



Certificate of Analysis

107 Technology Drive • Lincolnton, NC 28092
(704) 276-7100 • Fax (704) 276-7101

Product Name: Leucidal® Liquid Complete
 Code Number: M15024
 Lot Number: 844300
 Manufacture Date: December 15, 2022
 Re-Test Date: December 15, 2023
 CAS #'s: 1686112-10-6 & 68333-16-4 & 8001-31-8
 EINECS #'s: N/A & N/A & 232-282-8
 INCI Name: Leuconostoc/Radish Root Ferment Filtrate & Lactobacillus & Cocos nucifera (Coconut) Fruit Extract

Specification	Parameter	Result
Appearance	Clear to Hazy Liquid	Pass
Color (Gardner)	6 Maximum	1
Odor	Characteristic	Pass
pH	5.0 – 9.0	7.8
NVM (1g-105°C-1hr)	37.0 – 46.0%	42.2
Phenolics (tested as Salicylic Acid) ¹	14.0 – 17.0%	15.4
Heavy Metals	< 20 ppm	< 20 ppm
Lead	< 10 ppm	< 10 ppm
Arsenic	< 2 ppm	< 2 ppm
Cadmium	< 1 ppm	< 1 ppm
Bacteriocins (HPLC)	0.10 – 0.50%	0.28
Minimum Inhibitory Concentration ² Organism (ATCC#)		
E. coli (#8739)	0.50 – 4.00%	Pass
S. aureus (#6538)	0.25 – 2.00%	Pass
P. aeruginosa (#9027)	0.25 – 2.00%	Pass
C. albicans (#10231)	0.25 – 2.00%	Pass
A. brasiliensis (#16404)	0.25 – 2.00%	Pass

DO NOT FREEZE; Store at or near room temperature;

Prior to use, container must be warmed to 35 - 40°C and mixed until clear.

May sediment upon standing

Product may change appearance if exposed to cold temperatures during shipment or storage. If this happens, please gently warm to 45-50°C and mix until normal appearance is restored.

Note:

- 1) Phenolic compounds of natural origin, tested as Salicylic acid via USP HPLC method.
- 2) Refer to Inhibition Activity Data

QA Signature _____ Emily Fitzpatrick

Date _____ December 22, 2022

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