

## Certificate of Analysis

Oriveda BV

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<b>Sample Name:</b>	<b>#2 Cordyceps extract - C+</b>	<b>Eurofins Sample:</b>	<b>10739833</b>
<b>Project ID</b>	ORIVED_HAR-20210705-0001	<b>Receipt Date</b>	05-Jul-2021
<b>PO Number</b>	N/A	<b>Receipt Condition</b>	Ambient temperature
<b>Lot Number</b>	2021-2023	<b>Login Date</b>	05-Jul-2021
<b>Sample Serving Size</b>		<b>Date Started</b>	09-Jul-2021
		<b>Sampled</b>	Sample results apply as received
		<b>Number Composited</b>	20

Analysis	Result
<b>Beta Glucan</b>	
Beta Glucan	26.1 %
<b>Total Polyphenols</b>	
Total Polyphenols (Gallic Acid Equivalents)	0.491 %

Method References	Testing Location
<b>Beta Glucan (MISC_YBGL)</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

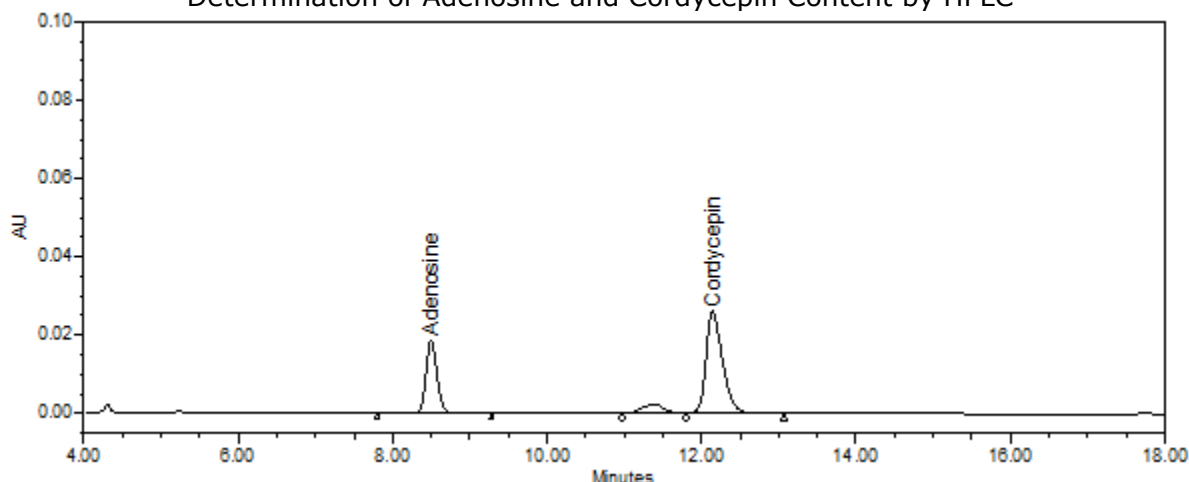


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**Report Issued To:** Oriveda BV  
1054KL Amsterdam  
The Netherlands

**Sample Name:** Oriveda Cordyceps C+  
**Description:** Capsule powder; Powder  
**Lot #:** 2021-23  
**AL #:** 21202GIU\_1  
**Analysis ID:** 161134  
**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	0.581	0.582	0.582	≥ 0.4%	Pass
12.0	Cordycepin	1.205	1.230	1.217	≥ 1.2%	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. Diluted 1:5 in water.

### Report Summary:

Conclusion: This "Oriveda Cordyceps C+" test sample contains an average of 0.6% adenosine and 1.2% cordycepin on the as is basis.  
OOS Reference: N/A  
Fill Weight: 460.71 mg  
Empower Reference: 23721 Adenoside Cordycepin

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

**Authorized By:** Kirtal Chopra,  
Laboratory Manager

**Cordyceps C+**

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2021	levels (ppb)	levels in mg/g	levels per serving (mcg / 900 mg)
<b>HEAVY METALS *</b>			
Lead (Pb)	182.147	0.000182147	0.1639
Arsenic (As)	126.918	0.000126918	0.1142
Cadmium (Cd)	76.614	0.000076614	0.0690
Mercury (Hg)	0	0.000000000	0.0000
<b>COMPOUNDS</b>			
Manganese (Mn)	13912.591	0.013912591	12.5213
Zinc (Zn)	34113.718	0.034113718	30.7023
Magnesium (Mg)	1260307.764	1.260307764	1134.2770
Aluminum (Al)	14114.596	0.014114596	12.7031
Potassium (K)	19342718.299	19.342718299	17408.4465
Iron (Fe)	46031.009	0.046031009	41.4279
Copper (Cu)	2349.15	0.002349150	2.1142
Silver (Ag)	0	0.000000000	0.0000
Molybdenum (Mo)	454.503	0.000454503	0.4091
Selenium (Se)	103.048	0.000103048	0.0927
Nickel (Ni)	2942.759	0.002942759	2.6485
Cromium (Cr)	485.185	0.000485185	0.4367
Vanadium (V)	79.38	0.000079380	0.0714
Caesium (Cs-133)	57.723	0.000057723	0.0520
Strontium (Sr-88)	15442.028	0.015442028	13.8978
Uranium (U)	21.457	0.000021457	0.0193

<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)	12.5213	2000	0.63%
Zinc (Zn)	30.7023	15000	0.20%
Magnesium (Mg)	1134.2770	400000	0.28%
Potassium (K)	17408.4465	3500000	0.50%
Iron (Fe)	41.4279	18000	0.23%
Copper (Cu)	2.1142	2000	0.11%
Molybdenum (Mo)	0.4091	75	0.55%
Selenium (Se)	0.0927	70	0.13%
Cromium (Cr)	0.4367	120	0.36%

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)



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### FullQuant Table

Element	Mass	Conc.	Units	RSD(%)	Det.
Mg	24	1260307.764	ppb	1.3	Analog
Al	27	14114.596	ppb	2.3	Pulse
K	39	19342718.299	ppb	1.6	Analog
V	51	79.380	ppb	11.1	Pulse
Cr	52	485.185	ppb	2.0	Pulse
Mn	55	13912.591	ppb	1.0	Pulse
Fe	56	46031.009	ppb	1.0	Pulse
Ni	60	2942.759	ppb	0.7	Pulse
Cu	63	2349.150	ppb	1.1	Pulse
Zn	66	34113.718	ppb	1.7	Pulse
As	75	126.918	ppb	12.6	Pulse
Se	78	103.048	ppb	85.7	Pulse
Sr	88	15442.028	ppb	1.2	Pulse
Mo	95	454.503	ppb	1.0	Pulse
Ag	107	<0.000	ppb	N/A	Pulse
Cd	111	42.677	ppb	2.1	Pulse
Cd	114	33.937	ppb	8.8	Pulse
Cs	133	57.723	ppb	8.4	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	65.370	ppb	7.6	Pulse
Pb	207	60.115	ppb	10.1	Pulse
Pb	208	56.662	ppb	1.7	Pulse
U	238	21.457	ppb	7.4	Pulse

### ISTD Table:

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
He	Sc	45	108085.45	2.4	106.7	Pulse	0.6000	3
He	Ge	72	8620.66	3.6	96.2	Pulse	0.6000	3
He	In	115	67045.96	1.7	95.7	Pulse	0.6000	3
He	Te	125	8806.41	3.2	100.1	Pulse	0.6000	3
He	Tb	159	186866.89	1.5	100.9	Pulse	0.6000	3
He	Bi	209	87718.47	0.6	94.4	Pulse	0.6000	3