



**Communication Address**

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**CERTIFICATE OF ANALYSIS**

**Product** : PROVASIC™

**Product Code:** TPPL-PB-21B

**Active Ingredient** : *Lactobacillus plantarum* – 15 billion Cfug

**Mfg Date:** June 2018

**Batch No** : TPPL/17-18/Lp-004

**Exp Date:** Nov 2019

PARAMETERS	SPECIFICATION	RESULTS	METHOD
<b>Physical Parameters</b>			
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>
<b>Chemical Parameters</b>			
Loss on Drying	NMT 5.0%	3.85%	USP<731>
<b>Heavy Metals</b>	NMT 10.0 ppm	Complies	AAS (AOAC) 19 <sup>th</sup> Edition
Lead (Pb)	NMT 2.0 ppm	0.4 ppm	AAS (AOAC) 19 <sup>th</sup> Edition
Arsenic (As)	NMT 3.0 ppm	0.3 ppm	AAS (AOAC) 19 <sup>th</sup> Edition
Mercury (Hg)	NMT 0.1 ppm	0.03 ppm	AAS (AOAC) 19 <sup>th</sup> Edition
Cadmium (Cd)	NMT 1.0 ppm	0.05 ppm	AAS (AOAC) 19 <sup>th</sup> Edition
<b>Microbial Parameters</b>			
Total Viable Count	NLT 15.0 Billion cfu/g	15.9 Billion cfu/g	<USP>
Lactic acid production	NLT 10.0 ml of 0.05N NaOH Consumed	11.8 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