



Increase iron uptake – not only intake

The innumerable biochemical processes that take place in the human body every second depend on a number of nutrients. These nutrients must be ingested and then absorbed by the gastrointestinal system. The processes of nutrient intake and nutrient uptake are critical for health maintenance. If intake or uptake fails, the consequences can be serious and even fatal.

Probi FerroSorb® is a probiotic iron absorption concept with proven health effects, based on *Lactobacillus plantarum* 299v (LP299V®) combined with a carefully balanced amount of iron. The benefit of Probi FerroSorb® versus a traditional iron supplement is that Probi FerroSorb® increases the total iron uptake. This means that less iron needs to be consumed, and consequently the risk for side effects coupled to iron intake is reduced. The result is a balanced iron uptake, well-functioning stomach and healthy intestinal flora.

Health benefits

- Increased iron absorption (uptake, not just intake).
- Reduces the need for additional iron supplementation.
- Gentle to the gastrointestinal system, without side effects normally linked to iron supplementation.
- A natural way to maintain iron levels.

Short facts

Strain: *Lactobacillus plantarum* 299v

Origin: Human intestinal mucosa

Documentation: Multiple preclinical and clinical studies

Recommended daily dose: 10¹⁰ CFU

Safety: GRAS and QPS status, safe history of use in commercial food products and dietary supplements

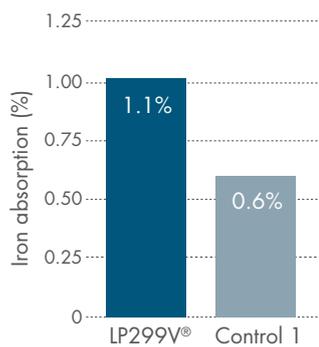
Different solutions for different needs – product application ideas

Ideal for capsules, tablets and stick-packs in the dietary supplement segment or for functional foods such as beverages, dairy and powder products.

Probi FerroSorb® – five clinical studies on iron absorption with conclusive results

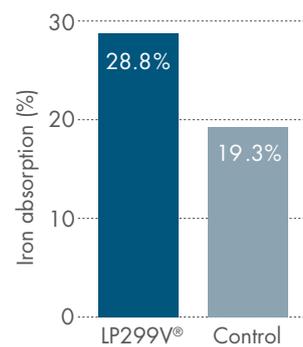
In all five studies a similar methodology was applied, but three different product matrices were used – oatmeal base, fruit drink and a vegetable capsule. The results are unique. For the first time, researchers have been able to show, in several clinical studies, that LP299V® significantly improves iron absorption from a meal. Probi FerroSorb® prevents iron deficiency in a completely new and patented way – by increasing the uptake, not only the intake.

LP299V® increases iron absorption by 80%



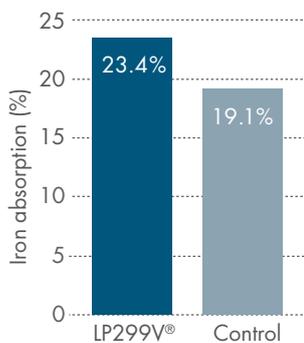
Study 1 (oat base) This study included 24 healthy women of childbearing age (with an average age of 25). (Bering et al., 2006)

LP299V® increases iron absorption by almost 50%



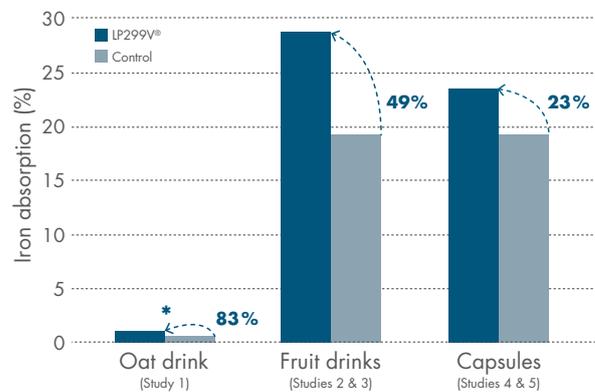
Studies 2 & 3 (fruit drink) These studies included 21 healthy women of childbearing age (20–40 years). (Hoppe et al., 2015)

LP299V® increases iron absorption by almost 23%



Studies 4 & 5 (vegetable capsule) These studies included 42 healthy women of childbearing age. (Hulthén & Hoppe, 2014a,b, Hoppe et al., 2017)

No matter the product formulation, LP299V® increases iron absorption significantly



*The relatively low iron uptake observed from the oat drink is likely due to the high phytic acid content, inhibiting iron uptake, in combination with the low amount of iron ingested. (Bering et al., 2006, Hoppe et al., 2015, Hulthén & Hoppe, 2014a,b, Hoppe et al., 2017)

The Probi Premium range is an exclusive range of patented probiotic health concepts based on specific strains – concepts with comprehensive clinical dossiers showing repeated positive results on health benefits that are condition or claim specific. Efficacy and safety have been proven in numerous human clinical studies.

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