

OUR PROBIOTIC STRAINS



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R&D center of Probiotical:

- ***the most advanced*** research center for probiotics throughout the world
- ***1.200 square metres in clean room*** devoted only to probiotics
- ***over 80 patent families*** on probiotics


Strains available as Raw Material **(RM)** can be provided in bulk form or as custom tailored finished products.

Strains available as Finished Product **(FP)** can be provided only as Probiotical finished products.


Bifidobacterium Strains

STRAIN ID and INTERNATIONAL COLLECTION DEPOSIT NUMBER	AVAILABLE as: RAW MATERIAL (RM) FINISHED PRODUCT (FP)	FUNCTIONALITY	SCIENTIFIC SUPPORT	DAILY DOSAGE IN CLINICAL STUDY
<p><i>Bifidobacterium adolescentis</i> BA02 (DSM 17103)</p>	<p>RM (on demand)</p>	<p>Rebalance of intestinal microbiota</p> <p>Intestinal transit</p> <p>Ferments prebiotic inulin</p>	<p>Human clinical trial Del Piano M. et al. The use of probiotics in the treatment of constipation in the elderly. CIBUS, 2005; 1(1):23-30.</p> <p>In vitro study Rossi M. et al. Fermentation of fructooligosaccharides and inulin by Bifidobacteria: a comparative study of pure and fecal cultures. Applied and Environmental Microbiology, 2005; 71(10): 6150-6158.</p>	<p>10 billion CFU</p>
<p><i>Bifidobacterium animalis</i> subsp. <i>lactis</i> BA05 (DSM 18352)</p>	<p>FP</p>	<p>Production of folic acid</p> <p>Rebalance of intestinal microbiota</p>	<p>Human pilot clinical trial Strozzi GP. and Mogna L. Quantification of folic acid in human faeces after administration of <i>Bifidobacterium</i> probiotic strains. Journal of Clinical Gastroenterology, 2008; 42:S179-S184.</p> <p>Animal model study Pompei A. et al. Administration of Folate-Producing Bifidobacteria Enhances Folate Status in Wistar Rats. Journal of Nutrition, 2007; 137:2742-2746.</p> <p>In vitro study Pompei A. et al. Folate production by Bifidobacteria as a potential probiotic property. Applied and Environmental Microbiology, 2007; 73(1):179-185</p>	<p>5 billion CFU</p>
<p><i>Bifidobacterium catenulatum/ pseudocatenulatum</i> BA03 (DSM 18350)</p>	<p>FP</p>	<p>Production of folic acid</p> <p>Rebalance of intestinal microbiota</p>	<p>Human pilot clinical trial Strozzi GP. and Mogna L. Quantification of folic acid in human faeces after administration of <i>Bifidobacterium</i> probiotic strains. Journal of Clinical Gastroenterology, 2008; 42:S179-S184.</p> <p>Animal model study Pompei A. et al. Administration of Folate-Producing Bifidobacteria Enhances Folate Status in Wistar Rats. Journal of Nutrition, 2007; 137:2742-2746.</p> <p>In vitro study Pompei A. et al. Folate production by Bifidobacteria as a potential probiotic property. Applied and Environmental Microbiology, 2007; 73(1):179-185</p>	<p>5 billion CFU</p>

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<p><i>Bifidobacterium breve</i> BR03 (DSM 16604)</p> 	<p>RM</p>	<p>Rebalance of intestinal microbiota</p> <p>Intestinal transit</p> <p>Reduction of gastro-intestinal discomfort</p> <p>Inhibition of <i>E. coli</i>, including toxinogenic O157:H7</p> <p>Immunomodulatory activity in asthmatic subjects</p>	<p>Human clinical trials</p> <p>1) Del Piano M. et al. The use of probiotics in the treatment of constipation in the elderly CIBUS, 2005; 1(1):23-30.</p> <p>2) Del Piano M. et al. Evaluation of the intestinal colonization by microencapsulated probiotic bacteria in comparison with the same uncoated strains. J Clin Gastroenterol. 2010; 44 Suppl 1:S42-6.</p> <p>3) Del Piano M. et al. Is microencapsulation the future of probiotic preparations? The increased efficacy of gastro-protected probiotics. Gut Microbes. 2011; 2(2):120-3</p> <p>In vitro studies</p> <p>a) Nicola S. et al. Interaction between probiotics and human immune cells: the prospective anti-inflammatory activity of <i>Bifidobacterium breve</i> BR03. AgroFOOD, 2010; 21(2):S44-47.</p> <p>b) Mogna L. et al. Assessment of the in vitro inhibitory activity of specific probiotic bacteria against different <i>Escherichia coli</i> strains. J Clin Gastroenterol. 2012; 46 Suppl:S29-32.</p> <p>c) Drago L. et al. Immunomodulatory effects of <i>Lactobacillus salivarius</i> LS01 and <i>Bifidobacterium breve</i> BR03, alone and in combination, on peripheral blood mononuclear cells of allergic asthmatics. Allergy Asthma Immunol Res. 2015 July; 7(4):409-413</p>	<p>1) 10 billion CFU (uncoated)</p> <p>2,3) 5 billion CFU (uncoated) 1 billion cells (microencapsulated)</p>
<p><i>Bifidobacterium catenulatum/ pseudocatenulatum</i> BC01 (DSM 18353)</p>	<p>RM (on demand)</p>	<p>Production of folic acid</p> <p>Rebalance of intestinal microbiota</p>	<p>Human pilot clinical trial</p> <p>Strozzi GP. and Mogna L. Quantification of folic acid in human faeces after administration of <i>Bifidobacterium</i> probiotic strains. Journal of Clinical Gastroenterology, 2008; 42:S179-S184.</p> <p>Animal model study</p> <p>Pompei A. et al. Administration of Folate-Producing Bifidobacteria Enhances Folate Status in Wistar Rats. Journal of Nutrition, 2007; 137:2742-2746.</p> <p>In vitro study</p> <p>Pompei A. et al. Folate production by Bifidobacteria as a potential probiotic property. Applied and Environmental Microbiology, 2007; 73(1):179-185</p>	<p>5 billion CFU</p>


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<p><i>Bifidobacterium animalis</i> subsp. <i>lactis</i> BS01 (LMG P-21384)</p>	<p>RM</p>	<p>Rebalance of intestinal microbiota</p> <p>Intestinal transit</p> <p>Reduction of gastrointestinal discomfort</p>	<p>Human clinical trials</p> <p>1) Del Piano M. et al. The use of probiotics in the treatment of constipation in the elderly. CIBUS, 2005; 1(1):23-30.</p> <p>2) Del Piano M. et al. The use of probiotics in healthy volunteers with evacuation disorders and hard stools. A double blind, randomized, placebo-controlled study. Journal of Clinical Gastroenterology, 2010; 44(8):S30-34.</p> <p>3) Del Piano M. et al. Comparison of the kinetics of intestinal colonization by associating 5 probiotic bacteria assumed either in a microencapsulated or in a traditional, uncoated form. J Clin Gastroenterol. 2012; 46 Suppl:S85-92.</p>	<p>1) 10 billion CFU</p> <p>2) 5 billion CFU</p> <p>3) 5 billion CFU (uncoated)</p> <p>1 billion cells (microencapsulated)</p>
<p> <i>Bifidobacterium breve</i> B632 (DSM 24706)</p>	<p>FP</p>	<p>Inhibition of <i>Klebsiella pneumoniae</i> and of other coliforms isolated from colicky infants</p> <p>Rebalance of intestinal microbiota</p> <p>Reduction of gastrointestinal discomfort</p> <p>Inhibition of <i>E. coli</i></p>	<p>In vitro studies</p> <p>1) Aloisio I. et al. Characterization of <i>Bifidobacterium</i> spp. strains for the treatment of enteric disorders in newborns. Appl Microbiol Biotechnol. 2012; 96(6):1561-76.</p> <p>2) Mogna L. et al. Assessment of the in vitro inhibitory activity of specific probiotic bacteria against different <i>Escherichia coli</i> strains. J Clin Gastroenterol. 2012; 46 Suppl:S29-32.</p> <p>3) Simone M. et al. The probiotic <i>Bifidobacterium breve</i> B632 Inhibited the Growth of <i>Enterobacteriaceae</i> within Colicky Infant Microbiota Cultures. Biomed Res Int. 2014; 2014:301053.</p>	
<p><i>Bifidobacterium bifidum</i> BB01 (DSM 19818)</p>	<p>RM</p>	<p>Rebalance of intestinal microbiota</p>		


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<i>Bifidobacterium bifidum</i> MB109 (DSM 23731)	FP	Cardiovascular health	<p>Human clinical trial Guardamagna O. et al. Bifidobacteria supplementation: effects on plasma lipid profile in dyslipidemic children. Nutrition (2014), doi: 10.1016/j.nut.2014.01.014.</p>	1 billion CFU
<i>Bifidobacterium breve</i> MB113 (DSM 23732)	FP	Cholesterol lowering	<p>In vitro and animal model studies Bordoni A. et al. Cholesterol-lowering probiotics: in vitro selection and in vivo testing of bifidobacteria. Appl Microbiol Biotechnol 2013; 97:8273-81.</p>	1 billion CFU
<i>Bifidobacterium lactis</i> MB2409 (DSM 23733)	FP			
<i>Bifidobacterium bifidum</i> BB06 (DSM 24688)	FP	Cardiovascular health	<p>In vitro and animal model studies Bordoni A. et al. Cholesterol-lowering probiotics: in vitro selection and in vivo testing of bifidobacteria. Appl Microbiol Biotechnol 2013; 97:8273-81. (BB06 and BS07 mentioned respectively as MB107 as MB243)</p>	
<i>Bifidobacterium lactis</i> BS07 (DSM 24690)	FP	Cholesterol lowering		
<i>Bifidobacterium infantis</i> BI02 (DSM 24687)	RM	Cardiovascular health	In vitro study	
		Cholesterol lowering		

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<i>Bifidobacterium longum</i> BL03 (DSM 16603)	RM	Rebalance of intestinal microbiota Intestinal transit	Human clinical trial Del Piano M. et al. The use of probiotics in the treatment of constipation in the elderly. CIBUS, 2005; 1(1):23-30.	10 billion CFU
<i>Bifidobacterium longum</i> BL04 (DSM 23233)	FP	Restoration of a better dietary ω -6/ ω -3 balance Conjugated linoleic acids (CLA) production Prospective use in the treatment of obesity	Human clinical trial Guardamagna O. et al. Bifidobacteria supplementation: effects on plasma lipid profile in dyslipidemic children. Nutrition (2014), doi: 10.1016/j.nut.2014.01.014.	1 billion CFU
<i>Bifidobacterium breve</i> BR03 (DSM 16604)	RM	Restoration of a better dietary ω -6/ ω -3 balance	In vitro study Patent Application WO/2011/073769. Conjugated linoleic acid-producing strains of probiotic bacteria and use thereof for the preparation of a food, dietetic or pharmaceutical composition.	
<i>Bifidobacterium breve</i> BR04 (DSM 16596)	FP	Conjugated linoleic acids (CLA) production		
<i>Bifidobacterium longum</i> BL05 (DSM 23234)	FP	Prospective use in the treatment of obesity		
<i>Bifidobacterium lactis</i> BS05 (DSM 23032) 	FP	Antioxidant activity Reduced glutathione (GSH) and superoxide dismutase (SOD) production	In vitro and animal model studies Amaretti A. et al. Antioxidant properties of potentially probiotic bacteria: in vitro and in vivo activities. Appl Microbiol Biotechnol. 2013; 97(2):809-17. Human clinical trial under publication	


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<p><i>Bifidobacterium animalis</i> subsp. <i>lactis</i> Bb1 (DSM 17850)</p> <p>(under worldwide exclusive license from BIOMAN for nutraceutical and pharma applications)</p>	<p>RM</p>	<p>Organic zinc from probiotic strain allergen free with High Bioavailability:</p> <ul style="list-style-type: none"> - Normal function of the immune system - Normal DNA synthesis and cell division - Protection of DNA, proteins and lipids from oxidative damage - Maintenance of normal bone - Normal cognitive function 	<p>In vitro study</p> <p>Mogna L. et al. Selenium and zinc internalized by <i>Lactobacillus buchneri</i> Lb26 (DSM 16341) and <i>Bifidobacterium lactis</i> Bb1 (DSM 17850): improved bioavailability using a new biological approach. J Clin Gastroenterol. 2012; 46 Suppl:S41-5.</p>	
<p><i>Bifidobacterium longum</i> W11</p> 	<p>RM</p>	<p>Reduction of gastro-intestinal discomfort related to IBS</p> <p>Rebalance of intestinal microbiota</p> <p>Non-transmissible ryfamycins resistance</p>	<p>Human clinical trials</p> <ol style="list-style-type: none"> 1) Amenta M. et al. Diet and chronic constipation. Benefits of oral supplementation with symbiotic zir fos (<i>Bifidobacterium longum</i> W11 + FOS Actilight). Acta Biomed 2006; 77(3):157-62 2) Colecchia A. et al. Symbiotic Study Group. Effect of a symbiotic preparation on the clinical manifestations of irritable bowel syndrome, constipation-variant. Results of an open, uncontrolled multicenter study. Minerva Gastroenterol Dietol 2006; 52(4):349-58 3) Fanigliulo L. et al. Role of gut microflora and probiotic effects in the irritable bowel syndrome. Acta Biomed 2006; 77(2):85-9 4) Sarnelli G. et al. Effects of oral supplementation with the symbiotic (<i>Bifidobacterium longum</i> W11 + FOS Actilight) on IBS with constipation: a randomized, dose finding trial, versus fibers. Digestive and Liver Disease 2008; 40(1):S141. 5) Malaguarnera M. et al. <i>Bifidobacterium longum</i> with fructo-oligosaccharides (FOS) treatment in minimal hepatic encephalopathy: a randomized, double-blind, placebo-controlled study. Dig Dis Sci 2007; 52:3259-3265 6) Dughera L. et al. Effects of symbiotic preparation on constipated irritable bowel syndrome symptoms. Acta Biomed 2007; 78:111-116 <p>In vitro study</p> <p>Graziano T. et al. The possible innovative use of <i>Bifidobacterium longum</i> W11 in association with rifaximin: a new horizon for combined approach? Publication in progress in a Supplement to the Journal of Clinical Gastroenterology.</p>	<p>1,2,3,4,5,6) 5 billion CFU + FOS</p>

Lactobacillus Strains

STRAIN ID and INTERNATIONAL COLLECTION DEPOSIT NUMBER	AVAILABLE as: RAW MATERIAL (RM) FINISHED PRODUCT (FP)	FUNCTIONALITY	SCIENTIFIC SUPPORT	DAILY DOSAGE IN CLINICAL STUDY
<p><i>Lactobacillus acidophilus</i> LA02 (DSM 21717)</p>	<p>RM</p>	<p>Rebalance of intestinal microbiota</p> <p>Reduction of gastrointestinal discomfort</p>	<p>Human clinical trial Del Piano M. et al. Comparison of the kinetics of intestinal colonization by associating 5 probiotic bacteria assumed either in a microencapsulated or in a traditional, uncoated form. J Clin Gastroenterol. 2012; 46 Suppl:S85-92.</p>	<p>5 billion CFU (uncoated)</p> <p>1 billion cells (microencapsulated)</p>
<p><i>Lactobacillus buchneri</i> Lb26 (DSM 16341)</p> <p>(under worldwide exclusive license from BIOMAN for nutraceutical and pharma applications)</p>	<p>RM</p>	<p>Carrier of selenium with high bioavailability</p> <p>Organic selenium from probiotic strain allergen free with</p> <p>High Bioavailability:</p> <ul style="list-style-type: none"> - Protection of DNA, proteins and lipids from oxidative damage - Normal function of the immune system - Normal thyroid function - Normal spermatogenesis - Maintenance of normal hair and nails 	<p>In vitro study Mogna L. et al. Selenium and zinc internalized by <i>Lactobacillus buchneri</i> Lb26 (DSM 16341) and <i>Bifidobacterium lactis</i> Bb1 (DSM 17850): improved bioavailability using a new biological approach. J Clin Gastroenterol. 2012; 46 Suppl:S41-5.</p>	

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<p><i>Lactobacillus fermentum</i> ME-3 (under license from the University of Tartu for food applications)</p>	RM	<p>Immune health</p> <p>Cardiovascular health</p> <p>Antioxidant</p>	<p>Many human clinical trials are available</p>	
<p><i>Lactobacillus kefiri</i> LKF01 (DSM 32079)</p> 	RM	<p>Rebalance of intestinal microbiota</p> <p>High adhesive capacity</p>	<p>In vitro data</p>	
<p><i>Lactobacillus salivarius</i> subsp. <i>salivarius</i> CRL 1328 (under worldwide exclusive license from the Centro de REferencia para LActobacilos, Argentina)</p>	RM	<p>Vaginal health</p> <p>Prevention of urogenital infections</p> <p>Aggregation with Candida</p>	<p>In vitro studies</p> <p>1) Ocana V. and Nader-Macias ME. Adhesion of <i>Lactobacillus</i> vaginal strains with probiotic properties to vaginal epithelial cells. <i>Biocell</i>, 2001; 25(3):265-273;</p> <p>2) Zàrate G. and Nader-Macias ME. Influence of probiotic vaginal lactobacilli on in vitro adhesion of urogenital pathogens to vaginal epithelial cells. <i>Letters in Applied Microbiology</i> ISSN 0266-8254;</p> <p>3) Ocana V. and Nader-Macias ME. Vaginal lactobacilli: self- and co-aggregating ability. <i>British Journal of Biomedical Science</i>, 2002; 59(4);</p> <p>4) Ocana V. et al. Characterization of a bacteriocin-like substance produced by a vaginal <i>Lactobacillus salivarius</i> strain. <i>Applied and Environmental Microbiology</i>, 1999; 65(12):5631-5635;</p> <p>5) Ocana V. et al. Surface characteristics of lactobacilli isolated from human vagina. <i>J. Gen. Appl. Microbiol.</i>, 1999; 45:203-212;</p> <p>6) Tomas MSJ. et al. Influence of pH, temperature and culture media on the growth and bacteriocin production by vaginal <i>Lactobacillus salivarius</i> CRL 1328. <i>Journal of Applied Microbiology</i>, 2002; 93: 714-724;</p> <p>7) Tomas MSJ. et al. Characterization of potentially probiotic vaginal lactobacilli isolated from Argentinean women. <i>British Journal of Biomedical Science</i>, 2005; 62(4).</p>	



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<p><i>Lactobacillus crispatus</i> CRL 1266 (under worldwide exclusive license from the CERELA)</p>	<p>FP</p>	<p>Vaginal health</p> <p>Production of hydrogen peroxide</p>	<p>In vitro studies</p> <p>1) Ocana V. and Nader-Macias ME. Adhesion of <i>Lactobacillus</i> vaginal strains with probiotic properties to vaginal epithelial cells. <i>Biocell</i>, 2001; 25(3):265-273;</p> <p>2) Zàrate G. and Nader-Macias ME. Influence of probiotic vaginal lactobacilli on in vitro adhesion of urogenital pathogens to vaginal epithelial cells. <i>Letters in Applied Microbiology</i> ISSN 0266-8254;</p> <p>3) Tomas MSJ. et al. Comparison of the growth and hydrogen peroxide production by vaginal probiotic lactobacilli under different culture conditions. <i>Am J Obstet Gynecol</i>, 2003; 188(1): 35-44;</p> <p>4) Ocana VS. et al. Selection of vaginal H2O2-generating <i>Lactobacillus</i> species for probiotic use. <i>Current Microbiology</i>, 1999; 38: 279-84.</p>	
<p><i>Lactobacillus paracasei</i> subsp. <i>paracasei</i> CRL 1289 (under worldwide exclusive license from the CERELA)</p>	<p>FP</p>	<p>Vaginal health</p> <p>Inhibition of <i>Staphylococcus aureus</i></p>	<p>Animal model study</p> <p>Zarate G. et al. Protective Effect of Vaginal <i>Lactobacillus paracasei</i> CRL 1289 against Urogenital Infection Produced by <i>Staphylococcus aureus</i> in a Mouse Animal Model. <i>Infect Dis Obstet Gynecol</i>. 2009;2009:48358.</p> <p>In vitro studies</p> <p>1) Ocana VS. et al. Selection of vaginal H2O2-generating <i>Lactobacillus</i> species for probiotic use. <i>Current Microbiology</i>, 1999; 38: 279-84;</p> <p>2) Zàrate G. and Nader-Macias ME. Influence of probiotic vaginal lactobacilli on in vitro adhesion of urogenital pathogens to vaginal epithelial cells. <i>Letters in Applied Microbiology</i> ISSN 0266-8254;</p> <p>3) Ocana VS. et al. Growth inhibition of <i>Staphylococcus aureus</i> by H2O2-producing <i>Lactobacillus paracasei</i> subsp. <i>paracasei</i> isolated from the human vagina. <i>FEMS Immunology and Medical Microbiology</i>, 1999; 23:87-92.</p>	

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<p><i>Lactobacillus gasseri</i> CRL 1259 (under worldwide exclusive license from the CERELA)</p>	<p>FP</p>	<p>Vaginal health</p> <p>Production of lactic acid</p>	<p>In vitro studies</p> <p>1) Tomas MSJ. et al. Growth and lactic acid production by vaginal <i>Lactobacillus acidophilus</i> CRL 1259, and inhibition of uropathogenic <i>Escherichia coli</i>. Journal of Medical Microbiology, 2003; 52:1-8;</p> <p>2) Ocana V. and Nader-Macias ME. Adhesion of <i>Lactobacillus</i> vaginal strains with probiotic properties to vaginal epithelial cells. Biocell, 2001; 25(3): 265-273;</p> <p>3) Tomas MSJ. et al. Characterization of potentially probiotic vaginal lactobacilli isolated from Argentinean women. British Journal of Biomedical Science, 2005; 62(4);</p> <p>4) Zàrate G. and Nader-Macias ME. Influence of probiotic vaginal lactobacilli on in vitro adhesion of urogenital pathogens to vaginal epithelial cells. Letters in Applied Microbiology ISSN 0266-8254.</p>	
<p><i>Lactobacillus plantarum</i> LP02 (LMG P-21020)</p>	<p>RM</p>	<p>Intestinal transit</p> <p>Inhibition of <i>E. coli</i></p>	<p>In vitro study</p> <p>Mogna L. et al. Assessment of the in vitro inhibitory activity of specific probiotic bacteria against different <i>Escherichia coli</i> strains. J Clin Gastroenterol. 2012; 46 Suppl:S29-32.</p>	
<p><i>Lactobacillus delbrueckii</i> subsp. <i>bulgaricus</i> LDB01 (DSM 16606)</p>	<p>RM (on demand)</p>	<p>Rebalance of intestinal microbiota</p>		
<p><i>Lactobacillus rhamnosus</i> LR04 (DSM 16605)</p>	<p>RM</p>	<p>Rebalance of intestinal microbiota</p> <p>Intestinal transit</p>	<p>Human clinical trials</p> <p>1) Dezi A. et al. Probiotics and chronic diarrhea in the elderly. CIBUS, 2004; 8(2):58-64.</p> <p>2) Del Piano M. et al. Comparison of the kinetics of intestinal colonization by associating 5 probiotic bacteria assumed either in a microencapsulated or in a traditional, uncoated form. J Clin Gastroenterol. 2012; 46 Suppl:S85-92.</p>	<p>1) 10 billion CFU</p> <p>2) 5 billion CFU (uncoated) 1 billion cells (microencapsulated)</p>






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<i>Lactobacillus pentosus</i> LPS01 (DSM 21980)	RM	Inhibition of <i>E. coli</i> , including toxinogenic O157:H7 Strengthening of natural defences and natural immunity	In vitro studies presented in 2009 and in 2010 (Probiotic Congress, Rome, Italy) 1) Nicola S. et al. Interaction between probiotics and human immune system: two strains with reverse immunomodulatory activities. (IPA World Congress, Miami, USA) 2) Nicola S. et al. <i>Bifidobacterium breve</i> BR03 and <i>Lactobacillus pentosus</i> LPS01 differentially regulate cytokines release in human peripheral blood mononuclear cells. In vitro study Mogna L. et al. Assessment of the in vitro inhibitory activity of specific probiotic bacteria against different <i>Escherichia coli</i> strains. J Clin Gastroenterol. 2012; 46 Suppl:S29-32.	
<i>Lactobacillus brevis</i>  LBR01 (DSM 23034)	RM (on demand)	Antioxidant activity	In vitro and animal model studies Amaretti A. et al. Antioxidant properties of potentially probiotic bacteria: in vitro and in vivo activities. Appl Microbiol Biotechnol. 2013; 97(2):809-17.	
<i>Lactobacillus acidophilus</i>  LA06 (DSM 23033)	FP	Reduced glutathione (GSH) and superoxide dismutase (SOD) production	Human clinical trial under publication	
<i>Lactobacillus crispatus</i> LCR01 (DSM 24619)	RM (on demand)	Vaginal health Rebalance of a healthy vaginal microbiota		
<i>Lactobacillus plantarum</i> LP03 (LMG P-21022)	RM (on demand)	Activity against <i>Listeria monocytogenes</i> ATCC 19112 and <i>Escherichia coli</i> ATCC 35218	In vitro study	
<i>Lactobacillus plantarum</i> LP04 (LMG P-21023)	RM (on demand)			



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STRAIN ID and INTERNATIONAL COLLECTION DEPOSIT NUMBER	AVAILABLE as: RAW MATERIAL (RM) FINISHED PRODUCT (FP)	FUNCTIONALITY	SCIENTIFIC SUPPORT	DAILY DOSAGE IN CLINICAL STUDY
<p style="text-align: right;">new study</p> <p><i>Lactobacillus delbrueckii</i> subsp. <i>delbrueckii</i> LDD01 (DSM 22106)</p>	<p style="text-align: center;">FP</p>	<p>Rebalance of intestinal microbiota</p> <p>Reduction of gastro-intestinal discomfort</p> <p>Inhibition of <i>E. coli</i>, including toxinogenic O157:H7</p> <p>Inhibition of <i>Klebsiella pneumoniae</i> and of different coliforms isolated from colicky infants</p>	<p style="text-align: center;">In vitro studies</p> <p>1) Mogna L. et al. Assessment of the in vitro inhibitory activity of specific probiotic bacteria against different <i>Escherichia coli</i> strains. J Clin Gastroenterol. 2012; 46 Suppl:S29-32.</p> <p>2) Savino F. et al. Antagonistic effect of <i>Lactobacillus</i> strains against gas-producing coliforms isolated from colicky infants. BMC Microbiol. 2011; 11:157.</p> <p>3) Mogna L. et al. In vitro inhibition of <i>Klebsiella pneumoniae</i> by <i>Lactobacillus delbrueckii</i> subsp. <i>delbrueckii</i> LDD01 (DSM 22106): an innovative strategy to possibly counteract such infections in humans? Publication in progress in a Supplement to the Journal of Clinical Gastroenterology.</p>	
<p style="text-align: right;">new study</p> <p><i>Lactobacillus salivarius</i> subsp. <i>salivarius</i> LS01 (DSM 22775)</p>	<p style="text-align: center;">FP</p>	<p>Rebalance of intestinal microbiota</p> <p>Skin health</p> <p>Improvement of the Quality of Life in subjects with Atopic Dermatitis</p> <p>Immunomodulatory activity in asthmatic subjects</p>	<p style="text-align: center;">Human clinical trials</p> <p>1) Drago L. et al. Effects of <i>Lactobacillus salivarius</i> LS01 (DSM 22775) treatment on adult atopic dermatitis: a randomized placebo-controlled study. Int J Immunopathol Pharmacol. 2011; 24(4):1037-48.</p> <p>2) Drago L. et al. Changing of fecal flora and clinical effect of <i>L. salivarius</i> LS01 in adults with atopic dermatitis. J Clin Gastroenterol. 2012; 46 Suppl:S56-63.</p> <p>3) Niccoli A. et al. Preliminary results on clinical effects of probiotic <i>Lactobacillus salivarius</i> LS01 in children affected by atopic dermatitis. J Clin Gastroenterol. 2014; 48 Suppl:S34-36</p> <p>4) Drago L. et al. Treatment of atopic dermatitis eczema with a high concentration of <i>Lactobacillus salivarius</i> LS01 associated with an innovative gelling complex. J Clin Gastroenterol. 2014; 48 Suppl:S47-51</p> <p style="text-align: center;">In vitro studies</p> <p>a) Drago L. et al. Strain-dependent release of cytokines modulated by <i>Lactobacillus salivarius</i> human isolates in an in vitro model. BMC Res Notes. 2010; 3:44.</p> <p>b) Drago L. et al. Immunomodulatory effects of <i>Lactobacillus salivarius</i> LS01 and <i>Bifidobacterium breve</i> BR03, alone and in combination, on peripheral blood mononuclear cells of allergic asthmatics. Allergy Asthma Immunol Res. 2015 July; 7(4):409-413</p>	<p style="text-align: center;">1,2,3) 2 billion CFU</p> <p>4) 5 billion CFU + 2 billion CFU of <i>Streptococcus thermophilus</i> ST10 + Tara gum</p>

Lactobacillus Strains

STRAIN ID and INTERNATIONAL COLLECTION DEPOSIT NUMBER	AVAILABLE as: RAW MATERIAL (RM) FINISHED PRODUCT (FP)	FUNCTIONALITY	SCIENTIFIC SUPPORT	DAILY DOSAGE IN CLINICAL STUDY
<i>Lactobacillus paracasei</i> LPC09 (DSM 24243) 	FP			
<i>Lactobacillus gasseri</i> LGS01 (DSM 18299) 	FP	Oxalate degradation Reduction of intestinal inflammation		
<i>Lactobacillus gasseri</i> LGS02 (DSM 18300) 	FP	Potential reduction of kidney stones incidence	In vitro study Mogna L. et al. Screening of different probiotic strains for their in vitro ability to metabolise oxalates: any prospective use in humans? J Clin Gastroenterol. 2014; 48 Suppl:S91-95	
<i>Lactobacillus acidophilus</i> LA07 (DSM 24303) 	FP	Reduction of gastrointestinal discomfort		
<i>Lactobacillus acidophilus</i> LA02 (DSM 21717) 	RM			
<i>Lactobacillus rhamnosus</i> LR05 (DSM 19739)	RM	Rebalance of intestinal microbiota	In vitro study Nicola S. In vitro evaluation of the immunomodulating properties of the strain <i>Lactobacillus rhamnosus</i> LR05 (DSM 19739)	


Lactobacillus Strains

STRAIN ID and INTERNATIONAL COLLECTION DEPOSIT NUMBER	AVAILABLE as: RAW MATERIAL (RM) FINISHED PRODUCT (FP)	FUNCTIONALITY	SCIENTIFIC SUPPORT	DAILY DOSAGE IN CLINICAL STUDY
<i>Lactobacillus rhamnosus</i> LR06 (DSM 21981)	RM	<p>Rebalance of intestinal microbiota</p> <p>Inhibition of <i>E. coli</i>, including toxinogenic O157:H7</p>	<p>Human clinical trial Del Piano M. et al. Comparison of the kinetics of intestinal colonization by associating 5 probiotic bacteria assumed either in a microencapsulated or in a traditional, uncoated form. J Clin Gastroenterol. 2012; 46 Suppl:S85-92.</p> <p>In vitro study Mogna L. et al. Assessment of the in vitro inhibitory activity of specific probiotic bacteria against different <i>Escherichia coli</i> strains. J Clin Gastroenterol. 2012; 46 Suppl:S29-32.</p>	<p>5 billion CFU (uncoated) 1 billion cells (microencapsulated)</p>
<i>Lactobacillus fermentum</i> LF10 (DSM 19187) 	FP	<p>Vaginal health</p> <p>Inhibition of <i>Candida</i> strains</p> <p>Counteraction of vulvovaginal candidiasis (VVC)</p>	<p>Human clinical trials 1) Vicariotto F. et al. Effectiveness of the association of 2 probiotic strains formulated in a slow release vaginal product, in women affected by vulvovaginal candidiasis: a pilot study. J Clin Gastroenterol. 2012; 46 Suppl:S73-80 2) Murina F. et al. Can <i>Lactobacillus fermentum</i> LF10 and <i>Lactobacillus acidophilus</i> LA02 in a Slow-release Vaginal Product be Useful for Prevention of Recurrent Vulvovaginal Candidiasis? J Clin Gastroenterol. 2014; 48 Suppl:S102-105</p> <p>In vitro study Deidda F. et al. In vitro effectiveness of <i>Lactobacillus fermentum</i> against different <i>Candida</i> species compared with broadly used azoles. Publication in progress in a Supplement to the Journal of Clinical Gastroenterology.</p>	<p>1,2) 400 million CFU</p>
<i>Lactobacillus fermentum</i> LF11 (DSM 19188) 	FP	<p>Vaginal health</p> <p>Inhibition of <i>Candida</i> strains</p> <p>Counteraction of vulvovaginal candidiasis (VVC)</p>	<p>In vitro study Deidda F. et al. In vitro effectiveness of <i>Lactobacillus fermentum</i> against different <i>Candida</i> species compared with broadly used azoles. Publication in progress in a Supplement to the Journal of Clinical Gastroenterology.</p> <p>In vitro data Vicariotto F. et al. Effectiveness of the association of 2 probiotic strains formulated in a slow release vaginal product, in women affected by vulvovaginal candidiasis: a pilot study. J Clin Gastroenterol. 2012; 46 Suppl:S73-80</p>	<p>800 million CFU</p>

Lactobacillus Strains

STRAIN ID and INTERNATIONAL COLLECTION DEPOSIT NUMBER	AVAILABLE as: RAW MATERIAL (RM) FINISHED PRODUCT (FP)	FUNCTIONALITY	SCIENTIFIC SUPPORT	DAILY DOSAGE IN CLINICAL STUDY
<p><i>Lactobacillus fermentum</i> LF5 (CNCM I-789) (API)</p> <p>new study</p>	<p>FP</p>	<p>Vaginal health</p> <p>Inhibition of Candida strains</p> <p>Treatment of vulvovaginal candidiasis (VVC)</p>	<p>Human clinical trials</p> <p>1) Gigliotti B., Dose range finding study in patients suffering from <i>Candida albicans</i> ("A. Segni" Hospital, Italy, 1992)</p> <p>2) Donini G., Clinical study compared with a placebo in patients suffering from <i>Candida albicans</i> ("S. Salvatore" Hospital, Italy, 1992)</p> <p>3) Iannino A., Clinical study compared with a miconazole treatment in patients suffering from <i>Candida albicans</i> ("Civitanova Marche" Hospital, Italy, 1992)</p> <p>4) Rovere F., Local tolerability and activity study in patients suffering from <i>Candida albicans</i> ("Delmati2 Hospital, Italy, 1992)</p> <p>In vitro study under publication</p>	<p>1,2,3,4) 1 billion CFU</p>
<p><i>Lactobacillus fermentum</i> LF8 (DSM 18297)</p> <p>new</p>	<p>RM (on demand)</p>	<p>Inhibition of Candida strains</p>	<p>In vitro data</p>	
<p><i>Lactobacillus fermentum</i> LF9 (DSM 18298)</p>	<p>FP</p>	<p>Restoration of a physiological gut barrier</p> <p>Inhibition of Candida growth</p> <p>Strain from brushing of the gut mucosa</p>	<p>In vitro data</p>	

Lactobacillus Strains

STRAIN ID and INTERNATIONAL COLLECTION DEPOSIT NUMBER	AVAILABLE as: RAW MATERIAL (RM) FINISHED PRODUCT (FP)	FUNCTIONALITY	SCIENTIFIC SUPPORT	DAILY DOSAGE IN CLINICAL STUDY
<i>Lactobacillus fermentum</i> LF15 (DSM 26955) 	FP	Vaginal health Inhibition of <i>Gardnerella vaginalis</i> Counteraction of Bacterial Vaginosis (BV)	Human clinical trial Vicariotto F. et al. Effectiveness of the two microorganisms <i>L. fermentum</i> LF15 and <i>L. plantarum</i> LP01, formulated in slow release vaginal tablets, in women affected by Bacterial Vaginosis: a pilot study. J Clin Gastroenterol. 2014; 48 Suppl:S106-112. In vitro study Deidda F. et al. In vitro effectiveness of <i>Lactobacillus fermentum</i> against different <i>Candida</i> species compared with broadly used azoles. Publication in progress in a Supplement to the Journal of Clinical Gastroenterology.	400 million CFU
<i>Lactobacillus fermentum</i> LF16 (DSM 26856)	FP	Vaginal health Inhibition of <i>Candida</i> growth	In vitro data	
<i>Lactobacillus rhamnosus</i> GG (ATCC 53103) (Valio authorised producer)	RM		One of the most recognized probiotic strains in the world.	5 billion CFU (uncoated)
<i>Lactobacillus rhamnosus</i> GG (ATCC 53103) Active Pharmaceutical Ingredient (under license from VALIO)	RM		Many human clinical trials are available Del Piano M. et al. Comparison of the kinetics of intestinal colonization by associating 5 probiotic bacteria assumed either in a microencapsulated or in a traditional, uncoated form. J Clin Gastroenterol. 2012; 46 Suppl:S85-92.	1 billion cells (microencapsulated)


Lactobacillus Strains

STRAIN ID and INTERNATIONAL COLLECTION DEPOSIT NUMBER	AVAILABLE as: RAW MATERIAL (RM) FINISHED PRODUCT (FP)	FUNCTIONALITY	SCIENTIFIC SUPPORT	DAILY DOSAGE IN CLINICAL STUDY
<p><i>Lactobacillus plantarum</i> LP01 (LMG P-21021)</p>	<p>RM</p>	<p>Reduction of gastro-intestinal discomfort</p> <p>Rebalance of intestinal microbiota</p> <p>Intestinal transit</p> <p>Inhibition of <i>E. coli</i></p> <p>Activity against <i>Listeria monocytogenes</i> ATCC 19112, <i>Enterococcus</i> sp. (newborn faeces), <i>Klebsiella</i> sp. (newborn faeces)</p>	<p>Human clinical trials</p> <p>1) Del Piano M. et al., The use of probiotics in the treatment of constipation in the elderly. CIBUS, 2005; 1(1):23-30.</p> <p>2) Del Piano M. et al. Evaluation of the intestinal colonization by microencapsulated probiotic bacteria in comparison with the same uncoated strains. J Clin Gastroenterol. 2010; 44 Suppl 1:S42-6.</p> <p>3) Del Piano M. et al. Is microencapsulation the future of probiotic preparations? The increased efficacy of gastro-protected probiotics. Gut Microbes. 2011; 2(2):120-3</p> <p>In vitro study presented in 2009 (Probiotic Congress, Rome, Italy) Nicola S. et al. Interaction between probiotics and human immune system: two strains with reverse immunomodulatory activities.</p> <p>In vitro study Mogna L. et al. Assessment of the in vitro inhibitory activity of specific probiotic bacteria against different <i>Escherichia coli</i> strains. J Clin Gastroenterol. 2012; 46 Suppl:S29-32.</p>	<p>1) 10 billion CFU</p> <p>2,3) 5 billion CFU (uncoated) 1 billion cells (microencapsulated)</p>
<p><i>Lactobacillus plantarum</i> LP09 (DSM 25710)</p>	<p>RM</p>	<p>Inhibition of <i>Listeria monocytogenes</i></p> <p>Possible use as starter culture in the production of cheese and other milk derivatives</p>	<p>In vitro data</p>	
<p><i>Lactobacillus casei</i> LC03 (DSM 27537)</p>	<p>RM</p>	<p>Rebalance of intestinal microbiota</p>		

Lactobacillus Strains

STRAIN ID and INTERNATIONAL COLLECTION DEPOSIT NUMBER	AVAILABLE as: RAW MATERIAL (RM) FINISHED PRODUCT (FP)	FUNCTIONALITY	SCIENTIFIC SUPPORT	DAILY DOSAGE IN CLINICAL STUDY
<i>Lactobacillus paracasei</i> subsp. <i>paracasei</i> LPC00 (LMG P-21380)	RM	Rebalance of intestinal microbiota Production of riboflavin	In vitro study Prof. Francesco Addeo, University of Naples "Federico II", Department of Food Science	
<i>Lactobacillus salivarius</i> sub. <i>salivarius</i> LS03 (DSM 22776)	RM (on demand)	Strong adhesion to the intestinal mucosa Immunomodulation	In vitro study	
<i>Lactobacillus reuteri</i> LRE02 (DSM 23878)	RM	Production of riboflavin	In vitro study	
<i>Lactobacillus reuteri</i> LRE01 (DSM 23877) <i>Lactobacillus reuteri</i> LRE04 (DSM 23880)	RM (on demand) RM (on demand)	Rebalance of intestinal microbiota		
<i>Lactobacillus reuteri</i> LRE03 (DSM 23879)	FP	Rebalance of intestinal microbiota Strengthening of natural defences and natural immunity	In vitro study	

Streptococcus Thermophilus

STRAIN ID and INTERNATIONAL COLLECTION DEPOSIT NUMBER	AVAILABLE as: RAW MATERIAL (RM) FINISHED PRODUCT (FP)	FUNCTIONALITY	SCIENTIFIC SUPPORT	DAILY DOSAGE IN CLINICAL STUDY
<i>Streptococcus thermophilus</i> ST10 (DSM 25246) 	FP	Production of exopolysaccharides (EPS) in the gut Restoration of a physiological intestinal barrier	Human clinical trial Del Piano M. et al. Assessment of the capability of a gelling complex made of tara gum and the exopolysaccharides (EPS) produced by the microorganisms <i>Streptococcus thermophilus</i> ST10 (DSM 25246) to prospectively restore the gut physiological barrier: a pilot study. J Clin Gastroenterol. 2014; 48 Suppl:S56-61.	1 billion CFU
<i>Streptococcus thermophilus</i> YO8 (DSM 17843)	RM			
<i>Streptococcus thermophilus</i> YO5 (DSM 16593)	RM	Reduction of the bean flavour in a fermented soy milk	In vitro study Patent Application WO/2009/106536. Fermented soymilk and method for improving the organoleptic properties of fermented soymilk.	
<i>Streptococcus thermophilus</i> YO3 (DSM 16591)	RM			
<i>Streptococcus thermophilus</i> YO4 (DSM 16592)	RM	Use in cow's milk as yogurt starter culture		
<i>Streptococcus thermophilus</i> FP4 (DSM 18616)	RM	Potential reduction of the incidence of allergies		


Blends

STRAIN ID and INTERNATIONAL COLLECTION DEPOSIT NUMBER	AVAILABLE as: RAW MATERIAL (RM) FINISHED PRODUCT (FP)	FUNCTIONALITY	SCIENTIFIC SUPPORT	DAILY DOSAGE IN CLINICAL STUDY
<p><i>Bifidobacterium breve</i> BR03 (DSM 16604) + <i>Lactobacillus plantarum</i> LP01 (LMG P-21021)</p>	<p>RM</p>	<p>Rebalance of intestinal microbiota</p> <p>Intestinal transit</p> <p>Reduction of gastro-intestinal discomfort</p> <p>Inhibition of <i>E. coli</i>, including toxinogenic O157:H7</p> <p>Contributes to restore the gut physiological barrier</p>	<p>Human clinical trials</p> <p>1) Saggiaro A. Probiotics in the treatment of Irritable Bowel Syndrome. <i>Journal of Clinical Gastroenterology</i>, 2004; 38(8): S104-106.</p> <p>2) Del Piano et al. Evaluation of the intestinal colonization by microencapsulated probiotic bacteria in comparison to the same uncoated strains. <i>Journal of Clinical Gastroenterology</i>, 2010; 44(8):S42-46.</p> <p>3) Del Piano et al. The use of probiotics in healthy volunteers with evacuation disorders and hard stools. A double blind, randomized, placebo-controlled study. <i>Journal of Clinical Gastroenterology</i>, 2010; 44(8):S30-34.</p> <p>4) Del Piano M. et al. Is microencapsulation the future of probiotic preparations? The increased efficacy of gastro-protected probiotics. <i>Gut Microbes</i>. 2011; 2(2):120-3.</p> <p>In vitro study</p> <p>Mogna L. et al. Assessment of the in vitro inhibitory activity of specific probiotic bacteria against different <i>Escherichia coli</i> strains. <i>J Clin Gastroenterol</i>. 2012; 46 Suppl:S29-32.</p>	<p>1) 5 billion CFU + 5 billion CFU</p> <p>2,4) 5 billion CFU/strain (uncoated form) vs. 1 billion cells/strain (microencapsulated form)</p> <p>3) 2.5 billion CFU + 2.5 billion CFU</p>

Blends

STRAIN ID and INTERNATIONAL COLLECTION DEPOSIT NUMBER	AVAILABLE as: RAW MATERIAL (RM) FINISHED PRODUCT (FP)	FUNCTIONALITY	SCIENTIFIC SUPPORT	DAILY DOSAGE IN CLINICAL STUDY
<p><i>Lactobacillus acidophilus</i> LA02 (DSM 21717) + <i>Lactobacillus plantarum</i> LP01 (LMG P-21021)</p>	<p>RM</p>	<p>Reduction of gastro-intestinal discomfort</p> <p>Rebalance of intestinal microbiota</p>	<p>Human clinical trial Saggiaro A. Probiotics in the treatment of Irritable Bowel Syndrome. <i>Journal of Clinical Gastroenterology</i>, 2004; 38(8): S104-106.</p> <p>In vitro study Nicola S. et al. Immunomodulation properties of <i>Lactobacillus plantarum</i> LP01 (LMG P-21021) and <i>Lactobacillus acidophilus</i> LA02 (DSM 21717) blend.</p>	<p>5 billion CFU + 5 billion CFU</p>
<p><i>Bifidobacterium animalis</i> subsp. <i>lactis</i> BS01 (LMG P-21384) + <i>Lactobacillus rhamnosus</i> LR04 (DSM 16605) + <i>Lactobacillus plantarum</i> LP02 (LMG P-21020)</p>	<p>RM</p>	<p>Reinforcement of the natural defences</p> <p>Reduction of the intestinal discomfort</p> <p>Rebalance of the intestinal microbiota</p> <p>Reduction of the incidence, severity and duration of Acute Respiratory Infections (ARI) during the cold season</p>	<p>Human clinical trial Pregliasco F, Anselmi G, Fonte L, Giussani F, Schieppati S, Soletti L. A New Chance of Preventing Winter Diseases by the Administration of Symbiotic Formulations. <i>Journal of Clinical Gastroenterology</i>, 2008; 42(2): 224-233.</p>	<p>10 billion CFU + 10 billion CFU + 10 billion CFU + FOS</p>

Blends

STRAIN ID and INTERNATIONAL COLLECTION DEPOSIT NUMBER	AVAILABLE as: RAW MATERIAL (RM) FINISHED PRODUCT (FP)	FUNCTIONALITY	SCIENTIFIC SUPPORT	DAILY DOSAGE IN CLINICAL STUDY
<p><i>Lactobacillus plantarum</i> LP01 (LMG P-21021) +</p> <p><i>Lactobacillus plantarum</i> LP02 (LMG P-21020) +</p> <p><i>Lactobacillus rhamnosus</i> LR04 (DSM 16605) +</p> <p><i>Lactobacillus rhamnosus</i> LR05 (DSM 19739) +</p> <p><i>Bifidobacterium animalis subsp. lactis</i> BS01 (LMG P-21384)</p>	<p>FP</p>	<p>Reinforcement of the natural defences</p> <p>Reduction of the intestinal discomfort</p> <p>Rebalance of the intestinal microbiota</p> <p>Reduction of the incidence, severity and duration of Acute Respiratory Infections (ARI) during the cold season</p>	<p>Human clinical trial Pregliasco F, Anselmi G, Fonte L, Giussani F, Schieppati S, Soletti L. A New Chance of Preventing Winter Diseases by the Administration of Symbiotic Formulations. <i>Journal of Clinical Gastroenterology</i>, 2008; 42(2): 224-233.</p>	<p>2.5 billion CFU + 2.5 billion CFU + 2.5 billion CFU + 2.5 billion CFU + 5 billion CFU + FOS or GOS</p>
<p><i>Bifidobacterium breve</i>  BR03 (DSM 16604) +</p> <p><i>Streptococcus thermophilus</i> FP4 (DSM 18616)</p>	<p>RM</p>	<p>Immune response improving</p> <p>Performance enhancing</p>	<p>Human clinical trial Jäger R. et al. Probiotic supplementation attenuates performance decrements and inflammation following muscle damaging exercise. Under publication</p>	<p>5 billion CFU + 5 billion CFU</p>

Blends

STRAIN ID and INTERNATIONAL COLLECTION DEPOSIT NUMBER	AVAILABLE as: RAW MATERIAL (RM) FINISHED PRODUCT (FP)	FUNCTIONALITY	SCIENTIFIC SUPPORT	DAILY DOSAGE IN CLINICAL STUDY
<p><i>Bifidobacterium lactis</i> MB2409 (DSM 23733) + <i>Bifidobacterium bifidum</i> MB109 (DSM 23731) + <i>Bifidobacterium longum</i> BL04 (DSM 23233)</p>	<p>FP</p>	<p>Cardiovascular health</p> <p>Cholesterol lowering</p>	<p>Human clinical trial Guardamagna O. et al. Bifidobacteria supplementation: effects on plasma lipid profile in dyslipidemic children. Nutrition (2014), doi: 10.1016/j.nut.2014.01.014.</p>	<p>1 billion CFU/strain</p>
<p><i>Lactobacillus salivarius</i> subsp. <i>salivarius</i> LS01 (DSM 22775) + <i>Bifidobacterium breve</i> BR03 (DSM 16604)</p>	<p>FP</p>	<p>Skin health</p> <p>Rebalance of the intestinal microbiota</p> <p>Improvement of the Quality of Life in subjects with Atopic Dermatitis (AD)</p> <p>Reduce frequency, length and intensity of AD symptom</p> <p>Helps to restore the gut barrier function</p>	<p>Human clinical trial Iemoli E. et al. Probiotics reduce gut microbial translocation and improve adult atopic dermatitis. J Clin Gastroenterol. 2012; 46 Suppl:S33-40.</p>	<p>2 billion CFU + 2 billion CFU</p>

Blends



STRAIN ID and INTERNATIONAL COLLECTION DEPOSIT NUMBER	AVAILABLE as: RAW MATERIAL (RM) FINISHED PRODUCT (FP)	FUNCTIONALITY	SCIENTIFIC SUPPORT	DAILY DOSAGE IN CLINICAL STUDY
<p><i>Lactobacillus rhamnosus</i> LR06 (DSM 21981) + <i>Lactobacillus pentosus</i> LPS01 (DSM 21980) + <i>Lactobacillus plantarum</i> LP01 (LMG P-21021) + <i>Lactobacillus delbrueckii</i> subsp. <i>delbrueckii</i> LDD01 (DSM 22106)</p> <p>new study</p>	<p>FP</p>	<p>Restoration of a healthy oral flora</p> <p>Improvement of the incidence and severity of bad breath (halitosis)</p>	<p>Human clinical trial Del Piano M. et al. Correlation between specific bacterial groups in the oral cavity and the severity of halitosis: any possible beneficial role for selected Lactobacilli? J Gastroint Dig Syst, 2014; 4:197</p>	<p>1.5 billion CFU + 1.5 billion CFU + 1.5 billion CFU + 500 million CFU</p>
<p><i>Lactobacillus fermentum</i> LF15 (DSM 26955) + <i>Lactobacillus plantarum</i> LP01 (LMG P-21021)</p> <p>new study</p>	<p>FP</p>	<p>Vaginal health</p> <p>Inhibition of <i>Gardnerella vaginalis</i></p> <p>Counteraction of Bacterial Vaginosis (BV)</p>	<p>Human clinical trial Vicariotto F. et al. Effectiveness of the two microorganisms <i>L. fermentum</i> LF15 and <i>L. plantarum</i> LP01, formulated in slow release vaginal tablets, in women affected by Bacterial Vaginosis: a pilot study. J Clin Gastroenterol. 2014; 48 Suppl:S106-112.</p>	<p>400 million CFU/strain/tablet + Tara gum + FOS + Arabinogalactan</p>

Blends

STRAIN ID and INTERNATIONAL COLLECTION DEPOSIT NUMBER	AVAILABLE as: RAW MATERIAL (RM) FINISHED PRODUCT (FP)	FUNCTIONALITY	SCIENTIFIC SUPPORT	DAILY DOSAGE IN CLINICAL STUDY
<p><i>Bifidobacterium longum</i> DLBL07 (DSM 25669)</p> <p>+</p> <p><i>Bifidobacterium longum</i> DLBL08 (DSM 25670)</p> <p>+</p> <p><i>Bifidobacterium longum</i> DLBL09 (DSM 25671)</p> <p>+</p> <p><i>Bifidobacterium longum</i> DLBL10 (DSM 25672)</p> <p>+</p> <p><i>Bifidobacterium longum</i> DLBL11 (DSM 25673)</p>	<p>FP</p>	<p>Detected and isolated uniquely in centenarians</p> <p>Rebalance of the intestinal microbiota</p>	<p>Human clinical trial Drago L. et al. Cultivable and pyrosequenced fecal microflora in centenarians and young subjects. J Clin Gastroenterol. 2012; 46 Suppl:S81-4.</p> <p>In vitro study Nicola S. et al. Immunomodulatory properties of <i>Bifidobacterium longum</i> DLBL strains isolated from centenarians. Publication in progress in a Supplement to the Journal of Clinical Gastroenterology.</p>	

new study


Blends

STRAIN ID and INTERNATIONAL COLLECTION DEPOSIT NUMBER	AVAILABLE as: RAW MATERIAL (RM) FINISHED PRODUCT (FP)	FUNCTIONALITY	SCIENTIFIC SUPPORT	DAILY DOSAGE IN CLINICAL STUDY
<p><i>Lactobacillus fermentum</i> LF10 (DSM 19187) + <i>Lactobacillus acidophilus</i> LA02 (DSM 21717)</p> 	FP	<p>Vaginal health</p> <p>Inhibition of Candida strains</p> <p>Innovative effervescent slow release tablet for enhanced delivery and activity of lactobacilli</p> <p>Counteraction of Candida vulvovaginitis</p>	<p>Human clinical trials</p> <p>1) Vicariotto F. et al. Effectiveness of the association of 2 probiotic strains formulated in a slow release vaginal product, in women affected by vulvovaginal candidiasis: a pilot study. J Clin Gastroenterol. 2012; 46 Suppl:S73-80.</p> <p>2) Murina F. et al. Can <i>Lactobacillus fermentum</i> LF10 and <i>Lactobacillus acidophilus</i> LA02 in a Slow-release Vaginal Product be Useful for Prevention of Recurrent Vulvovaginal Candidiasis? J Clin Gastroenterol. 2014; 48 Suppl:S102-105</p>	<p>1,2) 400 million CFU/strain/tablet + Carbon dioxide + FOS + Arabinogalactan</p>
<p><i>Bifidobacterium breve</i> B632 (DSM 24706) + <i>Bifidobacterium breve</i> BR03 (DSM 16604)</p> 	FP	<p>Rebalance of the intestinal microbiota in children and in infants</p> <p>Inhibition of <i>Klebsiella pneumoniae</i> and of other coliforms isolated from colicky infants</p> <p>Reduction of gastro-intestinal discomfort</p> <p>Anti-inflammatory activity related to celiac disease</p>	<p>Human clinical trials</p> <p>1) Mogna L. et al. Capability of the two microorganisms <i>Bifidobacterium breve</i> B632 and <i>Bifidobacterium breve</i> BR03 to colonize the intestinal microbiota of children. J Clin Gastroenterol. 2014; 48 Suppl:S37-39.</p> <p>2) Klemenak M. et al. Administration of <i>Bifidobacterium breve</i> decreases the production of TNF-α in children with celiac disease. Dig Dis Sci (2015), doi: 10.1007/s10620-015-3769-7</p> <p>3) Bona G. et al. The association of <i>Bifidobacterium breve</i> BR03 and B632 is effective to prevent colics in bottle-fed infants: a pilot, controlled, randomized and double blind study. Publication in progress in a Supplement to the Journal of Clinical Gastroenterology.</p> <p>In vitro study</p> <p>Mogna L. et al. Assessment of the in vitro inhibitory activity of specific probiotic bacteria against different <i>Escherichia coli</i> strains. J Clin Gastroenterol. 2012; 46 Suppl:S29-32.</p>	<p>1,3) 100 million CFU + 100 million CFU</p> <p>2) 1 billion CFU + 1 billion CFU</p>

Blends

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<p><i>Lactobacillus gasseri</i> LGS01 (DSM 18299) +</p> <p><i>Lactobacillus crispatus</i> LCR01 (DSM 24619) +</p> <p><i>Lactobacillus fermentum</i> LF15 (DSM 26955) +</p> <p><i>Lactobacillus rhamnosus</i> LR06 (DSM 21981) +</p> <p><i>Lactobacillus acidophilus</i> LA02 (DSM 21717)</p>	<p>FP</p>	<p>Vaginal health</p> <p>Restoration of a healthy vaginal microbiota</p> <p>Rebalance of the Döderlein's complex</p>	<p>In vitro data on individual strains</p>	
<p><i>Lactobacillus plantarum</i> LP01 (LMG P-21021) +</p> <p><i>Lactobacillus paracasei</i> LPC09 (DSM 24243)</p>	<p>FP</p>	<p>Prostate health</p> <p>Rebalance of the intestinal microbiota</p>	<p>Human clinical trials and in vitro data for single strains and ingredients</p>	

Blends




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<p><i>Lactobacillus plantarum</i> LP01 (LMG P-21021) + <i>Lactobacillus paracasei</i> LPC09 (DSM 24243)</p> 	FP	<p>Urinary tract health</p> <p>Rebalance of the intestinal microbiota</p>	<p>Human clinical trial</p> <p>Vicariotto F. Effectiveness of an association of a cranberry dry extract, D-mannose, and the two microorganisms <i>Lactobacillus plantarum</i> LP01 and <i>Lactobacillus paracasei</i> LPC09 in women affected by cystitis: a pilot study. J Clin Gastroenterol. 2014; 48 Suppl:S96-101.</p>	<p>2.5 billion CFU + 1 billion CFU + Cranberry + D-mannose + FOS</p>
<p><i>Lactobacillus fermentum</i> LF16 (DSM 26856) + <i>Lactobacillus acidophilus</i> LA02 (DSM 21717)</p>	FP	<p>Vaginal health</p> <p>Inhibition of Candida strains</p> <p>Counteraction of Candida vulvovaginitis</p>	<p>In vitro data on individual strains</p>	
<p><i>Lactobacillus fermentum</i> LF15 (DSM 26955) + <i>Lactobacillus rhamnosus</i> LR06 (DSM 21981)</p>	FP	<p>Vaginal health</p> <p>Restoration of a healthy vaginal microbiota</p> <p>Counteraction of Bacterial Vaginosis (BV)</p>	<p>In vitro and in vivo data on individual strains</p>	

Blends



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<p><i>Lactobacillus rhamnosus</i> LR06 (DSM 21981) + <i>Lactobacillus pentosus</i> LPS01 (DSM 21980) + <i>Lactobacillus plantarum</i> LP01 (LMG P-21021) + <i>Lactobacillus delbrueckii</i> subsp. <i>delbrueckii</i> LDD01 (DSM 22106)</p>	<p>FP</p>	<p>Restoration of the gastric barrier</p> <p>Attenuation of the side effects induced by the “gastric barrier” impairment caused by a prolonged intake of an acid-suppressant drug such as Proton Pump Inhibitors (PPIs)</p>	<p>Human clinical trials</p> <p>1) Del Piano M. et al. The innovative potential of <i>Lactobacillus rhamnosus</i> LR06, <i>Lactobacillus pentosus</i> LPS01, <i>Lactobacillus plantarum</i> LP01, and <i>Lactobacillus delbrueckii</i> subsp. <i>delbrueckii</i> LDD01 to restore the “gastric barrier effect” in patients chronically treated with PPI: a pilot study. J Clin Gastroenterol. 2012; 46 Suppl:S18-26.</p> <p>2) Del Piano M. et al. Correlation between chronic treatment with Proton Pump Inhibitors (PPIs) and bacterial overgrowth in the stomach: any possible beneficial role for selected Lactobacilli? J Clin Gastroenterol. 2014; 48 Suppl:S40-46.</p>	<p>1) 3 billion CFU + 3 billion CFU + 3 billion CFU + 1 billion CFU + FOS</p> <p>2) 3 billion CFU + 3 billion CFU + 3 billion CFU + 1 billion CFU</p>
<p><i>Bifidobacterium animalis</i> subsp. <i>lactis</i> BA05 (DSM 18352) + <i>Lactobacillus reuteri</i> LRE02 (DSM 23878)</p>	<p>FP</p>	<p>Production of folic acid</p> <p>Rebalance of intestinal microbiota</p> <p>Production of riboflavin</p>	<p>In vitro and in vivo data on individual strains</p>	

new study

Blends

STRAIN ID and INTERNATIONAL COLLECTION DEPOSIT NUMBER	AVAILABLE as: RAW MATERIAL (RM) FINISHED PRODUCT (FP)	FUNCTIONALITY	SCIENTIFIC SUPPORT	DAILY DOSAGE IN CLINICAL STUDY
<p><i>Bifidobacterium lactis</i> BS05 (DSM 23032) </p> <p>+ <i>Lactobacillus acidophilus</i> LA06 (DSM 23033)</p>	FP	<p>Antioxidant activity</p> <p>Reduced glutathione (GSH) and superoxide dismutase (SOD) production</p>	<p>In vitro and animal model studies Amaretti A. et al. Antioxidant properties of potentially probiotic bacteria: in vitro and in vivo activities. Appl Microbiol Biotechnol. 2013; 97(2):809-17.</p> <p>Human clinical trial under publication</p>	<p>1 billion CFU + 1 billion CFU + FOS + <i>L. buchneri</i> Lb26 (DSM 16341) tyndalized, naturally rich in Selenium</p>
<p><i>Bifidobacterium lactis</i> BS05 (DSM 23032) </p> <p>+ <i>Lactobacillus acidophilus</i> LA06 (DSM 23033)</p>	FP	<p>Beneficial effects in trichological area</p> <p>Hair health</p> <p>Antioxidant activity</p> <p>Reduced glutathione (GSH) and superoxide dismutase (SOD) production</p>	<p>In vitro and animal model studies Amaretti A. et al. Antioxidant properties of potentially probiotic bacteria: in vitro and in vivo activities. Appl Microbiol Biotechnol. 2013; 97(2):809-17.</p> <p>Human clinical trial under publication</p>	<p>1 billion CFU + 1 billion CFU + FOS + <i>L. buchneri</i> Lb26 (DSM 16341) tyndalized, naturally rich in Selenium + fermented soy by five <i>Bifidobacterium longum</i> isolated by centenarians</p>
<p><i>Bifidobacterium longum</i> BL04 (DSM 23233) </p> <p>+ <i>Bifidobacterium breve</i> BR03 (DSM 16604)</p>	FP	<p>Prospective use in the treatment of obesity</p> <p>Restoration of a better dietary ω-6/ω-3 balance</p> <p>Conjugated linoleic acids (CLA) production</p>	<p>In vitro studies</p> <p>1) Guardamagna O. et al. Bifidobacteria supplementation: effects on plasma lipid profile in dyslipidemic children. Nutrition (2014), doi: 10.1016/j.nut.2014.01.014.</p> <p>2) Patent Application WO/2011/073769. Conjugated linoleic acid-producing strains of probiotic bacteria and use thereof for the preparation of a food, dietetic or pharmaceutical composition.</p>	<p>1 billion CFU + 1 billion CFU + FOS + IGOB 131</p>

Blends

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<p><i>Bifidobacterium breve</i>  B632 (DSM 24706) + <i>Bifidobacterium breve</i> BR03 (DSM 16604) + <i>Lactobacillus delbrueckii</i> subsp. <i>delbrueckii</i> LDD01 (DSM 22106)</p>	<p>FP</p>	<p>Rebalance of the intestinal microbiota in children and in infants</p> <p>Inhibition of <i>Klebsiella pneumoniae</i> and of other coliforms isolated from colicky infants</p> <p>Intestinal transit</p> <p>Reduction of gastro-Intestinal discomfort</p>	<p>Human clinical trials</p> <p>1) Mogna L. et al. Capability of the two microorganisms <i>Bifidobacterium breve</i> B632 and <i>Bifidobacterium breve</i> BR03 to colonize the intestinal microbiota of children. J Clin Gastroenterol. 2014; 48 Suppl:S37-39.</p> <p>2) Del Piano M. et al. Can probiotics reduce diarrhoea and infant mortality in Africa? The project of a pilot study. Publication in progress in a Supplement to the Journal of Clinical Gastroenterology.</p> <p>3) Bona G. et al. The association of <i>Bifidobacterium breve</i> BR03 and B632 is effective to prevent colics in bottle-fed infants: a pilot, controlled, randomized and double blind study. Publication in progress in a Supplement to the Journal of Clinical Gastroenterology.</p> <p>In vitro studies</p> <p>1) Mogna L. et al. Assessment of the in vitro inhibitory activity of specific probiotic bacteria against different <i>Escherichia coli</i> strains. J Clin Gastroenterol. 2012; 46 Suppl:S29-32.</p> <p>2) Mogna L. et al. In vitro inhibition of <i>Klebsiella pneumoniae</i> by <i>Lactobacillus delbrueckii</i> subsp. <i>delbrueckii</i> LDD01 (DSM 22106): an innovative strategy to possibly counteract such infections in humans? Publication in progress in a Supplement to the Journal of Clinical Gastroenterology.</p>	<p>1,3) 100 million CFU + 100 million CFU</p> <p>2) 100 million CFU + 100 million CFU + 100 million CFU</p>
<p><i>Lactobacillus salivarius</i>  subsp. <i>salivarius</i> LS01 (DSM 22775) + <i>Bifidobacterium breve</i> BR03 (DSM 16604)</p>	<p>FP</p>	<p>Immunomodulatory activity in asthmatic subjects</p>	<p>In vitro study</p> <p>Drago L. et al. Immunomodulatory effects of <i>Lactobacillus salivarius</i> LS01 and <i>Bifidobacterium breve</i> BR03, alone and in combination, on peripheral blood mononuclear cells of allergic asthmatics. Allergy Asthma Immunol Res. 2015 July; 7(4):409-413</p>	



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