

AKTA pure 150 M

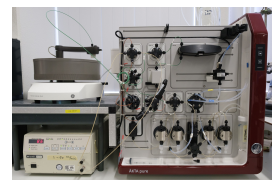
<https://labfacilities.wur.nl/SearchDetail.aspx?deviceid=743ca147-316a-4d6b-8e61-28c4d76854a1>

Brand

GE HEALTHCARE

Type

150 M



Contact

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Organisation

Agrotechnology & Food Sciences Group

Department

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Description

ÄKTA Pure Protein separation and purification platform

The ÄKTATM pure systems are used and designed for purifications of mainly proteins. All kind of chromatographically techniques, like ion-exchange chromatography (IEX), size-exclusion chromatography (SEC) and more techniques can be used.

The system is present in 2 variants, the pure 25, with a maximum flow of 25 ml/min and the pure 150, with a maximum flow of 150 ml/min. The pure 25 is the analytical system, while the pure 150 is the semi preparative system.

The sample can be applied via a sample loop, an external autosampler or directly via a sample pump. The fraction collector can collect the fractions of the purified compounds in small or large volumes.

The UNICORN software makes it easy to scale-up from the analytical system to the preparative purification system. It is also easy to create methods and monitor runs, pH, conductivity and UV scouting, and evaluate the results.

Technical Details

- Biocompatible peek tubing is used.
- Variable wavelength detector (190-700 nm), 3 simultaneously wave lengths.
- 4 different buffer inlets.
- I/O box for connection of an external auto-sampler or detector.
- Connector for all kind of suitable columns.
- Accurate Sample ($2\% \pm 0,5$) and system pump ($1,2\% \pm 0,5$).
- Flow cell dimensions 0,5 mm or 2 mm.
- Flowrate 0.001 – 25 ml/min.
- Gradient accuracy 0,6%.
- Max pressure 20 mPA.
- Possible for up and down flow.

Applications

- All kinds of chromatography (IEX, SEC, HIC).
- Purification and analysis of biomolecules.
- Wide variety of aqueous eluents including NaCl, urea, high molarity buffers, etc.

Available columns

There is a wide range of columns available for use the ÄKTA both in the analytical or in the same-preparative fashion.