



**Leading Probiotics
Forward.**

Lallemand at a Glance

Changing the World Through Microorganisms

Lallemand is a privately owned company specializing in the development, production, and marketing of microorganisms—including yeast, bacteria, fungi, and their derivatives. With a strong focus on innovation, Lallemand delivers microbiological solutions across a wide range of industries, from human to animal health and nutrition to baking, oenology, brewing, food ingredients, probiotics, and biofuels.



Founded in Montreal
by Fred A. Lallemand
at the end of the
19th century



Yeast
production
started in
1923

Owned by the
Chagnon family
since
1952

Over
6,600
employees
globally

A
worldwide
presence



62 plants
including
28 yeast and
12 bacteria

A Daily Presence in the Lives of Hundreds of Millions of People

30B+
loaves of bread



Cultures
with **100** years of history,
used in
50+ countries on **5** continents



22B+
bottles of wine



120M+
piglets and sows



10M+
people in Europe
eat tomatoes
without chemicals



Lallemand Health Solutions

A Global Leader of the Probiotic Industry

With 90 years of know-how, we are a global leader in the probiotic industry, specializing in the development, production, and marketing of bacteria- and yeast-based probiotic supplements for human health, nutraceuticals and food applications. Our production facilities meet the highest quality standards, including Good Manufacturing Practices, and we maintain a robust research program through the Rosell Institute for Microbiome and Probiotics. We offer our partners clinically documented probiotic strains for a wide range of health applications, including gut health, immune support, mental well-being, women's health, skin and oral health, sports, metabolic health, healthy aging, and infant health.

600+
employees

600+
formulas



90+
years of
know-how

40+
proprietary
strains



430+
publications

70+
countries



A part of
Lallemand

Taking Responsible Steps for a Healthier Future

• At Lallemand, we believe that **microbial solutions can contribute to addressing some of the main societal and environmental challenges of today**, and we are convinced that our core focus on microorganisms will become even more relevant in the future. However, we are conscious that the process of growing selected microorganisms also has its impact on the environment and society, and that we need to be careful about this. Every year, Lallemand invests in projects to reduce its environmental footprint and increase its production processes' efficiency.

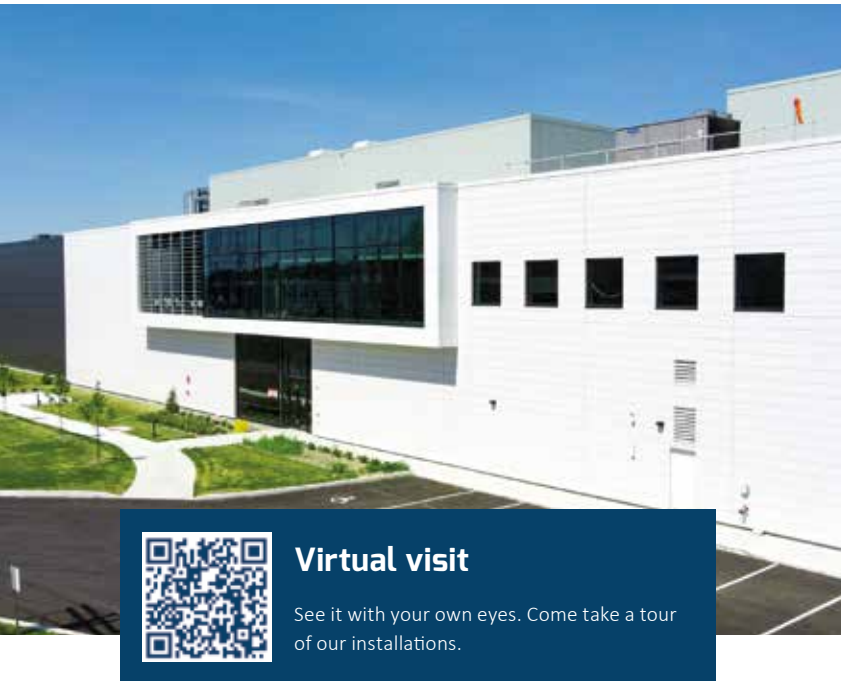
• **Lallemand Health Solutions strives to participating in the good health and well-being of the global population by providing quality-based and scientifically-proven probiotic solutions.**

• **We believe we can achieve this goal, through ensuring in parallel:**

- A responsible and environmentally conscientious production,
- A respectful and supportive working environment for our employees,
- A pioneering and innovative research collaborative platform.



A Unique Global Probiotic Player, Fully Integrated **from Lab to Shelf**



Virtual visit

See it with your own eyes. Come take a tour of our installations.

Reaching the Highest Quality Standards

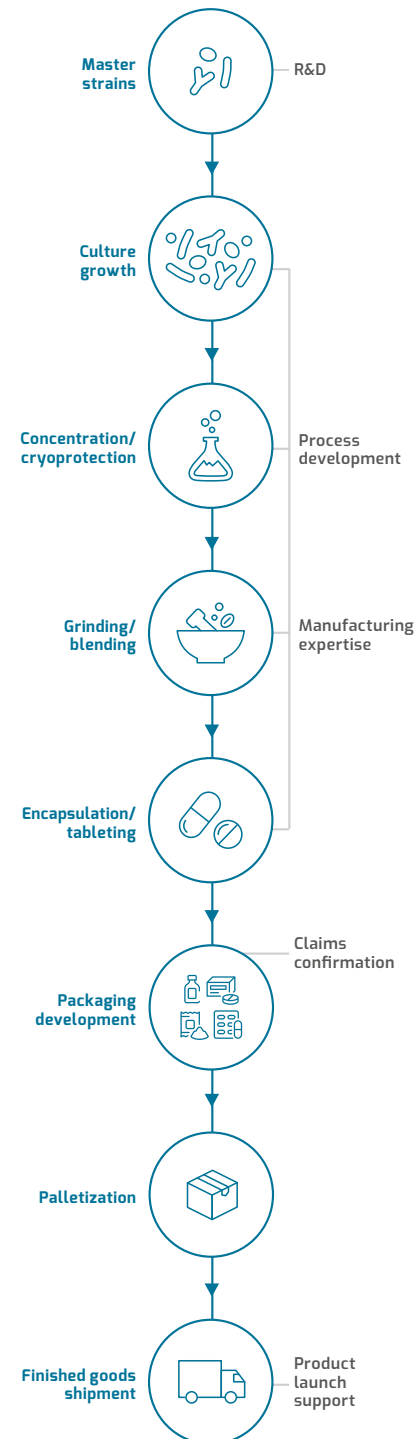
Full control is key to offer probiotic strains, blends or custom formulations produced to the highest quality standards. From lab to shelf, we control the overall production process.

Probiotic Facilities

- Bacteria and yeast production
 - 3 bacteria plants (Canada and France)
 - 1 yeast plant (Austria)
- Bulk manufacturing and packaging in France, Canada and the USA
 - Encapsulation
 - Sachets / Sticks
 - Lozenges
 - Tablets
 - Bottles
- Several approved subcontractors for secondary packaging.

Accreditation and Licenses Include

- Health Canada (NNHPD)
- cGMP / US FDA cGMP (21CFR111,117)
- UL, NSF, GRMA
- C-TPAT
- CFIA
- ISO 9001 / ISO 22000 & HACCP (France)
- TGA Clearance (Australian TGA clearance)
- Religious status for certain strains (e.g. Halal)
- Environmental and social certifications and labels:
 - ISO 14001 (France)
 - EcoVadis (Canada, France)
 - SMETA audit (France).



Each step is expertly supported by internal quality, regulatory, R&D, scientific affairs, technical support and marketing teams.



EXPERT'Biome™
CDMO by LALLEMAND

Leading Microbiome Science—Together

Leverage the full strength of a vertically integrated, trusted company to create the next generation of probiotics and live biotherapeutics

- Robust research and development expertise in next-generation probiotics
- State-of-the-art GMP pharmaceutical production capabilities
- Experienced pharmaceutical regulatory and compliance team

Applying Leading-Edge Technologies and Innovative Scientific Approaches to Develop Next-Generation Strains

Our comprehensive development process includes:

- Cell bank establishment and verification
- Strain characterization
- Process optimization at lab scale
- Formulation development
- Industrial scale-up
- Analytical method development
- Stability studies
- Clinical trial support

Plant Certification for the Production of Probiotics and Live Biotherapeutics

Our certified facilities support the full production cycle, including:

- From production to final packaging (sticks, sachets, capsules)
- Clinical batch production
- Commercial batch production (from 480 liters to 20,000 liters)
- In-process controls and quality checks at every production step



Pharma certifications

Health Canada - Good Manufacturing Practices for drug products - Pharmaceutical (Part C, Division 2 of the Food and Drug Regulations)

ANSM - EU GMP for human medicinal products and human investigational medicinal products (EU GMP Part I)

ANSM - EU GMP for human medicinal products for active substances used as starting materials (EU GMP Part II)



Pioneering Probiotic Research to Advance Human Health



At the Rosell® Institute for Microbiome and Probiotics, we harness advanced technologies and scientific expertise to develop probiotic strains that support human health. Guided by our founders' pioneering spirit and a strong commitment to global well-being, we invest in rigorous research across ten key health segments, reaching millions worldwide.

430+ publications
160+ published clinical trials

100+ *in vitro*
80+ *in vivo*

Health segments	Number of publications	
	Pre-clinical	Clinical
GUT HEALTH	44	107
NATURAL DEFENSES	9	34
MENTAL HEALTH	35	14
WOMEN'S HEALTH	6	14
ORAL HEALTH	2	15
SPORT	5	5
METABOLIC HEALTH	11	12
SKIN HEALTH	6	3
HEALTHY AGING	2	4
BABIES	8	34

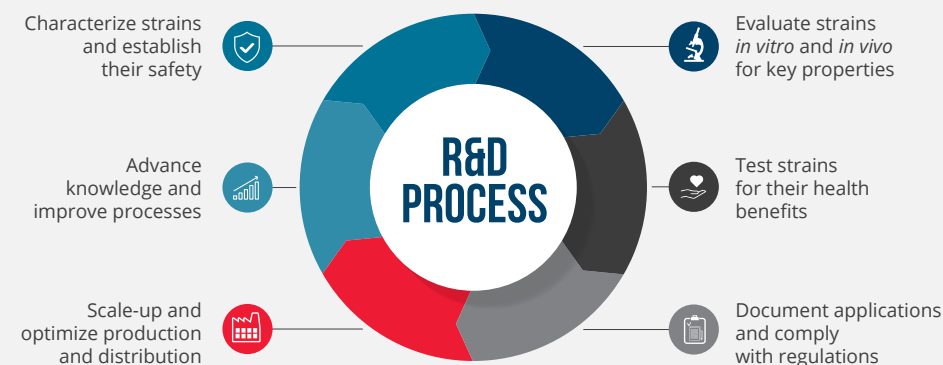
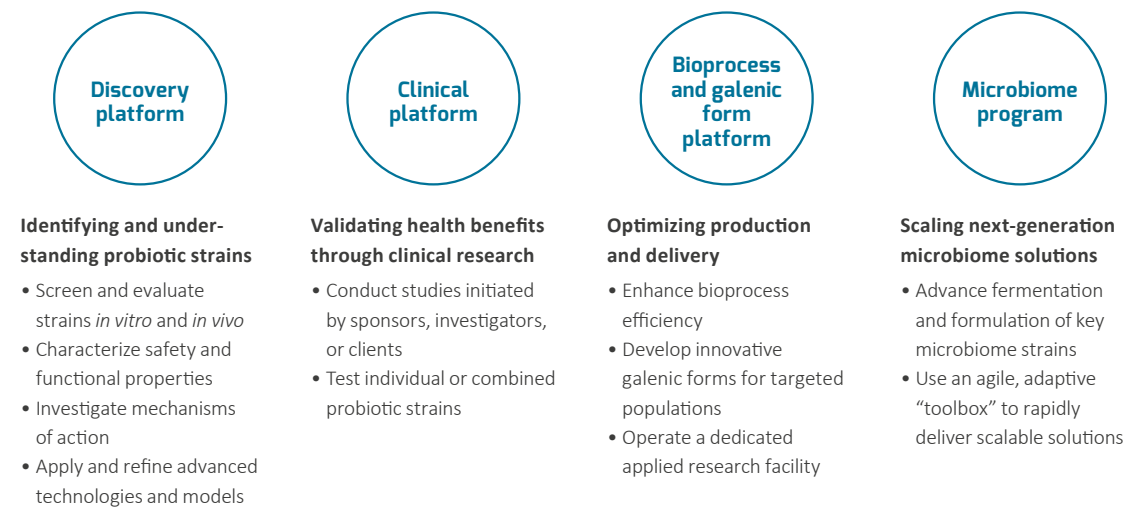
We are currently conducting
25+ clinical trial across
10+ countries, with
3,000+ participants

> 1,000
Human samples received annually

4,856
Analyses performed in 2024

Various sample types
Stool, vaginal swab, breast milk, saliva, blood, etc.

An Integrated Research Platform



Pre-clinical and Clinical Research Center (Montreal, Canada)

Home to four cutting-edge laboratories:

- **One biosafety level 2 microbiology lab** – for advanced microbiological analysis
- **Two pre-clinical labs** – focused on host-microbe interactions and molecular biology
- **One clinical lab** – supporting human health studies

Bioprocess and Galenic Expertise Center (Blagnac, France)

Specialized in microorganisms processing and formulation, with research organized around three core areas:

- **New Product Development** – including novel strain processes, galenic forms, and tailored solutions
- **Process Optimization** – enhancing performance of existing products
- **Technical Support** – for production sites and customer-specific needs

EXPERT 'Biotics™ by LALLEMAND



GUT
HEALTH



NATURAL
DEFENSES



MENTAL
HEALTH



WOMEN'S
HEALTH



SKIN
HEALTH



ORAL
HEALTH



SPORT



METABOLIC
HEALTH



HEALTHY
AGING



BABIES

Best-in-Class Documented Formulas Supported by:

- An integrated R&D platform from *in vitro* and *in vivo* models to clinical studies
- Regulatory affairs: complete registration dossier and claims available
- Marketing: product training and communication tools

Lacidofil®



- 29 clinical studies: 14 in children / 15 in adults, including 2 in pregnant women
- Commercially available since 1995 with a pharmacovigilance program showing safe use
- Shown to support healthy microflora in infants, promote vaginal balance in women, and help manage occasional gastrointestinal symptoms such as diarrhea in adults, among other gut-related functions

**B. lactis
Lafti® B94**



- Selected from among 40 bifidobacteria strains for its good synergy with prebiotics
- 8 clinical studies in infants and children, GRAS for infant formula from birth
- Activates bile acid metabolism in healthy overweight adults
- Synergistic benefits as a synbiotic with Biotis® GOS, a combination successfully tested by consumers

**S. boulardii
CNCM I-1079**



- The most documented probiotic yeast in the world with 100+ clinical studies
- A time-tested yeast culture mastered and perfected from lab to shelf
- Synergistic effects with bacteria
- Also available as pharma grade, organic or specifically for babies

IBacillus+



- Strong combination of two robust bacteria strains
- For other use than dietary supplements: 120 clinical studies with 10,000+ participants in SIBO, IBS, UC, AAD, *H. pylori*.

**L. paracasei
HA-196**



- Beneficial effects to help support healthy bowel habits in adults as demonstrated in a large North-American study

**L. rhamnosus
GG**



- One of the most documented probiotic strains in the world with 50+ studies mainly in gut health and natural defenses
- Specifically recommended by pediatricians

Cerenity™



- A clinical breakthrough in healthy aging: supporting mobility, strength, and quality of life
- 1 clinical study on healthy community-dwelling elderly, showing improvements in mobility, coordination, endurance and muscle strength

**Cardiomeo™
Balance**



- Cardiovascular support in elderly men
- 1 clinical study on overweight but otherwise healthy elderly men, demonstrating improvements in cardiovascular risk indexes, antioxidant capacity and mental health.

**Cardiomeo™
Flow**



- Helps maintain cardiovascular health
- 1 clinical study on participants with metabolic syndrome (no vascular disease, not taking statins), demonstrating beneficial effects on vascular inflammation and cholesterol levels

Probiokid®



- 28 clinical studies in 3,000+ participants, with benefits on gut health, natural defenses and beyond
- GRAS Notified for use in infant formula (from birth) for both the Probiokid® combination and the single strains

**L. helveticus
Lafti® L10**



- 6 clinical publications in athletes and healthy adults with IBS-like symptoms
- Shows antioxidant potential in healthy athletes
- Promising preliminary clinical results for supporting healthy cholesterol levels

**Immuse®
L. lactis strain Plasma**



- The most documented, award winning postbiotic for immune health
- 15 clinical studies on the strain including 11 on the heat-inactivated *Lactococcus lactis* strain Plasma
- Distinctive mode of action for a more comprehensive immune support

Cerebiome®



- Pioneering and most documented psychobiotic in the world
- 10+ clinical studies and 11+ mechanistic studies, highlighting 8 modes of action on the microbiota-gut-brain axis
- Benefits in overall wellbeing : mood and stress, stress-related gut comfort, sleep quality (with 5+ clinical studies related to sleep), holistic wellbeing and skin appearance

**B. bifidum
Rosell®-71**



- 1 clinical and safety study showing support in a baby-specific microflora, GRAS Notified for infant formula
- 1 large clinical study on healthy adults showing greater proportion of healthy days and a positive effect on self-reported occasional stress scores
- 1 clinical study on healthy women during the menstrual cycle, observed a reduction in bloating associated with menstruation

L. plantarum
ROSELLA



- Studied on over 800 women: 6 clinical studies including 2 with oral treatment
- Helps promote vaginal health, supports a normal vaginal pH and promotes vaginal diversity associated with a healthy vaginal flora
- Demonstrated vaginal colonization and persistence following oral intake

Prenatis™



- Best-in-class prenatal probiotic formula with two proprietary strains known for their efficacy
- 1 clinical study on healthy pregnant women during their third trimester and their infants up to twelve months
- Supports a healthy pregnancy and contributes to the establishment of a healthy infant microbiome during the first months of life

**L. rhamnosus
HA-114**



- 1 clinical study on weight management support in overweight but otherwise healthy adults on a diet: beneficial effects on cravings, hunger, mood and metabolic profile
- For other use than dietary supplements: 2 clinical studies on cognition in Alzheimer's disease

Oralis SB



- One of the most documented formulas on oral health with 13 clinical studies: 3 on the control of the growth of *S. mutans* count for healthy teeth, 8 on gum health and plaque formation, and 1 on the maintenance of a healthy salivary pH, with similar or better results compared to conventional mouthwashes
- Several dosage forms adapted to oral health (chewable tablets, lozenges, orodispersible powders...)

*The information contained herein is business-to-business information and is not intended for the final consumer. It is based on our research and development work and is, to the best of our knowledge, reliable. Lallemand Health Solutions does not assume any liability resulting from the use of its products, as conditions of use are beyond our control. The business-to-business information provided should not be used as a substitute for any form of advice. In all instances, producers and marketers should check local regulatory requirements before use as different claims may be made depending on the regulations applicable in each country.

L. plantarum ROSELLA is *L. plantarum* P17630 (Proge P17630*), licensed from PROGE FARM®, Italy.
IMMUSE® is a clinically researched lactic acid bacteria developed by Kirin Holdings Company, Limited.



We Support Our Partners' Creativity with Customized Probiotic Blends

40+
proprietary
strains

Using scientifically validated probiotic and postbiotic bacteria strains and yeast, we create custom and complex formulations. Our team will guide you through our portfolio to identify the most effective combinations with complementary benefits to meet your specific needs.

Lactobacilli

L. rhamnosus Rosell®-11
L. rhamnosus GG*
L. rhamnosus HA-111
L. rhamnosus HA-114
L. helveticus Rosell®-52
L. helveticus LAFTI® L10
L. helveticus HA-122
L. helveticus HA-128
L. acidophilus Rosell®-418
L. plantarum Rosell®-1012*
L. plantarum ROSELLA
L. plantarum HA-119
L. paracasei LAFTI® L26
L. paracasei HA-196
L. paracasei Rosell®-215
L. paracasei HA-108*
L. brevis HA-112*
L. salivarius HA-118
L. fermentum HA-179
L. reuteri HA-188
L. reuteri Rosell®-444
L. gasseri HA-275
L. crispatus Rosell®-470

S. boulardii

S. boulardii CNCM I-1079

Bifidobacteria

B. bifidum Rosell®-71
B. bifidum HA-132
B. longum Rosell®-175
B. longum HA-135
B. lactis LAFTI® B94
B. lactis HA-194*
B. infantis Rosell®-33
B. infantis HA-116
B. breve Rosell®-70
B. breve HA-129

Others

Bacillus subtilis Rosell®-179
Bacillus coagulans Rosell®-449
Lactococcus lactis Rosell®-1058*
Lactococcus lactis HA-136
Enterococcus faecium Rosell®-26
Enterococcus faecium HA-127
Pediococcus acidilactici HA-524
Streptococcus thermophilus Rosell®-83
Streptococcus thermophilus HA-110*

Postbiotics

Immuse® *L. lactis* strain Plasma
L. acidophilus Rosell®-418
L. helveticus HA-122
L. paracasei HA-108
L. plantarum HA-119
L. rhamnosus HA-111
B. lactis Lafti® B94
Str. thermophilus HA-110

*Also available as High Potency strains

When R&D Work Translates into Health Benefits

All our strains are systematically screened for purity, efficacy, innocuity, and documented for their modes of action in order to identify their potential health benefits.

Systematic Screening

- Phenotype profile
- Whole genome sequencing
- Adhesion to specific epithelial cells (small intestine, colon, vaginal)
- Survival to stomach pH and bile acids
- Secretome analyses: H2O2, SCFAs and other acids, digestive enzymes, bioactive peptides, surface-layer proteins, bile salt hydrolase activity (BSH), amino acids, neurotransmitters etc.
- pH regulation
- Antimicrobial activity against opportunistic bacteria (food, nosocomial, vaginal and oral)
- Modulation of the immune response: stimulation or reduction of cytokine production and other immune biomarkers (IgA, lymphocytes CD4/CD8, TNF-α, IFN-γ etc.), activation or inhibition of specific immune pathways (e.g. TLR-3, MAPK, NFκB)
- Modulation of the flora
- Modulation of the HPA axis and the nervous system

Protective technologies

From the manufacturer's plant to the consumer's gut, probiotics have to survive many stresses: **product processing** (moisture, temperature, pressure), **storage conditions** and **digestive processes** (acids and bile). We have developed a range of technologies to protect probiotics from these stresses in order to offer **optimal probiotic survival and versatile applications**.



The First Level of Probiotic Protection

- Guaranteed for all strains
- Selection of strains naturally resistant to gastric acidity
- Protective matrix and optimized manufacturing process to ensure shelf-life stability



Microencapsulation Technology

- For sachets, sticks and tablets, and for food applications
- Ideal in case of drastic processing conditions such as compression and heat



Gut Acid-Resistance Delivery

- For capsules and tablets
- Clean-label, food-based and patented
- Versatile
- Efficient gastric protection



Enteric-Coating Technology

- For capsules
- Ensures optimal delivery in the gut for every probiotic strain

Our Formulation Expertise is Grounded in Our in-Depth Knowledge of:

- The stability of individual strains
- The selection of excipients, including verification of the absence of inhibitory interactions with other ingredients
- The optimal choice of dosage form and packaging
- The stability profiles of various semi-finished and finished formulations, which we can benchmark against your formula
- Environmental controls throughout production and transportation

Explore Our Range of Value-Added Ingredients



Vitamins

- Vitamin B1
- Vitamin B2
- Vitamin B6
- Vitamin B9
- Vitamin C
- Vitamin D3
- Lalmin® VitaD



Minerals

- Calcium
- Cooper
- Lalmin® Cr
- Lalmin® Se
- Lalmin® Zn
- Magnesium
- Zinc



Prebiotics

- Biotis® GOS
- FOS
- GOS
- HMO
- Inulin
- MOS YE
- Organic acacia fiber
- XOS



Premium

- Ashwagandha KSM66®
- CoQ10
- Cranberry
- Enzymes
- GABA
- GASTRO AD®
- M-GARD®
- Melatonin
- Safr'Inside™



Flavors

- Apple
- Banana
- Blackcurrant
- Grape
- Mint
- Orange
- Plum
- Raspberry
- Strawberry
- Tropical
- Vanilla

Choose Your Dosage Form

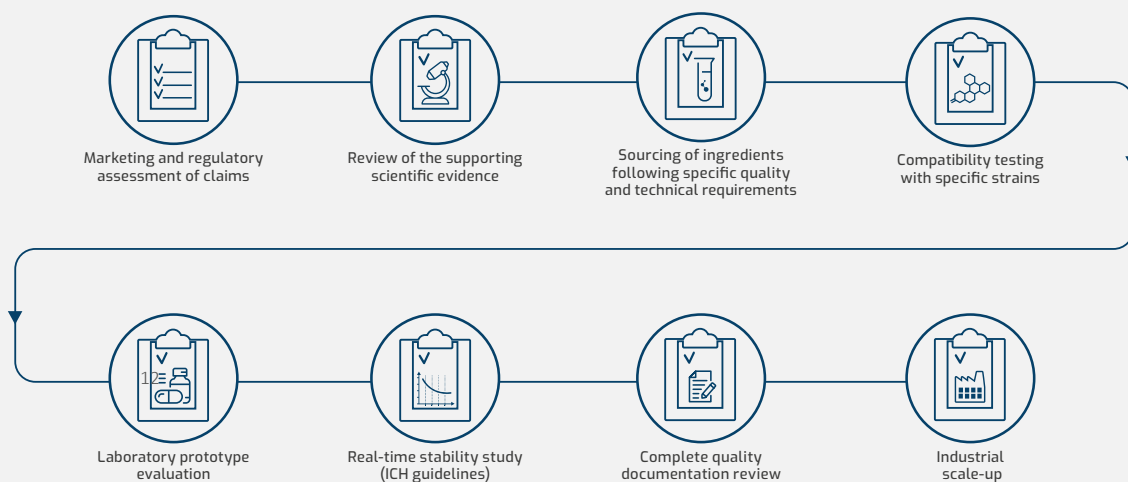
- Acid-resistant capsules
- Capsules
- Chewable tablets
- Enteric-coated capsules
- Gummies
- Lozenges
- Orodispersible powders
- Popping powders
- Powders
- Sprinkle capsules

Choose Your Packaging Options

- ACLAR / Alu-alu blisters
- HDPE / CSP bottles
- Sachets / Sticks

Ask about sustainable packaging options already available.

Validation Process for New Ingredients



Lallemand Health Solutions is an active member of **16 trade associations**, contributing to the advancement of industry standards

A Proven Track Record of Claims

Our team of regulatory experts maintains regular surveillance and dialogue with authorities worldwide (e.g. Health Canada, US FDA, TGA, ANVISA, EFSA) for:

- **Successful registration/authorization of our probiotics in 50+ countries**
 - **40+ approved health claims** in Canada and **3** in Brazil
 - **200+ food supplements approval** registration worldwide
 - **A total of 29 drugs** - Czech Republic, Poland, India, Turkey, and the CIS region
 - Verified strategies for Food for Special Medical Purposes (FSMPs) in the European Union
 - Several listings on strain-specific worldwide databases
- **Consultation as industry experts** for the development of policies pertaining to probiotics
- **Advocacy and regulatory intelligence** in collaboration with trade associations.



Balanced Intestinal Flora. Enhanced Well-Being.

- **It all starts in the gut!** Gastrointestinal health remains the first reason why consumers buy probiotics today and it still represents the first area of clinical evidence for probiotics. With **150 publications**, including preclinical and clinical studies, Lallemand Health Solutions has strongly documented its strains and formulas for gut health applications and well-being.
- Our probiotic bacteria and yeast solutions, demonstrate **beneficial effects** on microbiota balance, occasional diarrhea, occasional constipation, and support **specific populations** such as babies during their first year of life as well as adults with serious gut conditions.

S. boulardii
CNCM I-1079

L. paracasei
HA-196

B. lactis
Lafti® B94

Lacidofil®

IBacillus+

Probiotic
B. lactis
Lafti® B94



Prebiotic
GOS-OP High Purity

Our recent innovations

A Synergistic Synbiotic Solution for Gut Comfort and Enhanced Microbial Activity

- Clinically evaluated by over 100 consumers, with significant effects observed after just one week.
- Validated through *ex vivo* gut simulation using SIFR® technology, assessing microbiota composition and metabolite production.



Available as pharma grade, organic or specifically for babies.



Validated combinations with a selection of enzymes blends to support digestion.



Help Keep Your Family Healthy

- Research confirms a selection of specific strains that **support natural defenses** and **help modulate the immune response** from infancy through adulthood.

Probiokid®

L. helveticus
Lafti® L10

B. bifidum
Rosell®-71

IMMUSE®

S. boulardii
CNCM I-1079

Probiokid® is the world's best-selling pediatric probiotic formulation. Its benefits were summarized in a comprehensive review by Tremblay *et al.*, published in *Nutrients* in 2021.

Stand Out in Your Market with Added-Value Ingredients

Enhance your formulation with a selection of compatible vitamins (B, C, D) and minerals (zinc) to further support natural defenses or choose from yeast-based ingredients designed for immune support:

- ☒ **Lalmin®:** Inactivated yeasts enriched in vitamins and minerals (Lalmin® VitaD, Lalmin® Se, Lalmin® Zn)
- ☒ **MOS YE:** Yeast cell wall.



Pioneering Psychobiotics for the Microbiome-Gut-Brain Axis

- We are pioneers in the field of psychobiotics, supported by groundbreaking science. In 2010, a landmark clinical study demonstrated that our formula, **Cerebiome®**, significantly reduced psychological stress and related symptoms—such as anger and hostility—in stressed but otherwise healthy individuals. This gold-standard study by Messaoudi marked a major milestone in gut-brain axis research and remains a key reference in scientific literature. Since then, numerous studies in the mental health area have followed.
- Today, our offer supports multiple aspects of mental well-being, including **occasional stress, gut comfort, cognitive function, sleep quality, eating behavior, and skin appearance**.

L. rhamnosus
HA-114

L. rhamnosus
GG

B. bifidum
Rosell®-71



Cerebiome®



safr'inside™

Une combinaison de deux ingrédients notoires aux actions complémentaires sur l'axe microbiote-intestin-cerveau et à l'action synergique sur la biodisponibilité. De multiples bienfaits ont été démontrés pour favoriser le bien-être, notamment la santé mentale, le confort intestinal et le sommeil, avec des allégations disponibles dans plusieurs pays. Les premiers effets ont été ressentis en seulement une semaine, selon une étude ouverte menée auprès de consommateurs sous contrôle médical.

Cerebiome® est fière d'être doublement finaliste aux NutraIngredients Awards Europe 2025 dans la catégorie Ingrédient de l'année, pour le bien-être mental et l'humeur, ainsi que pour la beauté de l'intérieure. Notre récente étude clinique met en évidence des bienfaits **significatifs sur la perception du stress, l'amélioration du sommeil et l'aspect de la peau**.



Probiotics Right for Her

- The benefits of probiotics to support women's health are increasingly recognized, mainly due to their ability to **maintain and restore digestive and vaginal microflora balance**. Specific probiotics can help each individual woman at every stage of her life, from puberty to menopause. With 28 years of expertise in women's health, we strive to empower women through science-backed, holistic solutions for lifelong well-being.



Cranberry can help **support urinary tract health** by reducing adhesion of bacteria to the urinary tract walls, particularly *E. coli*. This is due to compounds in cranberries called **A-type proanthocyanidins (PACs)**.

Menstruation

One of the first probiotic studies on this innovative indication with promising results

B. bifidum
Rosell®-71

Intimate Health

Unique strain isolated from healthy vaginal flora, studied in over 800 women across 6 clinical studies on intimate health

L. plantarum
ROSELL® A
L. plantarum Rosell®-1012 *L. fermentum* HA-179 *L. brevis* HA-112

Pregnancy

High-quality, one-of-a-kind ambitious study on large mother-infant dyads

Prenatis™
Lacidofil®



A Healthy Microbiome for Holistic Beauty

- We promote a holistic approach to beauty by providing probiotics that **help balance the gut, brain, and skin microbiomes**. As orally administered nutritional supplements, our probiotics are formulated and marketed **to support the natural beauty of skin, hair, and nails**—while promoting overall well-being from the inside out.



S. boulardii
CNCM I-1079

Lacidofil®

IMMUSE®



NUTRICOSMETICS

- Based on new findings from a dermatologist-supervised open-label study, **Cerebiome®** has demonstrated benefits that support claims related **to improved perceived stress, circadian rhythm regulation, and enhanced skin appearance**. This innovative formula has shown significant effects on occasional stress, sleep quality, and visible skin health.
- Our probiotics are combined with carefully selected, compatible ingredients for beauty-from-within formulations.
- Backed by available beauty claims, our formulations support **skin firmness, appearance (including gloss, wrinkles, and elasticity), radiance, and tone uniformity**.



Probiotics to Protect Your Precious Smile

- Oral health challenges are often linked to imbalances in the mouth's bacterial ecosystem, and probiotics offer a science-backed, natural way to help maintain a healthy balance, support healthy teeth, supporting healthy gums, mouth and a fresh breath.
- We offer a comprehensive range of probiotic strains carefully selected for their benefits in oral care. Backed by documented modes of action, our solutions support the maintenance of a healthy oral microbiota, and meet consumer expectations for both efficacy and naturalness.

Oralis SB



13 Clinical Studies
1 Narrative Review
4 Mechanistic Studies

Available in powders, sticks/sachets and orodispersible powders.

Oralis



4 Mechanistic studies on modes of action to support oral health, healthy breath, and ear, nose and throat health

Available in chewable tablets, lozenges, powders, sticks/sachets and orodispersible powders.

+ A selection of 15 strains with specific effects for oral health



SPORT

Probiotics to Stay Ahead of the Game

- Probiotic supplements are recommended by the International Society for Sport Nutrition (ISSN) for their demonstrated modes of action on athletes **to optimize their wellbeing**. Our flagship strain for sport, *L. helveticus* Lafti® L10 is clinically studied in athletes, demonstrating its role in **sustaining immune function during intense exercise**.
- We offer convenient, on-the-go dosage formats tailored for active lifestyles—featuring naturally sourced flavors and compatible ingredients for an extra kick.

L. helveticus
Lafti® L10

Cerenity™

IMMUSE®

A selection of probiotic strains targeting the mechanisms of action recognized by the ISSN:

Boost natural defenses	Antioxidant potential	Maintain gut barrier
Lafti® L10	Lafti® L10	<i>S. boulardii</i>
Rosell®-71	Rosell®-175	<i>L. rhamnosus</i> GG
Immuse®		Lacidofil®

Production of amino acids (BCAA, glutamine, arginine, ornithine, lysine, arginine)			
Rosell®-71	HA-135	Lafti® B94	Lafti® L26
Rosell®-33	HA-129	Lafti® L10	

Production of neurotransmitters and benefits on occasional stress (GABA, tryptophan)			
Rosell®-52	Rosell®-215	Lafti® L26	HA-129
Rosell®-175	Rosell®-71	Lafti® B94	



METABOLIC HEALTH

A Helping Hand Toward a Fitter Life

- Metabolic health refers to the optimal functioning of the body's metabolic processes, including how effectively it **converts food into energy** and **maintains stable levels of lipids** (such as cholesterol and triglycerides), and insulin. A growing body of scientific research highlights the **critical connection between the gut microbiota and key aspects of metabolic health**.
- We offer a comprehensive range of probiotic solutions designed to support metabolic health, with strains selected for their documented benefits—including support for **healthy eating behaviors** (cravings and appetite), **cholesterol balance**, **cardiovascular health** (including in older adults), and **liver health in both children and adults**.



Eating behaviors support



L. rhamnosus
HA-114



Cardiovascular health

Cardiomeo™ Balance
Cardiomeo™ Flow

L. helveticus Lafti® L10
B. lactis Lafti® B94

Bacillus subtilis
Rosell®-179



Liver health

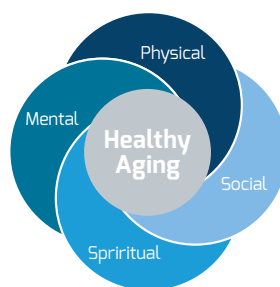
IBacilluS+

Lacidofil®



From Longevity to Quality of Life

- Aging brings physiological changes, including shifts in the gut microbiome that may impact overall health. Lifestyle factors – such as diet, medications, and social interactions – can either support healthy aging or accelerate decline.
- **Healthy aging aims to maintain functional ability.** Healthy aging is not just about longevity, it is about ensuring quality of life. We offer targeted probiotic solutions to support the **evolving needs of older adults, including mobility, cardiovascular health, and mental/cognitive well-being**



Cerenity™

A clinical Breakthrough in Supporting Mobility, Strength and Quality of Life in Healthy Aging

Cardiomeo™ Flow

Vascular Inflammation in Metabolic Syndrome

Cardiomeo™ Balance

Cardiovascular Support in Elderly Men

L. rhamnosus HA-114

B. longum Rosell®-175

Cognitive Health in Age-Dependant Neurodegeneration



Probiotic Solutions for Early Life

- In early-life, probiotics can **help nurture a healthy gut microbiome** and promote **its smooth and timely evolution**. In doing so, they contribute to proper **gut function, intestinal integrity, and healthy immune system development**.

Probiokid®

B. lactis Lafti® B94

S. boulardii CNCM I-1079

Lacidofil®

Prenatis™

dsm-firmenich

Together, **Lallemand Health Solutions** and **dsm-firmenich** are unlocking the synergy of probiotics and Human Milk Oligosaccharides (HMOs) for key areas of infants' development. From this partnership, **4 science-based synbiotic concepts** are born*:

GUT HEALTH	Infant microbiome and gut maturation	>	<i>B. bifidum</i> Rosell®-71	+	GlyCare™ 2'FL and LNnT
MENTAL HEALTH	Gut-brain axis and cognition	>	<i>B. bifidum</i> Rosell®-71	+	GlyCare™ 2'FL and 3'SL
NATURAL DEFENSES	Immune system development	>	<i>B. infantis</i> Rosell®-33	+	GlyCare™ 2'FL
METABOLIC HEALTH	Growth and development	>	<i>B. bifidum</i> HA-132	+	GlyCare™ 2'FL and 3'SL

Available in powders, sticks/sachets, drops, orodispersible powders, infant formula (distributed by dsm-firmenich)

*Based on preclinical *in vitro* data on the combinations.
2'FL: 2'-Fucosyllactose; 3'SL: 3'-Sialyllactose; LNnT: Lacto-N-neotetraose



30+ Clinical studies in infants and young children, and preclinical studies have been conducted to assess the benefits of our probiotic strains across a range of applications



Heat-Inactivated Strains to Support Natural Defenses

- Our postbiotics are produced through heat inactivation using a gentle process that **preserves the integrity of bacterial cells, resulting in enhanced technical properties and potential health benefits.**

IMMUSE® Heat-inactivated *L. lactis* strain Plasma JCM 5805

L. acidophilus Rosell®-418

L. helveticus HA-122

L. paracasei HA-108

L. plantarum HA-119

L. rhamnosus HA-111

B. lactis Lafti® B94

Streptococcus thermophilus HA-110

Value-added-ingredients:



Safe bacteria



No refrigeration needed



Highly stable



Compatible with many ingredients

Joy brings us together
KIRIN

Our recent partnership

IMMUSE® Heat-inactivated *L. lactis* strain Plasma

New strategic distribution partnership: Lallemand Health Solutions and Kirin Holding have joined forces to enhance the visibility and market reach of the most documented postbiotic for immune support:



15 Clinical Studies*

2 Safety Studies

26 Mechanistic Studies

*Including 11 clinical studies on the heat-inactivated *Lactococcus lactis* strain Plasma.

IMMUSE® is a clinically researched lactic acid bacteria developed by Kirin Holdings Company, Limited.



Expert'Biotics for Pets

- **Pet health and wellness products** are gaining popularity.
- Untapped opportunities exist in this emerging category as **remarkably, over one-third of products making probiotic claims do not actually contain probiotics—and fewer than 10% include identified strains.**
- Given the structural and functional similarities between human and pet microbiomes, we leverage the science behind our **EXPERT'Biotics** to help you develop high-quality, evidence-based supplements for pets.



All formulas contain 1B CFU *S. boulardii*, the most documented probiotic strain with 100+ human clinical studies, and clinically demonstrated to have positive effects in dogs for gut comfort and psycho-physical stress.

GUT HEALTH	+	Lacidofil® <i>L. acidophilus</i> Rosell®-418 <i>L. plantarum</i> Rosell®-1012
NATURAL DEFENSES	+	<i>B. bifidum</i> Rosell®-71 <i>L. helveticus</i> Lafti® L10 <i>L. paracasei</i> Lafti® L26
MENTAL HEALTH	+	Cerebiome® Lacidofil® <i>B. bifidum</i> Rosell®-71
ORAL HEALTH	+	Oralis
SKIN HEALTH	+	<i>L. rhamnosus</i> GG <i>L. plantarum</i> Rosell®-1012 Lacidofil®

Depending on local regulation or for any application where viability is a challenge

Postbiotics generated by inactivation of probiotic

L. helveticus HA-122
L. paracasei HA-108
L. plantarum HA-119
L. rhamnosus HA-111
B. lactis Lafti® B94
Str. thermophilus HA-110
L. acidophilus Rosell®-418

Microencapsulation technology

L. helveticus Rosell®-52
L. rhamnosus Rosell®-11
B. longum Rosell®-175
L. helveticus Lafti® L10



Intrinsically resistant strains

Bacillus subtilis Rosell®-179
B. coagulans Rosell®-449

Innovation Retrospective:

Highlighting Key Achievements That Have Shaped the Past Six Years

At Lallemand Health Solutions, we turn vision into action.

Here is an overview of the past six years illustrating how we have truly walked the talk, leading the way in probiotic innovation.

We've forged strategic partnerships, made key acquisitions, and significantly increased our production capacity. We kept on optimizing our processes and adopted cutting-edge technologies.

Our journey has included organizational shifts and structural investments, all while keeping a strong focus on a robust pre-clinical and clinical research programs. We do not just talk about innovation, we deliver it. And with a strong pipeline of innovations ahead, we remain committed to supporting our partners in achieving success in their markets.

2020



Inauguration of a cutting-edge 11.000m² plant in Mirabel (Canada), designed from scratch and built with our collective know-how with state-of-the-art probiotics production machinery



Licensing agreement with **Proge Farm®** to distribute *L. plantarum* (Proge P17630®), Rosella convenient, orally administered probiotic shown to support women's intimate health



Innovative Canadian health claims:
• **Lafti® L10** as an antioxidant probiotic
• **IBacilluS+** on Small Intestine Bacterial Overgrowth (SIBO)



EXPERT'Biotics for babies: consolidation of our documented offer and approval of three of our flagship strains for safe use in infant food in China



Cerebiome® becomes the first probiotic formulation for the **brain-gut axis on the Brazilian market**, with approved health claims by the Brazilian Health Authorities



A large North American RCT assessed the impact of **two bacterial strains on multiple IBS subtypes**, finding positive results on both quality of life and frequency of bowel movements

2021



Launch of **GUARD**, a new protective oral delivery technology for probiotic applications. Food-based, clean-label and patented



Partnership with **FrieslandCampina Ingredients** to launch a best-in class gut health concepts, Natural Pro-Digest, combining Biotis® GOS and *B. lactis* Lafti® B94



Cerebiome® receives the Frost & Sullivan 2021 Best Practices Award



Official kick-off of the first North American clinical study on the use of **Nimble Science's** Small Intestine Microbiome Aspiration (SIMBA) capsule to detect a dietary intervention in the small intestine



New publication in Nutrients demonstrating the efficacy of a multi-strain probiotic formulation, **Probiokid®**, in a comprehensive review of 28 clinical studies in pediatric populations



Lallemand Health Solutions joins **Alliance Promotion Microbiote** (now known as European Microbiome Innovation for Health), a newly formed association to place the microbiome at the heart of diagnostic and therapeutic strategies for better health



2025: The Saint-Simon plant achieves **ISO 14001 certification**, confirming the integration of environmental concerns into its daily activities while maintaining its operational imperatives.

2022



Launch of our offer for **Nutraceutical applications**



New Canadian claims show that our probiotics **can help formula-fed babies develop a microflora similar to that of breastfed ones**



Cerebiome® combined with **Safr'inside** demonstrated in an open study under **medical supervision** **reduction of daily stress** with first effects experienced in only 1 week



Lallemand Health Solutions support the **French Gut Project** to accelerate microbiome science



New breakthrough study in adults with overweight during weight loss demonstrating ***L. rhamnosus* HA-114 improves mood, eating behavior** - such as craving - and **metabolic health**, to support weight management efforts. HA-114 was granted innovative health claims in Canada on eating behaviors

2023



Launch of the first and unique organic version of ***S. boulardii***



Creation of **Expert'Biome™** CDMO by Lallemand to strengthen its strategic position in the microbiome field through contract development and manufacturing operations



Launch of **lozenges**, a new convenient dosage form to support oral and gut health. **Oralis SB** also gained new Canadian claims as a natural alternative to conventional mouthwashes



Acquisition of **DietaryPros Inc.**, a US-based full-service contract manufacturer specializing in the formulation and supply of probiotic solutions for the supplement and nutraceutical sectors



New review highlights the beneficial effects of ***B. lactis* Lafti® B94** on infants' and children's gut health



New study reveals promising results with **Lacidofil®** as an adjuvant to standard therapy, offering an effective approach to *Helicobacter pylori* eradication



An open-label study conducted in Florida in healthy women demonstrated the passage from gut to vagina of three probiotic strains taken orally (***L. plantarum* Rosell-1012, *L. fermentum* HA-179, *L. brevis* HA-112**)



A new systematic review and meta-analysis underscores the potential of **IBacillus+** as an effective adjuvant of conventional IBS therapies

2024



Launch of **Prenatis®** to maintain a **healthy pregnancy** and to contribute to the establishment of a **healthy infant microbiome during the first months of life**



New partnership with **dsm-firmenich** for **early-life synbiotic solutions**, leveraging the synergy of probiotics and human milk oligosaccharides



Publication of new pre-clinical findings on the **modes of action of probiotics in sleep-disrupted conditions**



Inauguration of new **R&D laboratories in France** coupled with the **acquisition of new, state-of-the-art equipment** to **strengthen our bioprocess innovation cluster** and accelerate the development of next-generation strains



The synergy between **FrieslandCampina's Biotis® GOS** and **Lafti® B94** is confirmed by an *ex vivo* gastrointestinal simulation using SIFR® technology assessing their effect individually and as a synbiotic, on gut microbiota and metabolites production

2025



Launch of a complete offer for Healthy Aging, led by **Cerentym™**, a clinically documented formula to support mobility, strength, and quality of life in healthy aging



Cerebiome® demonstrates, in a dermatologist-supervised open-label clinical study, significant benefits for occasional stress, sleep quality, and skin appearance



Cerebiome® named finalist for "Ingredient of the year" award in two separate categories: Mind and Mood and Beauty from Within



Ostia Sciences and **Expert'Biome** successfully produced a new oral care probiotic to launch clinical trials



Strategic distribution agreement with **Kirin Holding** to enhance the visibility and market reach of the most documented postbiotic for immune support, **Immuse®**



Innovative study investigating the benefits of probiotics on **healthy women during the menstrual cycle**



The Saint-Simon plant achieves **ISO 14001 certification**, confirming the integration of environmental concerns into its daily activities while maintaining its operational imperatives



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Lallemand Health Solutions

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**GUT
HEALTH**



**NATURAL
DEFENSES**



**MENTAL
HEALTH**



**WOMEN'S
HEALTH**



**SKIN
HEALTH**



**ORAL
HEALTH**



SPORT



**METABOLIC
HEALTH**



**HEALTHY
AGING**



BABIES

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