beginbaby®
prebiotics + probiotics

Daily Synbiotic Blend with HMOs

for Infants Ages 0 - 12 months

Our Science-First Approach

Beginbaby® Prebiotics + Probiotics combines 2'-Fucosyllactose (2'-FL HMO) with two clinically studied infant probiotics: Bifidobacterium longum subsp. infantis (ISTILOS®) and Bifidobacterium animalis subsp. lactis (BB-12®) to help seed a healthy microbiome, support digestive comfort, and promote immune development in early infancy.[1-8]

Why Gut Health Matters in Early Infancy

- A 2025 U.S. infant microbiome study found nearly 25% of babies had no detectable Bifidobacterium and 76% showed gut dysbiosis, with only 8% carrying B. infantis, the key strain that digests HMOs.[9]
- HMOs are the primary fuel for these beneficial bacteria, helping establish a balanced microbiome in early life.
- Combining 2'-FL HMO with probiotics like B. infantis and B. lactis supports balanced gut flora, digestive comfort, and immune development.[1-3]

Clinically supported nutrition support.

Beginbaby® Prebiotics + Probiotics can be used daily alongside standard pediatric care as a nutrition-based complement for supporting digestive comfort and microbiome balance in infancy.

What Beginbaby® Prebiotics + Probiotics Is Not a Substitute For:

- Not a medication or prescriptive medicine.
- Not for preterm infants.
- Not intended to diagnose, treat, cure, or prevent disease.

1.1 Bill CFU

made with HMOs

manufactured in ITALY

0g added sugar

begin HEALTH

Our Ingredient Philosophy

We believe good health starts in purposeful ingredients.

Every ingredient in Beginbaby® was selected based on current published research, safety In infants, and its individual role in supporting both digestive and immune health.

- **Clinically studied ingredients:** Demonstrated safety and benefits in infants.
- **GRAS ingredients:** All components meet safety and regulatory standards.
- **Allergen control:** Made in a facility with strict allergen management, tested to California Prop 65 limits.
- **No artificial sweeteners, flavors, or fillers:** Formulated to mix easily into breast milk or formula, without added sugar.

Product Design Objectives

- Gentle, evidence-based digestive and immune support for infants 0—12 months.
- Combines 2'-FL HMO with clinically studied Bifidobacterium strains for complementary microbiome benefits.
- Excellent tolerability and safety consistent with standard pediatric feeding practices.



Ingredient Spotlight:

2'-FL HMO (Human Milk Oligosaccharides)

The most abundant Human Milk Oligosaccharide and a selective food source for Bifidobacterium.[1,2]

What it does

- Supports a gut microbiome profile closer to that of breastfed infants.[3,4]
- Helps maintain intestinal barrier integrity and gut-immune signaling.[5,6]
- Supports the growth of beneficial Bifidobacterium in the infant gut.[1-3,5]

Safety & Tolerability

- GRAS ingredient approved for infant use.
- HMOs are studied to be safe and well tolerated at clinically safe and well tolerated at studied levels (≤ 2.4 g/L).[4-7]
- Beginbaby™ Prebiotics + Probiotics provides 1.19 g 2'-FL HMOs per serving, within demonstrated safe range.

What's In Each Serving

- **2'-FL HMOs =** 1.19 g
- **B. infantis (ISTILOS®) + B. lactis (BB-12®)=** 1.1 billion CFU

B. infantis (ISTILOS®)

What it is

A naturally occurring infant Bifidobacterium strain specialized in utilizing diverse HMOs.[8]

What it does

- Supports early colonization of beneficial bacteria and helps establish a healthy gut environment.[8]
- Produces key metabolites (acetate and lactate) that help nourish colon cells and support immune development.[8]
- Promotes balanced microbiome development and supports healthy digestive and immune function in early infancy.[8]

B. lactis (BB-12®)

What it is

A clinically studied probiotic strain widely used in infant nutrition.[4-7]

What it does

- Supports digestive comfort and normal stooling patterns in infants.[4,5,7]
- Helps maintain immune balance and supports gut function.[5-7]
- Promotes a balanced gut microbiome and produces beneficial short-chain fatty acids that help nourish the gut lining.[5-7]



References

1. Bode L. The functional biology of human milk oligosaccharides. Early Hum Dev. 2015;91(11):619–622. doi:10.1016/j.earlhumdev.2015.09.001
2. Andreas NJ, Kampmann B, Mehring Le-Doare K. Human milk oligosaccharides in the prevention of Group B Streptococcus colonisation. Clin Transl Immunol. 2016;5:e99. doi:10.1038/cti.2016.74
3. Puccio G, Alliet P, Cajozzo C, et al. Effects of infant formula with human milk oligosaccharides on growth and morbidity: a randomized multicenter trial. J Pediatr Gastroenterol Nutr. 2017;64(4):624–631. doi:10.1097/MPG.0000000000001520
4. Marriage BJ, Buck RH, Goehring KC, Oliver JS, Williams JA. Infants fed formula supplemented with 2'-fucosyllactose show growth and tolerance similar to breastfed infants. J Pediatr Gastroenterol Nutr. 2015;61(6):649–658. doi:10.1097/MPG.0000000000000889
5. Dinleyici M, Barbieur J, Dinleyici EC, Vandenplas Y. Functional effects of human milk oligosaccharides (HMOs). Gut Microbes. 2023;15(1):2186115. doi:10.1080/19490976.2023.2186115
6. BASF SE. 2'-Fucosyllactose GRAS Dossier 852-2. 2019.
7. DuPont Nutrition & Health. FDA GRAS Notice No. 749 (2'-Fucosyllactose). 2018.
8. Smilowitz JT, Moya J, Breck MA, Cook C, Fineberg A, Underwood MA. Feeding Bifidobacterium longum subsp. infantis to term infants affects gut ecology and immunity. BMC Pediatr. 2017;17:133. doi:10.1186/s12887-017-0892-0
9. Jarman JB, Torres PJ, Stromberg S, et al. Bifidobacterium deficit in United States infants drives prevalent gut dysbiosis. Commun Biol. 2025;8:601. doi:10.1038/s42003-025-07532-3

†These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure, or prevent any disease.

FOR PROFESSIONAL USE ONLY.