



Supply Chain

● Steady Supply

With international advanced microbial fermentation, oil refining and microcapsule automatic production lines and a stable supply chain guarantee system, CABIO has the ability to provide steady and reliable supply for customers.

● Traceability

A systematic supplier selection process and a sound raw material risk monitoring plan have been established. Each raw material has been strictly tested and accepted before use to ensure quality, safety, and traceability.

● Quality Safety

CABIO standards the world's first-class food safety and quality management system and realizes the whole process of quality and safety monitoring and prevention from the source to the terminal.

● Access & Regulations

The professional compliance evaluation team escorts the business development of the company.

● Overseas Storage

Overseas factories can produce at any time to cope with any international situation and policy changes to ensure the continuity of the supply chain.

Certification

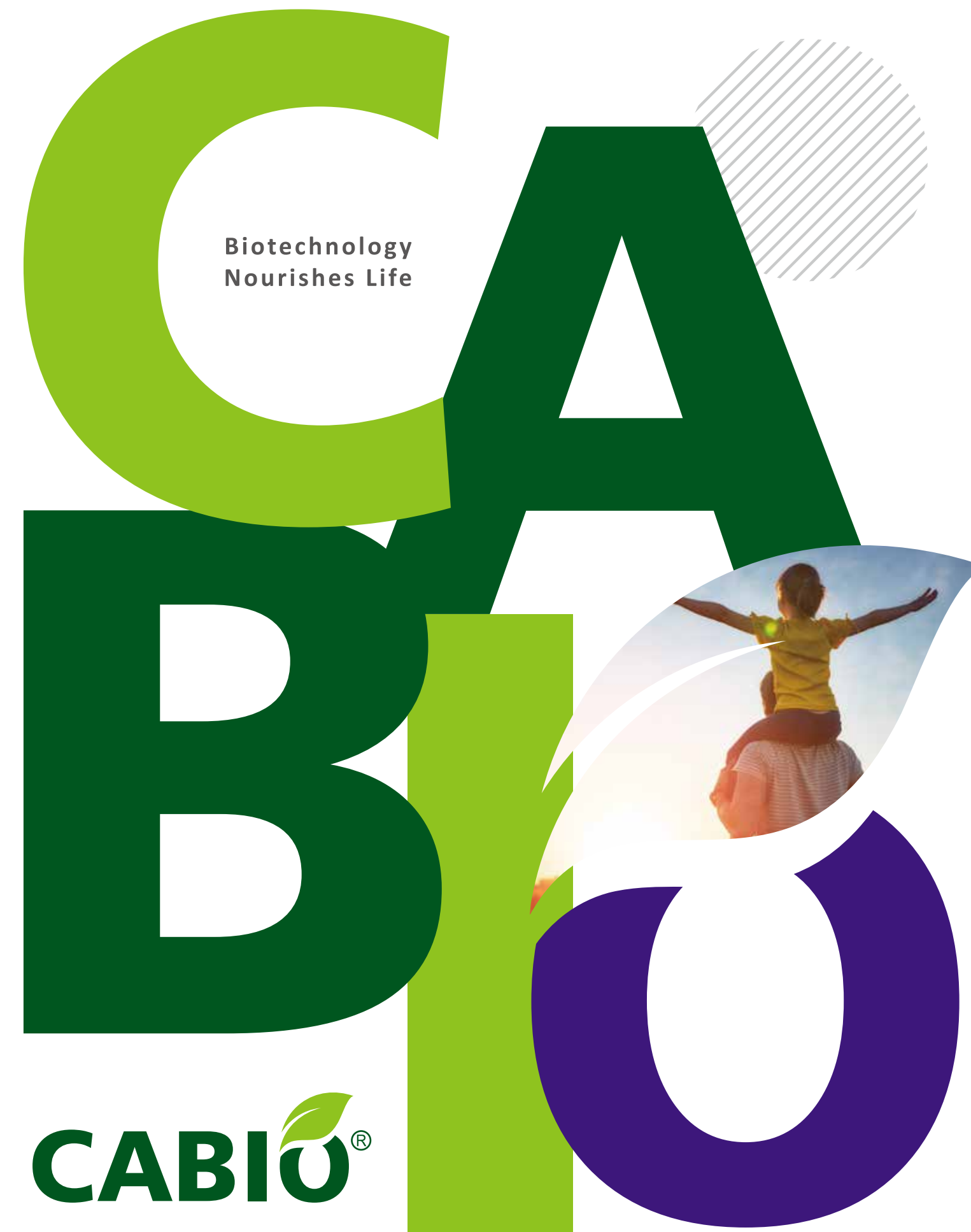


The LCPUFA microencapsulation capacity expansion project went into production at the end of 2022. Capacity expansion has prepared us for a coming increase in market demand. We will be active in response to orders and demand in accordance with new national standards so as to keep further industry-leading.

While stepping up capacity, we have integrated biomanufacturing and smart manufacturing into new factory design. To meet the requirements for global manufacturing plants, we have never stopped introducing a technological platform, smart manufacturing, and digitized operation as part of a plan to expand operations, enhance competitiveness, and boost profitability.



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Biotechnology
Nourishes Life



About CABIO

- ▲ CABIO's Jiangxia Factory
- ▶ CABIO's Gedian Factory

CABIO Biotech (Wuhan) Co., Ltd. ("CABIO" for short), established in September 2004, is a high-tech enterprise underpinned by biotechnology and the first company listed on the Science and Technology Innovation Board (stock code: 688089) in Hubei Province.

After nearly two decades of development, CABIO has built a complete technology transfer platform of industry chain, incorporating directive breeding of microbial strain, fine regulation of cell, high-efficient separation & purification, preparation, directional transmission, high-throughput detection & analysis, among other technology modules. We provide quality functional ingredients and creative solutions to developers of nutrition and health foods worldwide. We have achieved the industrialization of **arachidonic acid (ARA)**, **docosahexenoic acid (DHA)**, **β-carotene (BC)**, **N-acetylneuraminic acid** and other products. Our products are widely applied in human nutrition, animal nutrition, personal care and other fields.

Insisting on technological innovation as a core motivator, we aim to provide quality products and creative solutions on the field of human nutrition, animal nutrition and personal care, obtain high-quality growth and sustainable development, and create long-term values for customers, employees, shareholders and other stakeholders.

Business Area



Synthetic Biology

After 20 years of accumulation, CABIO has formed a leading biological manufacturing industrialization platform technology. On the basis of the existing research and development platform, CABIO actively layouts synthetic biology, sets up a synthetic biology laboratory and launches a number of research projects with technical foresight and market potential, and carries out extensive foreign exchanges and cooperation on synthetic biology and its upstream and downstream industrial technology with some well-known research institutions such as Chinese Academy of Sciences, Chinese Academy of Agricultural Sciences, Tianjin University and Zhejiang University.

Based on this, CABIO will build the "Wuhan Synthetic Biology Innovation Center" which will integrate the concepts of synthetic biology, bioinformatics, bioengineering and other disciplines, actively promote the transformation of Wuhan's academic advantages in biotechnology into industrial advantages, provide guarantee for incubation projects and outstanding talents to land in Hubei, and help build the synthetic biology industry advantages in the middle of China.



Human Nutrition

We aim to become a core global supplier in the supply chain of baby & infant formulas. We have world-class food safety and supply chain management, which extends to functional food and FSMP (food for particular medical purposes). We provide more functional nutrient products and solutions.



Animal Nutrition

Our animal nutrition enterprise, inspired by our human nutrition enterprise, focuses on altering, generating, and structurally balancing fatty acids to provide customers from the pet and animal husbandry industries with precisely-balanced feed-grade fatty acid solutions.



Personal Care

We will continuously focus on state-of-the-art biotechnology, such as ion beams, microbial breeding and fermentation engineering, for the beauty and health industries. We will develop innovative and functional ingredients and integral applied solutions for our personal care customers.

Products

CABIO® ARA

Industrial pioneer of international standard

CABIO ARA (arachidonic acid or eicosatetraenoic acid) is an omega-6 polyunsaturated fatty acid obtained from Mortierella Alpina through bio-fermentation. CABIO ARA was the first among same type of products in China approved by EU as Novel food and GRAs by US FDA. It has been approved and used by many top infant formula food manufacturers at home and abroad.

CABIO ARA series products:

- CABIO® ARA oil (40%-45%)
- CABIO® ARA MSP (10%-20%)
- CABIO® ARA fungus powder (1-20%)



CABIO® DHA

Premium quality for numerous applications

CABIO DHA algal oil is an omega-3 polyunsaturated fatty acid synthesized by single-cell algae based on fermentation process. The whole production process is in a closed and clean environment. It has passed the review of US FDA GRAS and obtained the organic certification of the United States. Food safety and quality are controllable and traceable. The output is not limited by resources, which is a green and sustainable way of supply chain.

CABIO DHA algal oil series products:

- CABIO® DHA oil (35%-40%)
- CABIO® DHA MSP (7%-20%)
- CABIO® DHA winterized oil (40-55%)
- CABIO® DHA algae powder (1-18%)



CABIO® β-carotene

Rich colors and natural vitality

CABIO's β-carotene is a carotenoid product with the features of high purity and natural extract obtained through biosynthesis. It is a workable solution for "the pursuit of natural pigments and natural food ingredients".

CABIO's β-carotene has two series, healthy functional food ingredients and natural colorants.

CABIO β-Carotene Series Products:

- Crystal: 96%
- Oil suspension: 30%



Sialic acid

Gut Health and Skin Whitening

The chemical name of sialic acid is N-Acetylneuraminic acid, which is one of the components of human milk oligosaccharides in breast milk. It is the main component with biological activity and characteristic effect in traditional high-level tonic bird's nest, and it is also the only indicated nutrient ingredient in bird's nest grading. The content of sialic acid is an important index to evaluate the quality of bird's nest.

As a new functional component, sialic acid can effectively promote the development and functional repair of nerve cells, epithelial cells and immune cells, improving immunity, promoting intellectual development, nourishing skin, and delay aging. In 2022, approved by the National Medical Products Administration, the efficacy of sialic acid in anti-wrinkling and anti-oxidation is increased to anti-wrinkling agent, antioxidant, skin protectant and moisturizer.

CABIO Sialic acid products:

- Purity of sialic acid: ≥98%(HPLC)



Salecan® β-1,3/α-1,3-glucan

Salecan® β-1,3/α-1,3-glucan is a new type of water-soluble glucan, a new type of water-soluble exopolysaccharide produced by fermentation of patented strains. It is a straight chain structure of repeating units connected by seven β-1,3-glycosidic bond and two α-1,3-glycosidic bonds, without side chains.

It can boost immunity, bonds, improve defecation, lowers levels of blood sugar and blood lipids, repair intestinal mucosae, improve fatigue, repair liver injuries, and regulate intestinal flora.



Product Highlights

- 100% water-soluble
- High purity
- Pure & natural
- Good stability
- Good processability

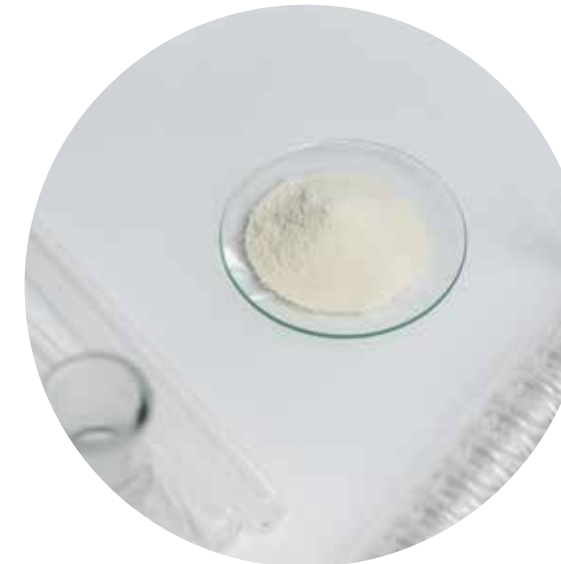


HMOs

HMOs, human milk oligosaccharides, are human milk's third richest solid component, second only to fat and lactose. 2'-fucosyllactoses (2'-FLs) are neutral fucosylated HMOs, accounting for 31% of all HMOs by mole fraction. 2'FLs have been one of the most clinically explored HMO groups so far. Investigations have shown them to be safe for infants, well tolerant, beneficial to the microbiome, and influential on the related immunity parameters. Adult supplementation of specific 2'FLs can also affect the microbiome while alleviating symptoms of irritable bowel syndrome (IBS). That means a boost to the quality of life.

Product Functions:

- Antibacterial/Antiviral
- Immunoregulation
- Supporting brain development
- Regulating intestinal flora



Elastin

Elastin, collagen, and hyaluronic acid are the three major components of the dermis where elastin and collagen crosslink to form elastic protein.

Elastin extracted from ligaments of the sturdily of a horse neck serves as a high-end material rich in desmosine and isodesmosine. - Successful human clinical experiments - Low molecular weight and highly water-soluble - Very safe food-sourced material. No need to worry about BSE, pandemics or excessive heavy metals.

Product Function

- Moisturizing and anti-wrinkle
- Whitening and repairing effects
- Strengthening ligaments, enlarging chest, and lifts hips
- Strengthening cardiovascular and cerebrovascular

