

DIGESTION PROBIOTICS

STANDARD RANGE



COMPOSITION

- *Lactobacillus acidophilus*
- *Lactobacillus gasseri*
- *Lactobacillus rhamnosus*
- *Lactobacillus plantarum*

USE

DDM: 12 months
Dosage: 1 stick per day

DESCRIPTION: Stick to be diluted in water

Packaging	<ul style="list-style-type: none"> • Cases / Bulk
MOQ	<ul style="list-style-type: none"> • Cases : from 1000 cases • Vrac : from 10 000 sticks
Average lead times	<ul style="list-style-type: none"> • Etuis : 10 to 12 weeks • Vrac : 8 to 10 weeks

CLINICAL TRIALS



Lactobacillus acidophilus

- Martoni CJ et al (2020) showed significant improvement in abdominal pain, symptom severity scores and bowel habits in humans with Rome IV criteria for irritable bowel syndrome¹
- Pakdaman et al. (2016) showed a significant reduction in abdominal symptoms in subjects with lactose intolerance²

Lactobacillus plantarum

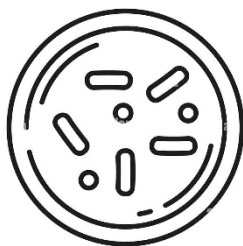
- Behera SS et al. (2018) showed antioxidant properties superior to those of L rhamnosus GG, and may therefore play a role in protecting against free radicals and contribute to the preservation of various disorders such as gastrointestinal tract ulcers.³
- Seddik HA et al (2017) showed a reduction in symptoms in patients with irritable bowel syndrome. Irritable bowel syndrome (IBS) is a common chronic disorder of the large intestine affecting 11% of the population. IBS causes cramping, abdominal pain, bloating, gas, diarrhea and/or constipation, and is associated with altered intestinal microbiota Clinical studies have shown that certain strains of L plantarum are able to reduce symptoms in patients with irritable bowel syndrome.⁴

¹ Martoni CJ, Srivastava S, Leyer GJ *Lactobacillus acidophilus* DDS 1 and *Bifidobacterium lactis* UABla 12 Improve Abdominal Pain Severity and Symptomology in Irritable Bowel Syndrome Randomized Controlled Trial *Nutrients* 2020;12(2):363

² Pakdaman MN, Udani JK, Molina JP, Shahani M *The effects of the DDS 1 strain of lactobacillus on symptomatic relief for lactose intolerance a randomized, double blind, placebo controlled, crossover clinical trial* *Nutr J* 2016;15(1):56

³ Behera SS, Ray RC, Zdolec N *Lactobacillus plantarum* with Functional Properties An Approach to Increase Safety and Shelf Life of Fermented Foods *Biomed Res Int* 2018 2018 9361614

⁴ Seddik HA, Bendali F, Gancel F, Fliss I, Spano G, Drider D *Lactobacillus plantarum* and Its Probiotic and Food Potentialities *Probiotics Antimicrob Proteins* 2017 9 2 111 122



Lactobacillus rhamnosus

- Recommended by EPSGHAN and other scientific societies for the prevention of antibiotic-associated diarrhea, the prevention of acute pediatric diarrhea and the treatment of pediatric gastroenteritis due to numerous meta-analyses showing its efficacy.⁵⁻¹¹
- Significant reduction in abdominal pain in children¹²⁻¹⁴

⁵ Cai J, Zhao C, Du Y, Zhang Y, Zhao M, Zhao Q. Comparative efficacy and tolerability of probiotics for antibiotic-associated diarrhea: Systematic review with network meta-analysis. *United European Gastroenterol J.* 2018;6(2):169-180.

⁶ Szajewska H, Canani RB, Guarino A, et al. Probiotics for the Prevention of Antibiotic-Associated Diarrhea in Children. *J Pediatr Gastroenterol Nutr.* 2016;62(3):495-506.

⁷ Agamennone V, Krul CAM, Rijkers G, Kort R. A practical guide for probiotics applied to the case of antibiotic-associated diarrhea in The Netherlands. *BMC Gastroenterol.* 2018;18(1):103.

⁸ Li YT, Xu H, Ye JZ, et al. Efficacy of *Lactobacillus rhamnosus* GG in treatment of acute pediatric diarrhea: A systematic review with meta-analysis. *World J Gastroenterol.* 2019;25(33):4999-5016.

⁹ Cruchet S, Furnes R, Maruy A, et al. The use of probiotics in pediatric gastroenterology: a review of the literature and recommendations by Latin-American experts. *Paediatr Drugs.* 2015;17(3):199-216.

¹⁰ Szajewska H, Kołodziej M, Gieruszczak-Białek D, Skórka A, Ruszczyński M, Shamir R. Systematic review with meta-analysis: *Lactobacillus rhamnosus* GG for treating acute gastroenteritis in children - a 2019 update. *Aliment Pharmacol Ther.* 2019;49(11):1376-1384.

¹¹ Cameron D, Hock QS, Kadim M, et al. Probiotics for gastrointestinal disorders: Proposed recommendations for children of the Asia-Pacific region. *World J Gastroenterol.* 2017;23(45):7952-7964.

¹² Horvath A, Dziechciarz P, Szajewska H. Meta-analysis: *Lactobacillus rhamnosus* GG for abdominal pain-related functional gastrointestinal disorders in childhood. *Aliment Pharmacol Ther.* 2011;33(12):1302-1310;

¹³ Wegh CAM, Benninga MA, Tabbers MM. Effectiveness of Probiotics in Children With Functional Abdominal Pain Disorders and Functional Constipation: A Systematic Review. *J Clin Gastroenterol.* 2018;52 Suppl 1, Proceedings from the 9th Probiotics, Prebiotics and New Foods, Nutraceuticals and Botanicals for Nutrition & Human and Microbiota Health Meeting, held in Rome, Italy from September 10 to 12, 2017:S10-S26.

¹⁴ Rutten JM, Korterink JJ, Venmans LM, Benninga MA, Tabbers MM. Nonpharmacologic treatment of functional abdominal pain disorders: a systematic review. *Pediatrics.* 2015;135(3):522-535.

AUTHORIZED CLAIMS

Probiotics

- Contributes to balanced intestinal flora

LIST OF INGREDIENTS

DIGESTION

4 Probiotics strain mix:

- *Lactobacillus acidophilus* BIO6307
- *Lactobacillus gasseri* BIO6369
- *Lactobacillus rhamnosus* BIO6870
- *Lactobacillus plantarum* BIO1096



- Anti-caking agent: organic acacia gum