CRL 1505™

Lacticaseibacillus rhamnosus CRL 1505™

The immunobiotic

Respiratory tract infections (RTIs) are a persistent public health problem and include a series of clinical syndromes covering the **common cold, influenza, and other upper and lower respiratory tract infections (URTIs and LRTIs, respectively).**

RTIs are still among the primary causes of death worldwide, despite the remarkable advances in antibiotic therapies, diagnostic tools, and intensive care.

Influenza viruses affect up to 20% of the world's population each year.

Acute respiratory infections are associated with almost 50% of hospitalizations in children: it is estimated that respiratory tract infection causes nearly 4 million deaths annually and is a leading cause of death among children under 5 years old.

Incorrect antibiotic therapy is prescribed in 30 to 50% of the cases increasing the risk of multi-resistances species.

CRL 1505™ reduces the incidence of upper respiratory tract and gastrointestinal infections, supporting the immune system and reduces the need for antibiotics consumption

- Hypoallergenic
- Vegetarian
- Gluten free
- Kosher
- Halal
- GMO free
- Genome Sequenced
- Gastric resistant

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CRL 1505™ boosts the immune system

The mechanisms of action of CRL 1505™ have been unveiled in a series of *in vivo* models, and include increased basal levels of interferon gamma (IFN-y) in the host, a key activator of the innate and adaptive immune system, and of the anti-inflammatory cytokine interleukin 10 (IL-10).
These modulations allow the priming of the immune system to tackle RTIs through an overall stimulation of the immune system, intra- and extra-intestinally [2].

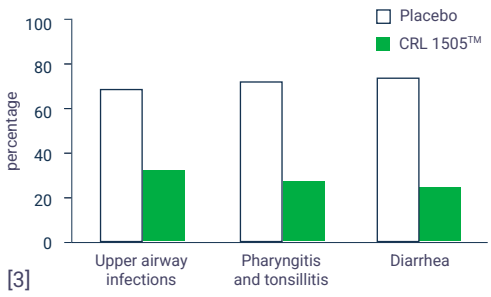
One of the key elements identified in CRL 1505™ interaction with the host is its strain-specific peptidoglycan (PG05), which has proven to have a immunomodulatory activity.
PG05 significantly increases specific antibodies production and the number of alveolar macrophages (AMs) producing interferon beta (IFN-β). These cells play a key role in the beneficial modulation of the respiratory innate immune response during viral and bacterial infections [6-7].

CRL 1505™ reduces URT infections

298 children | **0,1 Bn CFU/day** | **Randomized, double blinded, placebo-controlled**

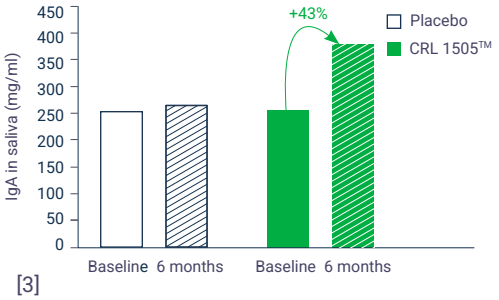
Human trial

Reduces infections



[3]

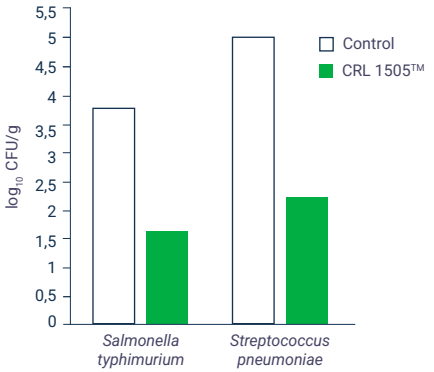
Boosts the immune system



[3]

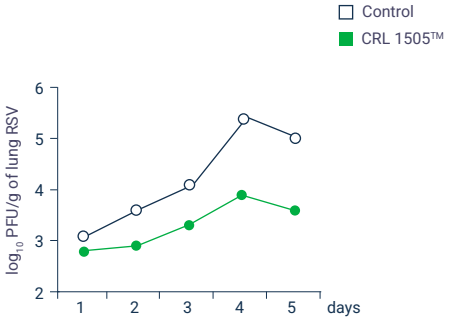
In-vivo trial

Protects from bacterial infections



[5]

Protects from viral infections



[4]

CRL 1505™ facts

- More than 35 publications in pre-clinical and clinical studies
- Scientifically demonstrated ability to keep viral and bacterial respiratory tract infections at bay
- Clinically proven reduction of upper respiratory and gastrointestinal infections
- Every day 350,000 children in Argentina benefit of the immunological properties of CRL 1505™ which is part of the official National Nutritional Program

[1] Wang Y et al., Medicine (Baltimore) 95(31), e4509 (2016) | [2] Salva S, et al., Int J Food Microbiol 141(1-2), 82-9 (2010) | [3] Villena J, et al., International Journal of Biotechnology for Wellness Industries 1, 189-198 (2012) | [4] Zelaya H, et al., International Immunopharmacology 19, 161-173 (2014) | [5] Salva S, et al., J Sci Food Agric 91, 2355–2362 (2011) | [6] Clua P, et al., Cells 9(7), 1653 (2020) | [7] Kolling Y, et al., PLoS One. 13(3), e0194034 (2018)

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