

Bimuno Prebiotic

Powered by
Bimuno

What is Bimuno?

Bimuno® is a unique targeted prebiotic which contains a composition of galactooligosaccharides (GOS). Bimuno feeds and stimulates the growth of beneficial bacteria in the gut. As non-digestible fibre, it passes through the upper gastrointestinal tract until it reaches the large intestine, where it is utilised by beneficial bacteria. Bimuno can be used in a wide range of applications and is suitable from infants to elderly.

What makes Bimuno unique?

The science behind Bimuno is one of the most comprehensive of any commercially available prebiotic. Bimuno's safety and efficacy is supported by over 110 scientific publications and more than 20 clinical studies. Its chemical structure ensures its specificity for bifidobacteria - a type of naturally occurring, beneficial intestinal bacteria. Other prebiotics lack this selectivity and can therefore be metabolised by many types of microbes, beneficial or otherwise.



How does Bimuno work?

Bimuno acts through several modes of action. The main one is the stimulation of growth of bifidobacteria in the large intestine^{1-14, 22, 23}. A higher presence of bifidobacteria in the gut microbiome has been associated to a wide range of health benefits¹⁻¹⁵. The positive impact of Bimuno on human health has been associated with substances produced by beneficial bacteria such as short chain fatty acids (SCFAs), neuromodulators, its direct and indirect effects on the immune system as well as its anti-pathogenic activity.

How is Bimuno produced?

Bimuno selectively targets bifidobacteria because it is actually produced by an enzyme from the probiotic species *Bifidobacterium bifidum*. When bifidobacteria are fed certain sugars, they can produce prebiotic GOS, containing structures similar to those found in milk. Bimuno's production process replicates bifidobacteria's natural mechanism of producing GOS.

What are the benefits of Bimuno?

There are four key areas in which Bimuno consistently shows beneficial effects on human health.



Gastrointestinal health: Bimuno promotes gastrointestinal wellbeing by reducing abdominal pain, bloating, flatulence and improving bowel regularity^{4, 13, 14, 17-19}.



Immune defence: Human trials have proven Bimuno's capacity to strengthen the body's defences^{3, 6, 8} and prevent diarrhoea caused by pathogens^{17, 18}.



Cognitive health: Bimuno reduces stress hormone levels, anxiety and improves brain health and function^{4, 5, 10, 13, 15, 16, 20-22}.



Immune health: Bimuno modulates the immune system, increasing anti-inflammatory and decreasing pro-inflammatory biomarkers^{3, 8, 10, 20}.

Fast action

Rapid onset of action.
Results observed in 7 days

GRAS

Generally recognized as safe
by FDA for food, beverage
and infant formula

Protected

Bimuno[®] is a registered trademark
and is patent-protected

Targeted

Highly selective and potent
bifidogenic effect

Non-GMO



Effective dose

Lowest clinically effective
dose of GOS

Versatile

Suitable for many processing
applications. Stable at low pH
and high temperatures

Safe & Efficacious

Safety and efficacy backed by
110+ scientific publications
and 20+ clinical trials

Vegetarian

Suitable for vegetarians

Gluten free

References

[1] Tzortzis et al., 2005; [2] Depeint et al., 2008; [3] Vulevic et al., 2008; [4] Silk et al., 2009 [5] Savignac et al., 2013; [6] Vulevic et al., 2013; [7] Costabile et al., 2015; [8] Vulevic et al., 2015; [9] Grimaldi et al., 2016; [10] Savignac et al., 2016; [11] Liu et al., 2016; [12] Grimaldi et al., 2017; [13] Grimaldi et al., 2018; [14] Huaman et al., 2018; [15] Kao et al., 2018; [16] Drakoularakou et al., 2010; [17] Hasle et al., 2017; [18] Vulevic et al., 2018; [19] Schmidt et al., 2015; [20] Williams et al., 2016; [21] Gronier et al., 2018; [22] Kao et al., 2019; [23] Wilson et al., 2021

Full list of Bimuno references available upon request.

Clasado Ltd
Imperium Building
Imperial Way
Worton Grange, Reading
RG2 0TD, UK

Contact us:
T +44 (0)118 338 5085
E info@clasado.com
clasado.com

Clasado
biosciences