

**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  
expeirece



**110+**

Export  
countries



**90+**

Years of  
probiotic  
manufacturing



**150+**

Scientific  
publications



**8**

Production  
plants

# ActiveIngredients

## CultureScience

Our CultureScience portfolio presents a selection of clinically studied strains, strategically formulated to address various essential health concerns across different life stages. Available as individual strains or pre-formulated blends, each product has undergone thorough evaluation in gold-standard human clinical trials, confirming its proven health benefits.

We adhere to the highest quality standards in the manufacturing of CultureScience strains, ensuring their sustained activity and viability throughout the entire shelf life of your finished product. Our commitment to quality reflects our dedication to providing reliable and effective solutions for the well-being of end-users.

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## CultureSelect

Our CultureSelect portfolio offers a large selection of well-characterized strains with proven safety and which are produced under the highest quality standards to support your needs. CultureSelect strains provide a flexible solution to help you create unique formulations, with every product available as a single strain ingredient or a customized blend.

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## Gastrointestinal (GI) Health

Irritable Bowel Syndrome (IBS)	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	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	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	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
	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	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	CRL 1505®	Significantly reduces upper respiratory tract infections, pharyngitis, tonsillitis, acute diarrhoea and the use of antibiotics.	0,1 Bn CFU/day
Infant Colic	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	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	ProBioEtna CA15 <sup>®</sup>	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
	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
	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
	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	CRL 1505 <sup>®</sup>	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
	SYNBIO	Decreases severity of symptoms of Upper Respiratory Tract infections.	1 Bn CFU/day

## Allergy

Dust-Mites	SYNBIO	Significantly reduces allergy sensitization to house dust mites.	15 Bn CFU/day
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## Metabolic Health

Weight Management	IMC 510 <sup>®</sup>	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	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)	SP 1	Regular intake reduces the occurrence of dental caries.	1.5 Bn CFU/day
	LB21	Reduces caries development and the number of days with antibiotic treatment by 60% in preschool children.	2 Bn CFU/day
	SNZ 1969™	Significant reduction of the cariogenic microorganism Streptococcus mutans in children.	0,15 Bn CFU/day
Aphthous Ulceration	SNZ 1969™	Significantly reduces the incidence of recurrent aphthous (mouth) ulcers.	0,15 Bn CFU/day

## Skin Health

Acne	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	LB21	Significantly reduces the need to use corticosteroids in children.	100 Bn CFU/day
	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	SYNBIO	Supports healthy ageing by reducing chronic low-grade inflammation associated with age-related pathologies. May also reduce the risk of sarcopenia.	5 Bn CFU/day
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## Sport

Performance Improvement	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	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 = 10<sup>9</sup> CFU

## Postbiotics

Species	Strain name	Minimum concentration (Billion CFU/g)*
<i>Bifidobacterium animalis</i> subs. <i>lactis</i>	BLC1 HI	600
<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 <sup>9</sup> Cells



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# ActiveServices

## MadeForYou

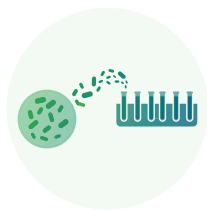
Within the microbiome innovation space, Sacco System emerges as a reliable all-in-one partner. We specialize in handling the intricacies of manufacturing and science, freeing you to concentrate on your core business. Our range of services covers expertise in aerobic and anaerobic strains, Probiotics,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



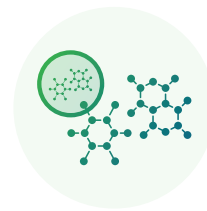
Cell bank preparation and validation (RCB, MCB and WCB)



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.

# Take a Note

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## Company

Sacco System heritage in Lactic Acid Bacteria (LAB) traces its roots back to 1948, when Dr. Leo Vesely founded Centro Sperimentale del latte, a pioneer company dedicated in studying of bacteria for human health and children's nutrition.

Today we are the international biotech hub for food, nutraceutical, and pharmaceutical industries. Operating in over 110 countries worldwide, Sacco System provides its expertise on probiotic products development and offer science based proprietary strains and customized blends, supporting consumer needs.

Our innovative approach covers production, research and development in nutraceutical and pharmaceutical fields, having available three pilot plants, cutting edge technologies and two facilities GMP Pharmaceutical certified. An expertise extends beyond LAB, following the evolving demands of the market. This includes the development, process validation and commercial production of probiotics, postbiotics, Next-Generation bacteria (obligate aerobes and anaerobes strains) and biotherapeutics (BPs).

## Quality

Our quality system is extensive and as a confirmation of our strong commitment to quality, Sacco System has achieved the main certifications over the years.



**Contact us to discover the best solution for your business!**

