



MOLECULAR HEALTH™
TECHNOLOGIES, LLC
www.MolecularHealthTech.com



**abode
biotec**

The science of good

**Pioneering probiotics
for a healthier world**



Probiotic manufacturing experts with a passion for health and innovation

For us, probiotic discovery starts with one driving, simple question: How can we use science to do more good for more people?

With this goal in mind, Abode Biotec® is always seeking new insights and improving on ways of developing the most efficient probiotic solutions with the highest potency and quality that create genuine value for people.

We are dedicated to quality, research, and product development that serve global customer needs. These commitments underlie our mission to bring unique value to our customers by providing probiotic ingredients for health and wellness support. We thrive on creating and cultivating lasting partnerships that drive probiotic strain commercialization.



High-performance probiotics —

for commercial success
for global wellness



Your probiotic formulation journey starts here

Since our founding in 2008, our purpose-driven approach has inspired us to develop high-performance probiotics that support not only human well-being, but also the success and evolution of the many companies we partner with. Our global customer base spans the U.S., Europe, and Asia.

Leave probiotic manufacturing up to us

We specialize in the full-cycle, in-house production of high-quality probiotic cultures, supported by advanced R&D, robust fermentation infrastructure, and rigorous quality control. Our end-to-end manufacturing services include R&D, contract manufacturing, technical support, and new product development. Our modern facilities are equipped with fermentation capacities exceeding 100m³ and Contract Fermentation vessels ranging from 100 to 15,000 liters, meeting both small- and large-scale manufacturing demands. This enables us to deliver flexible, customized solutions that meet diverse application and volume needs, all with enhanced speed, traceability, and supply chain reliability.

Get expert guidance every step of the way

With nearly 25 years of healthcare experience, our team brings deep scientific expertise in microbial fermentation, biotechnology, and probiotic strain development. We oversee every step of the upstream and downstream processes to ensure exceptional purity, potency, and stability. Our commitment to quality is backed by GMP and GLP standards, comprehensive documentation, and international certifications including FDA GRAS, Halal, HACCP, WHO-GMP, FSSAI, ISO 9001. From discovery to finished product, our R&D and regulatory teams ensure that every solution we deliver meets global safety, compliance, and performance standards.



ProBC Plus

Bacillus coagulans LMG S-31876

Highly resilient GRAS spore-forming probiotic ingredient for gut, immune, and nutrition support

Spore-based probiotics: discovering ProBC Plus *Bacillus coagulans* LMG S-31876

Our proprietary probiotic strain ProBC Plus (*Bacillus coagulans* LMG S-31876, recently reclassified as *Heyndrickxia Coagulans*) adds a competitive advantage to your products. ProBC Plus is a spore-forming probiotic ingredient with exceptional stability that can be used by product manufacturers to create versatile probiotic foods and beverages.

Unlike many other probiotic strains on the market, ProBC Plus remains viable during extreme manufacturing conditions and can withstand the harsh environment of the gastrointestinal tract. This makes it ideal for innovative and diverse formulations in both foods and beverages.

What is *Bacillus coagulans*?

Bacillus coagulans species are among the most well-characterized and studied probiotics within the *Bacillus* genus. *B. coagulans* strains have been used worldwide as probiotics for over five decades and have an even longer history of use in many traditional fermented foods. *Bacillus coagulans* is naturally present in foods like fermented rice, maize, cabbage, bamboo shoots, green tea, and kombucha. Our ProBC Plus is the only *Bacillus coagulans* strain isolated from rice that has been characterized in detail and studied both preclinically and clinically, creating a huge market opportunity.

What are spore-based probiotics?

Spores are dormant, highly resistant probiotic forms that can survive extreme environmental conditions. *Bacillus* species are well-known spore-formers and among the hardiest biological agents on Earth. Spores are not sensitive to heat, moisture, or aerobic conditions. They germinate only once they sense favorable conditions. For this reason, spore-forming probiotics offer unique survivability, tolerance, and targeted action where other live cell probiotics fall short. They also produce many valuable metabolites and have a wide therapeutic potential.

SUITABLE APPLICATIONS



Confectionery and gummies



Bars and cereals



Hot and cold beverages



Bread and baked goods



Protein and plant powders

Exploring ProBC Plus *Bacillus coagulans* LMG S-31876

- Proprietary strain of Abode Biotec®
- Part of Abode Biotec®'s Human Health probiotic line
- Produces L+ lactic acid beneficial to the gut
- Identified and well-documented strain source

ProBC Plus *Bacillus coagulans* LMG S-31876 Product Specifications

- Highly concentrated spray dried powder with improved dispersion
- Flexible pack sizes: 5-25kg
- Shelf life: shelf-stable for over 2 years
- Potency from 6 to 250 billion CFU/g
- USFDA GRAS approved



ProBC Plus *Bacillus coagulans* LMG S-31876 commercial advantages



Resistant to high temperatures during the manufacturing process



Remains 100% viable during passage through the gut



Easy to use in foods, beverages, confectionery, and supplements



Germinates in the small intestine within 4–6 h after ingestion



Doesn't negatively impact the flavor or consistency of foods and beverages



Tolerates ambient storage conditions for functional foods

ProBC Plus *Bacillus coagulans* LMG S-31876 potential human health applications

- 3 published clinical studies with future studies in the pipeline
- Researched in IBS-D patients for digestive health support
- May support gastrointestinal health
- May contribute to healthy protein absorption
- May support immune function and a healthy stress response
- Transiently colonizes the gastrointestinal tract without permanent colonization
- Contributes to a healthy gut microbiome and helps suppress pathogenic microbes



ProBC Plus *Bacillus coagulans* certifications

- Safe GRAS
- Allergen-free
- Organic
- Non-GMO
- Vegan
- Kosher
- Halal



Key Attributes



Exceptional stability
for processing,
shelf life, and
use



Versatility
suitable for
diverse food
and beverage
applications



Clinically documented
backed by 3
clinical trials and
dozens of
published
research papers

ProBC Plus

Bacillus coagulans LMG S-31876

Specifications

Product Specifications

Product Name	<i>Bacillus coagulans</i>
Ingredient	Spore-forming lactic acid bacteria with excipient
Appearance	Free flowing, white to pale brownish powder
Morphology	Oval spore on germinating rod-shaped vegetative cell
Fermentation type	Homolactic fermentation (yielding L-lactate)
Gram staining	Positive
Storage	Store in a cool, dry place
Potency	6 Billion to 250 Billion CFU/g

Product and Facility Certifications

Certificate Of Analysis	Aflatoxins Free Declaration
Material Safety Data Sheet	Melamine Free Declaration
Method Of Analysis	Additive Source Information
Stability Data	Vegan Statement
Genetically characterized <i>Bacillus coagulans</i>	FSSAI
GRAS (FDA-Notified, No Objection Letter) Certification	USFDA
Residual Solvents Free Certification	Halal Certification
Antibiotic resistance profile	Kosher Certification
Allergen Free Declaration	WHO GMP Certification
BSE TSE Free Declaration	ISO 9001:2015
Non-GMO Declaration	ISO 22000:2018
Irradiation Free Declaration	HACCP
Gluten Free Declaration	FAMI QS
Heavy Metal Declaration	FSMS
Pesticides Free Declaration	QMS
Statement of composition	

State-of-the-art fermentation facilities

We pride ourselves on our state-of-the-art manufacturing fermentation facilities optimized for manufacturing probiotic cultures. Our facilities have fermentation capacities of over 100m³, equipping us to produce a diverse range of probiotic products that meet the highest quality standards in the industry.



ACCREDITATIONS AND CERTIFICATIONS



Abode Biotec® is a biotechnology company specializing in manufacturing probiotics and functional health ingredients for the dietary supplement, functional food, animal health, and pharmaceutical industries. Our core ingredient, Bacillus coagulans ProBC Plus, offers exceptional stability, targeted germination, and formulation flexibility. ProBC Plus enables manufacturers to meet growing consumer demand for gut health, immune support, and stress resilience. Abode Biotec® also provides contract manufacturing services that meet diverse customer demands. With in-house fermentation facilities, GMP-certified processes, and collaborative R&D partnerships, Abode Biotec® delivers scalable, science-backed solutions, helping our customers bring high-impact products to market efficiently and responsibly. Learn more at: www.abodebiotec.com.

Because local laws and regulations related to the distribution, marketing and sale of ingredients and finished products vary, Abode Biotec disclaims any regulatory compliance, warranties, product guidance or instruction of any kind. This brochure is provided for business-to-business communication and educational purposes only without warranties of any kind. Users should seek legal and/or regulatory advice prior to the market introduction of any Abode Biotec strain and before use of any claims to ensure compliance and thereafter on an ongoing basis when required.

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📍 48 Essex Street, suite 204, Millburn,
Nj 07041, USA

☎ 888-648-2468 X 105

📱 908-403-7518

✉ sales@mhthealth.com

🌐 molecularhealthtech.com

