

## Certificate of Analysis

Oriveda BV

<b>Sample Name:</b>	<b>#2 Cordyceps extract - C+</b>	<b>Eurofins Sample:</b>	<b>12014386</b>
<b>Project ID</b>	ORIVED_HAR-20220729-0001	<b>Receipt Date</b>	29-Jul-2022
<b>PO Number</b>	NA	<b>Receipt Condition</b>	Ambient temperature
<b>Lot Number</b>	2022-2023	<b>Login Date</b>	29-Jul-2022
		<b>Date Started</b>	04-Aug-2022
		<b>Sampled</b>	Sample results apply as received
		<b>Number Composited</b>	5

Analysis	Result
<b>Beta Glucan</b>	
Beta Glucan	37.0 %
<b>Total Polyphenols</b>	
Total Polyphenols (Gallic Acid Equivalents)	17.3 mg/g

Method References	Testing Location
<b>Beta Glucan (MISCYBGL_S)</b>	<b>Food Integrity Innovation-Madison</b>
Megazyme Kit K-YBGL	6304 Ronald Reagan Ave Madison, WI 53704 USA
<b>Total Polyphenols (TOTP_S)</b>	<b>Food Integrity Innovation-Madison</b>
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
<b>Food Integrity Innovation-Madison</b>	<b>Edward Ladwig - President Eurofins Food Chemistry Testing Madison</b>
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

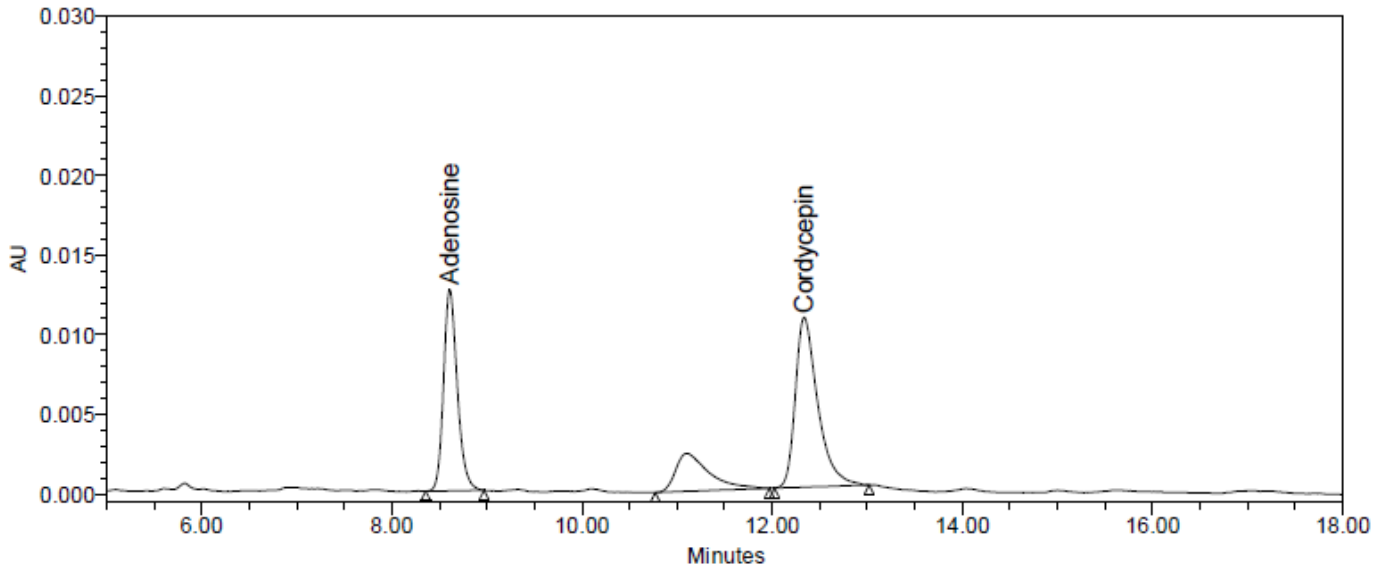


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**Report Issued To:** Oriveda BV  
1054KL Amsterdam  
The Netherlands

**Sample Name:** Oriveda Cordyceps C+  
**Description:** Capsule powder; Capsules  
**Lot #:** 2022-2024  
**AL #:** 22213HBJ\_1  
**Analysis ID:** 183197  
**Received:** 08/01/22

## Determination of Adenosine and Cordycepin Content by HPLC



Ret. Time (min)	Compound Name	Prep 1 (%)	Prep 2 (%)	Average (%)	Specification	Result
8.6	Adenosine	0.748	0.794	0.771	NLT 0.4%	Pass
12.3	Cordycepin	1.163	1.180	1.171	NLT 1.2%	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  
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. Diluted 1:10 in water.

### Report Summary:

Conclusion: This "Oriveda Cordyceps C+" test sample contains an average of 0.8% adenosine and 1.2% cordycepin on the as is basis.  
OOS Reference: N/A  
Fill Weight: 451.65 mg  
WI Reference: 22822 Cordycepin and Adenosine

Analysis Date : 08/18/22

Analyzed By: S Wiesmann

Authorized By: Diana Jimenez,  
Lead Analytical Chemist

**Cordyceps C+**

oriveda

2023	levels (ppb)	levels in mg/g	levels per serving (mcg / 900 mg)
<b>HEAVY METALS *</b>			
Lead (Pb)	743.582	0.000743582	0.6692
Arsenic (As)	165.07	0.000165070	0.1486
Cadmium (Cd)	193.579	0.000193579	0.1742
Mercury (Hg)	0	0.000000000	0.0000
<b>COMPOUNDS</b>			
Manganese (Mn)	17944.04	0.017944040	16.1496
Zinc (Zn)	52158.858	0.052158858	46.9430
Magnesium (Mg)	978844.747	0.978844747	880.9603
Aluminum (Al)	19905.443	0.019905443	17.9149
Potassium (K)	15890146.984	15.890146984	14301.1323
Iron (Fe)	202406.409	0.202406409	182.1658
Copper (Cu)	4664.905	0.004664905	4.1984
Silver (Ag)	0	0.000000000	0.0000
Molybdenum (Mo)	468.546	0.000468546	0.4217
Selenium (Se)	182.78	0.000182780	0.1645
Nickel (Ni)	2471.804	0.002471804	2.2246
Cromium (Cr)	539.516	0.000539516	0.4856
Vanadium (V)	91.493	0.000091493	0.0823
Caesium (Cs-133)	56.85	0.000056850	0.0512
Strontium (Sr-88)	27714.872	0.027714872	24.9434
Uranium (U)	13.43	0.000013430	0.0121

<b>ESSENTIAL NUTRIENTS with a recommended daily value (FDA)</b>	<b>nutrient levels per serving (mcg / 900 mg)</b>	<b>FDA, recommended daily value (RDV in mcg), 4 years and older</b>	<b>percentage of RDV in this extract, per nutrient</b>
Manganese (Mn)	16.1496	2000	0.81%
Zinc (Zn)	46.9430	15000	0.31%
Magnesium (Mg)	880.9603	400000	0.22%
Potassium (K)	14301.1323	3500000	0.41%
Iron (Fe)	182.1658	18000	1.01%
Copper (Cu)	4.1984	2000	0.21%
Molybdenum (Mo)	0.4217	75	0.56%
Selenium (Se)	0.1645	70	0.24%
Cromium (Cr)	0.4856	120	0.40%

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 (here: 900 mg daily (Adult, 70-80 kgs))

\* 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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## FullQuant Table

Element	Mass	Conc.	Units	RSD(%)	Det.
Mg	24	978844.747	ppb	2.3	Analog
Al	27	19905.443	ppb	4.9	Pulse
K	39	15890146.984	ppb	2.5	Analog
V	51	91.493	ppb	4.6	Pulse
Cr	52	539.516	ppb	1.9	Pulse
Mn	55	17944.040	ppb	1.5	Pulse
Fe	56	202406.409	ppb	1.2	Analog
Ni	60	2471.804	ppb	1.9	Pulse
Cu	63	4664.905	ppb	1.6	Pulse
Zn	66	52158.858	ppb	0.6	Pulse
As	75	165.070	ppb	3.6	Pulse
Se	78	182.780	ppb	13.2	Pulse
Sr	88	27714.872	ppb	1.7	Analog
Mo	95	468.546	ppb	1.4	Pulse
Ag	107	<0.000	ppb	N/A	Pulse
Cd	111	97.137	ppb	2.0	Pulse
Cd	114	96.442	ppb	0.5	Pulse
Cs	133	56.850	ppb	1.9	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	247.135	ppb	1.5	Pulse
Pb	207	248.099	ppb	2.6	Pulse
Pb	208	248.348	ppb	1.8	Pulse
U	238	13.430	ppb	3.9	Pulse

## ISTD Table:

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
He	Sc	45	747168.83	0.9	134.7	Pulse	0.6000	3
He	Ge	72	71830.18	0.7	117.7	Pulse	0.6000	3
He	In	115	596323.37	0.8	117.1	Pulse	0.6000	3
He	Te	125	80104.27	1.2	124.4	Pulse	0.6000	3
He	Tb	159	1657161.91	0.6	118.2	Analog	0.6000	3
He	Bi	209	824656.89	0.4	102.3	Pulse	0.6000	3