

SACCO
system
— microbiome

**Active Ingredients
and Services**



OUR NUMBERS



6,500+

Cell bank
proprietary
strains



50+

University
partnerships



45+

Probiotic
species
manufactured



150+

Years of
experience



110+

Export
countries



90+

Years of
probiotic
manufacturing



150+

Scientific
publications



11

Production
plants

Gastrointestinal (GI) Health

Irritable Bowel Syndrome (IBS)	<i>B. coagulans</i> SNZ 1969™	Reduces the severity of IBS symptoms in over 90% of IBS-C and IBS-D patients after treatment of a minimum 30 days as well as improving their quality of life.	1 Bn CFU/day
Microbiota Balance	<i>L. rhamnosus</i> IMC 501® <i>L. paracasei</i> IMC 502® SYNBIO	Successfully colonizes the gut, competing with and reducing harmful bacteria as well as enhancing bowel habits and well-being.	1 Bn CFU/day
Bloating, Gas, Heartburn	<i>B. coagulans</i> SNZ 1969™	Improves gut motility and constipation in healthy adults with abitudinal low intake of fruit and vegetables as well as relief from gas, heartburn and bloating.	0.15 Bn to 2 Bn CFU/day
Diarrhoea	<i>L. rhamnosus</i> CRL 1505®	Significantly decreases the impact of intestinal infections by reducing acute diarrhoea and the use of antibiotics in children.	0.1 Bn CFU/day
	<i>B. coagulans</i> SNZ 1969™	Improved watery stools in neonatal infants within 1 to 2 days and improved gastroenteritis in children up to 3 years of age within 3 days.	0.15 Bn to 2 Bn CFU/day
Infection	<i>L. fermentum</i> UCO-979C	Reduces pathogenic colonization in the gut, preventing infection and stimulating the immune system.	0.3 Bn CFU/day

Children and Infant Health

Respiratory and Diarrhoea	<i>L. rhamnosus</i> CRL 1505®	Significantly reduces upper respiratory tract infections, pharyngitis, tonsillitis, acute diarrhoea and the use of antibiotics.	0.1 Bn CFU/day
Infant Colic	<i>L. reuteri</i> LR 92	Maternal prenatal supplementation during the last 4 weeks of pregnancy reduces the incidence and severity of infantile colic in newborn babies.	0.1 Bn CFU/day
Otitis Media	<i>L. rhamnosus</i> LB21	Otitis media is the most common childhood infection. LB21 reduce incidence of this ear infection in children	1.5 Bn CFU/day

Women's Intimate Health

Vaginal Health	<i>L. rhamnosus</i> ProBioEtna CA15®	Restores a healthy vaginal microbiota after 10 days of treatment, reducing Vulvovaginal Candidiasis (VVC) and Bacterial Vaginosis (BV). Also helps to balance the vaginal microbiota.	10 Bn CFU/day
	<i>L. rhamnosus</i> IMC 501® <i>L. paracasei</i> IMC 502® SYNBIO	Improves symptoms associated with bacterial vaginosis (BV) while decreasing the chances of recurrence by restoring vaginal microbiota balance. Also supports the gut microbiome and improves constipation, bloating and abdominal pain.	5 Bn CFU/day
	<i>L. plantarum</i> LB931™	A vaginally isolated <i>L. plantarum</i> with a human clinical study in vaginal health via topical application. This strain lowered mean vaginal pH, and inhibited group B streptococci. Also shows in-vitro reduction of <i>Candida Albicans</i> and inhibition of <i>E. coli</i> .	0.5 Bn CFU/day
	<i>B. coagulans</i> SNZ 1969™	Treatment in both oral and topical dose forms, this strain can reduce recurrent Bacterial Vaginosis (BV) and is effective against non-specific vaginitis.	0.15 Bn CFU/day

Immune Health

Upper Respiratory Tract	<i>L. rhamnosus</i> CRL 1505®	Decreases the severity of upper respiratory tract infection symptoms as well as decreasing the overall duration of the infection in children.	0.1 Bn CFU/day
	<i>L. rhamnosus</i> IMC 501® <i>L. paracasei</i> IMC 502® SYNBIO	Decreases severity of symptoms of Upper Respiratory Tract infections.	1 Bn CFU/day

Allergy

Dust-Mites	<i>L. rhamnosus</i> IMC 501® <i>L. paracasei</i> IMC 502® SYNBIO	Significantly reduces allergy sensitization to house dust mites.	15 Bn CFU/day
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Metabolic Health

Weight Management	<i>L. plantarum</i> IMC 510®	Supplementation for 12 weeks results in decreased body weight, waist circumference and BMI, which is maintained for 30 days after supplementation ceases .	15 Bn CFU/day
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Gut Brain Axis

Stress/Anxiety	<i>L. plantarum</i> P8	Supports a reduction in stress and anxiety, and improvements in memory and cognitive functions.	20 Bn CFU/day
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Oral Health

Dental Caries (Tooth Cavities)	<i>L. rhamnosus</i> SP 1	Regular intake reduces the occurrence of dental caries.	1.5 Bn CFU/day
	<i>L. rhamnosus</i> LB21	Reduces caries development and the number of days with antibiotic treatment by 60% in preschool children.	2 Bn CFU/day
	<i>B. coagulans</i> SNZ 1969™	Significant reduction of the cariogenic microorganism <i>Streptococcus mutans</i> in children.	0.15 Bn CFU/day
Aphthous Ulceration	<i>B. coagulans</i> SNZ 1969™	Significantly reduces the incidence of recurrent aphthous (mouth) ulcers.	0.15 Bn CFU/day

Skin Health

Acne	<i>L. rhamnosus</i> SP 1	Improves the appearance of acne and lessens the inflammatory processes related to acne formation by modulating genes involved in insulin signaling.	3 Bn CFU/day
Atopic Dermatitis	<i>L. rhamnosus</i> LB21	Significantly reduces the need to use corticosteroids in children.	100 Bn CFU/day
	<i>L. rhamnosus</i> LB21 + SP 1	Topical application decreases severity of visual signs and decreases intensity of itching on people with atopic dermatitis.	1 Bn CFU/day

Healthy Aging

Longevity and cell aging	<i>L. rhamnosus</i> IMC 501® <i>L. paracasei</i> IMC 502® SYNBIO	Supports healthy aging by targeting multiple interconnected pathways involved in age-related decline. It helps modulate systemic inflammation associated with chronic age-related conditions, mitigates cellular senescence reducing telomeres shortening, and may reduce the risk of sarcopenia.	5 Bn CFU/day
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Sport

Performance Improvement	<i>L. rhamnosus</i> IMC 501® <i>L. paracasei</i> IMC 502® SYNBIO	Improves the body's recovery processes and fatigue after training by lowering exercise-induced oxidative stress. In addition, SYNBIO improves gastrointestinal functions and reduces susceptibility to illness.	1 Bn CFU/day
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Postbiotics

Respiratory health	<i>L. rhamnosus</i> CRL 1505® HI	Thanks to the maintenance of higher levels of circulating dendritic cells involved in the anti-viral responses, it shows a beneficial role in promoting immune defense, with a reduction of symptomatic day of physical conditions.	1 Bn Cells/day
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Species	Strain name	Minimum concentration (Billion CFU/g)*
<i>Bifidobacterium adolescentis</i>	SP 77	50
<i>Bifidobacterium animalis subsp. lactis</i>	Bi1	300
<i>Bifidobacterium animalis subsp. lactis</i>	BLC1	500
<i>Bifidobacterium bifidum</i>	SP 9	200
<i>Bifidobacterium breve</i>	Bbr8	300
<i>Bifidobacterium breve</i>	BL10	200
<i>Bifidobacterium infantis</i>	SP 37	300
<i>Bifidobacterium longum</i>	SP 54	100
<i>Lactobacillus acidophilus</i>	LA3	200
<i>Lactobacillus acidophilus</i>	LA1	200
<i>Lactobacillus brevis</i>	SP 48	200
<i>Lactobacillus bulgaricus</i>	LB2	50
<i>Lactobacillus casei</i>	BGP93	300
<i>Lactobacillus crispatus</i>	SP 28	50
<i>Lactobacillus crispatus</i>	SP 60	50
<i>Lactobacillus fermentum</i>	CS57	100
<i>Lactobacillus fermentum</i>	LF2	100
<i>Lactobacillus gasseri</i>	SP 33	200
<i>Lactobacillus gasseri</i>	SP 56	50
<i>Lactobacillus helveticus</i>	SP 27	100
<i>Lactobacillus lactis</i>	LL 82	100
<i>Lactobacillus paracasei</i>	101/37	200
<i>Lactobacillus paracasei</i>	BGP 2	400
<i>Lactobacillus plantarum</i>	14D	500
<i>Lactobacillus plantarum</i>	LB931	200
<i>Lactobacillus plantarum</i>	BG 112	400
<i>Lactobacillus rhamnosus</i>	GG	350
<i>Lactobacillus salivarius</i>	SP 2	100
<i>Lactococcus lactis</i>	SP 38	300
<i>Streptococcus thermophilus</i>	Z57	200
<i>Streptococcus thermophilus</i>	SP 4	400

*1 Billion = 10⁹ CFU

Postbiotics

Species	Strain name	Minimum concentration (Billion cells/g)*
<i>Bifidobacterium animalis</i> subs. <i>lactis</i>	BLC1 HI	100
<i>Bifidobacterium longum</i> subs. <i>infantis</i>	SP 37 HI	100
<i>Lactobacillus acidophilus</i>	LA1 HI	100
<i>Lactobacillus acidophilus</i>	LA 3 HI	150
<i>Lactobacillus casei</i>	BGP93 HI	150
<i>Lactobacillus paracasei</i>	101/37 HI	150
<i>Lactobacillus plantarum</i>	14D HI	150
<i>Lactobacillus reuteri</i>	LR 92 HI	130
<i>Lactobacillus rhamnosus</i>	SP 1 HI	100
		*1 Billion = 10 ⁹ Cells

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The introduction of the Product into a market outside the European Union is the sole responsibility of the purchaser. The purchaser must ensure, among other things, that the Product fully complies with the applicable laws and regulations of the relevant territory and fulfills all necessary obligations for lawful market introduction

ActiveServices

MadeForYou

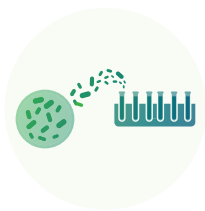
Within the microbiome innovation space, Sacco System emerges as a reliable all-in-one partner. We specialize in handling the intricacies of manufacturing and science, freeing you to concentrate on your core business. Our range of services covers expertise in aerobic and anaerobic strains, Probiotics, Postbiotics, and Microbial Therapeutics, providing versatile solutions tailored to your unique requirements.

Process development & fermentation: from initial development to scale up.

Product formulation: Our business development team can support the design of the final concept, from the definition of the scientific rationale to the selection of the most appropriate pharmaceutical form, to shortcut your entry into the market.



Media screening and optimization



Analytical method development, qualification and validation



Molecular biology & genetic analysis



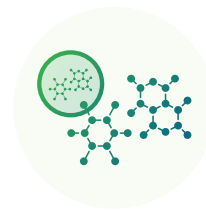
Cell bank preparation and validation (RCB, MCB and WCB)



Process development and scale up



Lyophilization



Possible production in GMP from clinical to industrial scale (200L to 20,000L)



Stability studies

In vitro and in vivo trials: Defining the experimental design and characterizing your product in vitro or through clinical trials.

Market Expansion: Market analysis, distributor scouting and management, connection to third-party service providers as laboratories, contract manufacturing organizations and authorities.

Regulatory Support: Registration support, new biotherapeutic dossiers.

Molecular biology & laboratory analysis: Several wet labs and in silico assays to better characterize your products.

Yogurt

Yogurt is a fermented product made from milk. It is prepared by adding live bacteria cultures, specifically *Lactocaseibacillus delbrueckii* subsp. *bulgaricus* and *Streptococcus thermophilus* to milk.

This fermentation process converts lactose, the natural sugar in milk, into lactic acid, giving yogurt its tangy flavor and thick texture.

The great majority of the flavor compounds found in yogurt derive from the activity of microorganisms in starter cultures.

Yogurt Application	Product characteristics	Cultures series	Fermentation Speed	Texture	Flavor	Strains
Set mild	Controlled post-acidification Balanced aroma Naturally smooth	Y 256 A PLUS Y 258 A PLUS	Medium	Medium/High	Mild and Aromatic flavor	<i>Streptococcus thermophilus</i> <i>Lactobacillus delbrueckii</i> subsp. <i>bulgaricus</i>
Stirred and aromatic	Controlled post-acidification Balanced aroma Extra mouthfeel	Y 350 A Y 359 C Y 380 F Y 450 B	Medium	Medium/High	Mild and Aromatic flavor	<i>Streptococcus thermophilus</i> <i>Lactobacillus delbrueckii</i> subsp. <i>bulgaricus</i>
Stirred mild	Extremely low post-acidification Very high texture Extra mouthfeel	Yo-mild Yo-mild 1.1 Y 428 A Y 429 A	Medium/High	High	Extra-Mild	<i>Streptococcus thermophilus</i> <i>Lactobacillus delbrueckii</i> subsp. <i>bulgaricus</i>
Stirred premium, Greek yogurt	Low post-acidification maintaining Balanced aroma High texture Extra mouthfeel	Yo-Athena (range)	Medium	Medium/High	Mild and Aromatic flavor	<i>Streptococcus thermophilus</i> <i>Lactobacillus delbrueckii</i> subsp. <i>bulgaricus</i>

Freeze-dried direct inoculation STARTER CULTURES

Fermented Milk

Fermented milk is a dairy product obtained by fermenting milk with specific microorganisms that convert lactose into lactic acid. Dahi (Indian curd) is a traditional fermented milk from the Indian subcontinent, produced by inoculating heat treated milk with bacterial cultures until it becomes thick, creamy, and mildly tangy. Lassi is a yogurt-based drink originating from the Punjab region, made by blending dahi with water or milk, spices, and sometimes fruit, resulting in a smooth, frothy beverage typically served chilled in sweet or savory varieties.

Product Application	Product characteristics	Cultures series	Fermentation Speed	Texture	Flavor	Strains
Dahi Curd	High speed acidification, more grain, firm, mild flavor, low post acidification	ST 081 ST 083 ST 085 ST 087	High	-	Mild	<i>Streptococcus thermophilus</i>
	Good acidification speed, more flavor, more compact, no viscosity	MS 058 ET MS 059 ET	Medium	-	Mild	<i>Streptococcus thermophilus</i> ; <i>Lactococcus lactis</i> ssp. <i>lactis</i> ; <i>Lactococcus lactis</i> ssp. <i>lactis</i> biovar <i>diacetylactis</i> ; <i>Leuconostoc mesenteroides</i> ssp.
Lassi Buttermilk	High speed of acidification, more flavor, moderate viscosity	UBM 11.0 UBM 12.0 UBM 13.0	High	Low	Medium/High	<i>Streptococcus thermophilus</i> ; <i>Lactobacillus delbrueckii</i> ssp. <i>bulgaricus</i> ; <i>Lactococcus lactis</i> ssp. <i>lactis</i> ; <i>Lactococcus lactis</i> ssp. <i>lactis</i> biovar <i>diacetylactis</i> ; <i>Leuconostoc mesenteroides</i>

Freeze-dried direct inoculation STARTER CULTURES

FM-Delice

FM-Delice is the product line inspired by traditional Kefir, designed for modern taste. The original kefir is a nutrient-rich fermented milk originating from the Caucasus region. Designed to meet diverse consumer expectations, these solutions support a wide range of texture and aroma profiles—from traditional and authentic to creamy and milky

Culture	Optimal T°C Range	Fermentation Time	Texture	Aroma	Yest Profile
MT 036 LV	32°C	pH 4,5 in 15h30	0	Mild Traditional	NLFY
MT 036 LX	32°C	pH 4,5 in 10h	0	Traditional	LFY
MS 332 EN	32°C	pH 4,55 in 8h15	3	Creamy, Milky	Yeast free
MT 430 ANV	34°C	pH 4,5 in 8h	4	Creamy, Milky	NLFY
MT 430 AN	34°C	pH 4,5 in 9h30	4	Creamy, Milky	Yeast free
MTX 432 EN	34°C	pH 4,55 in 8h30	4	Creamy, Milky	Yeast free with probiotics

NLFY: Non-Lactose Fermenting Yeast

LFY: Lactose Fermenting Yeast

All cultures are freeze-dried. Phage alternatives are available upon request

Pasta Filata Cheese

Pizza cheese typically refers to a blend of cheeses, commonly mozzarella, known for its meltability and elastic texture. The choice of cheese contributes significantly to the taste of the final pizza.

Fresh mozzarella is a soft, mild cheese made from cow's or buffalo's milk. It has a high moisture content, a smooth surface, and a delicate, creamy flavor. The cheese is typically formed into small, round shapes and is best enjoyed shortly after production for its optimal freshness and texture. It's a popular choice for salads, caprese dishes, and as a topping for pizza.

Application	Product characteristics	Cultures series	Fermentation Speed	Flavor	Strains
Pizza cheese	High performing cultures to improved stretchability and meltability	ST REGINA S	Very High	Medium	<i>Streptococcus thermophilus</i>
	Improving cheese yield Suitable for low fat mozzarella	ST Optima 1.0 ST Optima 1.1	Very High	Medium	<i>Streptococcus thermophilus</i>
	High performing cultures to better control browning and blistering issues related. Improved stretchability and meltability	SH 090 E SH 094 E SH 092 F SH 096 F	Very High	Medium	<i>Streptococcus thermophilus</i> <i>Lactobacillus helveticus</i>
Fresh mozzarella	A series designed to provide the typical "fior di latte" characteristics to the product	ST 05X	Medium	High	<i>Streptococcus thermophilus</i>

Cheddar

Cheddar is a relatively hard cheese, off-white or orange. It originates from the English village of Cheddar in Somerset, South West England.

Cheddar made in the classical way tends to have a sharp, pungent flavour, often slightly earthy.

The “sharpness” of cheddar is associated with the levels of bitter peptides in the cheese. This bitterness has been found to be significant in shaping the overall perception of aged cheddar flavour. It tends to melt in the mouth.

Product characteristics	Cultures series	Fermentation Speed	Texture	Flavor	Strains
Specifically designed for Cheddar type cheese. Creamy notes	MOS 052 A MOS 054 A MOS 056 A	Medium/Fast	Medium Low	Medium High	<i>Streptococcus thermophilus</i> <i>Lactococcus lactis</i> ssp. <i>lactis</i> <i>Lactococcus lactis</i> ssp. <i>cremoris</i>
Specifically designed for semi hard cheeses. Also suitable for long ripening.	MOS 062 B MOS 064 B MOS 066 B	Medium	Medium Low	Medium	<i>Streptococcus thermophilus</i> <i>Lactococcus lactis</i> ssp. <i>lactis</i> <i>Lactococcus lactis</i> ssp. <i>cremoris</i>
Complex set of cultures for the production of semi hard cheeses.	MOS 060 G MOS 066 G	Fast	Medium Low	Medium	<i>Streptococcus thermophilus</i> <i>Lactococcus lactis</i> ssp. <i>lactis</i> <i>Lactococcus lactis</i> ssp. <i>cremoris</i>
Specifically designed for semi hard cheeses.	MOT 097 EF MOT 098 EF	Medium	Medium Low	Medium High	<i>Streptococcus thermophilus</i> <i>Lactococcus lactis</i> ssp. <i>lactis</i> <i>Lactococcus lactis</i> ssp. <i>cremoris</i> <i>Lactobacillus delbrueckii</i> ssp. <i>bulgaricus</i> <i>Lactobacillus helveticus</i>

Freeze-dried direct inoculation STARTER CULTURES

American Cottage Cheese

Cottage cheese is a curdled milk product with a mild flavor and a creamy dressing, heterogeneous, soupy texture, made from skimmed milk. Cottage cheese is loved also for its versatility, and convenience.

It's a ready-to-eat, nutritious snack enjoyed on its own, in smoothies, or in both sweet and savory dishes, making it perfect for any meal occasion.

Product characteristics	Cultures series	Fermentation Speed	Texture	Flavor	Strains
Finely working at 28-38°C	MOS 071D MOS 070 F MOS 072 F	Regular	Regular elastic	Medium/High	<i>Streptococcus thermophilus</i> <i>Lactococcus lactis ssp. lactis</i>
Finely working at 28-38°C	MOS 080 F MOS 082 F	Faster	Regular elastic	Medium/High	<i>Streptococcus thermophilus</i> <i>Lactococcus lactis ssp. lactis</i>
Finely working at 28-38°C	MOS 090 F MOS 092 F	Very high	Regular elastic	Medium/High	<i>Streptococcus thermophilus</i> <i>Lactococcus lactis ssp. lactis</i>

Food Cultures with Protective Effect – Complete Range

Clean Label Solutions for shelf life without compromise.
Multiple mechanisms – tailored to product and matrix



AYM

Anti Yeasts & Molds



AP

Anti *Pseudomonas* &
Anti *Psychrotrophic*



AL

Anti *Listeria monocytogenes*



AG

Anti Gram Negative



PS

Protein Stability NEW



AC

Anti Clostridia



AOM

Anti Others Microorganisms
(e.g. *Heterofermentative Microorganisms*)

Probiotics Product Line

Fermented dairy has long been considered the ideal vehicle for delivering probiotics. However, technological challenges remain, as processing conditions can compromise the viability and efficacy of probiotic strains. Sacco System addresses these hurdles with a portfolio of probiotic strains, backed by scientific evidence. Engineered for versatility, our cultures maintain stability across diverse fermented matrices— from traditional dairy to innovative applications in plant-based products, dark chocolate and beverages.

Product Name	Blend Composition	Characteristics
Synbio 100	<i>Lactocaseibacillus rhamnosus</i> IMC 501 ® + <i>Lactocaseibacillus paracasei</i> IMC 502 ®	A scientifically documented blend supporting intestinal balance, antioxidant and anti-inflammatory activity, also for healthy aging. Versatile formulation for functional foods, supporting athletic performance, digestive wellness, and products targeting dust mite allergies.
CRL 1505 ®	<i>Lactocaseibacillus rhamnosus</i>	Isolated from goat's milk, ideal for use in the production of fermented milk, yogurt, and probiotic cheese. CRL1505 stimulates the immune response, promoting a protective effect and naturally improving the immune, digestive, and respiratory systems in children and adults.
BLC 1	<i>Bifidobacterium animalis</i> ssp. <i>lactis</i>	It promotes the strengthening of the intestinal barrier and the metabolism of oxalates and lactose. Suitable for synergistic formulations.
AB 1	<i>Lactobacillus acidophilus</i> , <i>Bifidobacterium animalis</i> ssp. <i>lactis</i>	Multistrain Formulations that maintain the balance of the intestinal flora for digestive system
ABC 1	<i>Lactobacillus acidophilus</i> , <i>Bifidobacterium animalis</i> ssp. <i>lactis</i> , <i>Lactocaseibacillus casei</i>	

Add Value With Postbiotics

Thanks to the maintenance of higher levels of circulating dendritic cells involved in the anti-viral responses, CRL 1505[®] HI shows a beneficial role in promoting immune defense, with a reduction of symptomatic day of physical conditions.

CRL 1505[®] HI is:



Versatile



Stable



Safe

Immune system modulation:

better maintenance of receptor HLA-DR (Human Leukocyte Antigen) expression during the treatment period. HLA-DR is a marker of pDC (plasmacytoid dendritic cells) activation, whose production is associated with immune activation, showing a beneficial role in modulating the immune response.

Physical condition improvement:

reduction of symptomatic day of physical conditions during 8 weeks of intake, with a global improvement of bowel symptoms and social conditions.

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