

BLUEPHA

Founded in 2016, Bluepha is officially recognized as an exemplary company of China's "New quality productive forces" initiative

Shanghai Bluepha Microbiology Technology Co., Ltd. was established in October 2016. The company is a global leader in industrial and consumer biotechnology. It is recognized as a national high-tech enterprise, a unicorn in the field of biomanufacturing, and a designated participant in national key research and development programs. Its headquarters are located in Hongkou District, Shanghai, with additional offices in Beijing and Shenzhen, as well as a production facility in Yancheng, Jiangsu Province.

**Headquarters and R&D Center, BKC Biotechnology
Industrial Park, Hongkou District, Shanghai**

The company's headquarters is situated in the central business district of Shanghai, encompassing a comprehensive R&D pipeline and an innovation incubator, with a total floor area of 12,000 square meters.



**Production Facility – Binhai Coastal Industrial Park,
Yancheng City, Jiangsu Province**

A biomanufacturing factory (BioFab) that integrates the full process of fermentation, extraction, and pelletization, and is positioned as a national leader in quality control and supply capabilities.



CORPORATE HONORS

National High-tech Enterprise

Specialized innovation-driven enterprise

100+ Patents

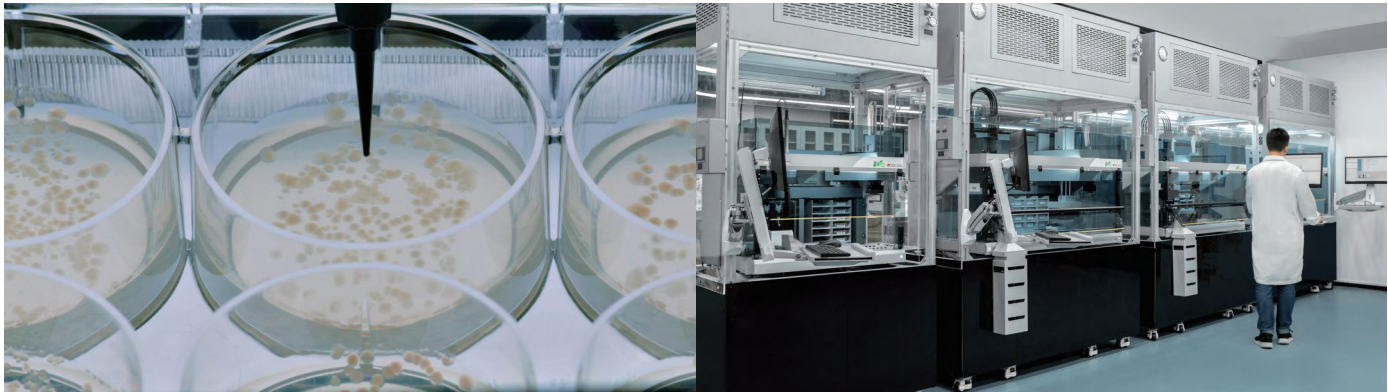


R&D Platforms

The Synbio OS™ R&D Platform, powered by automation and AI-driven technologies, delivers first-in-class high efficiency globally

Bluepha has established an industry-leading, high-throughput automated synthetic biology R&D platform based on years of independent innovation. This breakthrough platform has led to over 100 technological achievements—including patented inventions—and has successfully industrialized several pioneering innovations, including the BioHybrid™ technology.

Undertook two national key research and development projects of the Ministry of Science and Technology, the "Synthetic Biology" project (2020YFA0906900), as well as the "Biology and Information Fusion" project (2021YFF1200500).



Strain design platform



Auto Farm (automated all-in-one: fermentation, sampling, storage)

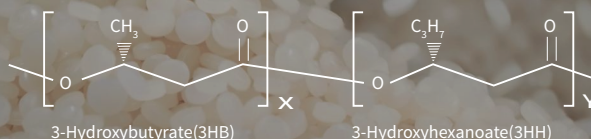
Pilot-scale fermentation platform

The cornerstone of quality assurance, our quality management system, has been recognized nationally



Bluepha® PHA

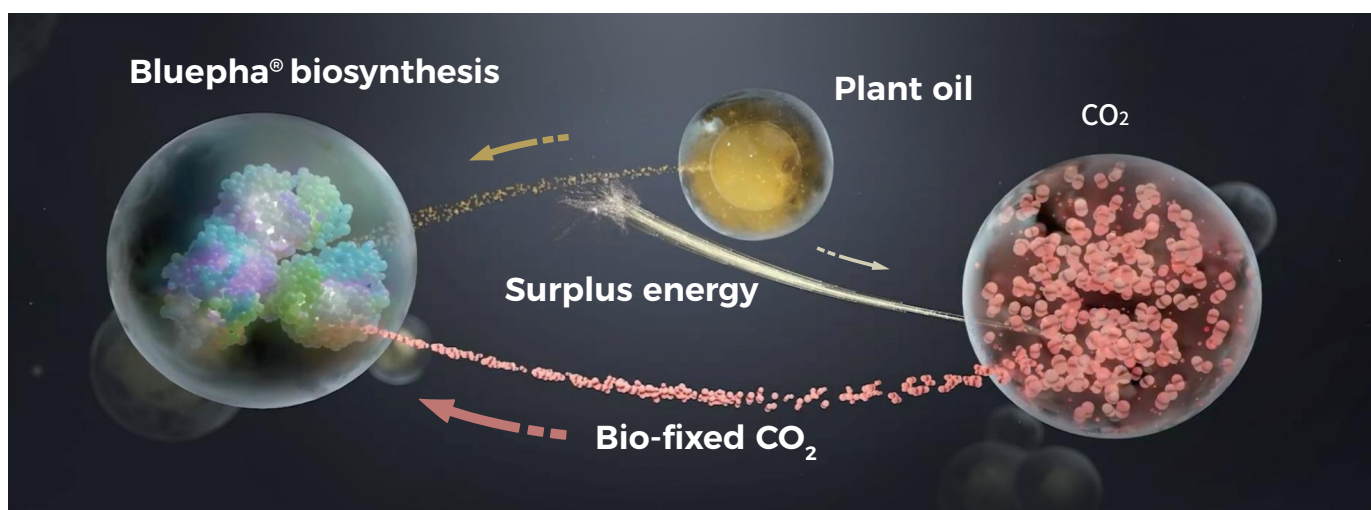
Biobased Polyester, from nature



100% biobased material & Degradable in all environments

Patented PHA production technology —BioHybrid™ * (carbon fixation)

PHA is produced through a mixed carbon source comprising vegetable oil and carbon dioxide. Pilot test results indicate a 12.4% increase in production efficiency. In Bluepha® PHA, 90% of the carbon atoms are derived from vegetable oil, while the remaining 10% originate from atmospheric carbon dioxide. *Patent NO.: 202410019579.X, 202310277052.2 (Pending)



25+ Bluepha® PHA Global Certifications

Biobased



Home Compost



Marine



Water



Food Contact

- ✓ CN GB 4806.7 - 2023
- ✓ EU Regulation (EU) No 10/2011
- ✓ JP Ordinance No 233/1947
- ✓ US FDA 21 CFR

Soil



Industrial Compost



Bluepha® PHA Products



PHA Pure Material

BP330-05 / BP330-PD (Powder)

Applicable Processing Techniques: Extrusion Molding, Thermoforming, Casting, Blow Molding

BP350-05 / BP350-PD (Powder)

Applicable Processing Techniques: Film Blowing, Spinning

PHA compounded material

Straw solution

Injection molding solution

Blown film solution

Thermoforming solution

Extrusion coating solution

Fiber-spinning solution

Bluepha® PHA Straw Solution

SIP DEGRADE **BETTER** | **FREE OF** MICROPLASTIC BPA



- Marin biodegradable & Home / Industrial compostable
- Plant based, from plant oil
- For hot & cold drinks, no saggy (<80°C)
Patent NO.: ZL202310621212.0
- Patented formula free of microplastics
Patent NO.: ZL202210965103.6

○ **Customized Designs:**

Diameter: 5-12mm
Length: 12-30cm

Straight



Flexible



Bluepha® PHA Injection Molding

DINE BETTER | FREE OF MICROPLASTIC BPA



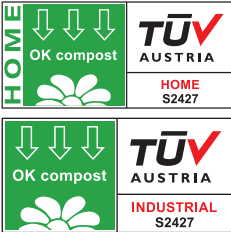
- ☐ Home / Industrial compostable
 - ☐ Plant based, from plant oil
 - ☐ Excellent resistance & flexibility
 - ☐ For hot & cold food (<80°C)
- Patent NO.: ZL202310621212.0

☐ Customized Compounds



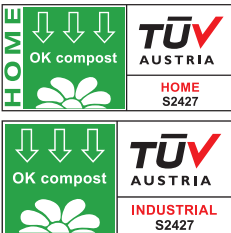
Blown film solution

Home & industrial compostable



Thermoforming solution

Home & industrial compostable



Extrusion coating solution

Marine degradable



Fiber-spinning solution

100% biobased & Industrial compostable

