

Bioinert coated columns

YMC
EUROPE GMBH

NEW:
bioinert
guards

Improved bioseparations:

YMC Accura Triart and YMC Accura BioPro IEX



Oligonucleotides
Nucleotides

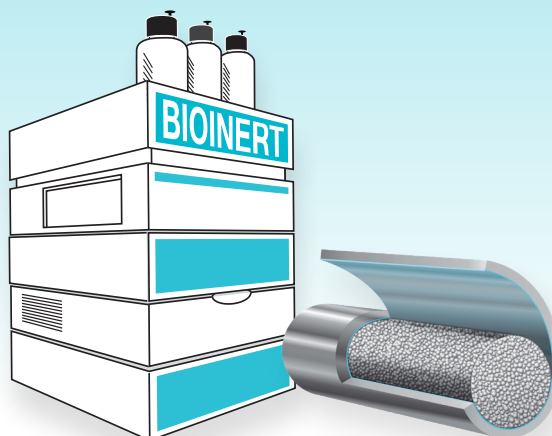


(Phosphorylated)
Peptides/Proteins



Antibodies

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



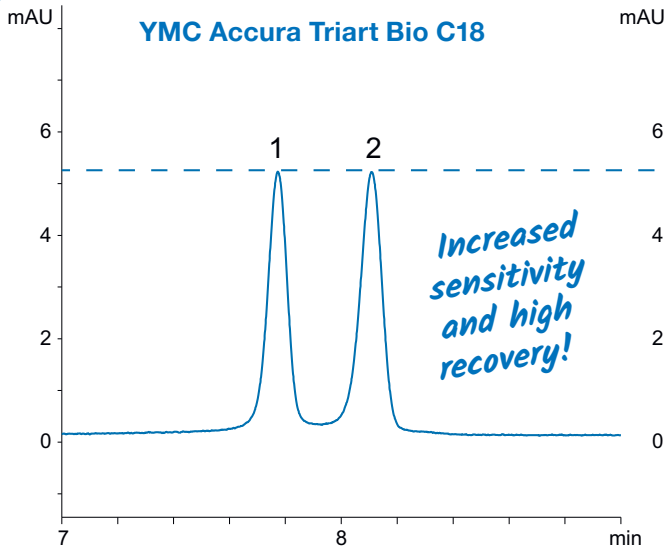
www.ymc.eu

Guaranteed and immediate recovery

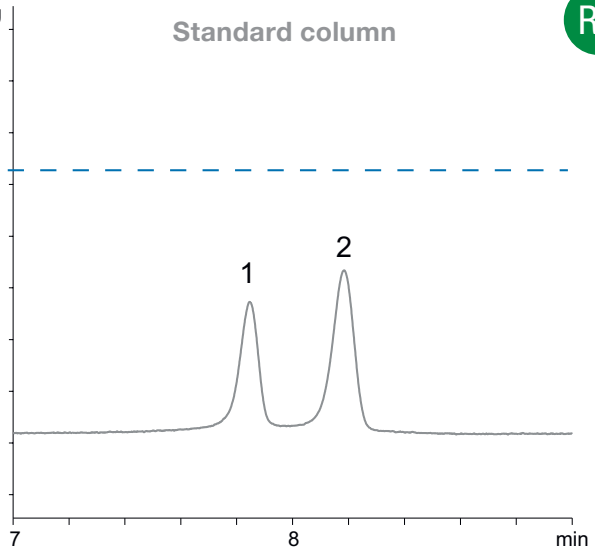


Sharp peaks and reliable recovery for oligonucleotides

YMC Accura Triart Bio C18



Standard column

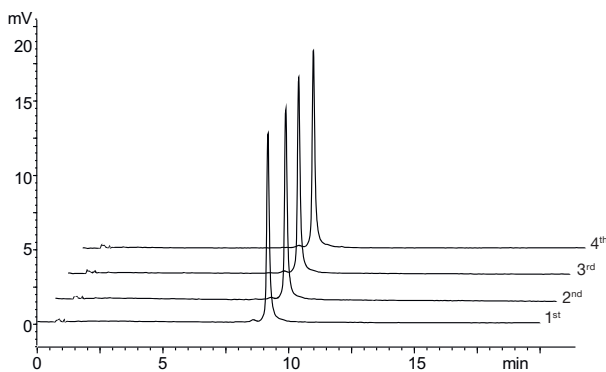


Column: **YMC Accura Triart Bio C18** (1.9 μm, 30 nm) 50 x 2.1 mm ID
 Part No.: TA30SP9-05Q1PTC
 Eluent: A) 15 mM triethylamine - 400 mM HFIP*
 B) methanol
 Gradient: 8–18%B (0–10 min)
 Flow rate: 0.42 mL/min
 Temperature: 65 °C
 Detection: UV at 260 nm
 Injection: 1 μL
 Sample: All PS RNA 20mer (1)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

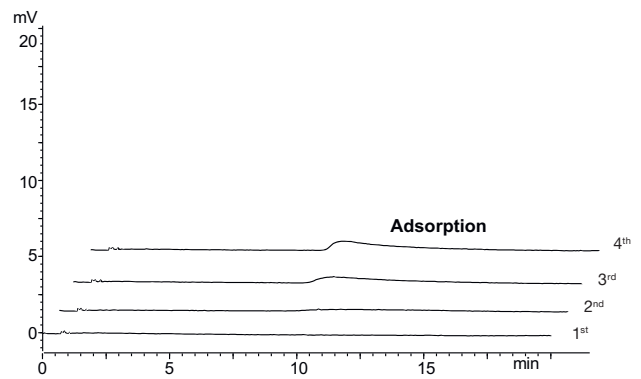
*1,1,1,3,3,3-hexafluoro-2-propanol



YMC Accura BioPro IEX QF



Standard PEEK column

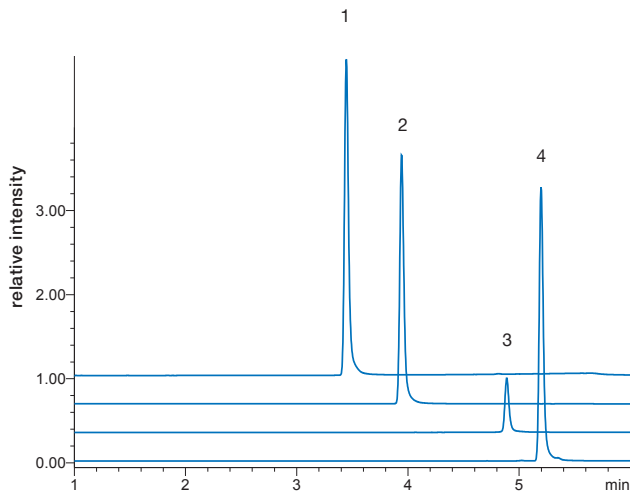


Columns: **YMC Accura BioPro IEX QF** (5 μm) 100 x 4.6 mm ID (bioinert coated hardware)
 BioPro IEX QF (5 μm) 100 x 4.6 mm ID (standard hardware)
 Part Nos.: QF00S05-1046PTC
 QF00S05-1046WP
 Eluent: A) 20 mM Tris-HCl (pH 8.1)
 B) 20 mM Tris-HCl (pH 8.1) containing 1.0 M NaClO₄
 Gradient: 25–40%B (0–15 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



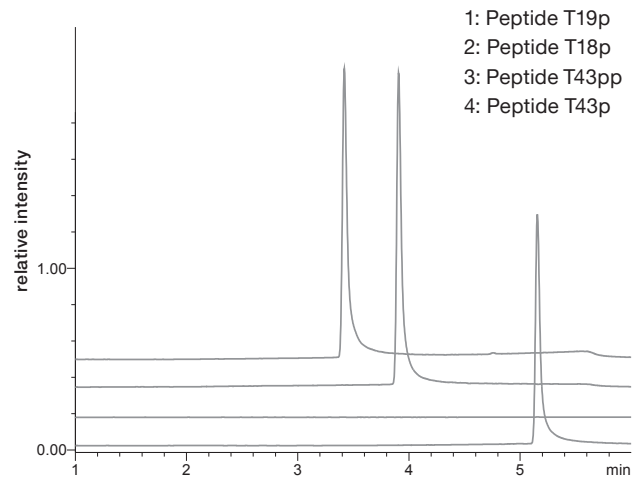
No preconditioning required for reliable results

YMC Accura Triart C18



Standard column

RP



- 1: Peptide T19p
- 2: Peptide T18p
- 3: Peptide T43pp
- 4: Peptide T43p

Columns: **YMC Accura Triart C18** (1.9µm, 12nm) 100 x 2.1 mm ID (bioinert hardware)
 YMC-Triart C18 (1.9µm, 12 nm) 100 x 2.1 mm ID (standard hardware)
 Part Nos.: TA12SP9-10Q1PTC
 TA12SP9-10Q1PT
 Eluent: A) water + 0.1% formic acid
 B) acetonitrile + 0.1% formic acid
 Gradient: 0.7%–25%B (0–5min), 25%B (5–6.6min), 0.7%B (6.6–8min)
 Flow rate: 0.6ml/min

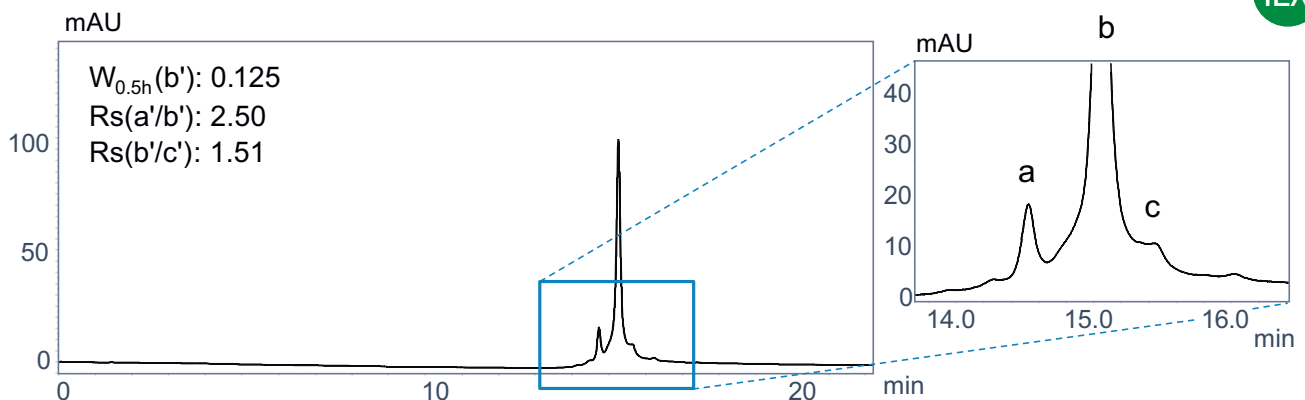
Temperature: 60°C
 Detection: ESI-MS
 Injection: 2µL (10 pmol/µL)
 Sample: Massprep phosphopeptide enolase standard (Waters)
 System: Shimadzu Nexera XS inert
 Shimadzu LCMS-2020

By courtesy of Shimadzu Europa.



Ideally suited for native IEX-MS

IEX



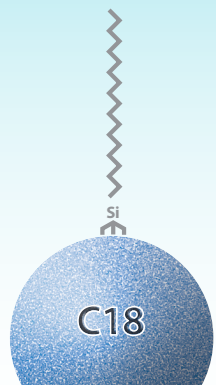
Column: **YMC Accura BioPro IEX SF** (3µm) 100 x 2.1 mm ID
 Part No.: SF00S03-10Q1PTC
 Eluent¹⁾: A) 20 mM CH₃COONH₄-CH₃COOH (pH 5.6)
 B) 140 mM CH₃COONH₄-10 mM NH₄HCO₃ (pH 7.4)
 Gradient: 20%B (0–2 min), 20–100%B (2–18 min), 100%B (18–22 min)
 Flow rate: 0.1 mL/min
 Temperature: 25°C
 Detection: UV at 280 nm
 Injection: 2 µL
 Sample: Trastuzumab (1 mg/mL)
 System: bioinert UHPLC

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

NEW:
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guards

YMC Accura Triart

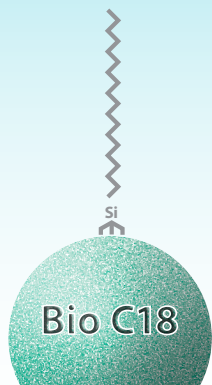
YMC-Triart C18



C18

versatile applications
first choice for
method development
pH 1–12/90 °C max.

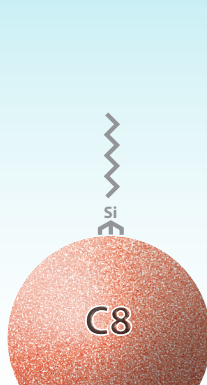
YMC-Triart Bio C18



Bio C18

peptides/proteins/
oligonucleotides
300 Å widepore
pH 1–12/90 °C max.

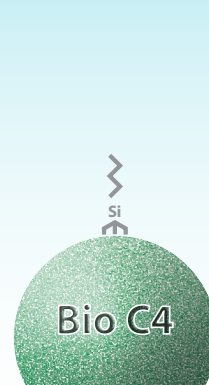
YMC-Triart C8



C8

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

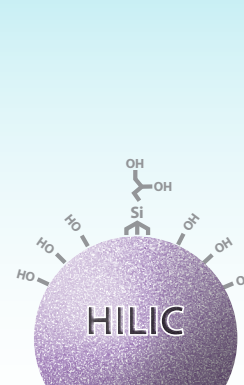
YMC-Triart Bio C4



Bio C4

proteins/antibodies/
peptides
300 Å widepore
pH 1–10/90 °C max.

YMC-Triart Diol-HILIC

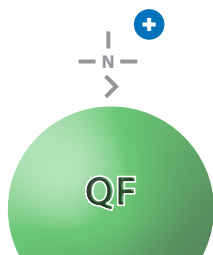


HILIC

oligonucleotides
very polar compounds
less ionic adsorption
ideal choice for SFC

YMC Accura BioPro IEX

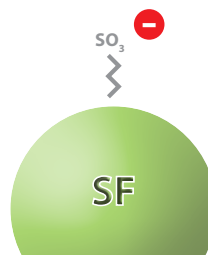
BioPro IEX QF



QF

oligonucleotides/mAbs/
proteins/peptides
strong anion exchanger
non-porous hydrophilic
polymer

BioPro IEX SF



SF

mAbs/proteins/peptides
strong cation exchanger
non-porous hydrophilic
polymer

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