

INNER BEAUTY

Strong from Within,
Clearer on the Outside -
Biorhythm



Biorhythm probiotics
represent safe food science,
cellular normalization biotechnology, and healing
medicine.



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Biorhythm Biotechnology Research Institute, Inc.

This product is intended as reference material to assist international buyers and
expatriates in understanding it.

HISTORY

Biorhythm Probiotics embody safe food science, life science for cellular normalization, and healing medicine.

Establishment of a Research and Development Network for Kimchi Probiotics

2000. 01

Incorporation of Biorhythm Co., Ltd. (Asan Court)

2008. 10

Health Functional Food Manufacturing License Completed (Korea Food and Drug Administration)

2009. 02

Company Relocation - 686-4 Yangcheong-ri, Ochang-eup, Cheongwon-gun, Chungcheongbuk-do

2011. 01

Certified as "Excellent Bio Product," 17 products launched, Product Certification (No. 11-3010-001)

2012. 03

2012 Korea Invention Patent Expo, Director of the Korean Intellectual Property Office Award - CEO of Biorhythm Co., Ltd.

2012. 11

Establishment of the Corporate-affiliated "Biorhythm Biotechnology Research Institute" (Ministry of Science, ICT, and Future Planning)

2015. 04

Biorhythm Co., Ltd. GMP Yongin Plant Completed

2021. 10

Patent Application: Method for Manufacturing a New Concept Bead-Shaped Probiotic Product Using Probiotics Patent Application Number: 10-2022-0111627

2022. 11

Launch of LAC K-1 Skin Immunity Probiotics

2024. 02

2008. 10

Food Manufacturing and Processing Permit (Asan City Hall)

2009. 01

Food Manufacturing and Processing Factory Registration (Asan City Hall)

2009. 06

Venture Company Registration (Technology Evaluation and Guarantee Company) - (Technology Guarantee Fund)

2011. 04

\$360,000 Export to Southeast Asia: Oriyen Korean Kimchi Concentrate Powder

2012. 09

Awarded the Technology Innovation Award by the Small and Medium Business Technology Innovation Association at the Small and Medium Business Technology Innovation Expo.

2014. 12

U.S. FDA Factory Registration + Facility Registration + Product Registration + Safety Evaluation Completed

2017. 07

Designated as an Export-Competitive Small and Medium-sized Enterprise - Biorhythm Co., Ltd. (Chungbuk Regional Small and Medium Business Administration)

2022. 03

Biorhythm Co., Ltd. Completed GMP Certification for Excellent Health Functional Food Manufacturing

2023. 12

Administration of three types of probiotics, *L. plantarum* K-1, *L. gasseri*, and *L. casei*, on a monthly basis demonstrates effects on blood lipid metabolism and anti-obesity efficacy - Published in academic journals.

COMPANY

Greeting

Selected as one of the top 5 health foods by a U.S. health magazine, "Kimchi" contains the hidden treasure of "Kimchi Probiotics." Using advanced cell engineering and biotechnology, we create health supplements from these probiotics.

Biorhythm Co., Ltd., as a venture company, has been producing patented products since 2008, including special microencapsulated Kimchi Probiotics, which combine the iconic Korean food "Kimchi" with bioengineering. This groundbreaking technology improves intestinal function, and we are confident that "Kimchi Probiotics," a treasure passed down through thousands of years of Korean heritage, will remain a lasting health supplement for all humanity.

Our corporate-affiliated Biomedical Engineering Research Institute conducts diverse projects related to Kimchi probiotics and human health. In cooperation with local communities, research institutions, and universities, we have established a global network for research and development, focusing our efforts on advancing bioengineering and biotechnology on a global scale.

Having been certified for producing excellent bio-products since 2011, we are currently manufacturing these products with FDA factory registration, FDA facility registration, FDA product registration, and safety and nutrition evaluations. These products were also awarded the Director of the Korean Intellectual Property Office Award and the Technology Innovation Award in 2012.

All Biorhythm products are manufactured at GMP-certified facilities, ensuring high quality and superior standards. We aim for fast and complete treatment of conditions such as atopic dermatitis, allergies, hives, eczema, anaphylaxis, psoriasis, rhinitis, asthma, seborrheic dermatitis, acne, irritable bowel syndrome, folliculitis, constipation, gastroenteritis, Crohn's disease, Behçet's disease, freckles, melasma, and tongue coating.

Director of Biorhythm Co., Ltd. Biotechnology Research Institute

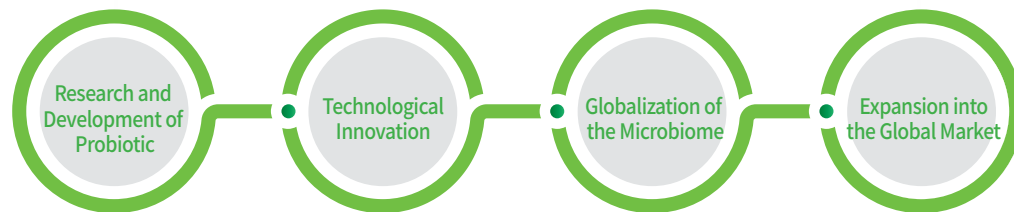
Dr. Yong-Hyun Jung, Ph.D. in Food Engineering



CERTIFICATES

Biorhythm Co., Ltd. is a company specializing in the development of Kimchi probiotics and probiotics, contributing to globalization.

Biorhythm's Technological Expertise!
Over 25 years of achievements and an ongoing challenge.



Research and development addressing the structure of the human digestive system and immune system.

Special Microencapsulation Technology to Maximize the Survival Rate and Efficacy of Probiotics

Scientifically proven effects and functionality of probiotics in boosting immunity, promoting gut health, and enhancing clear skin.

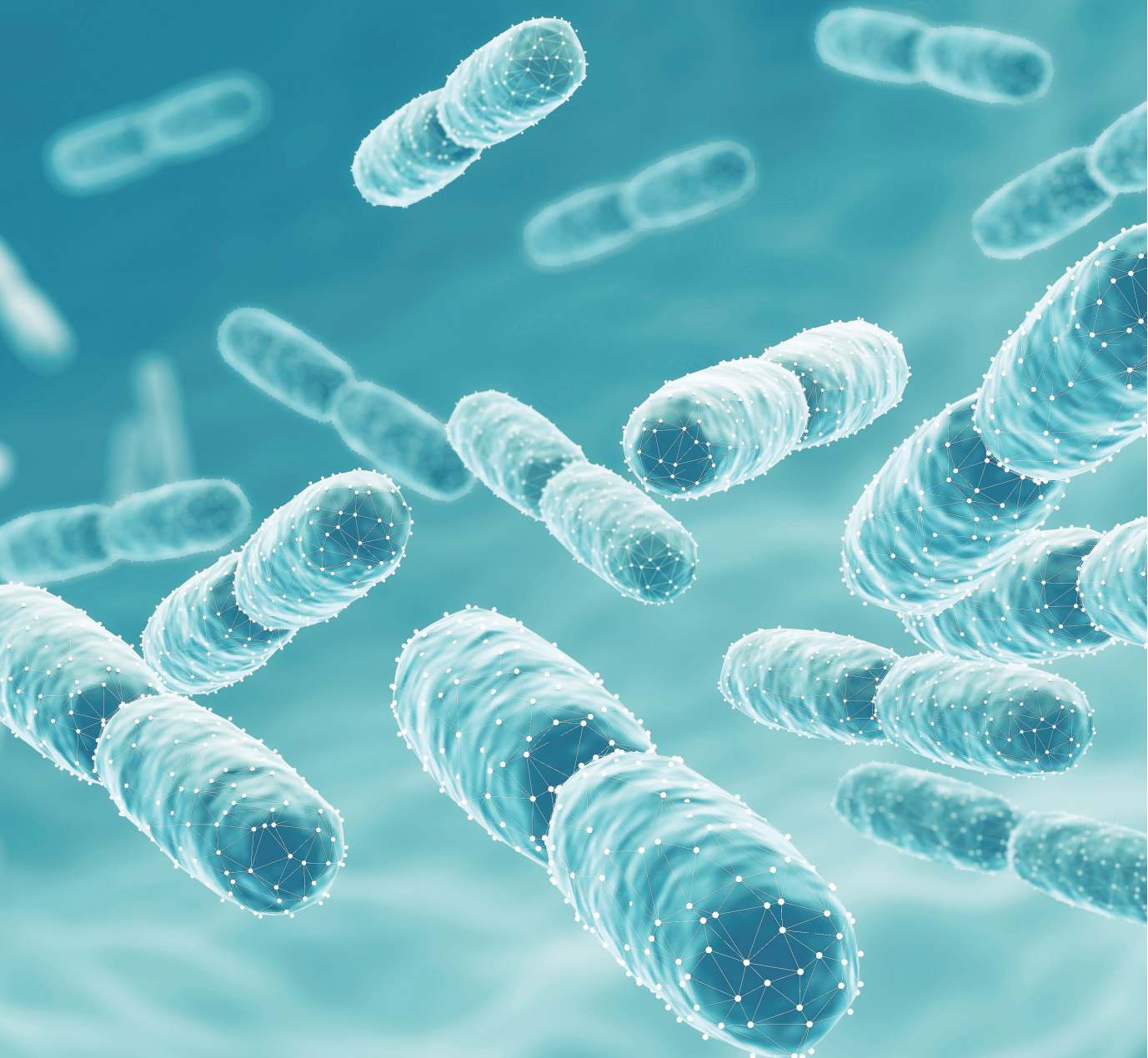
Exporting probiotics based on their efficacy to various countries, including Southeast Asia and Europe.



EXPERIMENT

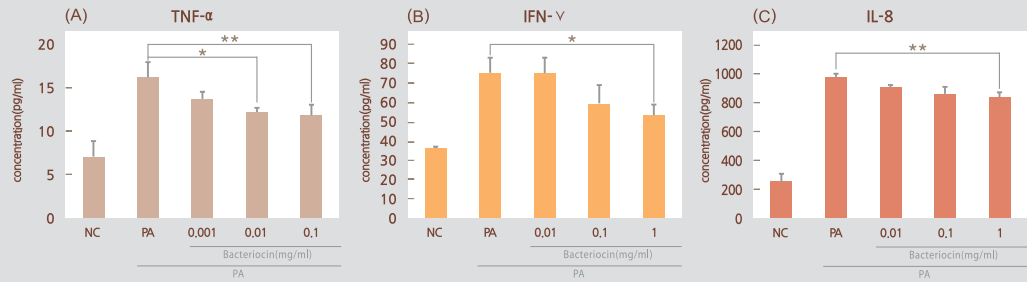
Achieving skin health and allergy relief with Kimchi probiotics!

Biorhythm's Kimchi probiotics regulate immune responses, alleviating skin inflammation and itching, while effectively suppressing allergy symptoms. They boast excellent efficacy with safety, derived from natural ingredients.



Experimental Testing 1

Treatment Results



Acne Treatment Effectiveness:
Inhibition of inflammatory cytokine secretion by bacteriocins: A significant difference from the PA group, as determined by Dunnett's t-test: *p<0.05 **p<0.01

Acne Treatment Effectiveness
(Effectiveness in Treating Inflammatory Skin Diseases)

Fig 1.

Suppression of expression of the inflammatory cytokines by crude bacteriocin isolated from *L. plantarum* K-1 BR. (A-C) TNF-α, IFN-γ and IL-8 expression in HaCaT cells with the treatment of *P. acnes* (1×10^7 CFU/mL) and three different concentrations (0.01, 0.1 and 1 mg/mL) of crude bacteriocin, respectively. Significant difference from *P. acnes*-treated (PA) group by Dunnett's t-test (* p<0.05 and ** p<0.01). NC, normal control.



In mice, regarding the alleviation of itching behavior and passive skin hypersensitivity response.
The allergy-suppressing effects and immune-boosting effects of the probiotic *L. plantarum* K-1 (LP).
Solve it with Biorhythm Kimchi Probiotics!

Experimental Testing 2

Treatment Results

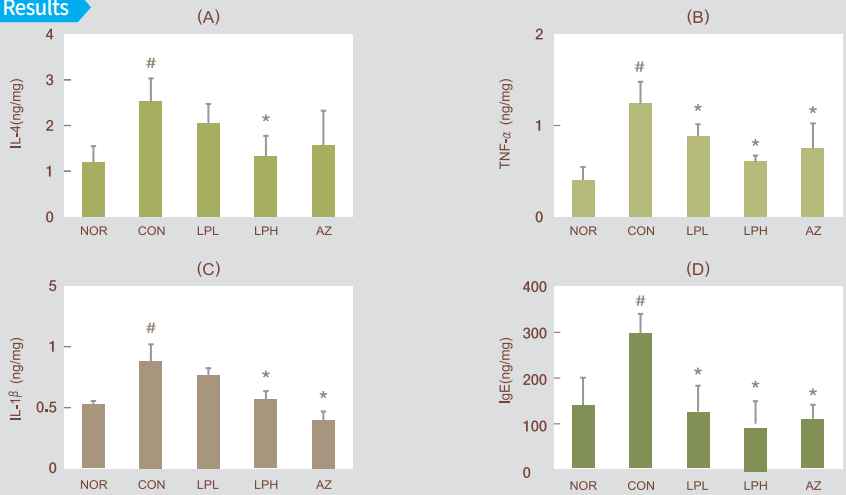


Fig 2.

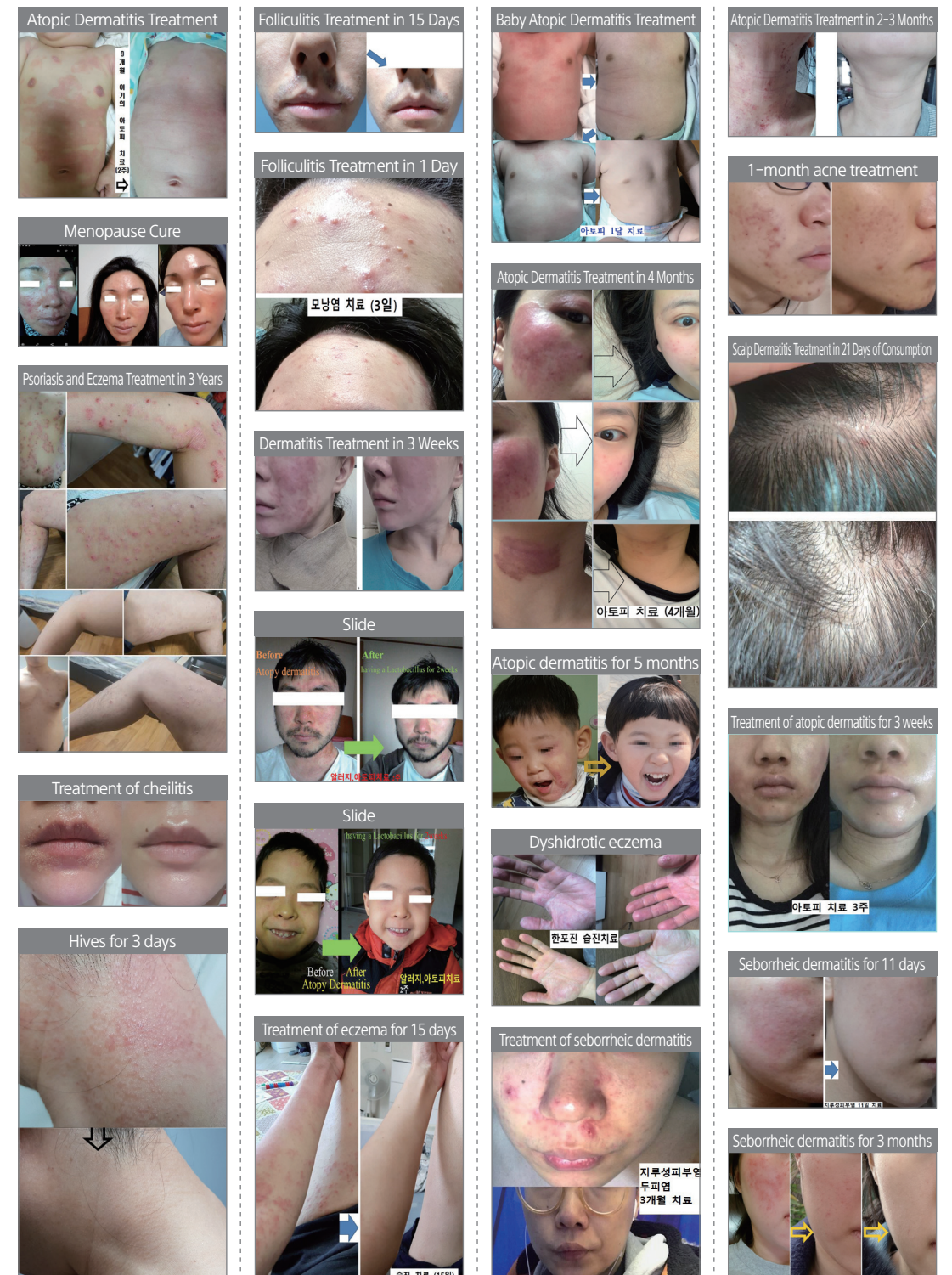
Inhibition effects of *Lactobacillus plantarum* K-1 on the expression of IL-4 (A), TNF-α (B), IL-1β (C), and IgE (D) in histamine-induced mouse skin tissue. The levels of IL-4 (A), TNF-α (B), IL-1β (C), and IgE (D) were measured by ELISA. *L. plantarum* K-1 and azelastine were orally administered to mice once a day for 3 days. NOR: Normal group; CON: Histamine-only treatment; LPL: Histamine and *L. plantarum* K-1 (1×10^9 CFU); LPH: Histamine and *L. plantarum* K-1 (1×10^{10} CFU); AZ: Histamine and 10mg/kg azelastine. Mean $\pm$ SD (n=5). #p<0.05 vs. normal control group, *p<0.05 vs. histamine-treated group.

SKIN TREATMENT SOLUTIONS

Acne Treatment Solution

We analyze the root causes of skin troubles and offer personalized treatments. Rather than just alleviating symptoms, maintain healthy skin through improving your constitution. Create confident, healthy skin with Biorhythm probiotics today

Consumption Review / Before & after



SKIN DISEASES AND IMMUNE HEALTH

Integrated solution for skin conditions and immune health

We scientifically analyze the relationship between skin troubles and immune balance.

Take the first step toward a healthy body and clear skin today!



Lactobacillus plantarum K-1

- **Key Ingredient:** Lactobacillus plantarum K-1
- **Effects:** Alleviates inflammatory skin conditions such as atopic dermatitis, acne, rhinitis, seborrheic dermatitis, and boosts immunity
- **Features:** A product that enhances cost-effectiveness by isolating the strongest probiotic found in kimchi and offering it in a bulk pack
- **Volume:** 500g / 1 pack



Lac K-1 Skin Immunity Probiotics

- **Key Ingredient:** Individually approved probiotics, Bifidobacterium lactis, probiotic culture extract, zinc, selenium, biotin, vitamin D
- **Effects:** Helps improve skin condition related to immune hypersensitivity (Grade 2 bioactive function) Individually approved (Functional Ingredient Approval No. 2013-17)
- **Features:** A synbiotic formula that addresses overall health from the gut to the skin in a single dose
- **Volume:** 30 sachets / 1 box



Carecne

- **Key Ingredient:** Lactobacillus plantarum K-1, Vitamin A, C, D, Zinc
- **Effects:** Alleviates acne and skin troubles, helps maintain skin mucosal formation, improves immune function and gut health
- **Features:** Addresses skin concerns such as acne, folliculitis, miliaria, and sebaceous cysts
- **Volume:** 30 sachets / 1 box



BALANCE OF INTESTINAL HEALTH

Restore the balance of health by promoting the growth of beneficial gut bacteria!

Improve digestive and immune health by promoting the growth of beneficial gut bacteria and inhibiting harmful bacteria. Experience vitality starting from within by supporting smooth bowel movements. Start your journey to a healthy gut with BioRhythm probiotics!



Golden Bead

- **Key Ingredient:** Psyllium husk dietary fiber, probiotics
- **Effects:** Promotes the growth of beneficial gut bacteria, inhibits harmful bacteria, improves bowel movements, boosts immunity, and helps improve blood cholesterol levels
- **Features:** The first oral freeze-dried formulation combining dietary fiber and probiotics, offering easy consumption and fast-acting bowel movement effects
- **Volume:** 330g / 1 pack



Golden Bead (Powder)

- **Key Ingredient:** Psyllium husk dietary fiber, probiotics
- **Effects:** Promotes the growth of beneficial gut bacteria, inhibits harmful bacteria, improves bowel movements, boosts immunity, and helps improve blood cholesterol levels
- **Features:** A combination of psyllium husk fiber and probiotics that quickly improves constipation and other bowel disorders
- **Volume:** 30 sachets / 1 box



GUT HEALTH AND IMMUNITY

Boost both bowel health and immunity with kimchi probiotics!

Live probiotics extracted from kimchi improve gut health and strengthen immunity.

Eliminate toxins from your body through smooth bowel movements and maintain a healthy balance.

Experience natural health solutions with BioRhythm today!



Kimchi Live Lactobacillus

- **Key Ingredient:** Live probiotics extracted from kimchi
- **Effects:** Promotes the growth of beneficial gut bacteria, inhibits harmful bacteria, and improves bowel movements; strengthens immunity
- **Features:** Patented triple-coating method increases survival rates in the small and large intestines
- **Volume:** 30 sachets / 1 box



Kimchi Live Lactobacillus- BIOCAPSULE

- **Key Ingredient:** Kimchi live probiotics bio-capsules
- **Effects:** Improves gut function and promotes smooth bowel movements
- **Features:** Convenient capsule form for easy gut health management
- **Volume:** 80 capsules / 1 bottle



Kimchi Lactobacillus Kids

- **Key Ingredient:** Probiotics (17 types of lactobacilli), Vitamin A, C, Zinc, etc.
- **Effects:** Strengthens children's gut health and immunity, supports skin mucosal formation
- **Features:** Free from added sugar and fat, designed for easy and enjoyable consumption by children
- **Volume:** 30 sachets / 1 box



BODY FAT REDUCTION AND CHOLESTEROL

A scientific approach to body fat reduction and cholesterol improvement

Discover a smart solution that manages both healthy weight and vascular health.
Start a lighter body and more vibrant life with BioRhythm today!



Cereal Yogurt

- **Key Ingredient:** A blend of various grains, probiotics, and dietary fiber
- **Effects:** Enhances gut health, improves constipation, and provides nutritional balance
- **Features:** Can be used as a meal substitute, suitable for busy modern individuals, children's snacks, and as a diet for gut health patients
- **Volume:** 1kg / 1 pack



Makeslim

- **Key Ingredient:** Probiotics, Psyllium husk dietary fiber, Garcinia Cambogia extract
- **Effects:** Reduces body fat, improves cholesterol levels, and promotes smooth bowel movements
- **Features:** A convenient intake method for a healthy diet
- **Volume:** 500g / 1 pack

