

# Method Development and Scale-up for Peptide Purification

## Case Studies for a GLP-1 Agonist and a Peptide Hormone

Peptides have become one of the most important biopharmaceuticals. The high variability related to chain length and sequence of amino acids offers multiple pharmaceutical applications, and leads to specific demands regarding the production and purification.

This seminar therefore aims to provide the knowledge required for development of peptide purification methods based on case studies of up-to-date targets like a GLP-1 agonist and a peptide hormone.

### Content and Learning Objectives



- How to choose the ideal stationary phase: the most significant aspects to consider and the importance of extensive screening
- What to consider for method development: finding efficient conditions by appropriate selection of solvents, pH and buffers
- From overview to focused gradient: how to optimize a robust preparative method
- Linear scale-up: Understanding the principle, system design and sample collection

**25.02.  
2025**

**11-12 am  
(CET)**

### Speakers

Julia Bartmann, **YMC Europe GmbH**

Dr. Yannick Krauke, **KNAUER Wissenschaftliche Geräte GmbH**

Further Information and Registration

[https://ymc.eu/YMC\\_Knauer\\_Webinars.html](https://ymc.eu/YMC_Knauer_Webinars.html)

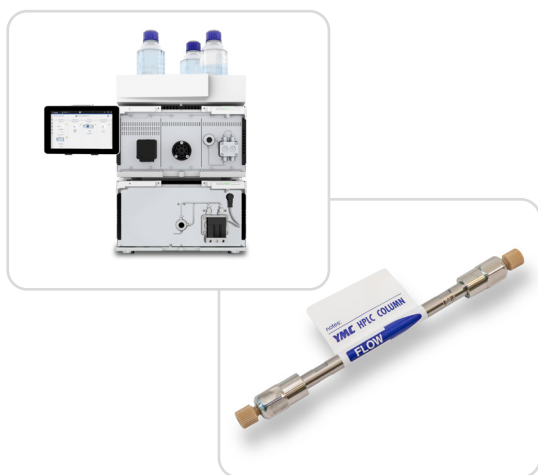
# Purification and Quality Control of Oligonucleotides

## Applying AEX and IP-RP

Oligonucleotides are highly important biopharmaceuticals with strongly increasing relevance. Due to the high similarity of impurities originating from the synthesis, however, purification can be challenging.

This seminar demonstrates a successful large scale purification of an oligonucleotide using anion exchange chromatography (AEX) as well as efficient quality control by applying ion-pairing reversed phase chromatography (IP-RP).

## Content and Learning Objectives



- How to perform a large scale AEX purification: Design of preparative system and useful features
- Benefits and limitations using AEX for preparative purification
- What to consider for developing an IP-RP method: selection of stationary phase, ion-pair reagent, and solvent conditions
- How to improve analytical results by utilizing bioinert column hardware

**01.04.  
2025**

**11-12 am  
(CEST)**

### Speakers

Dr. Ulrike Krop, **KNAUER Wissenschaftliche Geräte GmbH**  
Dr. Daniel Eßer, **YMC Europe GmbH**

Further Information and Registration  
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## Speakers



**Dr. Daniel Eßer**

Daniel Eßer studied chemistry at the University of Applied Sciences Bonn Rhein-Sieg, in Rheinbach, Germany. He received his Ph.D. in pharmaceutical and medicinal chemistry at the University of Düsseldorf, Germany. In 2013 he joined YMC Europe in Dinslaken, Germany, as a product specialist for analytical chromatography. Since 2017, he has been responsible for YMC's analytical (U) HPLC column portfolio as the product manager for analytical chromatography.



**Julia Bartmann**

Julia Bartmann studied environmental engineering with a focus on process engineering at the RWTH Aachen, Germany. After 2 years in client support for chromatography products, she joined YMC Europe as a product specialist for analytical chromatography in 2021. At the end of 2022 she took over the role as product manager for preparative chromatography. Since then, she has been responsible for bulk stationary phases and preparative columns which are provided to clients in the region of EMEA.



**Dr. Ulrike Krop**

Ulrike Krop studied biology and received her Ph.D. in biochemistry and molecular biology from the Humboldt University in Berlin. She joined KNAUER in 2013 as an application scientist for the purification of biomolecules. Since 2021, she is the team leader in the Application & Academy department.



**Dr. Yannick Krauke**

Yannick Krauke studied biology at the Freie Universität Berlin. He received his PhD in molecular and microbiology from the Charles University in Prague, Czech Republic. He joined KNAUER in 2014. As Senior Application Scientist, he is responsible for preparative and continuous purification and has been involved in numerous international research collaborations.

# All online seminars are free!

## Registration and Terms

Simply register for the seminar of your choice using the registration form on the website [https://ymc.eu/YMC\\_Knauer\\_Webinars.html](https://ymc.eu/YMC_Knauer_Webinars.html)

Enrolment for a seminar becomes effective by YMC sending the confirmation of enrolment. You will receive the invitation to the online seminar room a few days before the event. Microsoft Teams will be used as the platform.

YMC Europe GmbH reserves the right to change content and agenda of an event as well as to cancel an event.

The General Terms and Conditions of YMC Europe GmbH apply.

### **YMC Europe GmbH**

Schöttmannshof 19  
D-46539 Dinslaken

Telefon +49 2064 427-0  
Telefax +49 2064 427-222  
E-Mail [info@ymc.eu](mailto:info@ymc.eu)

[www.ymc.eu](http://www.ymc.eu)

### **KNAUER Wissenschaftliche Geräte GmbH**

Hegauer Weg 38  
14163 Berlin, Deutschland

Telefon +49 30 809727-0  
Telefax +49 30 8015010  
E-Mail [info@knauer.net](mailto:info@knauer.net)

[www.knauer.net](http://www.knauer.net)