Fast Trak training and education

Virtual class

Introduction to ÄKTA chromatography systems and UNICORN control software 7.x

Duration: 3 days

Course description

With this interactive virtual class, you'll learn how to use your ÄKTA™ chromatography system and the UNICORN™ software with a well-balanced combination of live online lectures and hands-on experiments in your own laboratory.

During the practical sessions, you will be encouraged to purify bovine serum albumin (BSA) as a model protein to gain hands-on experience in system preparation, method programming, performing a chromatography run, and evaluating the results.

In addition, you'll use the results of a CiPP (Capture, intermediate Purification, Polishing) purification approach to purify enhanced green fluorescent protein (eGFP) while using UNICORN 7.x software modules such as Method Editor and Evaluation (New)/Evaluation Classic.

Who should attend?

- New users of ÄKTA pure or ÄKTA avant systems and UNICORN 7.x control software, including researchers, technical staff, process operators, process supervisors, and project managers
- Users who already have some experience with these systems but want to become more familiar with them

After the course, you will be able to:

- Prepare and control your ÄKTA pure and/or ÄKTA avant chromatography system manually
- Program and run predefined methods, implement scouting functions and method queues
- Work with prepacked chromatography columns and sample applicators
- Evaluate the results file of your chromatography experiment and avoid common handling mistakes
- Perform basic troubleshooting and maintenance tasks on your ÄKTA chromatography system

Prerequisites

- A basic understanding of computer handling and fast protein liquid chromatography (FPLC), including common techniques such as affinity chromatography, ion exchange chromatography, or size-exclusion chromatography
- A computer, camera, and microphone capable of running Microsoft Teams through a web browser or app (a short technical support session is offered at the beginning of this course)

Topics covered

- Introduction to protein purification (CiPP)
- ÄKTA system components and configurations, maintenance, and best practices
- Troubleshooting of common chromatography errors
- Affinity chromatography experiment
- Anion exchange chromatography experiment
- Introduction to UNICORN 7.x:
  - System Control module
  - Method Editor module
  - Evaluation Classic module
  - Scouting function
  - Evaluation (new) module
  - Administration module

Materials

Cytiva will provide you with the consumables required to perform the practical experiments, such as filters and affinity chromatography columns. Additional training materials will be provided in an electronic format.

2021 pricing

Fast Trak Center	List Price	Product Code
Virtual training offered by Fast Trak Germany	1166 (EUR)	29032946

General course information

Fast Trak Education is one means by which Cytiva provides application training in various aspects of bioprocessing. The courses are designed to provide a learning experience for process development and manufacturing staff.

Fast Trak offers training courses on column packing, basic chromatography, optimization and scale-up for both pilot and production scales. We also offer courses on validation issues and chromatography theory. The courses are offered in a variety of formats to meet your unique learning needs, including lab-based courses, live virtual classes, self-paced e-learning courses, and custom courses that can be delivered at your premises.

Cancellation policy

In case you need to cancel your registration, the following charges will apply:

- 30 to 21 days prior to course: 50% of course fee
- 20 to 8 days prior to course: 80% of course fee
- 7 days or less prior to course: 100% of course fee

If you are unable to attend after registered, you may send a colleague in your place or attend another course.

Cytiva reserves the right to modify the course location or course material, substitute speakers, or to cancel the course. If the course is cancelled, registrants will be notified as soon as possible and will receive a full refund of paid fees. Cytiva will not be responsible for airfare penalties or other costs incurred due to a course cancellation.

Course certificate

Upon completion of the course, each participant receives a certificate which states the course name and course date.

Course evaluation

At the end of each course, you will be asked to fill in a course evaluation form. We value your opinion of the course, the speakers, the material, and presentations and use this feedback to continuously improve the courses and their contents.

Language

Standard courses are held in English at Fast Trak Centers in USA, Sweden, Turkey, India, Singapore and Korea, unless otherwise specified. In China, most courses are in Mandarin with occasional courses in English. The courses in Germany are held in German and courses in Japan are held in Japanese. Customized courses can be presented in other languages. Please contact your local Fast Trak center for more information.

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