

Enzymaster

**Leveraging the Power of Enzymes to Increase Manufacturing Efficiency,
Reduce Costs & Increase Sustainability**

Enzymaster Overview

Enzymaster focuses on the development and commercialization of enzymes for the innovative and sustainable production of API intermediates, fine and commodity chemicals, and compounds applied in consumer goods.

We assembled an international team of scientists with longstanding expertise in enzyme engineering, synthetic chemistry, bioinformatics, molecular biology, and process development.

Additionally, Enzymaster's proprietary technology platforms, **BioEngine®** and **BioNavigator®**, combine with our scientists' expertise to provide comprehensive solutions for the screening, directed evolution, and commercial manufacturing of enzymes and chemicals produced utilizing our enzymes.

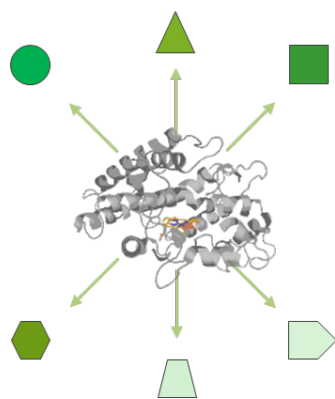
Enzymaster Solutions

- **Enzyme Identification**—screening of available enzyme panels, computational activity prediction, customized enzyme kits
- **Enzyme & Reaction Engineering** - optimizing enzyme by directed evolution, optimization of reaction conditions, enzyme immobilization
- **Process Development** - process optimization & scale-up, downstream process development, enzyme fermentation development
- **Enzyme Manufacturing** - pilot and commercial scales

Benefits of Biocatalysis

Shorter
Synthetic Routes

Broad Spectrum of
Chemical
Transformations



Extraordinary
Selectivity

Mild
Environmentally
Friendly & Safer
Reactions
Conditions



Key Transformations

Enzymaster's enzymes are capable of performing a wide range of transformations, including:

Transamination
Ketone Reduction
Aldol Reaction
Decarboxylation

Hydroxylation
Enoate Reduction
Carboligation
Imine Reduction

Alcohol Oxidation
Aldehyde Oxidation
Aldehyde Cyanation
Nitrile Hydrolysis

The Enzymaster Difference

- Rich scientific expertise and experience
- State-of-the-art, proprietary in silico technologies
- Free technical assessments
- Flexible, fee-for-service business models
- Flexible IP models
- No royalties



Company & Contacts

Düsseldorf (Germany)—International Business Unit

The international business unit located in Düsseldorf serves customers worldwide with a focus on the European and North American markets. From this office, we manage the international marketing of our branded technology and product offers, and accompany our customers through all project phases.

Ningbo (China)—Enzymaster's Headquarters

Enzymaster (Ningbo) Bio-Engineering Co., Ltd. was founded as a Sino-foreign joint venture in Ningbo (China) in 2013. Here, at Enzymaster's headquarters, the company has already gained approximately 237 employees. Located just south of Shanghai, Ningbo and its surrounding area provides a broad network of academic and industrial collaboration partners from the biotechnology and chemical sector.

Key Contacts

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