

# LR92



*Limosilactobacillus reuteri* LR92

## The best start for a new life

Infant colic is a condition that affects approx. 20% of infants under 3 months of age, and is often described as “**excessive crying**”. Its aetiology is unclear but likely related to psychological and physiological causes.

In children, colic leads to sleeping problems and may cause allergies, migraine, attention deficit and hyperactivity as long-term effects, but it can also cause sleeping disorders and depression in parents, due to the continuous crying and the sleepless nights.

**Probiotic administration during pregnancy has shown several benefits in infants post-birth, including improved gut health.**

Furthermore, due to the short duration of colic (first 3 months) and the time required for probiotics to develop their protective function, a preventive administration in the pregnant mother is the ideal solution to prevent colic onset in infants after birth.

**LR92 is the first probiotic with demonstrated improvement of infant colic in babies when consumed during the last trimester of pregnancy**

Hypoallergenic

Vegetarian

Gluten free

Kosher

Halal

GMO free

Genome Sequenced

Gastric resistant

microbiome



**microbiome**

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## LR92 reduces colic

Several mechanisms of action have been proposed to explain how prenatal administration of probiotics can improve infant colic [3-5]:

- Increasing levels of anti-inflammatory mediators such as IL-10 and TGF- $\beta$  in breast milk, which in turn stimulate the gut development and IgA secretion, control inflammation and improve gastrointestinal function
- Improving gut barrier function by stabilizing tight junctions and mucin production
- Promoting production of gamma aminobutyric acid (GABA), which is the major inhibitory neurotransmitter, and influences behavior
- Modulating gut microbiota development.

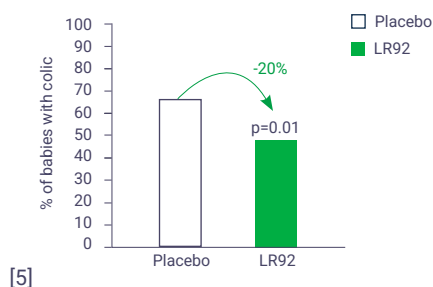
## LR92 clinical evidences

145  
women

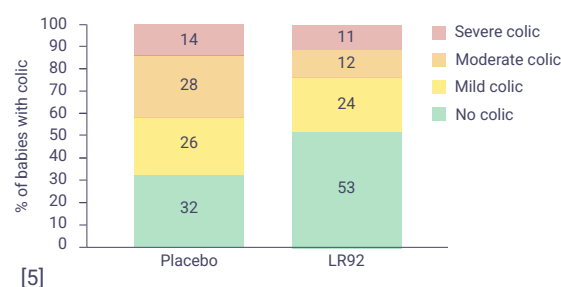
0,1 Bn  
CFU/day

Randomized, double blinded,  
placebo-controlled

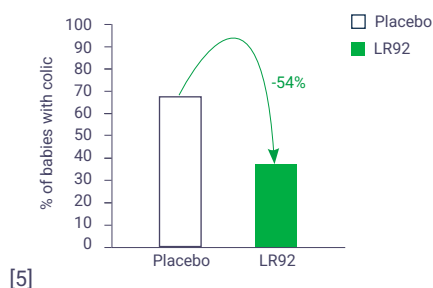
### Reduces colic occurrence



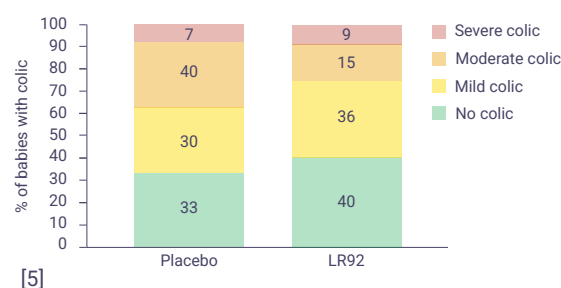
### Reduces colic severity in newborn babies



### Prevents colic in C-section births



### Reduces colic severity in natural births



## LR92 facts

- LR92 is the first and only probiotic strain that is clinically proven to improve infant colic via prenatal administration.
- Being consumed by expectant mothers in the last trimester of pregnancy, LR92 is effective from birth.
- LR92 benefits have also been proven clinically significant for babies born via C-section.
- The low daily dosage allows for LR92 to be easily incorporated into existing pre-natal formulations which include other vital nutrients for pregnant mothers.



[1] Zeevenhooven J, et al., Nat Rev Gastroenterol Hepatol 15(8):479-496 (2018) [2] <https://www.mayoclinic.org/diseases-conditions/colic/symptoms-causes/syc-20371074>  
 [3] Sung V, et al., BMC Pediatr 12:135 (2012) [4] Pérez-Castillo ÍM, et al., Nutrients 17;13(1):256 (2021) [5] Pourmirzaiee MA, et al., Eur J Pediatr 179, 1619–1626 (2020)

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