

Passage du Cardinal 13b
1700 Fribourg (CH)

Fundamentals of downstream processing of biopharmaceuticals

Course information:

Duration: 3 days, with 1.5 days hands-on practical

Net Price: 2'700 CHF, this includes lecture notes, 3x lunch, coffee and snacks

Location: Biofactory Competence Center in Fribourg, Switzerland
No. of attendances: A maximum number of 10 participants is accepted
Course-language: English (for French or German, please contact us)

Registration: Please register on our website, or contact info@bcc.ch for further information

What are the learning outcomes?

- To be able to design a DSP process based on proteins properties
- To understand the properties of contaminants
- To define which resins to use and how to combine them
- To be able to pack columns and characterize them
- ◆ To enable buffer selection
- To be able to perform different types of filtration (dead-end, TFF...)

Program:

Day 1

Morning: Lectures on bioprocesses, protein properties and basic chromatography

Afternoon: Practical 1, Introduction to chromatography units - Perform IEX-run with pre-packed

column - IEX

Day 2

Morning: Lectures on Gel filtration chromatography (SEC) and Ion-exchange chromatography (IEX)

Afternoon: Practical 2, Introduction to column packing - Perform column packing manually using a

preparative chromatography system

Day 3

Morning: Lectures on affinity chromatography, filtration, RP phase and mixed mode

chromatography, and process examples

Afternoon: Practical 3, Introduction to TFF - Perform a concentration and diafiltration of a protein

solution

This program may be subject to minor changes

Further information

- Certification will be handed out to each participant at the end of course.
- Travel and accommodation are not included in the course fee. Flights can be booked to either Geneva or Zurich airport with a direct train connection from both airports to Fribourg.
- Accommodation can be booked in the Alpha-Hotel (www.alpha-hotel.ch), which is only a 5 minute walk from the Biofactory Competence Center.

"Critical Training for an Evolving Market"