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Client: **Oriveda BV**
ORIGO Holding BV
Amsterdam
NETHERLANDS

Certificate Code: **AR-24-CK-019564-01**
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Reported On: **08/08/2024 12:15**
PO reference:
Reported By: **Dhiraj Kamath**
Technical Manager

Certificate of Analysis

Sample number	885-2024-00019543	Received on	26/07/2024
		Analysis started on	08/08/2024
Your sample reference	#7 Lions Mane FRUITING BODY extract - L+ WE (Hericium erinaceus) Lot # 2024-27LMWE		
Sample Matrix	NUTRITIONAL SUPPLEMENT - SO		
Sample condition on arrival	Satisfactory		

Test Code		Analyte	Results	Units	Method Ref.
FS046	ǂ	Total Polyphenols	4.56	mg/g	
FS0A2	ǂ	Beta Glucan	39.4	%	

ǂ Indicates that the analysis was subcontracted and not accredited to ISO 17025

Opinions and/or interpretations within this report are outside our accreditation scope.

Unless otherwise stated, all results are expressed on a sample as received basis. Results reported are only representative of the sample portion which was tested.

Uncertainty of measurement has been calculated for all INAB accredited tests and is available at https://europortal.eurofinsfood.com/files

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CERTIFICATE OF ANALYSIS

12661 HOOVER STREET. GARDEN GROVE, CA 92841 | P. 714-754-4372 | F. 714-668-9972 | WWW.ALKEMIST.COM

Report Issued To: Oriveda BV
1054KL Amsterdam
The Netherlands

Sample Name: Oriveda Lion's Mane (fruiting body extract)
Description: Capsule powder; Capsules
Lot #: 2024-27LMWE
AL #: 24206HNN_1
Analysis ID: 235599
Received: 07/24/24

Determination of Heavy Metals Content by USP <233>

Element	Amount (µg/g)	USP <561> Limit (µg/g)	Result
Arsenic	0.022	2.0	Pass
Cadmium	0.014	0.5	Pass
Mercury	<0.010	1.0*	Pass
Lead	0.034	5.0	Pass

Chromatographic Conditions:

Method:	ATM-815-0307 (Validated by USP <233> Elemental Impurities – Procedures)
Preparation:	Microwave Digestion
Instrument:	ICP-MS

Sample Preparation:

Combined the contents of 5 capsules and mixed well. Transferred 500 mg of sample to a glass test tube. Added 4 mL nitric acid and 1 mL hydrochloric acid and shook well. Let sit for 30 minutes. Digested sample using microwave digestor. Let cool and transferred to a 50 mL Digitube and filled to volume with water. Mixed well and transferred to test tube for analysis.

Report Summary:

Conclusion:	This "Oriveda Lion's Mane (fruiting body extract)" test sample has 0.022 µg/g arsenic, 0.014 µg/g cadmium, <0.010 µg/g mercury, and 0.034 µg/g lead.
Fill Weight:	302.68 mg/capsule
OOS Reference:	N/A
Notes:	*Methylmercury determination is not necessary when the content for total mercury is less than the 0.2ppm limit for methylmercury.
MassHunter File:	21224 Heavy Metals

Analysis Date: 07/31/24 **Analyzed By: C Lopez**

Latrece Brown Lead Analytical Chemist
Digitally signed by Latrece Brown
Date: 2024.07.31 15:43:24 -07'00'

Authorized By: Latrece Brown, Lead Analytical Chemist

Legend

CAS	The CAS Registry Number is a unique identifier assigned by the Chemical Abstracts Service to chemical substances.
LOQ	Limit of quantification.
RL	Reporting limit.
LOD	Limit of detection.

FS046-1 Total Polyphenols

Technique	Spectrophotometry (UV/VIS)
Method	Polyphenols are extracted from the sample. The sample is reacted with Folic-Ciocalteu Reagent (FCR) at an alkaline pH to produce a chromophore that can be measured spectrophotometrically at 760 nm. Results are reported in units of mg/g gallic acid equivalents.
Method reference	Methods in Enzymology 1999, Vol. 299, Modified
Applied on	foods, drinks, tea leaves, premixes, and dietary supplements
Laboratory	Eurofins Food Chemistry Testing US Madison Not accredited

Parameters

Parameter	CAS	LOQ	RL	LOD
Total Polyphenols		2.00 mg/g	2.00 mg/g	

FS0A2-3 Beta Glucan (Megazyme K-YBGL Kit)

Aim	This test is not suitable for liquid based samples, samples containing cellulose, sample containing starch, mushrooms grown on cereal grains, and non-yeast/mushroom sources of beta glucan. Beta glucan concentration should be expected to be > 5%.
Technique	Enzymatic-spectrophotometry
Method	Beta Glucan with (1-3)(1-6)-beta-glucan linkage in mushroom and yeast products is analyzed using the Megazyme K-YBGL Kit.
Method reference	Megazyme K-YBGL
Applied on	mushroom and yeast products, beta glucan should be >5%.
Laboratory	Eurofins Food Chemistry Testing US Madison Not accredited

Parameters

Parameter	CAS	LOQ	RL	LOD
Method Reference				
Beta Glucan	9041-22-9			

11/10/2023

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