SPECIFICATION

PRODUCT : Immune+

Code : PFP4030-2

Ingredient : Lactobacillus plantarum LP109, Pediococcus acidilactici PA320, Inulin, Tapioca starch.

Items	Specifications	Methods	
Color	Light yellow	Visual	
Description	Capsule	Visual	
Odor	Characteristic	Organoleptic	
Taste	Characteristic	Organoleptic	
LAB content			
L. plantarum LP109	1.8×10 ¹⁰ CFU/capsule	CNS 14760	
P. acidilactici PA320			
Each capsule net weight	> 400mg	In-house	
Moisture	<8%	AOAC 934.01 ; CNS5033	
Heavy Metal			
Total heavy metals	<10ppm	Colorimetric Detection as Pb	
Microbiology			
Yeast & Molds	<1x10 ² CFU/g	U.S. FDA bacteriological analytical manual and CNS 12925	
Coliform	<1x10 ² MPN/g	CNS 10951	
Escherichia coli	Negative	Merck's Chromocult [®] Coliform Agar method	
Staphylococcus aureus	Negative	CHROMagar Staphylococcus aureus Count	
Salmonella spp.	Negative	CHROMagar Salmonella Count	





PRODUCT DATA SHEET Immune+

Gut microbiota has the largest numbers of microbes and the greatest numbers of species compared to other areas of the human body. In the gut, microbes secrete molecules and excrete metabolites to maintain the well-being of physical function and to influence the development of diseases. Probiotics ingestion can alter the flora balance to reduce the risk of disease. In 2001, the FAO/WHO expert consultation defines probiotics as live microbes that confer a health benefit on the host when administered in adequate amounts.

Description

- Immune + is the freeze-dried microbial culture blend derived from propagation on a dairy-free, soy-free and gluten-free medium to ensure tolerability in individuals with food allergies.
- It is grown in a medium free from all animalderived ingredients to make suitability for use in vegetarian products.
- It is scientifically proven and helpful in allergy.

Composition

Lactobacillus plantarum LP109 Lactobacillus plantarum LP110 Pediococcus acidilactici PA320 Organic tapioca maltodextrin

Potency

100 Billion CFU/g

Identification of microbe

16S rDNA sequencing

Physical characteristics

Appearance	White to cream-colored,		
	free-flowing powder		
	with characteristic odor		
Moisture	< 8%		

Moisture

Evaluation of probiotic potential

Survival in simulated GI tract Adhesion to epithelial cells Antibiotics susceptibility

	LP	LP	PA		
	109	110	320		
Gentamicin	S	R	S		
Kanamycin	- I	R	R		
Streptomycin	1	R	I		
Neomycin	S	R	S		
Tetracycline	1	Ι	I.		
Erythromycin	S	I.	S		
Clindamycin	S	S	S		
Chloramphenicol	S	S	I		
Ampicillin	1	S	- I		
Penicillin	1	S	I.		
Vancomycin	R	I	R		
Quinupristin-dalfopristin	S	S	S		
Linezolid	S	S	S		
Trimethoprim	S	S	R		
Ciprofloxacin	I	S	I		
Rifampicin	S	S	S		
S= Susceptible (MIC ≤ 4 μg/ml)					
I= Intermediate (MIC = 8-32 μ g/ml)					
R= Resistant (MIC ≥ 64 μg/mI)					

GMO status

Immune+ does not consist of, nor contains, nor is produced from genetically modified organisms (GMOs).

