



**Rosell Institute** >  
for Microbiome and Probiotics  
by **LALLEMAND**

# Leading Microbiome and Probiotics Research 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  
**19<sup>th</sup>** century



Yeast  
production  
started in  
**1923**

Owned by the  
Chagnon family  
since  
**1952**

Over  
**5,500**  
employees  
globally

**A**  
worldwide  
presence




**52** plants  
including  
**27** yeast and  
**11** 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



**HEALTH  
SUPPLEMENTS**

A part of  
Lallemand

**90+**  
years of  
know-how

**40+**  
proprietary  
strains



**NUTRICALS**



**FOOD  
PROBIOTICS**

**430+**  
publications

**70+**  
countries



**EXPERT'Biome™**  
CDMO by 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.



**7 AFFORDABLE AND  
CLEAN ENERGY**



**12 RESPONSIBLE  
CONSUMPTION  
AND PRODUCTION**



**5 GENDER  
EQUALITY**



**8 DECENT WORK AND  
ECONOMIC GROWTH**



**3 GOOD HEALTH  
AND WELL-BEING**



**9 INDUSTRY, INNOVATION  
AND INFRASTRUCTURE**










# 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
 <b>GUT HEALTH</b>	44	107
 <b>NATURAL DEFENSES</b>	9	34
 <b>MENTAL HEALTH</b>	35	14
 <b>WOMEN'S HEALTH</b>	6	14
 <b>ORAL HEALTH</b>	2	15
 <b>SPORT</b>	5	5
 <b>METABOLIC HEALTH</b>	11	12
 <b>SKIN HEALTH</b>	6	3
 <b>HEALTHY AGING</b>	2	4
 <b>BABIES</b>	8	34

We are currently conducting  
**25+** clinical trials 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

### Discovery platform

#### Identifying and understanding probiotic strains

- Screen and evaluate strains *in vitro* and *in vivo*
- Characterize safety and functional properties
- Investigate mechanisms of action
- Apply and refine advanced technologies and models

### Clinical platform

#### Validating health benefits through clinical research

- Conduct studies initiated by sponsors, investigators, or clients
- Test individual or combined probiotic strains

### Bioprocess and galenic form platform

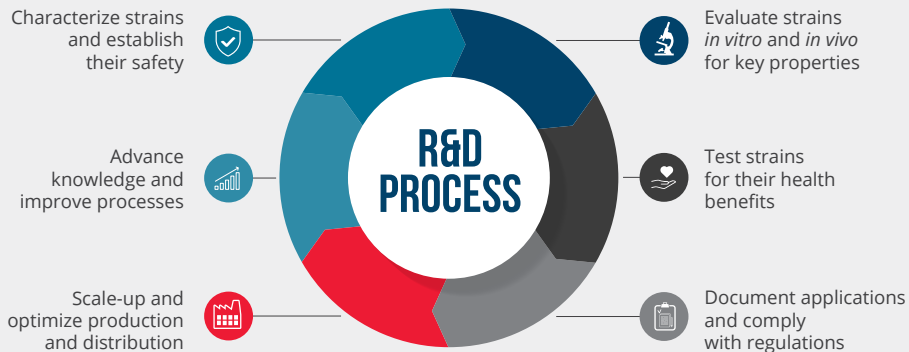
#### Optimizing production and delivery

- Enhance bioprocess efficiency
- Develop innovative galenic forms for targeted populations
- Operate a dedicated applied research facility

### Microbiome program

#### Scaling next-generation microbiome solutions

- Advance fermentation and formulation of key microbiome strains
- Use an agile, adaptive “toolbox” to rapidly deliver scalable solutions



## 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



## 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

<p><b>Lacidofil®</b></p>		<ul style="list-style-type: none"> <li>• 29 clinical studies: 14 in children / 15 in adults, including 2 in pregnant women</li> <li>• Commercially available since 1995 with a pharmacovigilance program showing safe use</li> <li>• 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</li> </ul>
<p><i>B. lactis</i> <b>Lafti® B94</b></p>		<ul style="list-style-type: none"> <li>• Selected from among 40 bifidobacteria strains for its good synergy with prebiotics</li> <li>• 8 clinical studies in infants and children, GRAS for infant formula from birth</li> <li>• Activates bile acid metabolism in healthy overweight adults</li> <li>• Synergistic benefits as a synbiotic with Biotis® GOS, a combination successfully tested by consumers</li> </ul>
<p><i>S. boulardii</i> <b>CNCM I-1079</b></p>		<ul style="list-style-type: none"> <li>• The most documented probiotic yeast in the world with 100+ clinical studies</li> <li>• A time-tested yeast culture mastered and perfected from lab to shelf</li> <li>• Synergistic effects with bacteria</li> <li>• Also available as pharma grade, organic or specifically for babies</li> </ul>
<p><b>IBacilluS+</b></p>		<ul style="list-style-type: none"> <li>• Strong combination of two robust bacteria strains</li> <li>• For other use than dietary supplements: 120 clinical studies with 10,000+ participants in SIBO, IBS, UC, AAD, <i>H. pylori</i>.</li> </ul>
<p><i>L. paracasei</i> <b>HA-196</b></p>		<ul style="list-style-type: none"> <li>• Beneficial effects to help support healthy bowel habits in adults as demonstrated in a large North-American study</li> </ul>
<p><i>L. rhamnosus</i> <b>GG</b></p>		<ul style="list-style-type: none"> <li>• One of the most documented probiotic strains in the world with 50+ studies mainly in gut health and natural defenses</li> <li>• Specifically recommended by pediatricians</li> </ul>
<p><b>Cerenity™</b></p>		<ul style="list-style-type: none"> <li>• A clinical breakthrough in healthy aging: supporting mobility, strength, and quality of life</li> <li>• 1 clinical study on healthy community-dwelling elderly, showing improvements in mobility, coordination, endurance and muscle strength</li> </ul>
<p><b>Cardiomeo™</b></p>		<ul style="list-style-type: none"> <li>• Cardiovascular support in elderly men</li> <li>• 1 clinical study on overweight but otherwise healthy elderly men, demonstrating improvements in cardiovascular risk indexes, antioxidant capacity and mental health.</li> </ul>
<p><b>Metabiotic™</b></p>		<ul style="list-style-type: none"> <li>• Helps maintain cardiovascular health</li> <li>• 1 clinical study on participants with metabolic syndrome (no vascular disease, not taking statins), demonstrating beneficial effects on vascular inflammation and cholesterol levels</li> </ul>

\*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.



**WOMEN'S  
HEALTH**



**SKIN  
HEALTH**



**ORAL  
HEALTH**



**SPORT**



**METABOLIC  
HEALTH**



**HEALTHY  
AGING**



**BABIES**

## 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...)

# UNIQUE 'Biotics™

by LALLEMAND

40+  
proprietary  
strains

## We Support Our Partners' Creativity with Customized Probiotic Blends

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 subtilis* HA-124  
*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

“We firmly believe that innovative health solutions can be identified and implemented strategically through cooperation and creative thinking.”

#### CONTACT US

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