

# Your Complete Enzyme Engineering and Supply Partner

We provide end-to-end solutions that take enzymes from early discovery to industrial supply, all on a single platform.



Find out more, have a chat with us:



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## From Trial to Pilot Scale with In-house Bioprocess Design

### THIS FEATURE INCLUDES

We support a seamless transition from laboratory discovery to pilot-scale production:

- 1

**1.5 L & 14 L Trials**

1.5 L & 14 L Trials for precise bioprocess optimization and pre-pilot scale-up.
- 2

**150 L Piloting**

With our **150L bioreactor**, we convert lab-scale ideas into industrial-scale operations while producing your product in a controlled environment.
- 3

**Cell lysis / Separation**

Breaking open cells to release their internal contents and remove unwanted components from the lysate through methods like centrifugation or filtration.
- 4

**Product Concentration**

Concentrating and enriching the target product using techniques like ultrafiltration or precipitation.
- 5

**Chromatography**

Purifying the target product based on its properties, such as size, charge, or affinity, using chromatographic columns.
- 6

**Drying**

Removing moisture from the purified product through freeze-drying, spray drying or vacuum drying, to ensure stability and shelf life.

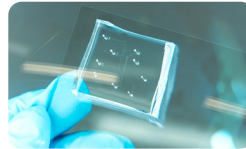
## Transforming biocatalysis with precision and speed

### SOLUTIONS



#### Off-the-Shelf Enzymes

Tap into our growing enzyme library, including unspecific peroxygenases (UPO), transaminases, and glucose phosphorylases (GPH), etc. These high-quality biocatalysts are readily available to power faster development and scale.



#### Custom Development

Go beyond existing products with tailored enzyme engineering. Whether optimizing for your process or building a new product pipeline, Allozymes' team delivers enzymes designed to meet your specifications with speed and reliability.

## Imagine shrinking an entire laboratory into a device the size of a business card

### SERVICES

By manipulating miniscule liquid droplets, we revolutionized the way enzymes are discovered and engineered.



#### Technical Expertise

Allozymes' experienced teams are equipped to handle even the most complex enzyme challenges. Our team will work closely with you to create tailored solutions that meet your unique needs.



#### Go-to-Market Solutions

From development to launch, we deliver high-quality enzymes that align with your specifications while remaining cost-effective.

## Shifting from traditional resource-intensive methods to faster biomanufacturing solutions

### BIOSOLUTIONS

#### Pharmaceuticals

We transform small- and large-molecule manufacturing with enzymes that accelerate discovery and scale-up. By improving efficiency, precision, and reproducibility, we help pharmaceutical companies cut costs and bring therapies to market faster.

Scan to read more →



#### Chemicals

We reshape industrial chemistry with sustainable enzyme solutions that replace harsh, resource-intensive methods. By cutting costs, reducing waste, and meeting large-scale demands, we help companies stay competitive and compliant.

Scan to read more →



#### Life Sciences & Diagnostics

We accelerate innovation in life sciences with engineered enzymes that power advanced tools and research. Our solutions deliver faster, more reliable assays and help companies move from proof-of-concept to market-ready products with confidence.

Scan to read more →





# We Are Your Reliable Enzyme Partner, Delivering Excellence in Quality, Customization, and Scalability



Here's how we help you innovate faster and scale smarter with enzymes for your biocatalytic processes

## Microfluidics & Ultra-High-Throughput Screening

Our proprietary microfluidic platform enables simultaneous analysis of millions of enzyme variants.

### THIS FEATURE INCLUDES:



**Proprietary Chip Designs**

Various chip designs for complex screening workflows.



**Proprietary Droplet Sorter**

Proprietary droplet sorter for precise variant sorting.



**Post-Sorting Automation**

Post-sorting automation for seamless sample handling



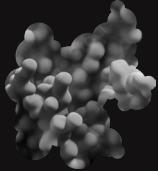
**Generic Detection Assays**

Covering several classes of enzymes with generic and sensitive assays.

## Directed Evolution Workflow

We are building one of the world's most comprehensive enzyme databases, powered by machine learning to predict novel enzyme functions and engineer specific properties.

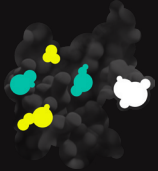
1



**Screening Data or Protein Modelling**

Generate data to drive protein modelling strategies.

2



**Build Diverse Libraries**

Create multiple libraries to explore enzyme activity landscape.

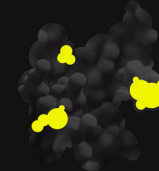
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**Test and Assess Fitness**

Quickly test enzymes for functionality and fitness.

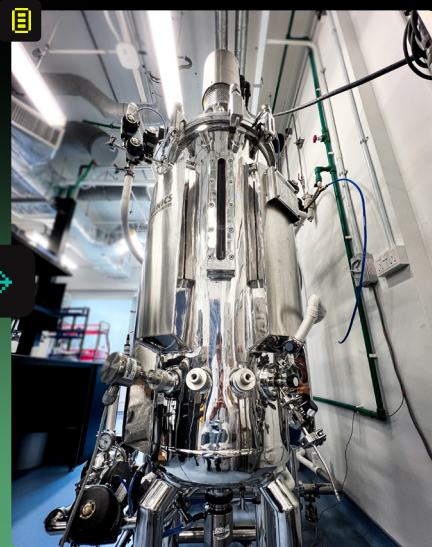
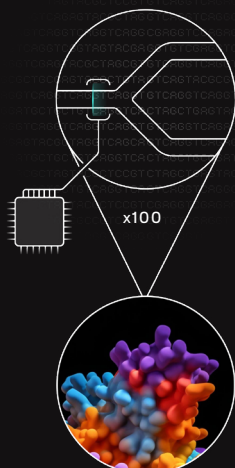
4



**Select the Best Enzymes**

Identify and select top-performing enzymes.

## From Proprietary Microfluidics Technology to Enzyme Supply



Our proprietary microfluidic droplets screen millions of enzyme variants at the nano-scale, identifying the best performers with speed and precision.

We then scale in-house to 150 L pilot bioreactors, ensuring reliable enzyme supply ready for your industrial needs.

**Discover Real-World Case Studies**

[www.allozymes.com](http://www.allozymes.com)

