



Communication Address

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CERTIFICATE OF ANALYSIS

Product : PROVASIC™

Product Code: TPPL-PB-21B

Active Ingredient : *Lactobacillus plantarum* – 20 billion Cfug

Mfg Date: June 2018

Batch No : TPPL/17-18/Lp-005

Exp Date: Nov 2019

PARAMETERS	SPECIFICATION	RESULTS	METHOD
Physical Parameters			
Description	Light to off white colour powder	Complies	Organoleptic
Odour	Characteristic odour	Complies	Organoleptic
Identification	Aerobic, Gram Positive rods	Complies	Microscopic
Bulk Density (Tapped)	0.30 – 1.0 gm/ml	0.65 gm/ml	USP<616>
Sieve Test	100% passes through 40 mesh	Passes 100%	USP <786>
Chemical Parameters			
Loss on Drying	NMT 5.0%	3.85%	USP<731>
Heavy Metals	NMT 10.0 ppm	Complies	AAS (AOAC) 19 th Edition
Lead (Pb)	NMT 2.0 ppm	0.4 ppm	AAS (AOAC) 19 th Edition
Arsenic (As)	NMT 3.0 ppm	0.3 ppm	AAS (AOAC) 19 th Edition
Mercury (Hg)	NMT 0.1 ppm	0.03 ppm	AAS (AOAC) 19 th Edition
Cadmium (Cd)	NMT 1.0 ppm	0.05 ppm	AAS (AOAC) 19 th Edition
Microbial Parameters			
Total Viable Count	NLT 20.0 Billion cfu/g	21.5 Billion cfu/g	<USP>
Lactic acid production	NLT 10.0 ml of 0.05N NaOH Consumed	14.8 ml	Titration
Yeast and Mould Count	NMT 100 Cfug	10 cfu/g	USP<2021>
Coliforms	Must be Absent/g	Absent/g	USP<2022>
<i>Staphylococcus aureus</i>	Must be Absent/10 g	Absent/10 g	USP<2022>
<i>Escherichia coli</i>	Must be Absent/10 g	Absent/10 g	USP<2022>
<i>Pseudomonas aeruginosa</i>	Must be Absent /10 g	Absent/10 g	USP<2022>
<i>Salmonella abony</i>	Must be Absent/ 10 g	Absent/10 g	USP<2022>
<i>Enterobacteriaceae</i>	Must be Absent/ 10 g	Absent/10 g	<USP 62>

REMARKS: The Sample Complies as per above Specifications