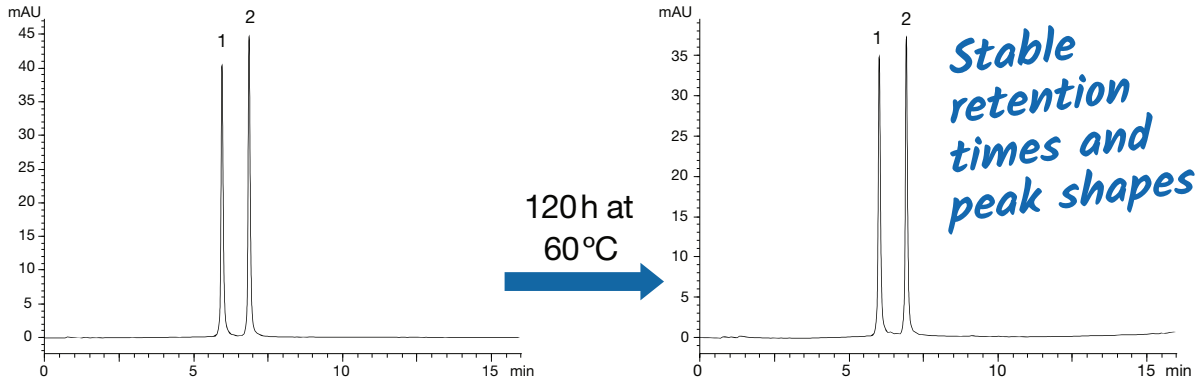


Ideal for use in quality control!

Column:	BioPro IEX SF (5 µm) 100 x 4.6 mm ID	Flow rate:	0.5 mL/min
Part No.:	SF00S05-1046WP	Temperature:	25 °C
Eluent:	A) 20 mM NaH_2PO_4-Na_2HPO_4 (pH 6.5)	Detection:	UV at 215 nm
	B) 20 mM NaH_2PO_4-Na_2HPO_4 (pH 6.5) containing 0.2 M NaCl	Injection:	10 µL
Gradient:	0–50%B (0.5–30 min)	Sample:	Monoclonal antibody (IgG1)

BioPro IEX columns exhibit excellent batch-to-batch reproducibility – as in this example – for mAb analysis with resolution of peaks for small charge variants. All gel batches are inspected by rigorous quality control tests and must meet the required criteria before release.
BioPro IEX columns are the best choice for the quality control of mAbs, proteins, oligonucleotides and other biopharmaceuticals.

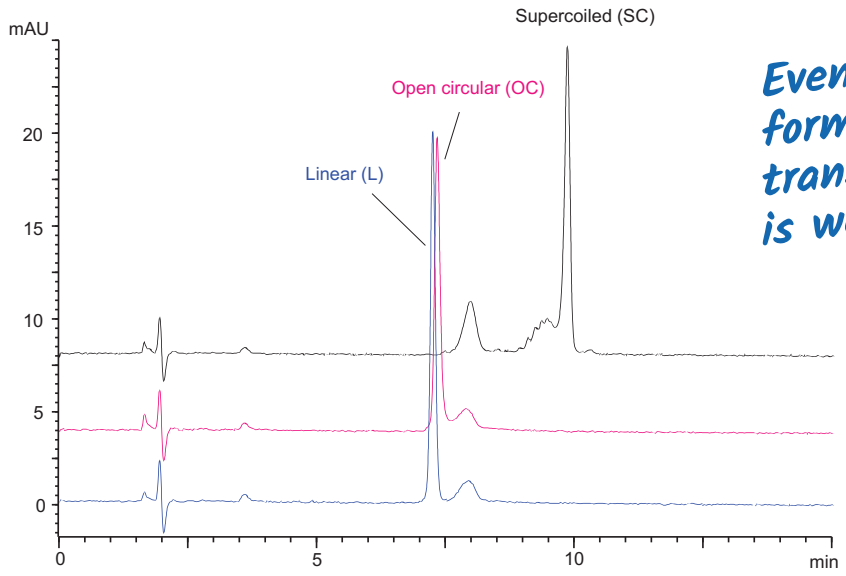
High temperature stability



Stable retention times and peak shapes

Column:	BioPro IEX QF (5 µm) 100 x 4.6 mm ID	Temperature:	25 °C
Part No.:	QF00S05-1046WP	Detection:	UV at 260 nm
Eluent:	A) 10 mM NaOH	Injection:	4 µl (each 5 nmol/ml)
	B) 10 mM NaOH containing 1.0 M $NaClO_4$	Sample:	1) 5'-TCATCACACTGAATACCAAT-3' (DNA 20mer)
Gradient:	25–55%B (0–15 min), 100%B (15–20 min)		2) 5'-GTCATCACACTGAATACCAAT-3' (DNA 21mer)
Flow rate:	1.0 ml/min		

Analysis of topological isomers of plasmids

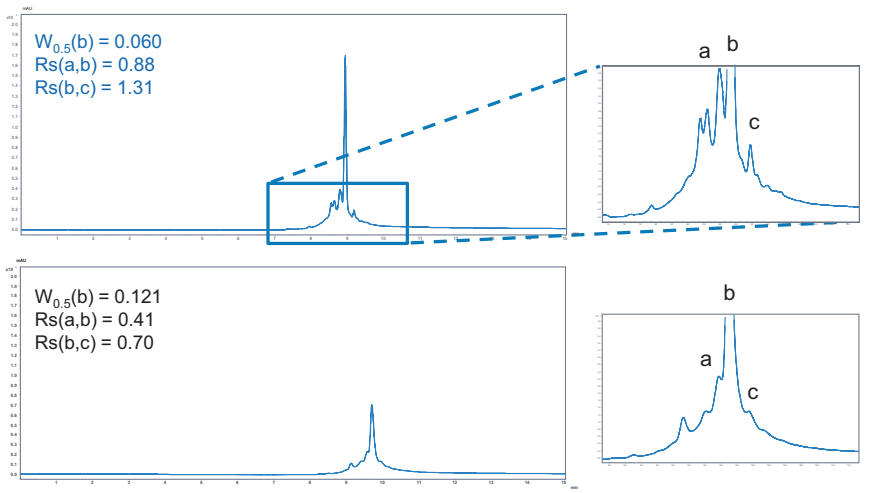


Even the supercoiled form with high transfection efficiency is well separated.

Column: YMC Accura BioPro IEX QF (5 µm) 100 x 4.6 mm ID
Part No.: QF00S05-1046PTC
Eluent: A) 20 mM Tris-HCl (pH 8.5)
B) 20 mM Tris-HCl (pH 8.5) containing 1.0 M NaCl
Gradient: 77%B (0–1 min), 77–85%B (1–15 min)
Flow rate: 0.4 mL/min

Temperature: 25 °C
Detection: UV at 260 nm
Injection: 1 µL (50–65 µg/mL)
Samples: pUC19 plasmid extracted from *E. coli* (2686 bp) (SC)
pUC19 plasmid digested with nicking endonuclease Nt.BspQI (OC)
pUC19 plasmid digested with restriction enzyme BamHI (L)
System: bioinert UHPLC

Higher resolution for monoclonal antibody analyses



Better resolution and peak width!

YMC Accura BioPro IEX SF
100 x 4.6 mm ID

ProPac 3R SCX
100 x 4.0 mm ID

Column: YMC Accura BioPro IEX SF (3 µm) 100 x 4.6 mm ID
Part No.: SF00S03-1046PTC
Eluent: A) 10 mM MES*-NaOH (pH 6.6)
B) 10 mM MES*-NaOH (pH 6.6) containing 1 M NaCl
Gradient: 0–20%B (0–15 min)
Flow rate: 0.5 mL/min for 4.6 mm ID, 0.378 mL/min for 4.0 mm ID

Temperature: 25 °C
Detection: UV at 280 nm
Injection: 2 µL for 4.6 mm ID, 1.5 µL for 4.0 mm ID
Sample: Bevacizumab (5 mg/mL)
System: bioinert UHPLC

*2-(*N*-morpholino) ethanesulfonic acid

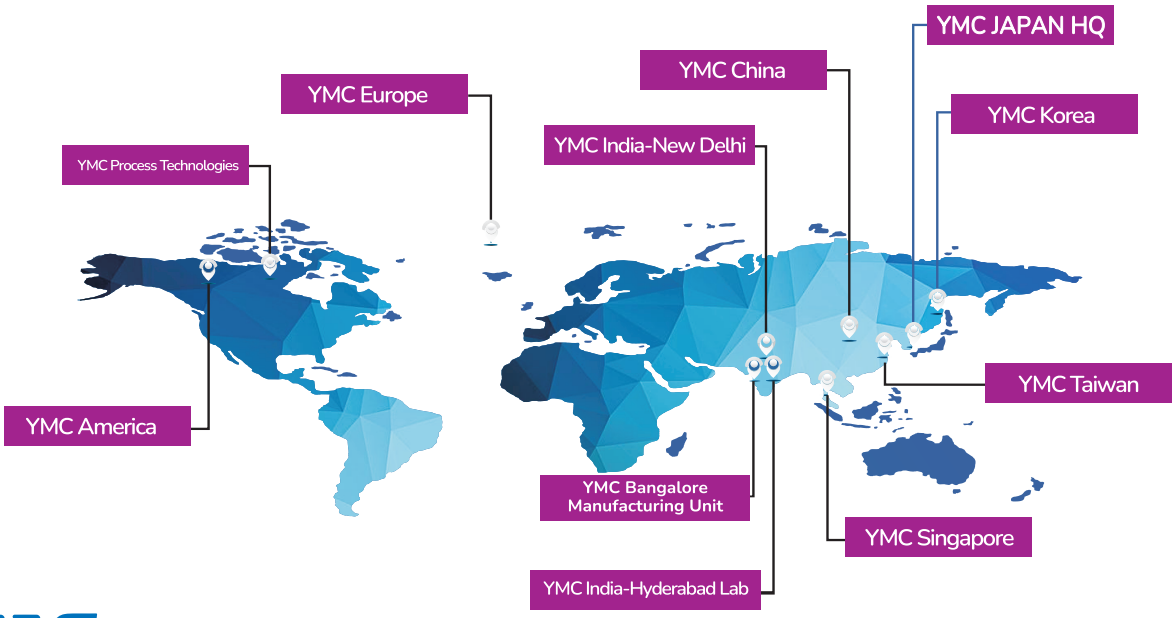
Ordering information

3 µm non-porous analytical columns, bioinert coated hardware (max. pressure 15–20 MPa)

Phase	Column ID (mm)	Column length (mm)		
		50 (15 MPa)	100 (15 MPa)	150 (20 MPa)
YMC Accura BioPro IEX QF	2.1 4.6	QF00S03-05Q1PTC QF00S03-0546PTC	QF00S03-10Q1PTC QF00S03-1046PTC	QF00S03-15Q1PTC QF00S03-1546PTC
YMC Accura BioPro IEX SF	2.1 4.6	SF00S03-05Q1PTC SF00S03-0546PTC	SF00S03-10Q1PTC SF00S03-1046PTC	SF00S03-15Q1PTC SF00S03-1546PTC

5 µm non-porous analytical columns, bioinert coated hardware (max. pressure 10–30 MPa)

Phase	Column ID (mm)	Column length (mm)			
		50 (10 MPa)	100 (12 MPa)	150 (18 MPa)	250 (30 MPa)
YMC Accura BioPro IEX QF	2.1 4.6	QF00S05-05Q1PTC QF00S05-0546PTC	QF00S05-10Q1PTC QF00S05-1046PTC	QF00S05-15Q1PTC QF00S05-1546PTC	– QF00S05-2546PTC
YMC Accura BioPro IEX SF	2.1 4.6	SF00S05-05Q1PTC SF00S05-0546PTC	SF00S05-10Q1PTC SF00S05-1046PTC	SF00S05-15Q1PTC SF00S05-1546PTC	– SF00S05-2546PTC



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