



Yogurt: Shots for the Metabolic Wellness & Immune System

2021



**Vitamin
Complex**
contributes to the
normal function of
the **Immune
System**



“an escalating global epidemic of overweight and obesity – ‘globesity’ – is taking over many parts of the world.”



Almost
2 billion
people world-
wide are
overweight

1/4

of the world's
population
is affected by
metabolic
syndrome

Postbiotics* And Metabolic Wellness

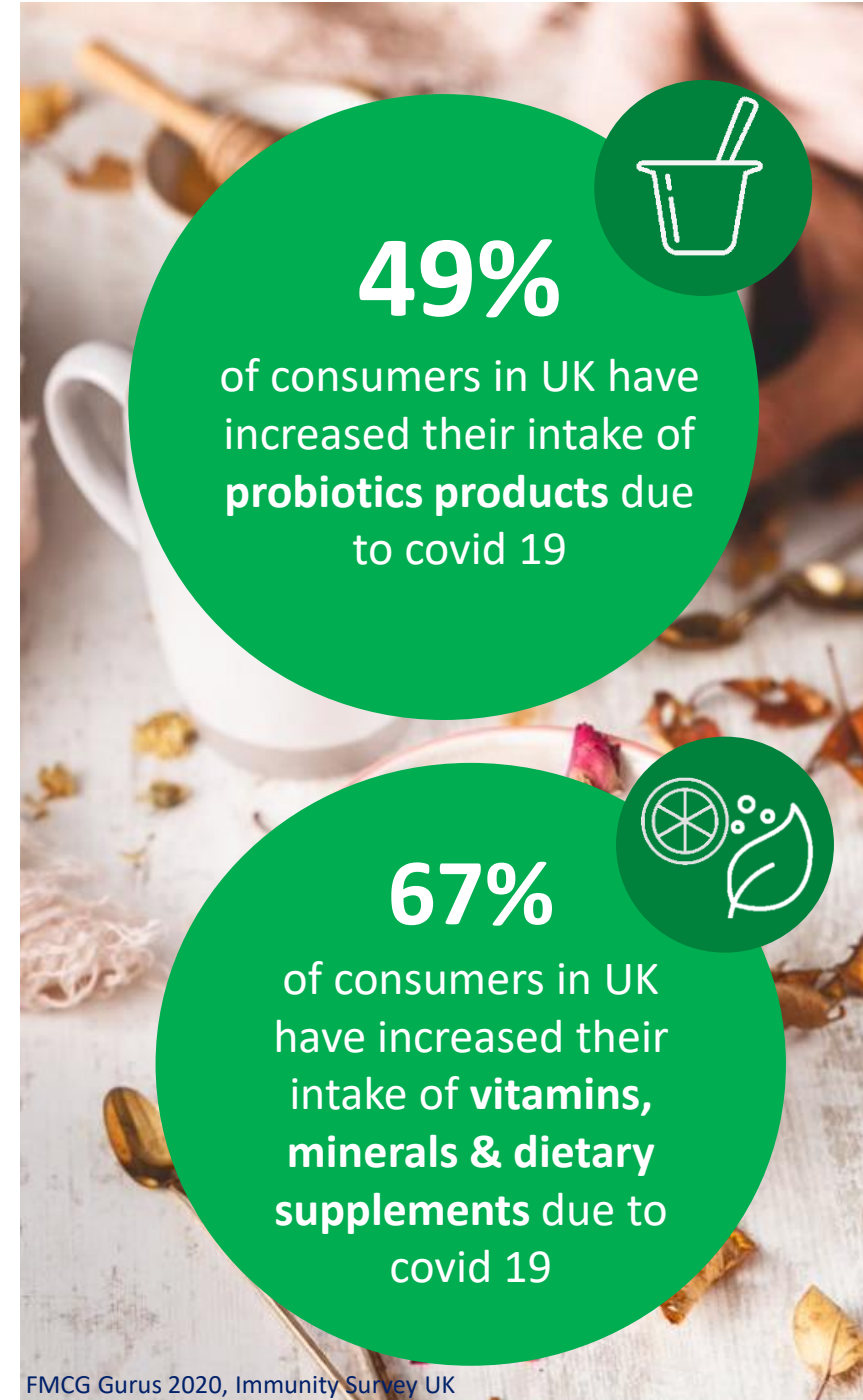
Metabolic health is fundamental to healthy living. Excess weight and obesity can negatively impact each of the interconnected clinical measures that characterize metabolic syndrome:

- Increased waist circumference
- Reduced HDL-cholesterol
- Elevated resting blood pressure
- Elevated fasting glucose
- Elevated fasting triglycerides

Metabolic syndrome is indicated when any three of these measures are present, and observational data have shown this condition is associated with an increased risk of heart disease and type 2 diabetes. As more of the world's populations become overweight and obese, weight management becomes even more important to promoting good health.

Source: Mintel Food & Foods

*For HT BPL1 there is no authorized EFSA Claim available at the moment



FMCG Gurus 2020, Immunity Survey UK

Ingredient of the Year for Weight Management

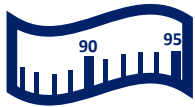
BPL1 AT A GLANCE

- A naturally occurring bacteria, extracted directly from healthy, breast-fed children
- Positively tested in biofunctionalities against competitors
- Well documented strain
 - Tested in human clinical trial
 - Patent protected
 - Six papers published in peer reviewed journals
 - Fully gene characterization
- **Obesity management by means of**
 - Fat reduction
 - Waist circumference reduction
 - Satiety increase
 - Strong antioxidant and anri-inflammatory effect
- Works both alive and heat-killed
- Favorably tested synergies with other probiotic strains and prebiotics



The Scientific Clinical Study Behind HT BPL1

A randomized double-blind, placebo controlled clinical trial to understand HT BPL1's role in markers of metabolic health:



Women and men with waist circumferences greater than or equal to 88cm (w) and 102cm (m), respectively



Intervention: HT-BPL1 for 12 weeks (at a concentration equivalent to 10^{10} CFU in life organisms)



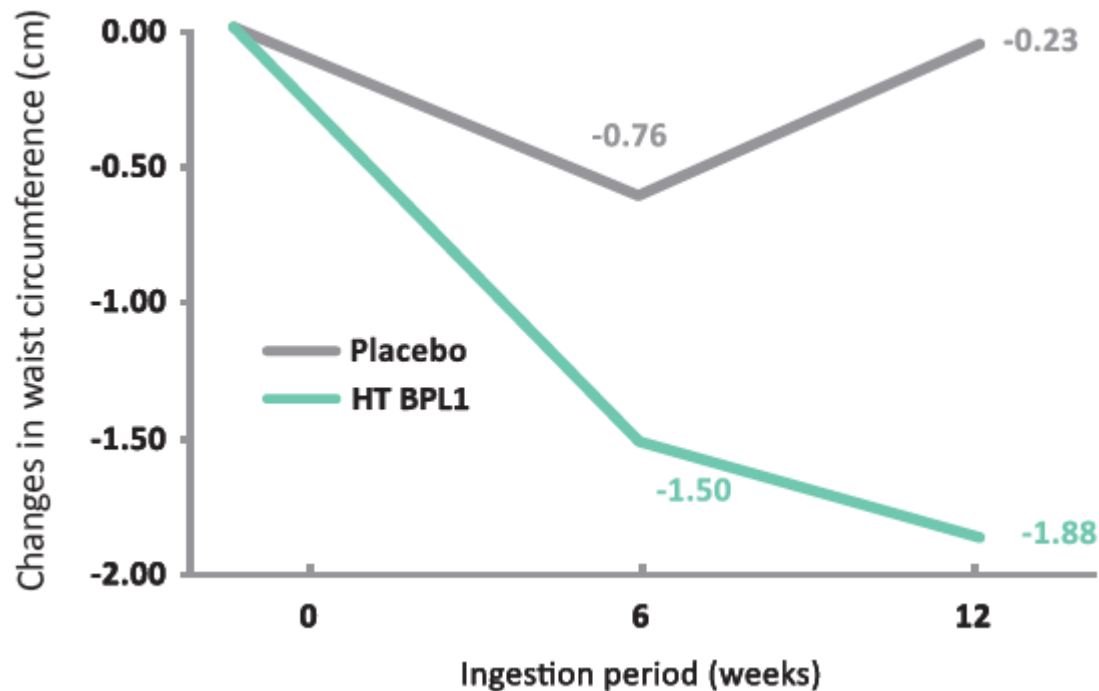
Multiple outcomes assessed, including anthropometric biomarkers and microbiome analysis

*For HT BPL1 there is no authorized EFSA Claim available at the moment



RESULTS (1/3): The Scientific Clinical Study Behind HT BPL1

39% of study subjects in the HT BPL1 intervention group experienced a decreased waist circumference of 2cm or more at 12 weeks.

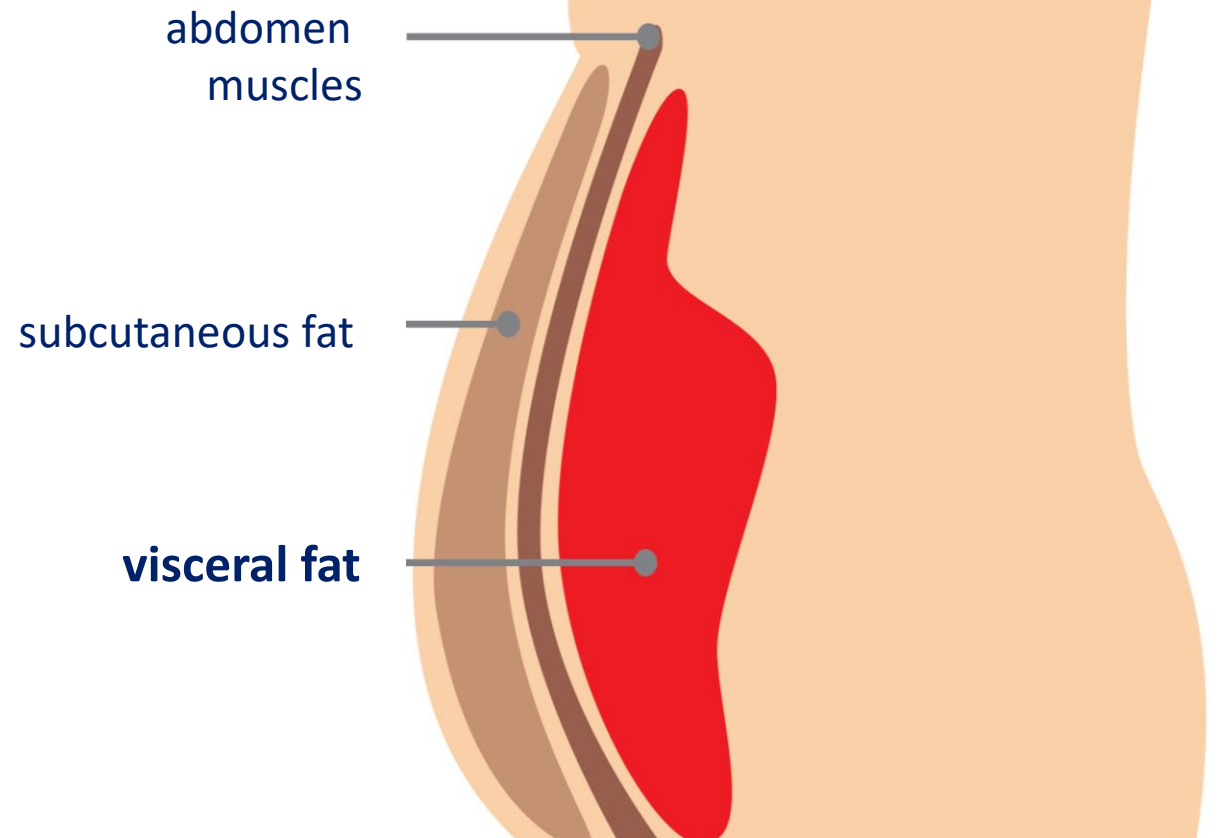
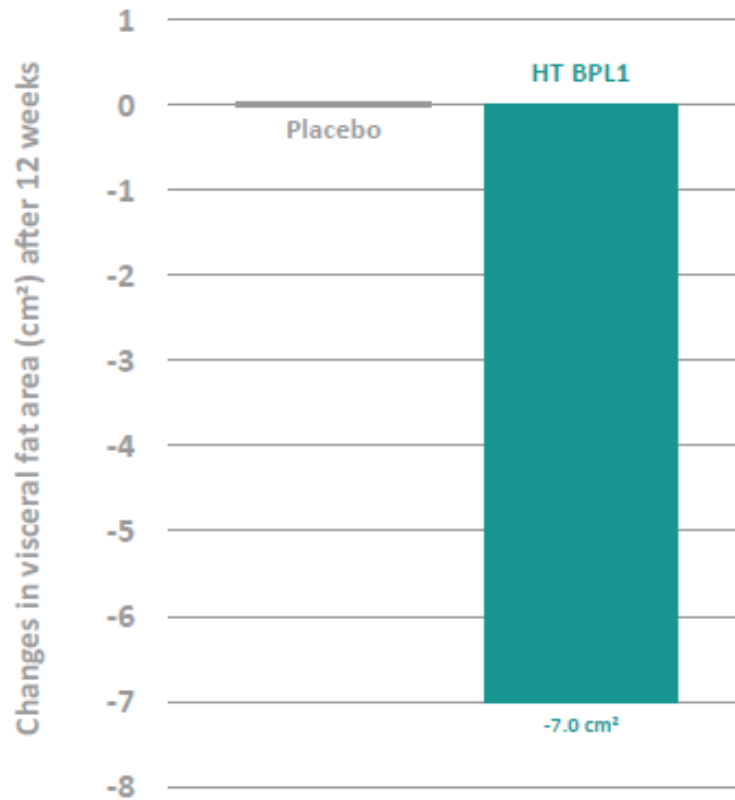


*For HT BPL1 there is no authorized EFSA Claim available at the moment



RESULTS (2/3): The Scientific Clinical Study Behind HT BPL1

55% of participants taking HT BPL1 saw a **reduction in visceral fat area.**



*For HT BPL1 there is no authorized EFSA Claim available at the moment

RESULTS (3/3): The Scientific Clinical Study Behind HT BPL1

After only 12 weeks, reductions from baseline were seen in: **Body Mass Index (BMI), Diastolic blood pressure and HOMA-IR score.**

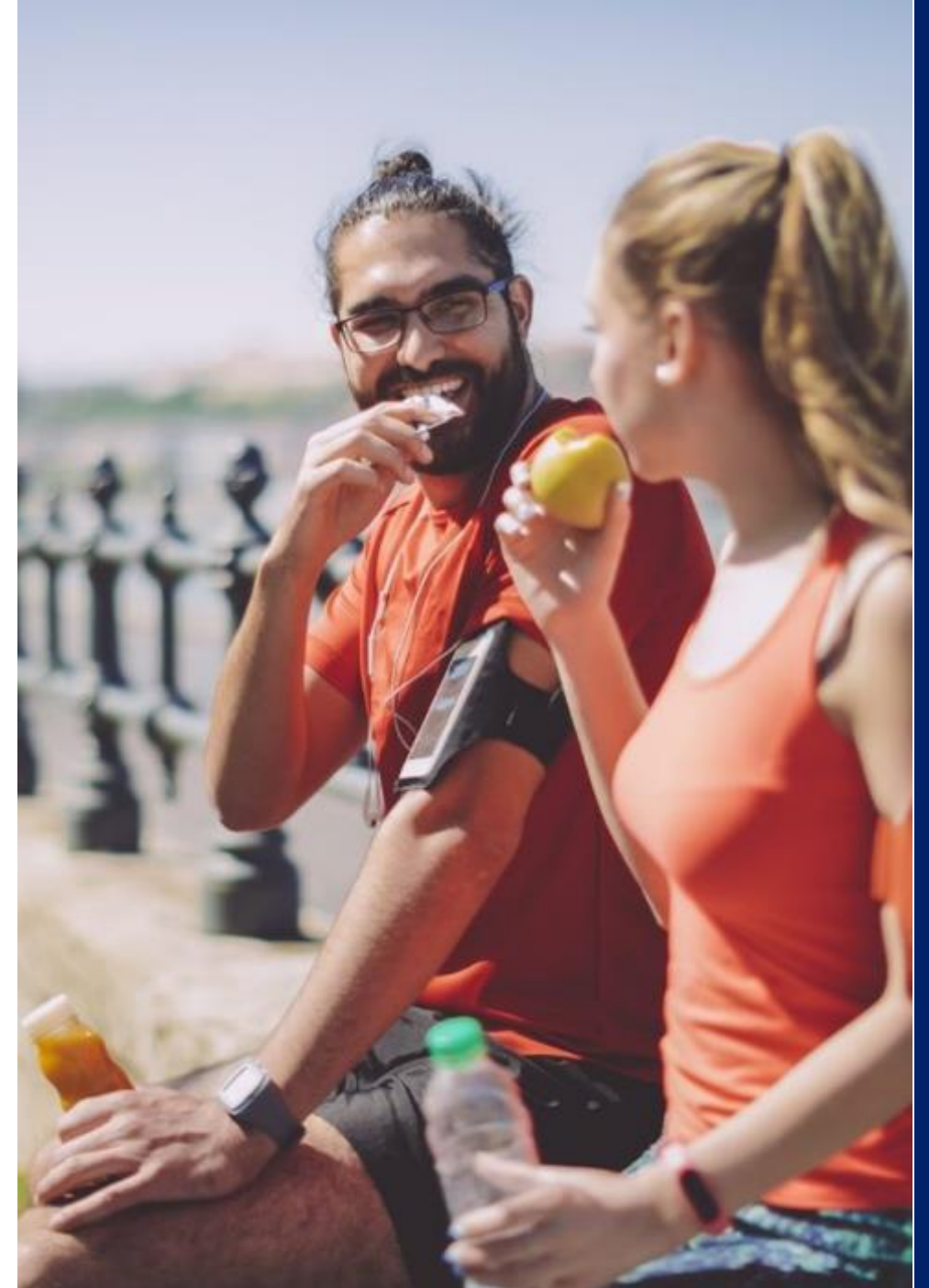
Among subjects in the HT BPL1 intervention group with a BMI in the obesity range (30 or greater) at baseline, **11% saw their BMI fall below the obesity threshold at 12 weeks**



WINNER: NutraIngredients Awards in 2020 as Ingredient of the Year in Weight Management

WINNER: BIG Innovation Awards 2021

*For HT BPL1 there is no authorized EFSA Claim available at the moment





HT BPL1 A Cutting-Edge Solution

RESULTS: The Scientific Clinical Study Behind HT BPL1

- ✓ **39% of study subjects** in the HT BPL1 intervention group experienced a **decreased waist circumference of $\geq 2\text{cm}$ at 12 weeks.**
- ✓ **55% of participants** taking HT BPL1 saw a **reduction in visceral fat area.**
- ✓ After only 12 weeks, reductions from baseline were seen in: **Body Mass Index (BMI), Diastolic blood pressure and HOMA-IR score.**
- ✓ Among subjects in the HT BPL1 intervention group with a BMI in the obesity range (30 or greater) at baseline, **11% saw their BMI fall below the obesity threshold** at 12 weeks

HT BPL1 can be incorporated easily into food & beverages



dairy & plant-based chilled or non-chilled



sports nutrition



better-for-you snacks



beverages



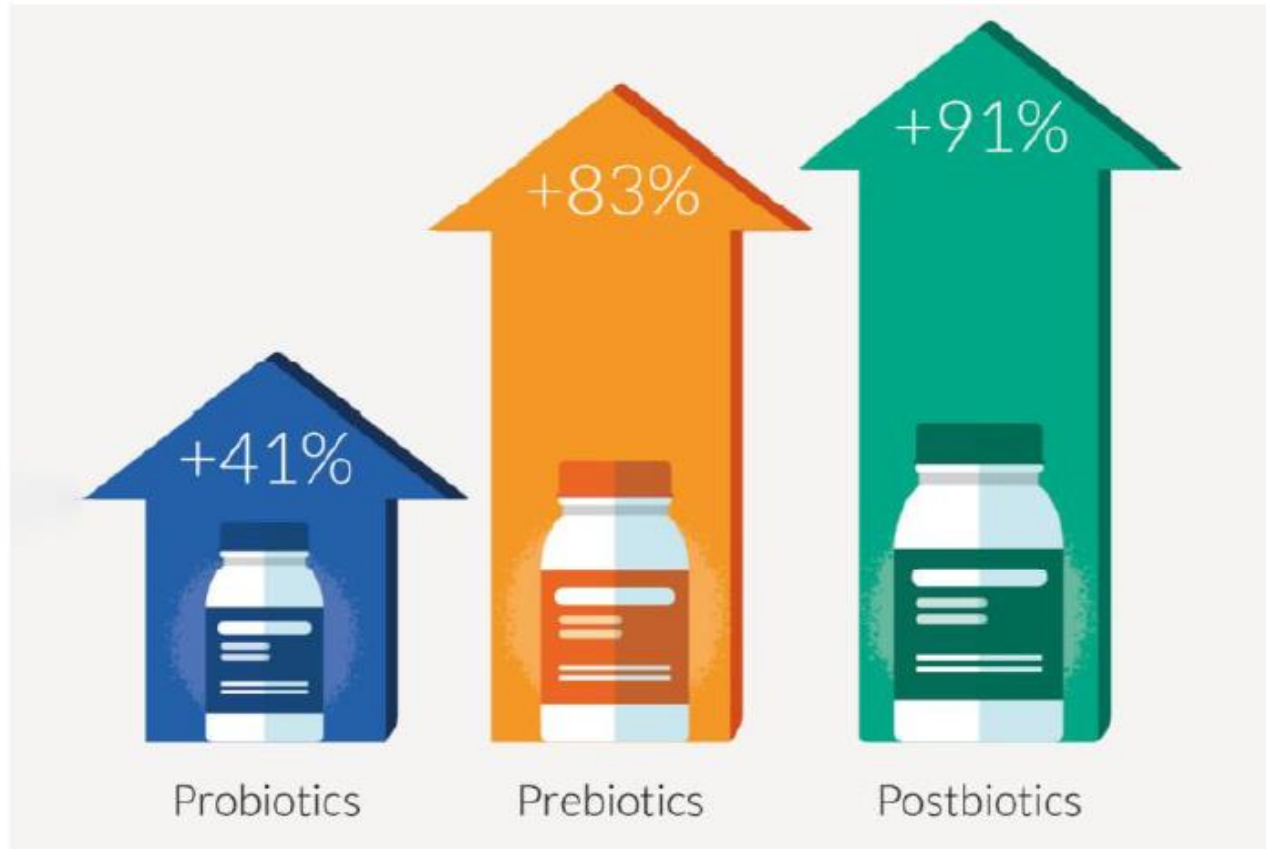
dietary supplements

Vegan | Halal | Kosher | Organic Compliant | Gluten Free | EU Permitted

*For HT BPL1 there is no authorized EFSA Claim available at the moment. For more detailed insights please contact Team Biopolis



Social Media Study on „Biotics“ in 2019 On Instagram, Pinterest, Twitter



Consumer interest in 'biotic' terms is growing

Source: MINTEL, Aug 2019 Report

Base: mentions of probiotics, prebiotic and postbiotics on Instagram, Pinterest and Twitter, July 2018-19

Original Source: Wageningen Academic; Science Direct; Infegy/Mintel (Digestive Health, Social media, US, August 2019)



Yogurt: Shots for the Metabolic Wellness* & Immune System

Healthy Nutrition & Convenience

Healthy nutrition served by convenient foods & beverages with scientific evidence is increasingly catching consumer interest.

The hero ingredients among consumers are **Vitamin C & Vitamin B12 – contributing to the normal function of the immune system..** Especially Vitamin B12 will become even more relevant with the rise of plant-based foods that naturally lack of B12.

Beyond Vitamins consumers care for their Gut Health and Metabolic Health with a preventative and holistic approach towards health & wellness. In line with that there is a rising consumer interest in **Pro- & Postbiotics being** discussed on social media & newspapers.

ADM HT BPL1 is the right answer to that consumer need, being internationally recognized for its benefits:



Case Study

ADM Wellbeing Pack

ADM Preparation

enriched with **Vitamin Complex with Vitamin C & Vitamin B12** to support the normal function of the Immune System

ADM HT BPL1

Clinical studies show **significant benefits of HT BPL1** targeting Metabolic Health & Visceral fat reduction*

HT BPL1 can be easily applied within the preparation or directly into the white base



*For BPL1 there is no authorized EFSA Claim available at the moment.
For more detailed insights please contact Team Biopolis

Yogurt Shots for the Metabolic Wellness* & Immune System



36001180420000 Mango-Ginger

Dosage: 10%
Fruitcontent: 1% final product



36001180440000 Cherry-Acai

Dosage: 10%
Fruitcontent: 1% final product

- 15% nutritional reference value / 100g
- BPL1 concentration equivalent to 10^{10} CFU in life organisms / 200 g final product

EFSA: Vitamin Complex (Vitamin C, B12) contributes to the normal function of the immune system

*For BPL1 there is no authorized EFSA Claim available at the moment.
For more detailed insights please contact Team Biopolis

Yogurt for the Metabolic Wellness* & Immune System



36001180430000 Mango-Ginger

Dosage: 12%
Fruitcontent: 5% final product



36001180450000 Cherry-Acai

Dosage: 12%
Fruitcontent: 5% final product

- 15% nutritional reference value / 100g
- BPL1 concentration equivalent to 10^{10} CFU in life organisms / 200 g final product

EFSA: Vitamin Complex (Vitamin C, B12) contributes to the normal function of the immune system

*For BPL1 there is no authorized EFSA Claim available at the moment.
For more detailed insights please contact Team Biopolis

*Thank you
& stay healthy!*

