

ÄKTA pure™

Choose your wavelength

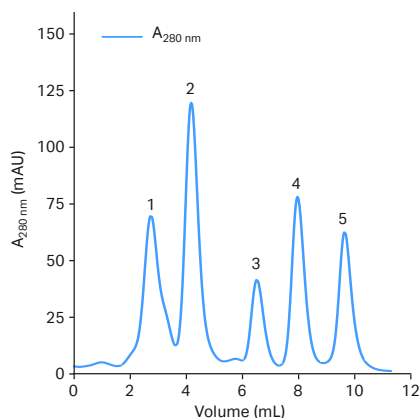


ÄKTA pure™ is a flexible and intuitive chromatography system for fast purification of proteins, peptides and nucleic acids. Available with 3 different wavelength options — which is the best for your research?

ÄKTA pure™ L

- Single wavelength chromatography system
- Fixed at 280 nm
- Suitable for general protein purification, aromatic protein rings (tryptophan, tyrosine)

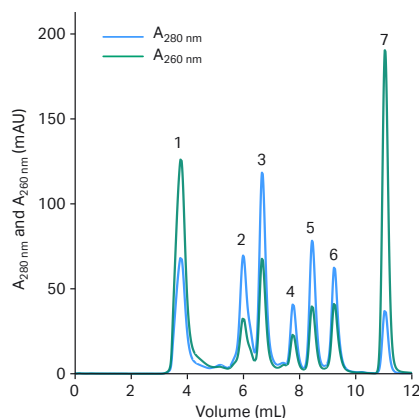
Column: Superdex™ 200 Increase 10/300 GL
 Sample: (1) Aldolase 3 mg/mL (M_r 158 000), (2) Conalbumin 3mg/mL (M_r 75 000), (3) Carbonic anhydrase 0.9 mg/mL (M_r 29 000), (4) Ribonuclease 3 mg/mL (M_r 13 700), (5) Aprotinin 2.4 mg/mL (M_r 6500)
 Sample volume: 100 µL
 Eluent: PBS (10 mM sodium phosphate, 140 mM NaCl, 2.7 mM KCl, pH 7.4)
 Flow rate: 0.75 mL/min



ÄKTA pure™ T

- Dual wavelength chromatography system
- 260/280 nm
- Suitable for purifying DNA “impurities” in protein samples, DNA, RNA or nucleic acid purification, phenylalanine rich proteins

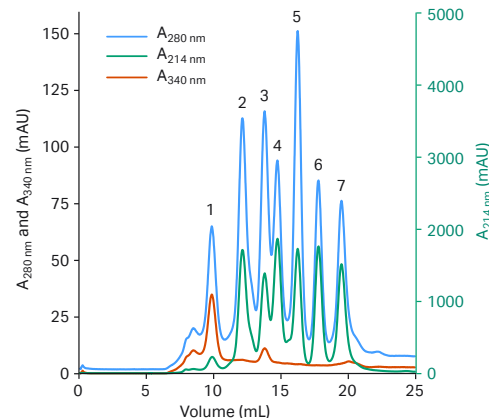
Column: Superdex™ 200 Increase 10/300 GL
 Sample: (1) Salmon Sperm DNA 0.3 mg/mL, (2) Aldolase 3mg/mL (M_r 158 000), (3) Conalbumin 3mg/mL (M_r 75 000), (4) Carbonic anhydrase 0.9 mg/mL (M_r 29 000), (5) Ribonuclease 3 mg/mL (M_r 13 700), (6) Aprotinin 2.4 mg/mL (M_r 6500), (7) Uracil 0.06 mg/mL (M_r 112 Da)
 Sample volume: 100 µL
 Eluent: PBS (10 mM sodium phosphate, 140 mM NaCl, 2.7 mM KCl, pH 7.4)
 Flow rate: 0.75 mL/min



ÄKTA pure™ M

- Multi-wavelength chromatography system
- Choose up to 3 from 190 nm to 700 nm
- Suitable for all proteins and purification of amino acids, peptides, small proteins without aromatics, proteins, nucleic acids, and RNA/DNA, etc.

Column: Superdex™ 200 Increase 10/300 GL
 Sample: (1) Ferritin (s 440 000), (2) Aldolase (M_r 158 000), (3) Conalbumin 3mg/mL (M_r 75 000), (4) Ovalbumin (M_r 44 000), (5) Carbonic anhydrase (M_r 29 000), (6) Ribonuclease (M_r 13 700), (7) Aprotinin (M_r 6500)
 Sample volume: 100 µL
 Eluent: PBS (10 mM sodium phosphate, 140 mM NaCl, 2.7 mM KCl, pH 7.4)
 Flow rate: 0.5 mL/min



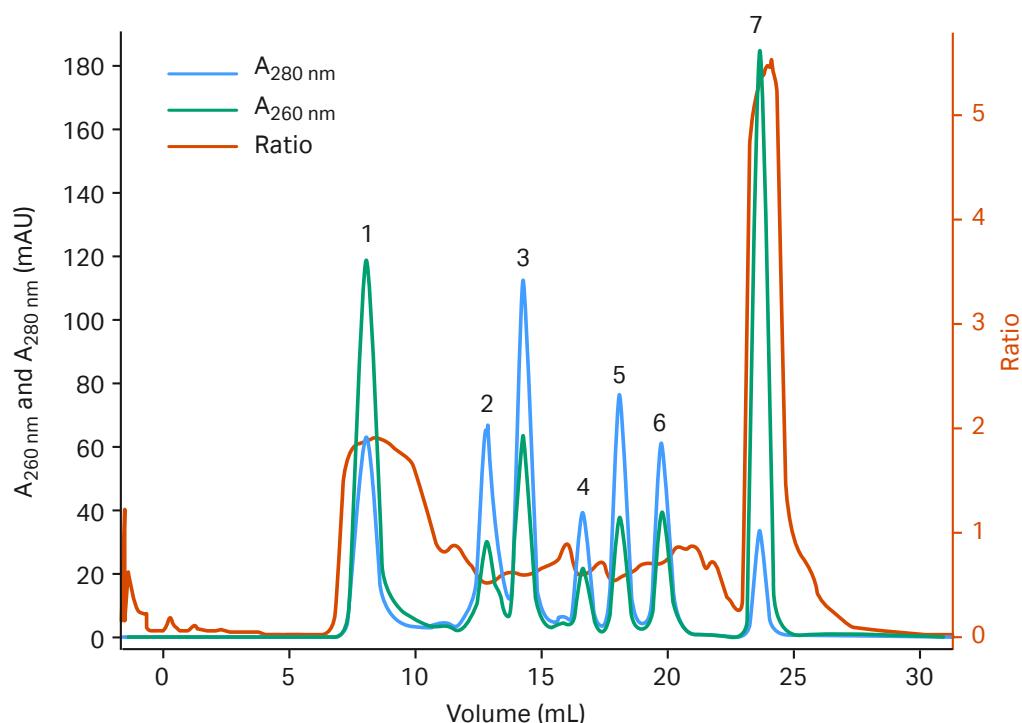
U9-T example ratio curve

This graph shows UV2/UV1 (260/280) ratio curve for a sample run on ÄKTA pure™ 25 T chromatography system.

U9-T monitor allows differentiation between peaks containing protein and those containing DNA/RNA, nucleic acids or nucleotides. Most proteins absorb strongly at 280 nm due to the presence of tryptophan and tyrosine, whilst DNA/RNA, nucleic acids and nucleotides absorb strongly at 260 nm. U9-T monitor with dual wavelength monitoring at 260/280nm can also show a ratio curve, with pure proteins generally having a value of 0.6 and pure DNA/RNA a value of 1.8–2.0.

Column: Superdex™ 200 Increase 10/300 GL
Sample: (1) Salmon Sperm DNA 0.3 mg/mL, (2) Aldolase 3mg/mL (M_r 158 000),
(3) Conalbumin 3mg/mL (M_r 75 000), (4) Carbonic anhydrase 0.9 mg/mL (M_r 29 000),
(5) Ribonuclease 3mg/mL (M_r 13 700), (6) Aprotinin 2.4 mg/mL (M_r 6500),
(7) Uracil 0.06mg/mL (M_r 112 Da)
Sample volume: 100 µL
Eluent: PBS (10 mM sodium phosphate, 140 mM NaCl, 2.7mM KCl, pH 7.4)
Flow rate: 0.75 mL/min

Ratio curve with Wavelength monitor U9-T



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