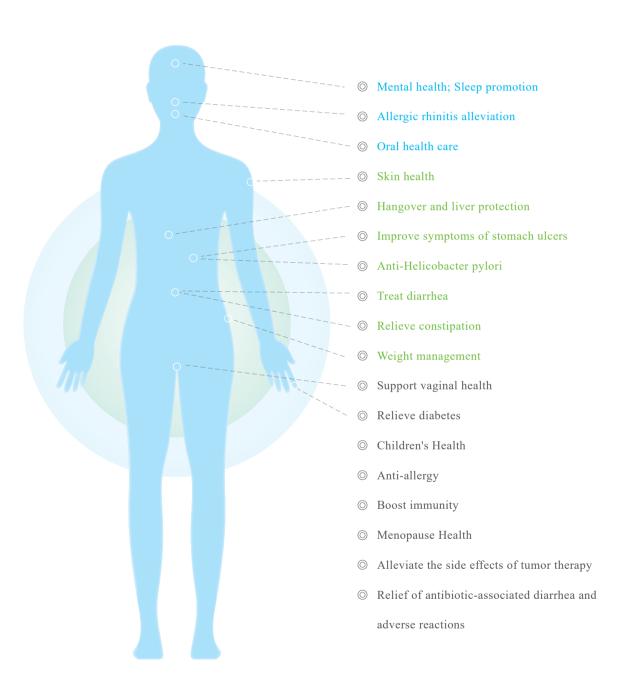
Health Applications of Probiotic Powder



Popular tracks of health application



Gastrointestinal health

(Protect the stomach mucosa, moisten bowel, improve immunity)

Lactobacillus acidophilus LA-G80, Bifidobacterium animalis subsp. lactis BL-G101, Bifidobacterium bifidum

BB-G90、 Bifidobacterium longum subsp.longum BL-G301、 Lactiplantibacillus plantarum ZJUF T34、

Lactiplantibacillus plantarum Lp-G18

Literature: The relaxing bowel effect of composite probiotic powder MIX -G200. Chinese Journal of Microecology, Jun. 2011, Vol. 23 No. 6

Evaluation of the health benefits of consumption of extruded tannin sorghum with unfermented probiotic milk in individuals with chronic kidney disease. Food

Research International Volume 107, May 2018, Pages 629-638



Female intimate care

(Inhibition of Gardnerella vaginalis, candida and other pathogenic bacteria)

Lactobacillus crispatus LC-G22, Lactobacillus gasseri LG-G12, Lactobacillus johnsonii LJ-G55, Lactobacillus acidophilus

LA-G80, Lacticaseibacillus rhamnosus Lr-G14

Literature: AVALIAÇÃO IN VITRO DA AÇÃO MICROBICIDA DE LACTOBACILLUS SPP. SOBRE CANDIDA SPP. 2020



Oral care (Improve breath, inhibit oral pathogens, reduce oral inflammation)

Ligilactobacillus salivarius LS-G60, Lacticaseibacillus paracasei LPc-G110

Literature: Are Lactobacillus salivarius G60 and inulin more efficacious to treat patients with oral halitosis and tongue coating than the probiotic alone and placebo? A randomized clinical trial. Journal of Periodontology .2020, 91,6: 775-783



Anti-Helicobacter pylori

(Inhibit Helicobacter pylori)

Lactobacillus acidophilus LA-G80, Bifidobacterium bifidum BB-G90, Limosilactobacillus reuteri LR-G100

Literature: Phenotype investigation on a strain of lactobacillus reuteri. China dairy industry. 2012,03



Liver care (Protective effect on acute alcoholic gastric mucosa injury and chemical liver injury)

Strains: Lactobacillus acidophilus LA-G80, Bifidobacterium bifidum BB-G90

Literature: Function experiment report of health food in China



Antiallergy (Prevent gluten allergy (celiac disease))

Bifidobacterium animalis subsp. lactis BL-G101, Bifidobacterium bifidum BB-G90, Bifidobacterium longum subsp.longum

BL-G301, Lactobacillus acidophilus LA-G80

Literature: Digestion of Intact Gluten Proteins by Bifidobacterium Species: Reduction of Cytotoxicity and Proinflammatory Responses, J. Agric. Food Chem. 2020, 68,



Blood glucose management (Improve metabolic syndrome, reduce blood fat and blood sugar)

Strains: Bifidobacterium animalis subsp. lactis BL-G101、Lactiplantibacillus plantarum Lp-G18、Lacticaseibacillus paracasei

LPc-G110, Bifidobacterium bifidum BB-G90, Bifidobacterium longum subsp.longum BL-G301, Lactobacillus

acidophilus LA-G80、Lactobacillus gasseri LG-G12

Literature: Rationale and Design of a Randomized Controlled Trial to Evaluate the Effects of Probiotics during Energy Restriction on Blood Pressure, Body Composition,

Metabolic Profile and Vascular Function in Obese Hypertensive Individuals. Artery Research Vol. 26(2); June (2020)

Potential anti-aging effects of fermented wheat germ in aging mice. Food Bioscience, https://doi.org/10.1016/j.fbio.2021.101182



Weight management (Adjuvant treatment of obesity, relieve weight gain)

Lactiplantibacillus plantarum ZJUF T17, Lactiplantibacillus plantarum ZJUF T34, Lactobacillus acidophilus LA-G80,

Lactobacillus gasseri LG-G12, Bifidobacterium animalis subsp. lactis BL-G101, Lactiplantibacillus plantarum

Lp-G18、 Bifidobacterium longum subsp.longum BL-G301

Literature: Antibiotic Followed by a Potential Probiotic Increases Brown Adipose Tissue, Reduces Biometric Measurements, and Changes Intestinal Microbiota Phyla in Obesity. Probiotics and Antimicrobial Proteins, https://doi.org/10.1007/s12602-021-09760-0

Weight-Reducing Effect of Lactobacillus plantarum ZJUF T17 Isolated from Sourdough Ecosystem. Nutrients 2020,12.977

Lactobacillus plantarum helps to suppress body weight gain, improve serum lipid profile and ameliorate low-grade inflammation in mice administered with glycerol monolaurate. Journal of Functional Foods 53 (2019) 54-61

ODM | CDMO

BioGrowing provides customized and high-quality solutions.

BioGrowing is one of the largest probiotics production bases in Asia.

- © 100,000 grade clean production workshop
- © More than 10 sets of intelligent production system
- © Lactic Acid bacteria freeze-dried powder 600 tons/year







- © Advanced equipment: low-temperature vacuum freeze dryer, freezing high-speed centrifuge, automatic fermentation system.
- © Patented technology: high-density fermentation technology, high stability patent embedding protection technology, high activity freeze-dried bacteria powder technology, cryogenic granulation technology.



Professional R&D



Multiple recipes



Lean production



Packaging customization



Full control



Qualification support

Package Systems

Capsules

Types			Descriptions
Capsule shell			Vegetable capsules (HPMC)
			Acid-resistant vegetable capsules
			Gelatin capsules
Outer packing	Bottles		PET bottles
			Glass bottles
	Blisters	Size 00#	Cold forming Alu-Alu blisters (500-700mg)
		Size 0#	PVC/PVDC blisters (About 500mg)
		Size 1#	Alu-Alu blister (320-380mg)
		Size 2#	Alu-Alu blister or bottles (220-250mg)

^{*} Other capsule sizes are available on inquiry.



Cold forming Alu-alu blisters (95×146 mm)



PVC/PVDC (62×95 mm)



Alu-alu blister (78×130 mm)



Capsule bottle

Package Systems

Sachets

Packing weight	Туре	Size	Packing material	
1.0~3.5 gram	Back-sealed sachets	110mm*25mm		
	Three-sides sealed rectangular sachet	75mm*50mm	PE/Alu/PET	
3.5~5.0 gram	Back-sealed sachets	120mm*28mm		
	Three-sides sealed rectangular sachet	85mm*50mm		
5.0~10.0 gram	Back-sealed sachets	145mm*28mm		
	Three-sides sealed rectangular sachet	100mm*50mm		
20~40 gram	Back-sealed sachets	180mm*70mm		







Three-sides sealed rectangular sachet

Shaped bottle

Specification: 2-3g

Diameter: 30mm, bottle height: 18mm (can be customized)

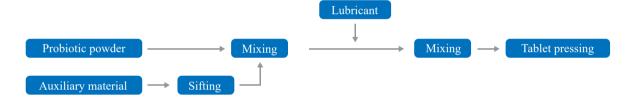




Tablets

Probiotic tablets are flaky preparations made by mixing probiotic powder and excipients evenly.

Process flow



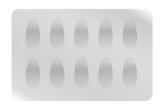
Technical parameter

The punching die count	31
Adjustable pressure sheet	100 kN
Adjustable pressure sheet diameter	25 mm
Adjustable filling depth	19 mm
Adjustable tablet thickness	10 mm
Adjustable production capacity	85000 tablets/h

Packaging

Circular tablet: 1.0-1.5g/tablet, one in each bag Oval tablet: 1.0-1.2g/tablet, 10 tablets per blister





Application







Tablet candy

Chewing tablets

Buccal tablets

Finished Products

Probiotic Capsules



Female Care Capsules

Spec:

- 10 Billion,
- 500mg capsule



IBS Care Capsules

Spec:

- 30 Billion,
- 500mg capsule



Anti-Anxiety Capsules

Spec:

- 10 Billion,
- 500mg capsule



Vaginbiol Capsules

Spec:

- 20 Billion,
- 500mg capsule



Dynabiotics Capsules

Spec:

- 10 Billion,
- 500mg capsule



Biotic-Restore Capsules

Spec:

- 20 Billion,
- 500mg capsule



Omebiotix Capsules

Spec:

- 40 Billion,
- 500mg capsule



Biotic Plus Capsule

Spec:

- 20 Billion,
- 250mg capsule

Stated health benefits of these products have not been evaluated by the Food and Drug Administration Authority. These products are not intended to diagnose, treat, cure, or prevent any disease.

Finished Products

Probiotic Solid Drinks



Wisdom+ Live Probiotic Powder

Spec:

- 20 Billion,
- 2.0g sachet



Pro-Immuno Live Probiotic Powder

Spec:

- 10 Billion,
- 2.0g sachet



Anti-allergy Live Probiotic Powder

Spec:

- 50 Billion,
- 2.0g sachet



Vaginbiol Live Probiotic Powder

Spec:

- 50 Billion,
- 3.0g sachet



Intest Booster Live Probiotic Powder

Spec:

- 30 Billion,
- 2.0g sachet



Stomach Care Live Probiotic Powder

Spec:

- 20 Billion,
- 2.0g sachet



Soberbiotix Probiotic Powder

Spec:

- 50 Billion,
- 2.0g sachet



Slim+ Live Probiotic Powder

Spec:

- 20 Billion,
- 2.0g sachet

Stated health benefits of these products have not been evaluated by the Food and Drug Administration Authority. These products are not intended to diagnose, treat, cure, or prevent any disease.

BioGuard® Starter Cultures (For Industrial Use)

Direct Vat Set cryogenic culture

The product categories include Direct Vat Set cultures and Direct Vat Set cryogenic cultures.

Direct Vat Set cryogenic cultures is characterized by stable fermentation time and high viability and is superior to traditional Direct Vat Set in many aspects, such as quick dissolution, convenient operation, and low cost.

Three series of starter cultures



DVS Starter Culture

Used in yogurt, probiotic yogurt, lactic acid bacteria beverage, small fresh cheese, sour cream, etc. Thermophilic dairy starter cultures
GF 231 / GF 468 / GF 479 / GF 655 / GF 665
GF 669 / GF 686 / GF 867 / GF 868 / GF 967

Mesophilic dairy starter cultures GF 218 / GF 227 / GF 927

Probiotic yoghurt & beverage starter cultures GFAB 101



DVS Plant Based Starter Culture

Used in fermented fruit and vegetable juices, pickles, fermented soy milk, fermented plant beverages, etc.

Plant based starter cultures GS 485 / GC101 / NP108



DVS Probiotic Starter

Fermented products strengthen the functions of probiotics.

Drinking yoghurt starter cultures GF 101 / GF 103 / GF 105 / GF 201

Biological protective agents GP 101





BIOGROWING CO., LTD.

No. 10666 Songze Road, Qingpu District, Shanghai, 201700, China

T: + 86 21 3920 5777 E: cs@biogrowing.com W: www.biogrowing.com