

Certificate of Analysis

Oriveda BV

XXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXX

Sample Name:	#1 CCCE mushroom extract blend	Eurofins Sample:	10739832
Project ID	ORIVED_HAR-20210705-0001	Receipt Date	05-Jul-2021
PO Number	N/A	Receipt Condition	Ambient temperature
Lot Number	2021-2023	Login Date	05-Jul-2021
Sample Serving Size		Date Started	09-Jul-2021
		Sampled	Sample results apply as received
		Number Composited	20

Analysis	Result
Beta Glucan	
Beta Glucan	34.9 %
Total Polyphenols	
Total Polyphenols (Gallic Acid Equivalents)	1.26 %

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

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	

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CERTIFICATE OF ANALYSIS

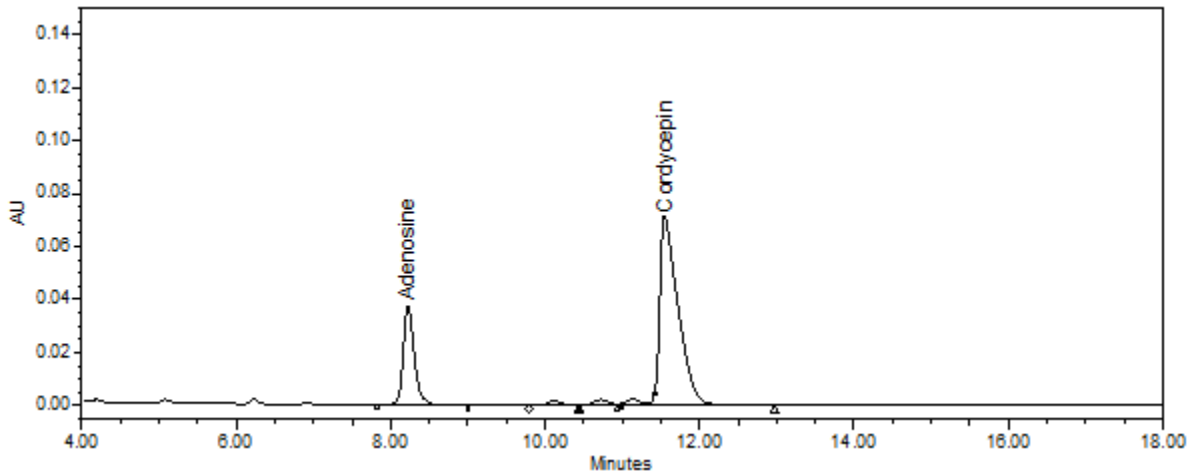


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Report Issued To: Oriveda BV
1054KL Amsterdam
The Netherlands

Sample Name: Orivedo CCCE
Description: Capsule powder; Fine Powder
Lot #: 2021-23
AL #: 21202LKT_1
Analysis ID: 161138
Received: 07/21/21

Determination of Adenosine and Cordycepin Content by HPLC



Ret. Time (min)	Compound Name	Prep 1 (%)	Prep 2 (%)	Average (%)	Specification	Result
8.4	Adenosine	0.235	0.235	0.235	N/A	N/A
12.0	Cordycepin	0.718	0.716	0.717	≥ 0.5%	Pass

Chromatographic Conditions:

Method: NY Agricultural Industry Standard of the People's Republic of China ICS 67.050 X 04 – Determination of Cordycepin and Adenosine in Cordyceps Products by High Performance Liquid Chromatography Method
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 6

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. Filtered a portion of supernatant into an HPLC vial for analysis.

Report Summary:

Conclusion: This "Orivedo CCCE" test sample contains an average of 0.2% adenosine and 0.7% cordycepin on the as is basis.
OOS Reference: N/A
Fill Weight: 352.37 mg
Empower Reference: 23721 Adenoside Cordycepin

Analysis Date : 08/26/21 **Analyzed By:** C Deneuve

Authorized By: Kirtal Chopra,
Laboratory Manager

CCCE Beta-Glucan blend

oriveda

2021	levels (ppb)	levels in mg/g	levels per serving (mcg / 1050 mg)
HEAVY METALS *			
Lead (Pb)	355.058	0.000355058	0.3728
Arsenic (As)	242.632	0.000242632	0.2548
Cadmium (Cd)	287.012	0.000287012	0.3014
Mercury (Hg)	0	0.000000000	0.0000
COMPOUNDS			
Manganese (Mn)	14884.95	0.014884950	15.6292
Zinc (Zn)	36765.252	0.036765252	38.6035
Magnesium (Mg)	754754.657	0.754754657	792.4924
Aluminum (Al)	30181.134	0.030181134	31.6902
Potassium (K)	13409024.46	13.409024460	14079.4757
Iron (Fe)	56217.014	0.056217014	59.0279
Copper (Cu)	5198.987	0.005198987	5.4589
Silver (Ag)	0	0.000000000	0.0000
Molybdenum (Mo)	72.546	0.000072546	0.0762
Selenium (Se)	0	0.000000000	0.0000
Nickel (Ni)	365.375	0.000365375	0.3836
Cromium (Cr)	400.989	0.000400989	0.4210
Vanadium (V)	105.416	0.000105416	0.1107
Caesium (Cs-133)	78.381	0.000078381	0.0823
Strontium (Sr-88)	6390.801	0.006390801	6.7103
Uranium (U)	4.925	0.000004925	0.0052

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)	15.6292	2000	0.78%
Zinc (Zn)	38.6035	15000	0.26%
Magnesium (Mg)	792.4924	400000	0.20%
Potassium (K)	14079.4757	3500000	0.40%
Iron (Fe)	59.0279	18000	0.33%
Copper (Cu)	5.4589	2000	0.27%
Molybdenum (Mo)	0.0762	75	0.10%
Selenium (Se)	0.0000	70	0.00%
Cromium (Cr)	0.4210	120	0.35%

ppb : 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

* 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)



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FullQuant Table

Element	Mass	Conc.	Units	RSD(%)	Det.
Mg	24	754754.657	ppb	1.9	Analog
Al	27	30181.134	ppb	2.3	Pulse
K	39	13409024.460	ppb	1.9	Analog
V	51	105.416	ppb	12.6	Pulse
Cr	52	400.989	ppb	3.5	Pulse
Mn	55	14884.950	ppb	1.9	Pulse
Fe	56	56217.014	ppb	1.2	Analog
Ni	60	365.375	ppb	6.6	Pulse
Cu	63	5198.987	ppb	1.6	Pulse
Zn	66	36765.252	ppb	2.0	Pulse
As	75	242.632	ppb	5.9	Pulse
Se	78	<0.000	ppb	N/A	Pulse
Sr	88	6390.801	ppb	1.7	Pulse
Mo	95	72.546	ppb	7.1	Pulse
Ag	107	<0.000	ppb	N/A	Pulse
Cd	111	149.074	ppb	16.5	Pulse
Cd	114	137.938	ppb	4.6	Pulse
Cs	133	78.381	ppb	5.6	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	117.528	ppb	5.6	Pulse
Pb	207	116.332	ppb	0.9	Pulse
Pb	208	121.198	ppb	0.8	Pulse
U	238	4.925	ppb	16.4	Pulse

ISTD Table:

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
He	Sc	45	109003.49	0.5	107.6	Pulse	0.6000	3
He	Ge	72	8914.71	0.7	99.5	Pulse	0.6000	3
He	In	115	69186.84	0.3	98.7	Pulse	0.6000	3
He	Te	125	8602.96	0.0	97.7	Pulse	0.6000	3
He	Tb	159	189881.26	0.4	102.5	Pulse	0.6000	3
He	Bi	209	91270.89	0.6	98.2	Pulse	0.6000	3