



Macromolecules / polymeric APIs

Our focus

- Basic research
- Process development
- Purification processes
- Commercial production



Over 30 plus years experience in developing and manufacturing polymeric carbohydrates make our Fresenius Kabi Austria plant in Linz the partner of choice for your macro-molecule projects. As the world's largest producer of hydroxyethyl starches for use as APIs in volume replacement products, our in-depth knowledge covers the following activities: synthesis of natural / synthetic carbohydrates, development of production processes for macromolecules, up-scaling of



Capabilities

- Lab / Pilot scale
 - Up to 200 L
 - Up to 30 kg
- Commercial scale
 - Up to tons

Technologies

- Multi-purpose & dedicated vessels
- IPC, e.g.:
 - pH & T[°C]
 - Viscosity
 - Pressure
 - Conductivity
- Evaporation
 - Up to 200 L
- Microfiltration
- Ultrafiltration
 - up to 1000 L
- Desalination
- Drying
- Milling
 - Up to 50 kg
- Packaging

these processes from lab scale to full commercial scale, application of chemical / enzymatic modifications, purification of carbohydrates & other macromolecules with our advanced membrane and centrifugation technologies, development and validation of analytical methods and the realization of stability programs according to international guidelines.

All of these expertises enable us to develop, purify and manufacture your molecule of interest for global markets. Our plant in Linz complies with international standards (e.g. Japan) and is approved for the EU and FDA.



Additional Services

- Literature / patent search
- Creation of intellectual property
- Pre-engineering
- Project management (e.g. animal test studies at a CRO)
- Regulatory support