

Next-Level Synbiotic Formulations with 25 mg of Livaux® per Billion cfu of Probiotics

Do you have these aspirations for your synbiotic formulation?

- Low dose of a synergistic prebiotic starting at 25 mg per billion cfu of probiotics
- Anti-inflammatory
- Clinically proven whole fruit ingredient
- Precision prebiotic
- Supports the growth of both aerobic & anaerobic bacteria
- Supports the growth of *Faecalibacterium prausnitzii*
- Increase the production of butyrate, acetate and propionate
- Fast relief from bloating

Livaux® is a skinless, seedless, cold-processed gold kiwifruit powder retaining the goodness of the whole fruit, such as maximum key bioactive enzyme activity, polyphenols, vitamins and dietary fibre. It is a clinically proven prebiotic, well-suited for synbiotic formulations.

Kiwifruit Pectin – A Complex Probiotic Food

The dietary fibre in Livaux is from the kiwifruit cell walls. Anagenix's proprietary processing ensures that these complex polysaccharides, such as kiwifruit pectin, retain their complete structural complexity for maximum gut health benefits. For example, owing to its structural complexity, Livaux kiwifruit pectin is slowly fermented by a diverse range of specialised bacteria as it transits through the colon. This translates into the growth of a greater variety of good bacteria and increased production of beneficial short-chain fatty acids, including butyrate, acetate and propionate.

Up to 115% Growth of Probiotics

Supporting the growth of both aerobic and anaerobic bacteria, research shows that Livaux can support both commercial probiotics at a dose of 25 mg per billion cfu (Table 1) and beneficial gut bacteria, such as the anaerobic *Faecalibacterium prausnitzii* at a low dose of 600 mg (Figure 1 and 2).

Table 1: Probiotic strains that grow on at least 25 mg of Livaux per billion cfu and their potential health benefits

Probiotic	% growth with Livaux ¹	Potential health benefits
<i>Lactobacillus rhamnosus</i> HN001	111%	Women's (maternal) health including immunity for mum and baby, postnatal mental health, vaginal health and protection against gestational diabetes
<i>Bifidobacterium lactis</i> HN019	115%	Gastrointestinal and immune health - improves intestinal transit time and reduces GI symptoms
<i>Bifidobacterium lactis</i> BB12	25%	One of the most clinically studied strains for constipation. Also evidence to support oral health, immune health and healthy cholesterol levels
<i>Lactobacillus gasseri</i> BN17	13%	Weight management (supports a healthy BMI) and provides digestive health support
<i>Bacillus coagulans</i> SC208	13%	Supports gastrointestinal and immune health

¹ As shown in *in vitro* assays. Report available upon request.

Livaux increases F.prau at a low dose of 600mg

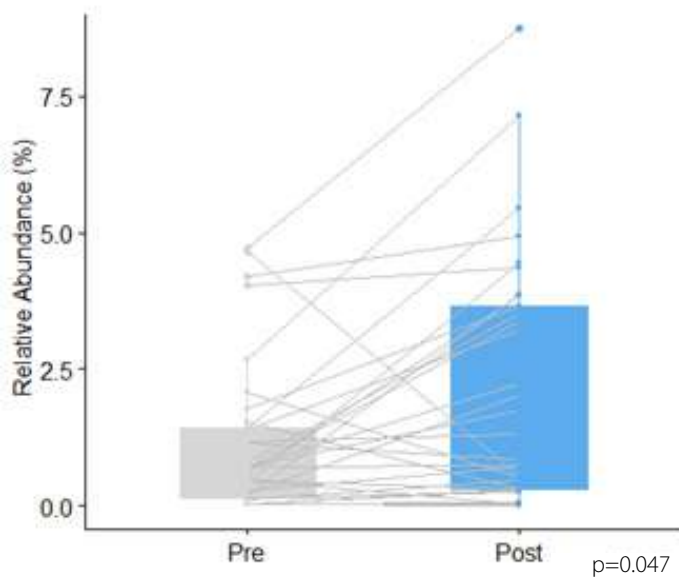


Figure 1: Relative abundance of *F. prau* significantly ($p = 0.047$) increases following supplementation with 600 mg Livaux for 4 weeks in healthy people with self-reported constipated. Lines represent individual participants. Paired Wilcoxon rank sum test.

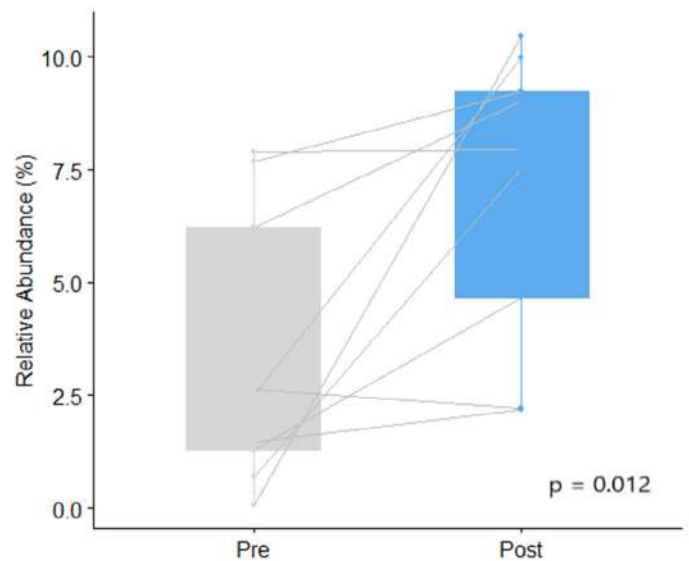


Figure 2: Relative abundance of *F. prau* significantly ($p = 0.012$) increases following supplementation with 2,400 mg Livaux for 4 weeks in functionally constipated individuals. Lines represent individual participants. Paired Wilcoxon rank sum test.



Low dose

Starting from 25 mg per billion cfu of commercially available probiotics.

Low water activity

Livaux has very low water activity, with a specification limit of 0.2 and an average of 0.14. A low water activity is vital to ensure the survival of live probiotics during their shelf life.

Fast, Gentle Results









Livaux works gently but quickly, with improvements in bloating, pain and discomfort seen after just one dose of Livaux.

Complementary & Synergistic Synbiotic Formulations

Synbiotics are "A mixture, comprising live microorganisms and substrate(s) selectively utilized by host microorganisms, that confers a health benefit on the host."

Livaux® is able to carry this definition beyond the horizon:

- Livaux® promotes the growth of *F. prau*, a biomarker of a healthy gut. This makes it a good **complementary** synbiotic.
- Livaux® also promotes the growth of commercial probiotics. This makes it a good **synergistic** synbiotic.

KEY FEATURE	DETAILS	HOW OTHER PREBIOTICS COMPARE
 <p>Its a food!</p>	Freeze-dried kiwifruit with proven safety and history of human consumption	Can be extracts or made from sources with no history of human consumption
 <p>Low dose</p>	Low dose of 25 mg per billion cfu of probiotic for synbiotic formulations Clinically proven at 600 mg	2 – 20 g
 <p>FODMAP friendly & well-tolerated</p>	Helps relieve bloating and gas	Can cause bloating and gas
 <p>Slow fermentation</p>	Promotes diversity and production of beneficial short chain fatty acids like butyrate	Rapidly and easily fermented, so may not promote diversity
 <p>Specifically targets F.prau</p>	Livaux pectin is a preferred food source for F. prau.	No other whole food prebiotics have been clinically shown to selectively feed F. prau
 <p>Multiple bioactives – not just a prebiotic fibre</p>	Livaux contains: <ul style="list-style-type: none"> • Dietary fibre - prebiotic effects and bowel regularity • Polyphenols – antioxidant, anti-inflammatory and microbiome modulation effects • Vitamins C, E and folate – immune health • Actinidin – protein digesting enzyme 	Just dietary fibre
 <p>Clinically proven</p>	2 clinicals to date	Many prebiotics only rely on in vitro or in vivo data to support claims
 <p>Great taste!</p>	Delicious, sweet, tropical fruit taste	Can have an undesirable flavour or none at all



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