eurofins | Food Integrity & Innovation

Report Number:	**3765528-0**
Report Date:	**09-Aug-2022**
Report Status:	**Final**

Certificate of Analysis

Oriveda BV

Sample Name:	**#1 CCCE Mushroom extract blend**	**Eurofins Sample:**	**12014385**
Project ID	ORIVED_HAR-20220729-0001	**Receipt Date**	29-Jul-2022
PO Number	NA	**Receipt Condition**	Ambient temperature
Lot Number	2022-2023	**Login Date**	29-Jul-2022
		Date Started	04-Aug-2022
		Sampled	Sample results apply as received
		Number Composited	5

Analysis	**Result**
Beta Glucan	
Beta Glucan	44.0 %
Total Polyphenols	
Total Polyphenols (Gallic Acid Equivalents)	12.4 mg/g

Method References	**Testing Location**
Beta Glucan (MISCYBGL_S)	**Food Integrity Innovation-Madison** 6304 Ronald Reagan Ave Madison, WI 53704 USA
Megazyme Kit K-YBGL	
Total Polyphenols (TOTP_S)	**Food Integrity Innovation-Madison** 6304 Ronald Reagan Ave Madison, WI 53704 USA
Reference: Abelson, J. N, M. I. Simon, and H. Sies. "Oxidants and Antioxidants Part A." Methods of Enzymology. 299:152-178 (1999). (modified).	

Testing Location(s)	**Released on Behalf of Eurofins by**
Food Integrity Innovation-Madison	**Edward Ladwig - President Eurofins Food Chemistry Testing Madison**

Eurofins Food Chemistry Testing Madison, Inc.
6304 Ronald Reagan Ave
Madison WI 53704
800-675-8375

These results apply only to the items tested. This certificate of analysis shall not be reproduced, except in its entirety, without the written approval of Eurofins. Measurement uncertainty for individual analyses can be obtained upon request.

CERTIFICATE OF ANALYSIS

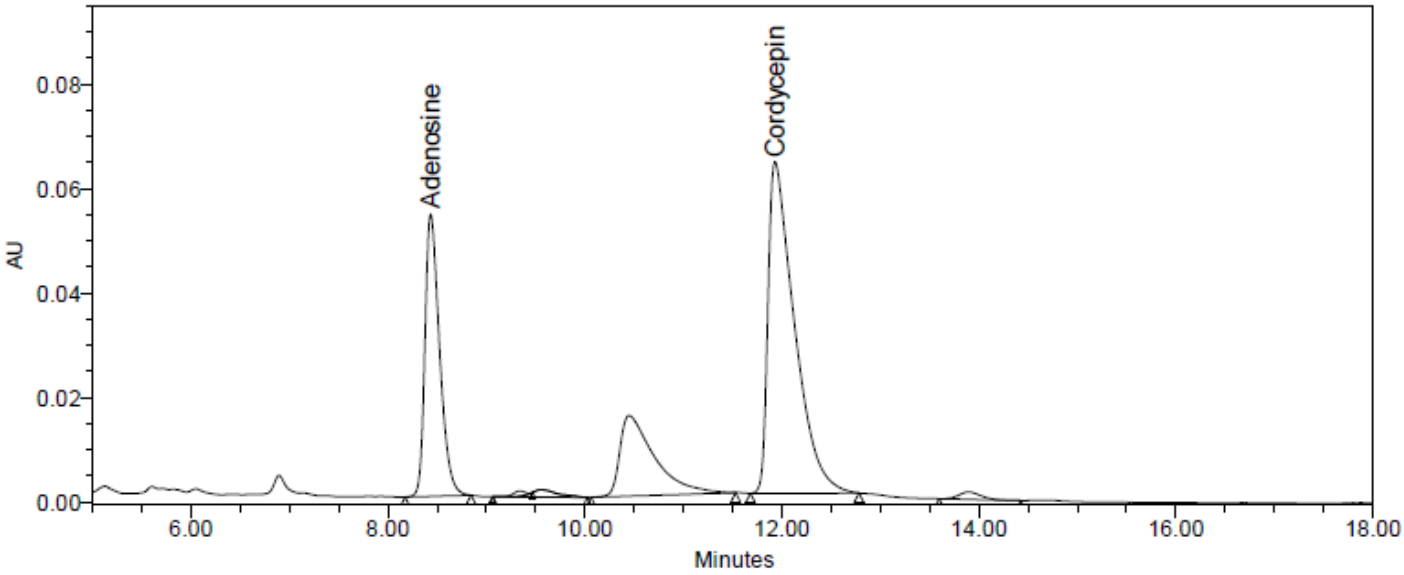
ALKEMIST LABS

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 CCCE
Description: Capsule powder; Capsule
Lot #: 2022-2024
AL #: 22213ETA_1
Analysis ID: 183200
Received: 08/01/22

Determination of Adenosine and Cordycepin Content by HPLC



Ret. Time (min)	Compound Name	Prep 1 (%)	Prep 2 (%)	Average (%)	Specification	Result
8.4	Adenosine	0.352	0.338	0.345	N/A	Pass
11.9	Cordycepin	0.788	0.772	0.780	NLT 0.5%	Pass

Chromatographic Conditions:

Method:	NY Agricultural Industry Standard of the People's
Column:	AP328 BDS Hypersil C18 5µm 250 x 4.6 mm (250 x 4.6 mm)
Temperature:	35°C
Flow Rate:	1 mL/min
Injection Volume:	10 µL
UV Detection:	260 nm
Mobile Phase:	Water Acetonitrile
HPLC Instrument:	Alliance_2

Sample Preparation:

Composited the contents of 10 capsules and mixed well. Transferred approximately 500 mg of sample into a 100 mL volumetric flask. Added 80 mL of water, vortexed 30 seconds and sonicated for 3 hours at room temperature. Let cool and filled to volume with water. Mixed by inversion and transferred an aliquot into a centrifuge tube. Centrifuged for 10 minutes and filtered a portion of supernatant into an HPLC vial for analysis.

Report Summary:

Conclusion:	This "Oriveda CCCE" test sample contains an average of 0.3% adenosine and 0.8% cordycepin on the as is basis.
OOS Reference:	N/A
Fill Weight:	352.03 mg
WI Reference:	22822 Cordycepin and Adenosine

Analysis Date : 08/18/22 **Analyzed By: S Wiesmann**

Authorized By: Diana Jimenez, Lead Analytical Chemist

This report applies to the sample investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. This report is for the exclusive use of the party who requested the report and not for public dissemination or use by third parties, including for promotional purposes, without the prior written permission of Alkemist Labs. This report provides technical results for a specific sample and the report shall not be altered, modified, supplemented or abstracted in any manner. Any violation of these conditions renders the report and its results void
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Data based on a sample analysis by CWC-Labs, USA, 02-2023 (attached)

CCCE Beta-Glucan blend

oriveda

2023	levels (ppb)	levels in mg/g	levels per serving (mcg / 1050 mg)
HEAVY METALS *			
Lead (Pb)	881.984	0.000881984	0.9261
Arsenic (As)	213.223	0.000213223	0.2239
Cadmium (Cd)	292.619	0.000292619	0.3072
Mercury (Hg)	0	0.000000000	0.0000
COMPOUNDS			
Manganese (Mn)	17682.328	0.017682328	18.5664
Zinc (Zn)	43874.403	0.043874403	46.0681
Magnesium (Mg)	795971.522	0.795971522	835.7701
Aluminum (Al)	60345.961	0.060345961	63.3633
Potassium (K)	17783949.004	17.783949004	18673.1465
Iron (Fe)	179212.297	0.179212297	188.1729
Copper (Cu)	7687.227	0.007687227	8.0716
Silver (Ag)	3.014	0.000003014	0.0032
Molybdenium (Mo)	125.731	0.000125731	0.1320
Selenium (Se)	142.872	0.000142872	0.1500
Nickel (Ni)	716.623	0.000716623	0.7525
Cromium (Cr)	1361.384	0.001361384	1.4295
Vanadium (V)	140.236	0.000140236	0.1472
Caesium (Cs-133)	95.811	0.000095811	0.1006
Strontium (Sr-88)	10523.161	0.010523161	11.0493
Uranium (U)	10.545	0.000010545	0.0111

ESSENTIAL NUTRIENTS with a recommended daily value (FDA)	nutrient levels per serving (mcg / 1050 mg)	FDA, recommended daily value (RDV in mcg), 4 years and older	percentage of RDV in this extract, per nutrient
Manganese (Mn)	18.5664	2000	0.93%
Zinc (Zn)	46.0681	15000	0.31%
Magnesium (Mg)	835.7701	400000	0.21%
Potassium (K)	18673.1465	3500000	0.53%
Iron (Fe)	188.1729	18000	1.05%
Copper (Cu)	8.0716	2000	0.40%
Molybdenium (Mo)	0.1320	75	0.18%
Selenium (Se)	0.1500	70	0.21%
Cromium (Cr)	1.4295	120	1.19%

ppd : parts per billion
mg : milligram; 1/1,000th of a gram
mcg : microgram: 1/1,000,000 of a gram
mcg/g : micrograms per gram
mg/g : milligrams per gram
serving: the recommended average daily dosage

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* There is a great variation in what are considered safe levels of heavy metals in food, worldwide. Ideally they should take into account both the intake and the body weight of a person. More information: https://is.gd/TLg3ha

Below are the official EU and World Health Organisation / Joint Expert Committee on Food Additives (WHO / JECFA) guidelines.

Arsenic: (Adult, 70 kgs: 150 mcg = daily limit)
Cadmium: (Adult, 70 kgs: 70 mcg daily = daily limit)
Lead: (Adult, 70 kgs: 250 mcg daily = daily limit)
Mercury: (Adult, 70 kgs: 16 mcg daily = daily limit)

Metals Analysis Report

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PJLA
ISO 17025:2017
ACCREDITATION # 83279

FullQuant Table

Element	Mass	Conc.	Units	RSD(%)	Det.
Mg	24	795971.522	ppb	2.7	Analog
Al	27	60345.961	ppb	2.1	Pulse
K	39	17783949.004	ppb	1.5	Analog
V	51	140.236	ppb	3.4	Pulse
Cr	52	1361.384	ppb	3.5	Pulse
Mn	55	17682.328	ppb	1.8	Pulse
Fe	56	179212.297	ppb	2.3	Analog
Ni	60	716.623	ppb	0.9	Pulse
Cu	63	7687.227	ppb	1.0	Pulse
Zn	66	43874.403	ppb	0.2	Pulse
As	75	213.223	ppb	3.1	Pulse
Se	78	142.872	ppb	25.1	Pulse
Sr	88	10523.161	ppb	0.4	Pulse
Mo	95	125.731	ppb	1.8	Pulse
Ag	107	3.014	ppb	27.9	Pulse
Cd	111	148.779	ppb	3.4	Pulse
Cd	114	143.840	ppb	2.9	Pulse
Cs	133	95.811	ppb	2.2	Pulse
Hg	200	<0.000	ppb	N/A	Pulse
Hg	201	<0.000	ppb	N/A	Pulse
Hg	202	<0.000	ppb	N/A	Pulse
Pb	206	298.739	ppb	3.4	Pulse
Pb	207	292.826	ppb	2.7	Pulse
Pb	208	290.419	ppb	1.4	Pulse
U	238	10.545	ppb	2.4	Pulse

ISTD Table:

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
He	Sc	45	742566.03	0.2	133.8	Pulse	0.6000	3
He	Ge	72	71733.67	1.9	117.5	Pulse	0.6000	3
He	In	115	589942.72	1.0	115.8	Pulse	0.6000	3
He	Te	125	77203.61	0.9	119.9	Pulse	0.6000	3
He	Tb	159	1634550.70	1.3	116.6	Analog	0.6000	3
He	Bi	209	810984.22	0.8	100.6	Pulse	0.6000	3

2/14/2023 4:15 PM