

## Chromatography

Robust, scalable purification processes for the manufacture of APIs and intermediates



- 1 Process development to full scale
- 2 Low and high pressure separations
- 3 Advanced chromatographic processes

## YOUR INDUSTRIAL CHROMATOGRAPHY PARTNER FOR DRUG SUBSTANCE MANUFACTURING

Industrial chromatography is a cornerstone technology for separating and purifying complex mixtures in drug substance manufacturing. By leveraging selective interactions between molecules and stationary/mobile phases, chromatography ensures precision and reliability throughout the entire lifecycle – from early laboratory screening to pilot scale and full commercial production. We support every stage of development, from early research to commercial manufacturing.

### Evonik offers a unique setup for the development and scale-up of chromatographic processes

- In-house competence center for process chromatography
- Various separation techniques as well as batch and continuous chromatography
- An integrated global network of FDA-inspected cGMP sites in Europe and the USA featuring chromatography
- Professional and transparent project management for exclusive projects from one of the leading CMOs



### INDUSTRIAL APPLICATIONS

Evonik offers chromatography for the purification of APIs and pharmaceutical products at commercial scale

- Multiple flash purification setups for large throughput
- PrepHPLC purification on various scales
- Global presence at Evonik's manufacturing sites in Europe and the United States

### CHROMATOGRAPHY DEVELOPMENT

Evonik's competence center for chromatography in Hanau is the hub for developing cutting-edge purification processes that support our global manufacturing network. By leveraging closed-loop optimization, we continuously refine and enhance purification workflows, achieving superior purity, minimized environmental impact, and cost efficiency. This commitment to innovation positions Evonik as a leader in delivering sustainable, high-performance solutions for the chemical industry.

### ADVANCED CHROMATOGRAPHIC PROCESSES

With decades of experience in the field, Evonik can develop and implement intensified processes:

- Continuous chromatography by means of simulated moving bed for higher productivity
- Continuous ion exchange chromatography
- Recycling chromatography to enhance yield
- Reactor-separator processes

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