



## Services for biopharmaceutical drug development

### Preclinical development

- Cell line development, *E. coli* strain development
- Cell line adaptation to protein-free and serum-free cell culture media
- Process development and production of preclinical batches

Cell culture and chromatography media supply

Process specific affinity chromatography resin development and supply

### Clinical development

- MCB/WCB
- Process development and production of APIs and pharmaceutical production
- Phase I production
- Phase II production
- Process design verification
- Phase III production
- Process validation
- Drug Master File (DMF)

### New drug application (NDA)

Regulatory guidance

### Market supply

Market supply possible



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