

Biocatalysis

Cambrex is an innovative life sciences company with a refreshingly human approach. Driven by passion, our pharmaceutical products, expertise and technologies are accelerating small molecule therapeutics into the market to help businesses grow.

We offer our customers a truly end-to-end partnership for the research, development and manufacture of their small molecule APIs at every stage of the lifecycle.

Biocatalysis capabilities

Cambrex has >15 years' experience in developing and commercially manufacturing APIs, intermediates and bulk chemicals using biocatalysis.

Biocatalysis provides for efficient and environmentally friendly commercial scale manufacturing through enzymatic synthesis and provides pure -regio, chemo- and enantioselective compounds when compared to traditional chemical synthesis.

Our team of experts can design, optimize and provide R&D screening services using the Cambrex proprietary library of 600 enzymes.

- **Enzyme screening**
- **Enzyme development**
 - Cloning and gene discovery
 - Characterization and description of genes for different enzymes and functions
 - Using different expression systems
- **Process development and enzyme manufacture**
 - Ability to work with different organisms and enzymes
 - Process know-how for industrial enzyme production
 - Process optimization and technology transfer available

Biocatalysis services

- Enzymes available to license for manufacturing chiral products, APIs and intermediates
- Cooperation agreements to screen for new enzymes and develop enzymatic processes
- Analytical method development

Biocatalysis benefits

- Reagents and solvents are biodegradable
- Typical side reactions are avoided, resulting in few by-products and impurities
- High conversion, yield and enantiomeric excess
- Low enzyme and negligible cofactor costs
- Large volume of final product
- Synthetic route development and consulting in biocatalysis



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