

SPECIFICATION

PRODUCT : Liver+

Code : PFP5128

Ingredient : *Starch* · *Inulin* · *Lactobacillus salivarius LS159* · *Lactobacillus johnsonii LJ170*

Items	Specifications	Methods
Color	Light yellow	Visual
Description	Capsule	Visual
Odor	Characteristic	Organoleptic
Taste	Characteristic	Organoleptic
LAB content	1.8×10^{10} CFU/capsule	CNS 14760
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	$<1 \times 10^2$ CFU/g	U.S. FDA bacteriological analytical manual and CNS 12925
Coliform	$<1 \times 10^2$ MPN/g	CNS 10951
<i>Escherichia coli</i>	Negative	Merck's Chromocult® Coliform Agar method
<i>Staphylococcus aureus</i>	Negative	CHROMagar <i>Staphylococcus aureus</i> Count
<i>Salmonella</i> spp.	Negative	CHROMagar <i>Salmonella</i> Count





PRODUCT DATA SHEET

Liver+

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

Liver+ is the freeze-dried microbial culture blend. It is scientifically proven and helpful in alcoholic liver disease.

Composition

Lactobacillus salivarius LS159
Lactobacillus johnsonii LJ170
Tapioca starch
Inulin

Potency

100 Billion CFU/g

Identification of microbe

16S rDNA sequencing

Evaluation of probiotic potential

Survival in simulated GI tract
Adhesion to epithelial cells

Physical characteristics

Appearance White to cream-colored,
free-flowing powder
with characteristic odor

Moisture < 5%

Antibiotics susceptibility

	LS 159	LJ 170
Gentamicin	S	S
Kanamycin	R	S
Streptomycin	I	S
Neomycin	S	S
Tetracycline	S	S
Erythromycin	S	I
Clindamycin	S	S
Chloramphenicol	S	S
Ampicillin	I	S
Penicillin	I	S
Vancomycin	R	S
Quinupristin-dalfopristin	S	S
Linezolid	S	S
Trimethoprim	I	R
Ciprofloxacin	S	I
Rifampicin	S	S
S= Susceptible (MIC ≤ 4 µg/ml) I= Intermediate (MIC = 8-32 µg/ml) R= Resistant (MIC ≥ 64 µg/ml)		

GMO status

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

