

Biocatalysis

Biocatalysis capabilities

Cambrex has extensive experience in developing and manufacturing APIs, intermediates and bulk chemicals using biocatalysis.

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

Degradation of Cyanid poisoned fluids by our enzymes is a new way for wastewater treatment in various industries.

Our team of experts provides enzymes for a large range of chemical reactions using the Cambrex proprietary library of >800 enzymes.

- Ketoreductases
- Transaminases
- Esterases and Lipases
- Nitrilases, Amidases; Nitrile Hydratases
- Oxidases, Aldehydehydrogenases
- Halohydrinedehalogenases
- ENE-Reductases
- Wastewater treating enzymes
- Many special enzymes

We optimize the biocatalytic reaction parameter for our clients to maximize the benefit of our enzymes at industrial manufacturing scale, that includes:

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

As a result, Cambrex offers clients ready to use enzymes and fully developed catalytic processes ready to be integrated into small molecule manufacturing.

Cambrex has a history of producing enzymes at multiton scale (100 ton p.a.) and used in production facilities around the world.



Dieter Plogmann
Business
Development

Capability Highlights

- >800 proprietary enzymes
- Enzymes for small molecule production
- Enzymes for degradation of CN compounds
- Fast enzyme screening and process development
- Established multiton scale enzyme production

About Cambrex

Cambrex is a leading global contract development and manufacturing organization (CDMO) that provides drug substance, drug product, and analytical services across the entire drug lifecycle.

With over 40 years of experience and a growing team of over 2,200 experts servicing global clients from North America and Europe, Cambrex is a trusted partner in branded and generic markets for API and finished dosage form development and manufacturing.