

CERTIFICATE OF ANALYSIS

Reishi / Lingzhi Mushroom Extract (High Terpene) Product:

Botanical/Plant Material: Ganoderma lucidum

> Manufactured for: Mushroom Guru (Pty) Ltd

Production Date: 11 July 2017 Expiration Date: 11 July 2019

Lot Number: DV MGGL-EtOH:E 01-07/17
Country of Origin: South Africa

Harvesting protocol: In accordance with the conservation control authority of South Africa

SPECIFICATION		
	METHOD	RESULT
Antler	Visual	Pass/Verified
Crystalline Powder	Visual	Pass/Verified
Tan to Light Brown	Visual	Pass/Verified
Odour and Taste Characteristic	Organoleptic	Pass/Verified
50:1	S/L	Pass/Verified
Ganoderic Acids & Related Terpenes	HPLC	Pass/Verified
None	3 rd party CoA	Pass/Verified
Hot Water Soluble	Physical	Pass/Verified
NMT 5%	AOAC 950.46	2.2%
As per Reference Standard	TLC	Pass/Verified
140-220μm	Sieve	Complies
< 3.0ppm	AOAC 984.27	Complies
< 1.0ppm	AOAC 984.27	Complies
	, 10, 10 30 112,	Compiles
< 0.10ppm	AOAC 984.27	Complies
< 0.10ppm < 10cfu/g		•
• • • • • • • • • • • • • • • • • • • •	AOAC 984.27	Complies
< 10cfu/g	AOAC 984.27 ISO 4832	Complies Non-detected
< 10cfu/g < 1000cfu/g	AOAC 984.27 ISO 4832 MFHPB-18	Complies Non-detected Complies
< 10cfu/g < 1000cfu/g < 100cfu/g	AOAC 984.27 ISO 4832 MFHPB-18 AOAC 6.1:1997	Complies Non-detected Complies Complies
< 10cfu/g < 1000cfu/g < 100cfu/g Absent	AOAC 984.27 ISO 4832 MFHPB-18 AOAC 6.1:1997 ISO 16649-2	Complies Non-detected Complies Complies Non-detected
	Tan to Light Brown Odour and Taste Characteristic 50:1 Ganoderic Acids & Related Terpenes None Hot Water Soluble NMT 5% As per Reference Standard 140-220µm < 3.0ppm	Tan to Light Brown Odour and Taste Characteristic 50:1 Ganoderic Acids & Related Terpenes None Hot Water Soluble NMT 5% AOAC 950.46 As per Reference Standard 140-220μm AOAC 984.27

Please keep dry and away from direct sunlight!

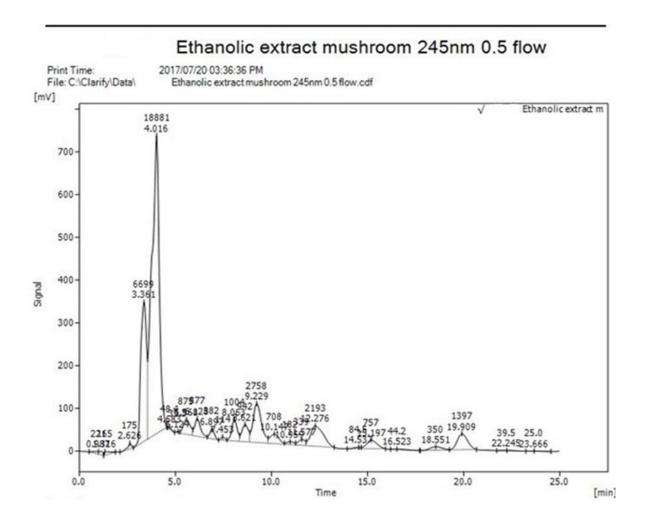
R P Davies 24 July 2017

This information is believed to be current and correct but is provided without any warranty expressed or implied. Customers are advised to determine in advance the safe conditions of use for this product.

P O BOX 2387 SOMERSET WEST 7129 TEL: +27 (0) 21 851 1015 FAX: +27 (0) 851 1013 www.vervedynamics.co.za

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HPLC Chromatograph



Method for Mushroom Guru

Column and size: Luna 5 µm C18, 150 x 4.6 mm

Flow: 0.5mL/min Detection: UV 245nm

Mobile phase: Methanol 90% (containing 0.5% acetic acid): Water 10%

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TLC

Chemical analysis of the extract

Preliminary chemical analysis of the extract was carried out to determine its major chemical constituents. The extract was tested for reaction with anthrone reagent (Yemm and Wills, 1954) and also the phenol-sulphuric acid reaction (Dubois et al., 1956), for detecting polysaccharide components. Thin layer chromatographic (TLC) analysis of extract was carried out on silica gel G using chloroform:methanol (90:10) as solvent system. The TLC plates were sprayed with vanillin-H2SO4 reagent or alcoholic FeCl3 for detecting terpenes and phenolic compounds.

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