



BSCU1

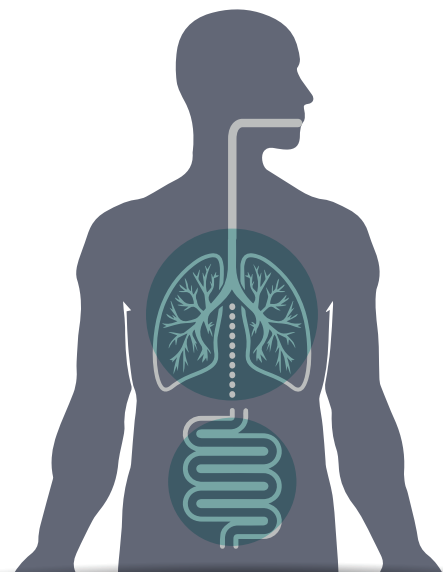
EMPOWER YOURSELF



One of the most
stable probiotic
for IMMUNE
SUPPORT

secretory Immunoglobulins A (sIgA), OUR 1st LINE OF BODY DEFENSES

Modern life (stress, fatigue...) can lead to the weakening of our natural defenses and leave us more sensitive to pathogens. Consumers are now aware that maintaining a healthy immune system is key to staying healthy and performing well every day.



sIgA are the most abundant antibodies of the immune system. Located at the most vulnerable interface with the environment: the mucosa (an enormous area of potential exposure to pathogens), sIgA are considered as the first line defense against pathogens. sIgA are able to catch toxins and infectious agents. While preventing their interactions with the mucosa, sIgA participate in the protection from common infections such as respiratory and gastrointestinal infections.

Common infections in the world^(1,2,3)

Most adults catch a cold 2 to 4 times a year while children and the elderly experience it 4 to 10 times a year!

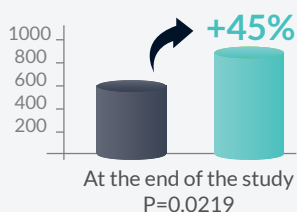
The common cold is a leading cause of missed days from school and work, and it induces high medical costs for society.

With LifeinU™ *Bacillus subtilis* CU1, MAY BOOST YOUR EVERYDAY HEALTH!

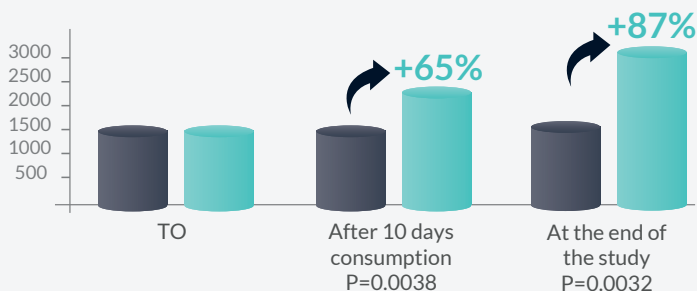
LifeinU™ BSCU1 supports mucosal immune responses as observed in our clinical study which showed increased sIgA levels in the intestine and saliva.

■ Placebo ■ LifeinU™ BSCU1

sIgA concentration in human saliva (µg/ml)

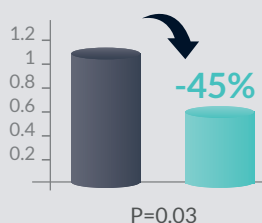


sIgA concentration in human stools (µg/ml)



Frequency of Upper Respiratory Tract Infections

This protective effect of LifeinU™ BSCU1 is confirmed by a 45% reduction in the frequency of Upper Respiratory Tract Infections



By supporting our natural defenses, LifeinU™ BSCU1 may help us stay healthy and may contribute to our wellbeing.

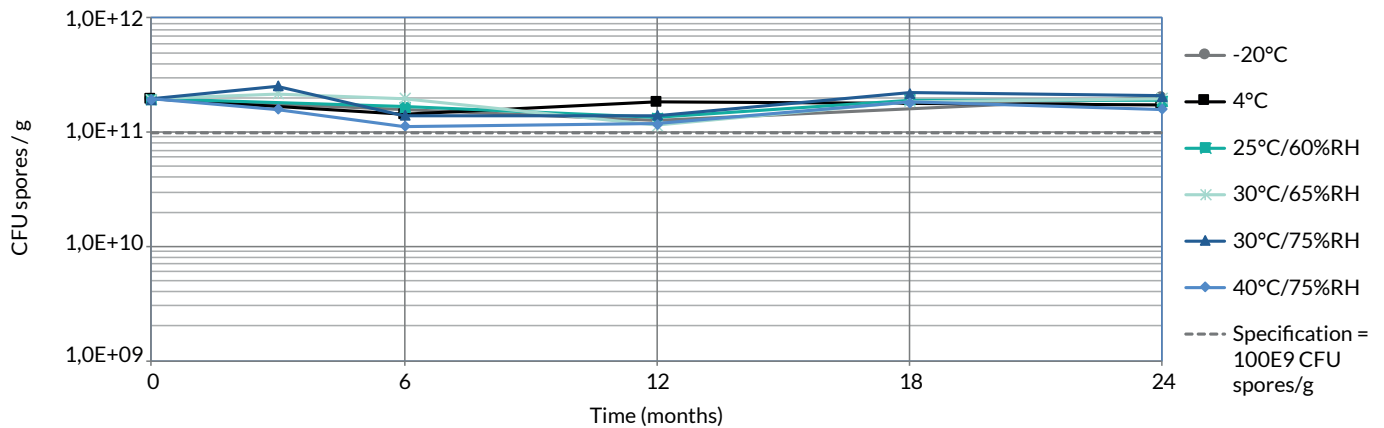
•1. www.webmd.com • 2. Heikinnen T., Jarvinen A. Lancet 2003;361:51-9 • 3.Elliott, EJ (6 January 2007). "Acute gastroenteritis in children." BMJ (Clinical research ed.) 334 (7583): 35-40
• 4. Lefevre M, Racedo S, Ripert G, Housez B, Cazaubiel M, Maudet C, Jüsten P, Marteau P, Urdaci M. Probiotic strain LifeinU™ BSCU1 stimulates immune system of elderly during common infectious disease period: a randomized, double-blind placebo-controlled study. Immunity & Ageing (2015) 12:24; DOI 10.1186/s12979-015-0051-y.

A HIGHLY STABLE INGREDIENT FOR SUPPLEMENTS AND FOOD FORMULATIONS

- LifeinU™ BSCU1 is an ingredient able to survive 24 months in extreme conditions.
- LifeinU™ BSCU1 can survive harsh manufacturing processes.



Stability to heat and humidity



LifeinU™ BSCU1, as a highly stable probiotic, can be used alone or in combination with other ingredients both in dietary supplements and in a diverse range of functional food matrices.

Additional information available upon request

A PROBIOTIC THAT SUPPORT IMMUNE HEALTH AT ALL STAGES OF LIFE⁵



We expect our children to perform well everyday: school, sport training... But children are fragile and pathogens are with them no matter where they are. With up to 10 infections per year, they often miss school.



Our current lives require us to be efficient at all times. Daily life stress, intensive training, fatigue... can lead to a decrease of our sIgA concentration and leave us more sensitive to pathogens (common colds, air-conditioning infections...).



The production of sIgA may decrease with age and can cause the elderly to be more vulnerable. Increased use of medication, changes in diet and repeated contact with grandchildren can result in an increased risk of infections.

With its ability to boost our natural defenses, LifeinU™ BSCU1 is a safe and natural solution to protect everyone⁵ from common respiratory and gastrointestinal infections.

⁵ As for all probiotics, the use of LifeinUTM BSCU1 in patients in fragile health conditions (such as high-risk immune-compromised patients, critically sick infants, pre-term infants...) is contraindicated. Not to be used in children below the age of 3 years old.

A UNIQUE PROBIOTIC THAT **MAY EMPOWER** THE CONSUMER'S **IMMUNE RESPONSE**



SUPERIOR STABILITY

Stable for 2 years at 40°C - 75%RH. Spore forming bacteria able to survive industrial manufacturing processes like compression, high temperature and humidity⁶...

CLINICAL EVIDENCE

Clinical supported that **may boost the immune health** and reduce frequency of common colds with a **small daily dosage of 2x10⁹ CFU/day**.

POSSIBLE APPLICATIONS

Easy to incorporate into both dietary supplements and food applications; alone or in combination with other ingredients.

PATENT PROTECTED: Patent protected. Strain registered as CNCM I-2745

SAFETY: US GRAS⁸ status (self-affirmed)

SUITABLE FOR SPECIAL DIETS: Halal, Kosher, Non-GMO, lactose & gluten free

•6.Additional information available upon request •7.Qualified Presumption of Safety (as per European Food Safety Authority) •8.Generally Recognized As Safe (as per US Food and Drug Administration)

GNOSIS BY LESAFFRE **WORLDWIDE**



Where We Are Located
More than 350 team members around the globe

- Headquarters & Research Centers
- Offices
- Manufacturing

TAKE ADVANTAGE OF GNOSIS BY LESAFFRE PRODUCTS QUALITY



KNOW-HOW



EFFICACY



NATURAL ORIGIN



QUALITY



TOOLBOX

WHY CHOOSING **GNOSIS BY LESAFFRE?**

- 165 years of experience in biotechnology and yeast research.
- Mission to develop and supply ingredients from yeast and bacteria fermentation -including API*- to the global human nutrition markets:
 - nutritional supplement
 - pharmaceutical
 - functional food
 - personal care

*API: Active Pharmaceutical Ingredient

- Probiotic yeasts and bacteria, nutritional yeasts, fortified yeast, yeasts fractions, pure molecules from fermentation.
- Ingredients with scientifically proven efficacy.
- A complete range with benefits on wellness & immune health, digestion & gut health, mobility & joint health, reproduction & women health and mood & cognitive health.



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