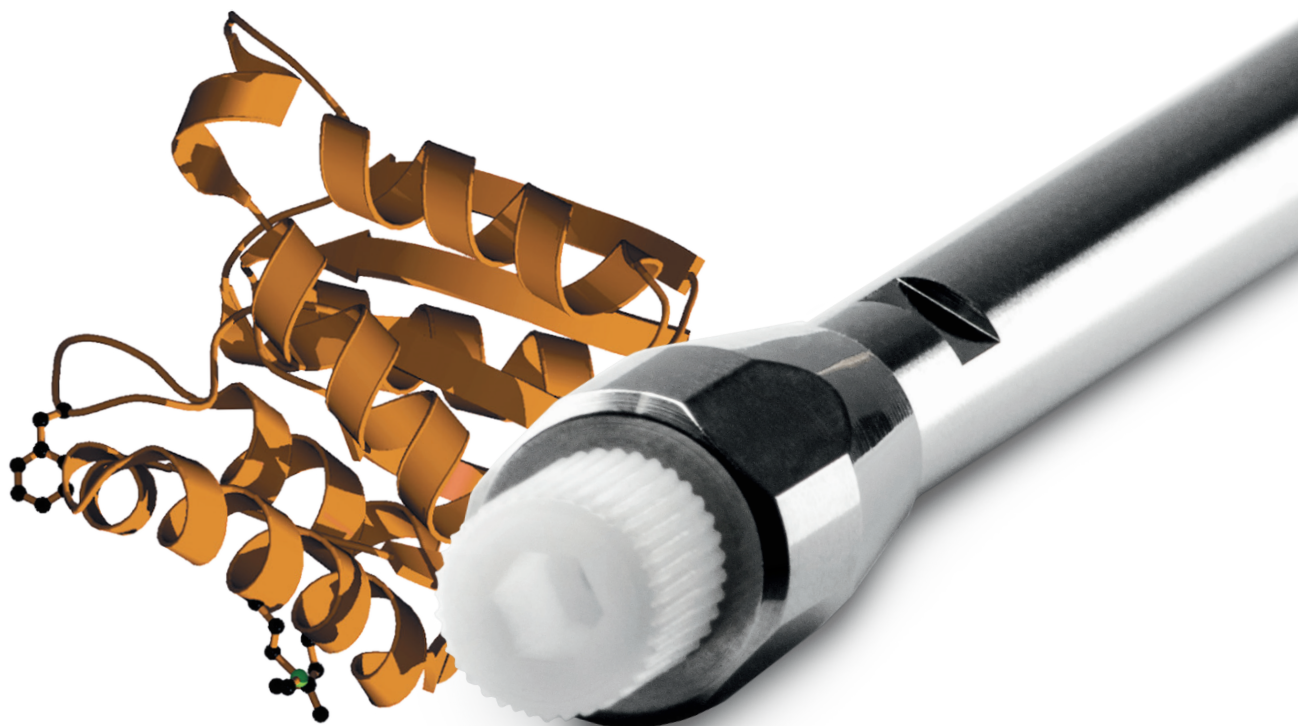


MACHEREY-NAGEL

NUCLEODUR[®] 300

C₁₈ ec and C₄ ec



HPLC columns for biochromatography

- Reliable wide pore RP phases for daily routine analysis
- Medium density octadecyl or butyl modification with exhaustive endcapping
- Ideal phases for separation of biomolecules

NUCLEODUR® 300 C₁₈ ec and C₄ ec

Key features

- Reliable wide pore RP phases for daily routine analysis
- Medium density octadecyl or butyl modification with exhaustive endcapping
- Ideal phases for separation of biomolecules

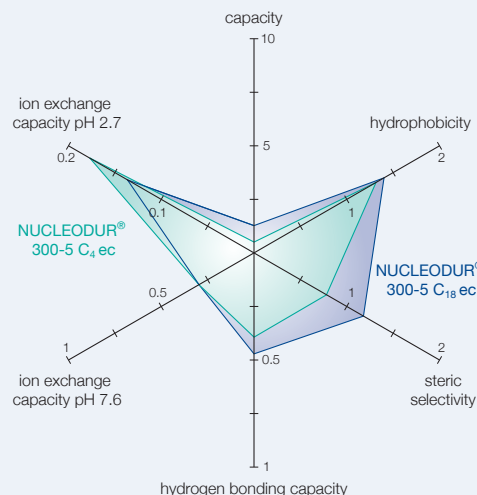
Technical characteristics

- Pore size 300 Å; particle size 5 µm
- Carbon content 4 % for C₁₈, 2.5 % for C₄
- pH stability 1–9, high reproducibility from lot to lot

Recommended applications

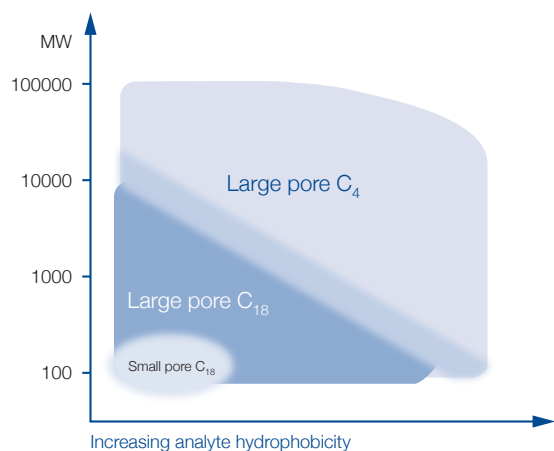
- Biological macromolecules like proteins or peptides
- USP L1 (C₁₈) / USP L26 (C₄)

Tanaka plots of NUCLEODUR® wide pore phases



Wide pore silica for biochromatography

Column selection by analyte characteristics



Stability test of NUCLEODUR® 300-5 C₄ ec

MN Appl. No. 126540

Column: 250 x 4.6 mm NUCLEODUR® 300-5 C₄ ec

Eluent: A) 0.1 % TFA in water
B) 0.08 % TFA in acetonitrile
20–50 % B in 11 min

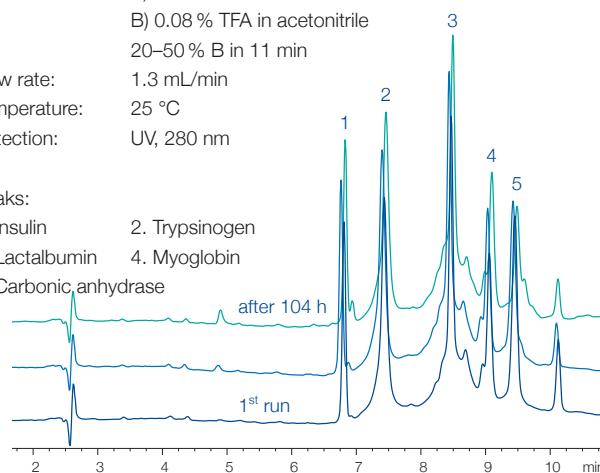
Flow rate: 1.3 mL/min

Temperature: 25 °C

Detection: UV, 280 nm

Peaks:

- Insulin
- Trypsinogen
- Lactalbumin
- Myoglobin
- Carbonic anhydrase



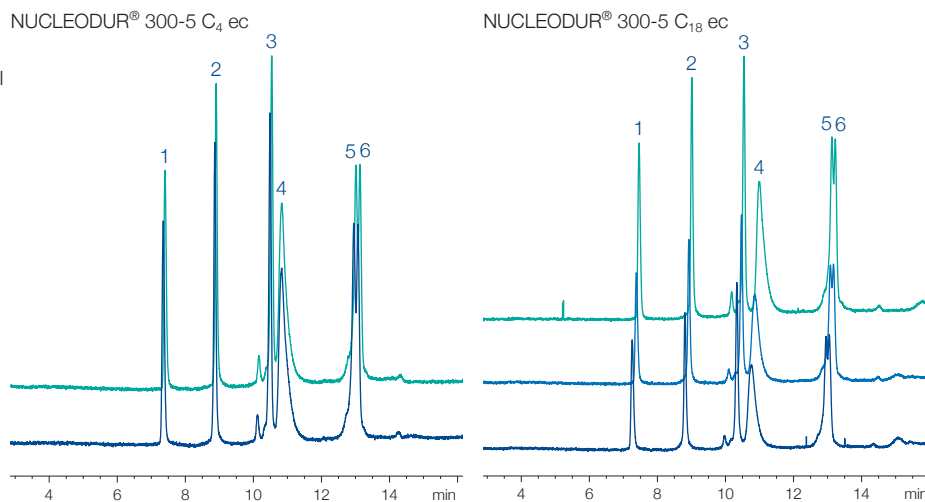
Batch-to-batch reproducibility of NUCLEODUR® 300-5 C₄ ec and NUCLEODUR® 300-5 C₁₈ ec

MN Appl. Nos. 126551 / 126552

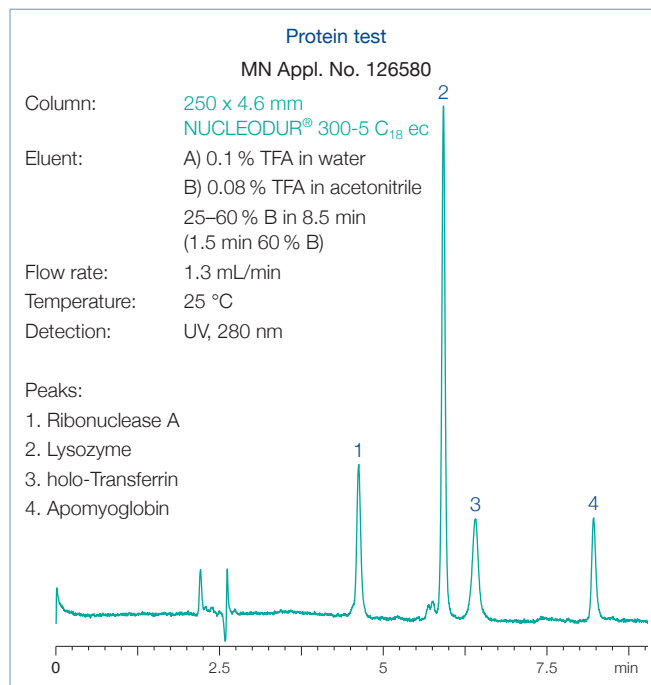
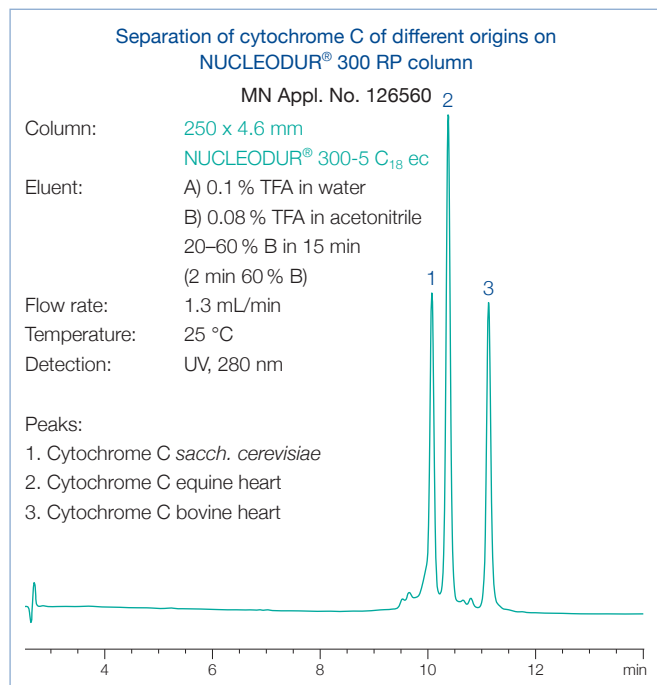
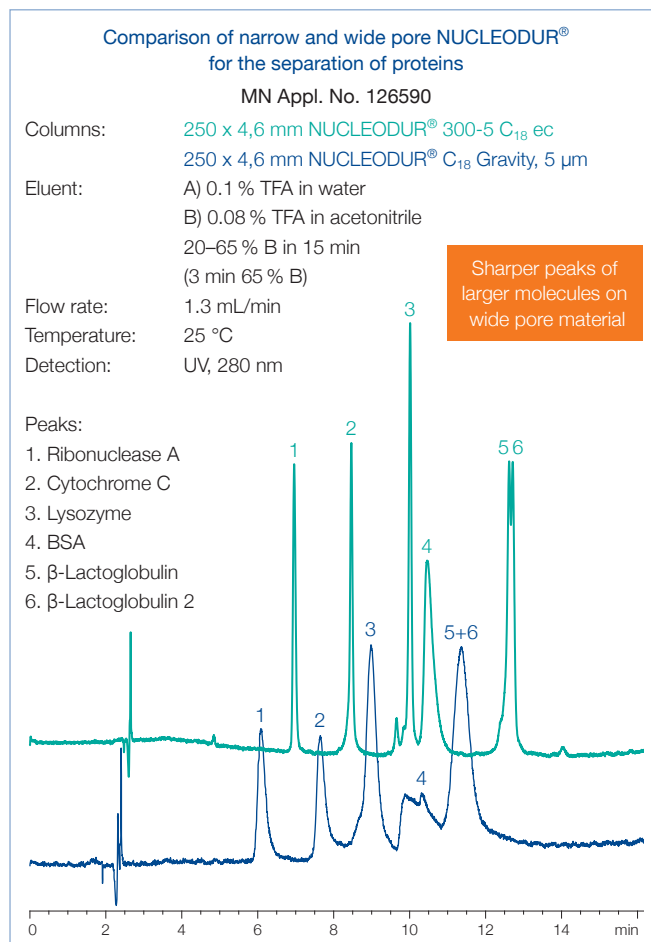
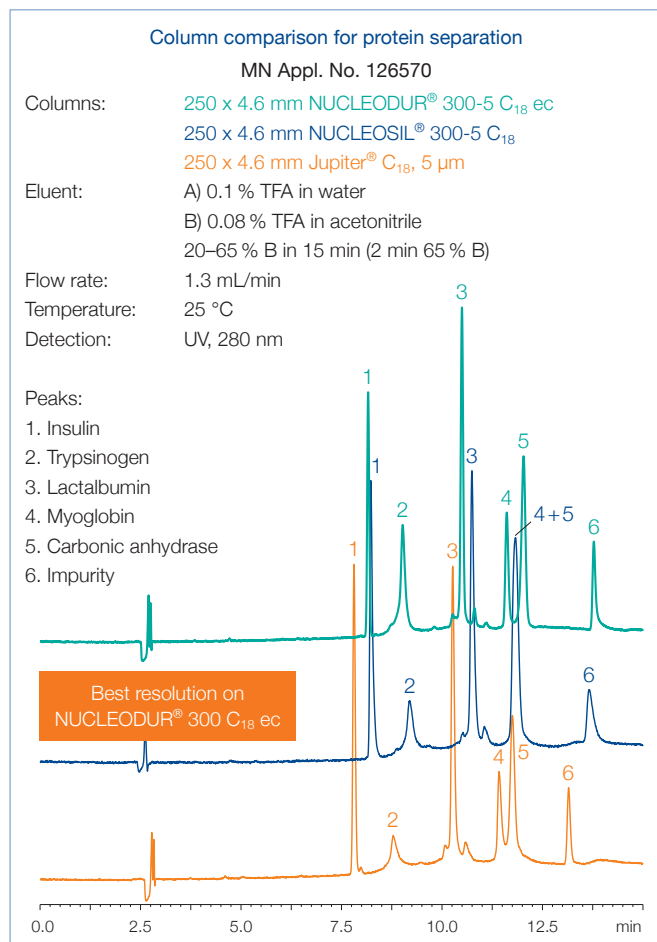
Columns: 250 x 4 mm
Eluent: A) 0.1 % TFA in water
B) 0.08 % TFA in acetonitrile
20–60 % B in 15 min
Flow rate: 1 mL/min
Temperature: 25 °C
Detection: UV, 280 nm

Peaks:

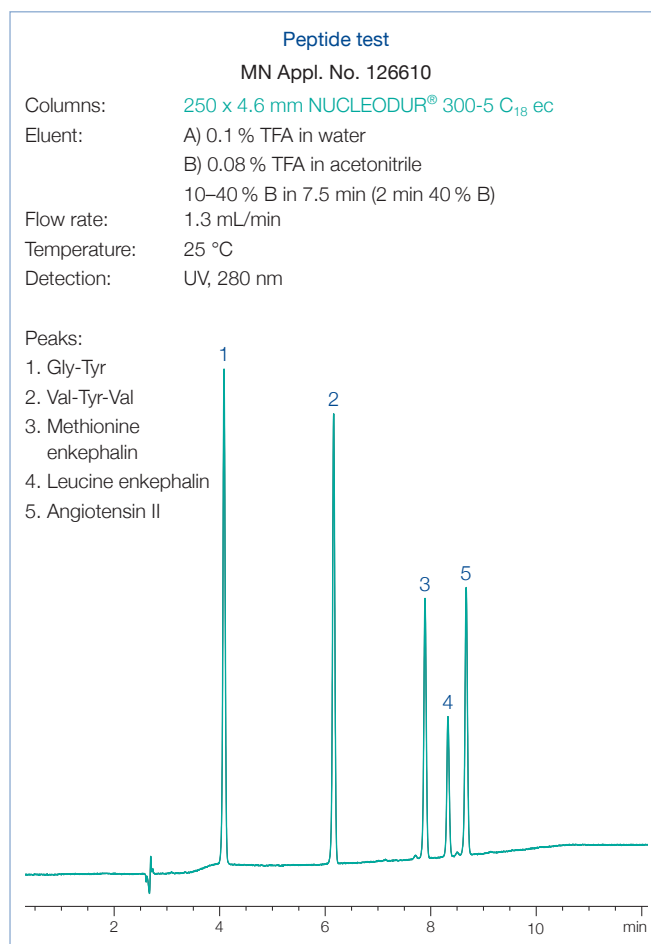
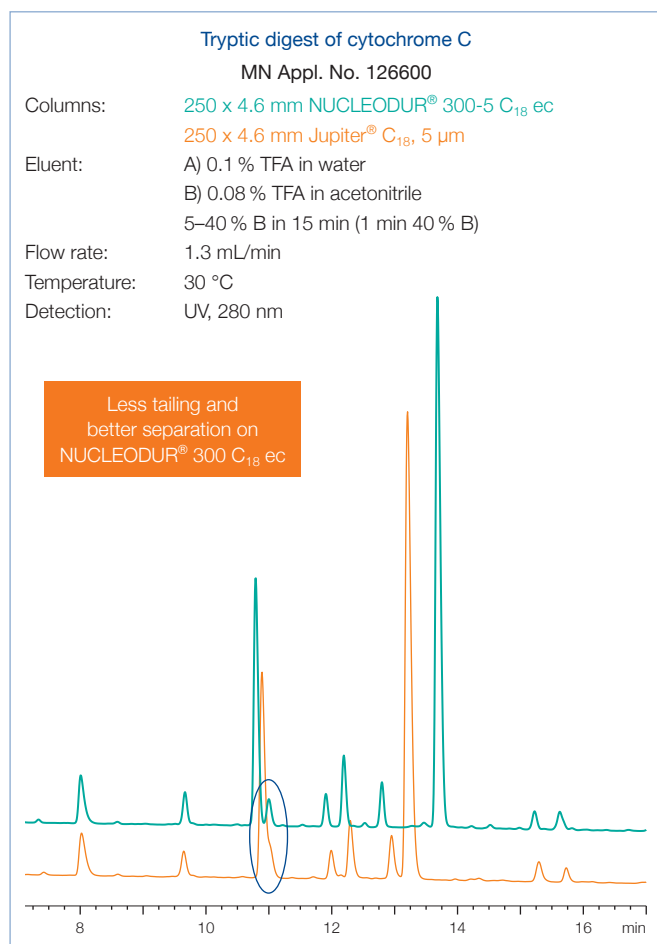
- Ribonuclease A
- Cytochrome C
- Lysozyme
- BSA
- β-Lactoglobulin
- β-Lactoglobulin 2



NUCLEODUR® 300 C₁₈ ec and C₄ ec



NUCLEODUR® 300 C₁₈ ec and C₄ ec



Ordering information

NUCLEODUR® 300-5 C₁₈ ec

Octadecyl modification, endcapped, pore size 300 Å, particle size 5 µm; eluent in column acetonitrile – water

| Length | 100 mm | 125 mm | 150 mm | 250 mm | EC guard columns* |
|-----------|-----------|-----------|-----------|-----------|-------------------|
| 2 mm ID | 760183.20 | 760184.20 | 760185.20 | 760186.20 | 761988.20 |
| 3 mm ID | 760183.30 | 760184.30 | 760185.30 | 760186.30 | 761988.30 |
| 4 mm ID | 760183.40 | 760184.40 | 760185.40 | 760186.40 | 761988.30 |
| 4.6 mm ID | 760183.46 | 760184.46 | 760185.46 | 760186.46 | 761988.30 |

NUCLEODUR® 300-5 C₄ ec

Butyl modification, endcapped, pore size 300 Å, particle size 5 µm; eluent in column acetonitrile – water

| Length | 100 mm | 125 mm | 150 mm | 250 mm | EC guard columns* |
|-----------|-----------|-----------|-----------|-----------|-------------------|
| 2 mm ID | 760193.20 | 760194.20 | 760195.20 | 760196.20 | 761989.20 |
| 3 mm ID | 760193.30 | 760194.30 | 760195.30 | 760196.30 | 761989.30 |
| 4 mm ID | 760193.40 | 760194.40 | 760195.40 | 760196.40 | 761989.30 |
| 4.6 mm ID | 760193.46 | 760194.46 | 760195.46 | 760196.46 | 761989.30 |

* EC guard columns require the Column Protection System guard column holder 718966

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