

Innovation Drives Development

H&H has been specialized in probiotics for 25 years. Our R&D team is led by experts and professors from United States and Europe, as well as domestic experts and consultants, consisting of more than 30 researchers. We have established long-term collaboration with many famous universities and scientific institutions for the development of live biotherapeutics, functional probiotic strains, and animal or clinical trials.

Precise Screening of Functional Probiotic Strain

H&H is committed to expand our strain library by isolating new strains from the valuable microbial resources, such as traditional or natural-fermented food, feces of both healthy adults and breast-fed infants, as well as human breast milk.

Culture Collection

H&H has expanded our probiotic strain collection to more than 7000 deposits. Among them, 72 strains have been developed for production at industrial scale. The safety of probiotic strains is in compliance with EFSA's Qualified Presumption of Safety and relevant Chinese laws and regulations.

Characteristics of Functional Strains

H&H has developed novel culture optimization system for probiotic industrialization. This system is based on our knowledge in microbial physiology and biochemistry, precisely controlled production, and evidence-based efficacy research (in vitro, animal and clinical trials), to demonstrate:

- ✓ Obvious efficacy
- ✓ Acid and bile tolerance
- ✓ Long-term colonization
- ✓ Targeted nutritional intervention
- ✓ Excellent safety and stability
- ✓ Great potential for commercial development

Quality Certificate



H&H has been granted National High-Tech Enterprise, FDA registration, ISO9001, HACCP, HALAL, KOSHER, FSSC22000, ISO22000, and cGMP certifications. H&H has brought products to customers in 45 countries and regions.

Probiotic + Service

End-to-end CDMO services for functional probiotics

- Investigate fermentation properties
- Optimize production process
- Evaluate pilot test
- Industrial scale production.

Probiotic full-scenario solutions

- Demand generation
- Formula design
- R&D support

Global probiotic supply chain Integration

- Promote Industrial chain collaboration
- Integrate advantageous resources
- link global health needs



FREEZE-DRIED PROBIOTICS POWDER

- FUNCTIONAL PROBIOTICS
- LONG-TERM COLONIZATION
- TARGETED NUTRITIONAL INTERVENTION

PROBIOWAY CO., LTD
ZHENGZHOU H&H BIOENGINEERING CO., LTD



Functional Probiotic Strains

Strain	Code	Potency(CFU/g)
<i>L.casei</i>	PB-LC39	500 B
<i>L.rhamnosus</i>	PB-LR76	500 B
<i>L.reuteri</i>	PB-LR09	200 B
<i>L.plantarum</i>	HH-LP56	500 B
<i>L.plantarum</i>	N-1	500 B
<i>L.johnsonii</i>	LBJ 456®	500 B
<i>L.paracasei</i>	HH-LP58	500 B
<i>L.acidophilus</i>	HH-LA26	200 B
<i>L.bulgaricus</i>	HH-LB57	50 B
<i>L.salivarius</i>	HH-LS17	200 B
<i>L.fermentum</i>	HH-LF392	200 B
<i>L.gasserii</i>	HH-LG07	200 B
<i>L.helveticus</i>	HH-LPH17	100 B
<i>L.crispatus</i>	HH-LC323	100 B
<i>L.curvatus</i>	HH-LC805	100 B
<i>B.longum</i>	HH-BL18	100 B
<i>B.bifidum</i>	HH-BB27	100 B
<i>L.sakei</i>	LSS858	50 B
<i>B.infantis</i>	HH-BI27	50 B
<i>B.lactis</i>	HH-BA68	500 B
<i>B.animalis</i>	HH-BAA68	500 B
<i>B.breve</i>	HH-BR26	200 B
<i>B.adolescentis</i>	HH-BA07	50 B
<i>S.thermophilus</i>	HH-ST08	200 B
<i>P.acidilactici</i>	HH-PA29	500 B
<i>P.pentosaceus</i>	HH-PP57	500 B
<i>W.coagulans</i>	PB-BC02	200 B
<i>L.lactis subsp.lactis</i>	HH-LLL39	100 B
<i>L.cremoris</i>	HH-LLC36	50 B
<i>L.lactis subsp.lactis</i> <i>bv.diacetylactis</i>	HH-LLD37	50 B
<i>L.kefirnofaciens</i> <i>subsp.kefirnofaciens</i>	HH-LK08	50 B



Functional Probiotic Formula (Powder, Capsule, Tablet)

HEALTH BENEFIT	MAIN INGREDIENT	SPECIFICATION
Gut Health	<i>L.plantarum</i> HH-LP56	8 strains, 20-50B CFU/g
Immune Health	<i>L.reuteri</i> PB-LR09	10 strains, 20-50B CFU/g
Liver health	<i>L.casei</i> PB-LC39	5 strains, 20-50B CFU/g
Anti-inflammatory	<i>L.johnsonii</i> LBJ 456®	6 strains, 20-50B CFU/g
Women's health	<i>L.rhamnosus</i> PB-LR76	5 strains, 20-50B CFU/g
Chronic Disease Management	<i>L.plantarum</i> N-1	6 strains, 20-50B CFU/g

The Service Creates Value

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Website



H&H Patented Probiotic Strain

Lactocaseibacillus rhamnosus PB-LR76

○ Patent No.:ZL201910895017.0

○ This strain has been subjected to 16S rRNA gene sequencing for identification.

○ Origin and Safety: The strain was isolated from healthy women's intestine and is safe for use in conventional foods.

○ Health Benefits:

- Immune-stimulating, allergy relief
- Support gut health
- Maintain female vaginal health



Lactiplantibacillus plantarum N-1

○ Patent No.:ZL202011503896.7

○ This strain has been subjected to 16S rRNA gene sequencing for identification.

○ Origin and Safety: The strain was isolated from yak cheese in Qinghai-Tibet Plateau and is safe for use in conventional foods.

○ Health Benefits:

- Prevent renal stones
- Prevent benign prostatic hyperplasia
- Cholesterol-lowering



Lactocaseibacillus casei PB-LC39

○ Patent No.:ZL202010306925.4

○ This strain has been subjected to 16S rRNA gene sequencing for identification.

○ Origin and Safety: The strain was isolated from traditional fermented milk in Qinghai province and is safe for use in conventional foods.

○ Health benefits:

- Hangover prevention, liver health
- Immune-stimulating
- Blood Pressure and Blood Fat Control



Limosilactobacillus reuteri PB-LR09

○ Patent No.:ZL201910895017.0

○ This strain has been subjected to 16S rRNA gene sequencing for identification.

○ Origin and Safety: The strain was isolated from healthy women's intestine and is safe for use in conventional foods.

○ Health Benefits:

- Maintain female vaginal health
- Balance gut microbiota
- Allergy relief



Weizmannia coagulans PB-BC02

○ Patent No.:ZL201910314598.4

○ This strain has been subjected to 16S rRNA gene sequencing for identification.

○ Origin and Safety: The strain was isolated from traditional condensed milk in Xinjiang and is safe for use in conventional foods.

○ Characteristics:

- Prevention of dental caries, IBS relief
- High stability during storage
- Acid, bile, and heat tolerance



Lactobacillus johnsonii LBJ 456®

○ Patent Application No.:CN111534467A

○ This strain has been subjected to whole genome sequencing for identification.

○ Origin and Safety: The strain was isolated from feces of mice and is safe for use in conventional foods.

○ US and EU patents granted

○ Characteristics:

- Anti-inflammatory, anti-cancer
- Radiation protection
- Chronic disease management

