

HUMAN HEALTH BIOTECHNOLOGY • PROBIOTIC SKILL DEVELOPMENT



NTHRYS
OPC PVT LTD



Human Probiotics Industrial Manufacturing Training Programs

A complete industrial catalogue of hands-on human-probiotic training modules — from Lactobacillus & Bifidobacterium strains to spore & next-generation probiotics.

55

PROGRAMS

10

CATEGORIES

2026

EDITION

Program Categories at a Glance

This catalogue lists every human probiotic strain and product our training programs are equipped to manufacture and teach, organised into 10 technology streams. Each program carries a unique product code for easy reference, enrolment and certification.

STREAM	CATEGORY FOCUS	DESCRIPTION	COUNT
NHP-LB	Lactobacillus Probiotic Strains	Acidophilus, rhamnosus & plantarum strains	6
NHP-BB	Bifidobacterium Probiotic Strains	Longum, bifidum, breve & infantis strains	5
NHP-SP	Spore-Forming (Bacillus) Probiotics	Coagulans, subtilis & clausii spore strains	5
NHP-NG	Yeast & Next-Generation Probiotics	S. boulardii, Akkermansia & postbiotic strains	5
NHP-TB	Targeted Health Probiotic Blends	Gut, immune, women's, infant & oral blends	6
NHP-PR	Strain Development & Fermentation Production	Isolation, anaerobic fermentation & GMP scale-up	6
NHP-LY	Harvest, Concentration & Lyophilisation	Centrifugation, cryoprotection & freeze-drying	5
NHP-EN	Microencapsulation & Stabilisation	Encapsulation, enteric coating & stabilisation	5
NHP-FT	Dosage Forms & Formulation	Capsule, sachet, drops & synbiotic formats	6
NHP-QC	Viability, Safety & Regulatory Compliance	CFU viability, identity & stability QC	6
Total training programs			55

HOW TO READ A CODE

NHP – LB – 01

NHP Nthrys Human-Probiotic Program LB Category stream 01 Program number

CODE	TRAINING PROGRAM	DESCRIPTION
NHP-LB-01	Lactobacillus acidophilus	Classic gut probiotic.
NHP-LB-02	Lactobacillus rhamnosus GG	Evidence-based strain.
NHP-LB-03	Lactobacillus plantarum	Versatile gut strain.
NHP-LB-04	Lactobacillus reuteri	Oral & infant strain.
NHP-LB-05	Lactobacillus casei / paracasei	Immune-support strain.
NHP-LB-06	Lactobacillus crispatus	Women's-health strain.

CODE	TRAINING PROGRAM	DESCRIPTION
NHP-BB-01	Bifidobacterium longum	Gut & immune strain.
NHP-BB-02	Bifidobacterium bifidum	Gut-barrier strain.
NHP-BB-03	Bifidobacterium breve	Infant & gut strain.
NHP-BB-04	Bifidobacterium infantis	Infant-gut strain.
NHP-BB-05	Bifidobacterium animalis subsp. lactis	Transit & immune strain.

03

CATEGORY • NHP-SP

Spore-Forming (Bacillus) Probiotics

Coagulans, subtilis & clausii spore strains

5

PROGRAMS

CODE	TRAINING PROGRAM	DESCRIPTION
NHP-SP-01	Bacillus coagulans	Heat-stable spore probiotic.
NHP-SP-02	Bacillus subtilis	Immune spore probiotic.
NHP-SP-03	Bacillus clausii	Antibiotic-resistant spore strain.
NHP-SP-04	Spore-Probiotic Blend	Multi-spore formulation.
NHP-SP-05	Shelf-Stable Spore Concentrate	Ambient-stable spore product.

04

CATEGORY • NHP-NG

Yeast & Next-Generation Probiotics

S. boulardii, Akkermansia & postbiotic strains

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PROGRAMS

CODE	TRAINING PROGRAM	DESCRIPTION
NHP-NG-01	Saccharomyces boulardii	Yeast probiotic.
NHP-NG-02	Akkermansia muciniphila	Next-gen metabolic strain.
NHP-NG-03	Faecalibacterium prausnitzii	Next-gen anti-inflammatory strain.
NHP-NG-04	Clostridium butyricum	Butyrate-producing strain.
NHP-NG-05	Postbiotic / Heat-Killed Probiotic	Inactivated-cell product.

05

CATEGORY • NHP-TB

Targeted Health Probiotic Blends

Gut, immune, women's, infant & oral blends

6

PROGRAMS

CODE	TRAINING PROGRAM	DESCRIPTION
NHP-TB-01	Gut-Health Multi-Strain Blend	Digestive-health formula.
NHP-TB-02	Immune-Support Blend	Immunity formula.
NHP-TB-03	Women's-Health Blend	Vaginal & urinary formula.
NHP-TB-04	Infant / Paediatric Blend	Infant-gut formula.
NHP-TB-05	Oral / Dental Probiotic Blend	Oral-health formula.
NHP-TB-06	Psychobiotic / Mood Blend	Gut-brain formula.

06

CATEGORY • NHP-PR

Strain Development & Fermentation Production

Isolation, anaerobic fermentation & GMP scale-up

6

PROGRAMS

CODE	TRAINING PROGRAM	DESCRIPTION
NHP-PR-01	Strain Isolation & Banking	Strain bank & MCB / WCB.
NHP-PR-02	Anaerobic Fermentation Process	Anaerobe cultivation process.
NHP-PR-03	Aerobic / Facultative Fermentation	Aerobic strain process.
NHP-PR-04	Media & Cryoprotectant Design	Growth & protection media.
NHP-PR-05	Strain Characterisation & Genomics	Identity & safety profiling.
NHP-PR-06	Scale-Up & GMP Production	cGMP fermentation scale-up.

07

CATEGORY • NHP-LY

Harvest, Concentration & Lyophilisation

Centrifugation, cryoprotection & freeze-drying

5

PROGRAMS

CODE	TRAINING PROGRAM	DESCRIPTION
NHP-LY-01	Cell Harvest & Centrifugation	Biomass concentration.
NHP-LY-02	Washing & Cryoprotection	Cell washing & protectant mixing.
NHP-LY-03	Freeze-Drying (Lyophilisation)	High-viability lyophilisation.
NHP-LY-04	Frozen Concentrate Production	Frozen-pellet probiotic.
NHP-LY-05	Milling & Standardised Powder	CFU-standardised powder.

CODE	TRAINING PROGRAM	DESCRIPTION
NHP-EN-01	Microencapsulation	Protective-matrix encapsulation.
NHP-EN-02	Enteric / Acid-Resistant Coating	Gastric-protection coating.
NHP-EN-03	Spray-Drying Encapsulation	Spray-dried protected powder.
NHP-EN-04	Moisture & Oxygen Stabilisation	Shelf-life stabilisation.
NHP-EN-05	Matrix & Carrier Formulation	Excipient & carrier design.

09

CATEGORY • NHP-FT

Dosage Forms & Formulation

Capsule, sachet, drops & synbiotic formats

6

PROGRAMS

CODE	TRAINING PROGRAM	DESCRIPTION
NHP-FT-01	Capsule Formulation	Probiotic capsules.
NHP-FT-02	Sachet / Stick-Pack	Powder sachets.
NHP-FT-03	Tablet / Chewable	Tablet & chewable forms.
NHP-FT-04	Drops / Liquid Suspension	Infant & liquid formats.
NHP-FT-05	Synbiotic Formulation	Probiotic + prebiotic product.
NHP-FT-06	Functional-Food / Supplement Blend	Food & supplement integration.

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CATEGORY • NHP-QC

Viability, Safety & Regulatory Compliance

CFU viability, identity & stability QC

6

PROGRAMS

CODE	TRAINING PROGRAM	DESCRIPTION
NHP-QC-01	CFU Viability Enumeration	Live-count testing.
NHP-QC-02	Strain Identity & Purity	Genomic identity & purity.
NHP-QC-03	Antibiotic-Resistance Screening	Safety-gene screening.
NHP-QC-04	Stability & Shelf-Life Testing	Accelerated-stability QC.
NHP-QC-05	Contaminant & Pathogen Testing	Microbial-safety testing.
NHP-QC-06	Regulatory & Clinical Documentation	Safety & claim compliance.

ENROL • CULTURE • FORMULATE

Build a Career in Probiotic Manufacturing

Every program in this catalogue is delivered as hands-on training on working fermentation and formulation equipment — covering strain isolation & banking, anaerobic & GMP fermentation, harvest & lyophilisation, microencapsulation & enteric coating, dosage-form formulation, CFU-viability & QC and regulatory compliance. Mix and match programs to design a track that fits your goals.

55 training programs

10 technology streams

Unique **product code** for every module

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