

## Certificate of Analysis

Oriveda BV

|                            |   |                          |                                  |
|----------------------------|---|--------------------------|----------------------------------|
| <b>Sample Name:</b>        | <b>#8 ABM Extract (Agaricus Blazei Murrill)</b> | <b>Eurofins Sample:</b>  | <b>9471705</b>                   |
| <b>Project ID</b>          | ORIVED_HAR-20200427-0001                        | <b>Receipt Date</b>      | 27-Apr-2020                      |
| <b>PO Number</b>           | NA  | <b>Receipt Condition</b> | Ambient temperature              |
| <b>Lot Number</b>          | 2020  | <b>Login Date</b>        | 27-Apr-2020                      |
| <b>Sample Serving Size</b> |   | <b>Date Started</b>      | 30-Apr-2020                      |
|                            |   | <b>Sampled</b>           | Sample results apply as received |

| Analysis                                    | Result    |
|---|-----------|
| <b>Beta Glucan</b>                          |           |
| Beta Glucan                                 | 29.5 %    |
| <b>Total Polyphenols</b>                    |           |
| Total Polyphenols (Gallic Acid Equivalents) | 3.02 mg/g |

| Method References | Testing Location |
|-------------------|------------------|
|-------------------|------------------|

|                                |   |
|--------------------------------|---|
| <b>Beta Glucan (MISC_YBGL)</b> | <b>Food Integrity Innovation-Madison</b><br>3301 Kinsman Blvd Madison, WI 53704 USA |
|--------------------------------|---|

Megazyme Kit K-YBGL

|                                   |   |
|-----------------------------------|---|
| <b>Total Polyphenols (TOTP_S)</b> | <b>Food Integrity Innovation-Madison</b><br>3301 Kinsman Blvd 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 |
|---------------------|-----------------------------------|
|---------------------|-----------------------------------|

|  |                                 |
|--|---------------------------------|
| <b>Food Integrity Innovation-Madison</b> | <b>Edward Ladwig - Director</b> |
|--|---------------------------------|

Eurofins Food Chemistry Testing Madison, Inc.  
3301 Kinsman Blvd  
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.

**ABM EXTRACT**

oriveda

| 2020                  | levels (ppb) | levels in mg/g | levels per serving (mcg / 1050 mg) |
|-----------------------|--------------|----------------|------------------------------------|
| <b>HEAVY METALS *</b> |              |                |                                    |
| Lead (Pb)             | 91.596       | 0.000091596    | 0.0962                             |
| Arsenic (As)          | 1373.695     | 0.001373695    | 1.4424                             |
| Cadmium (Cd)          | 74.173       | 0.000074173    | 0.0779                             |
| Mercury (Hg)          | 0            | 0.000000000    | 0.0000                             |
| <b>COMPOUNDS</b>      |              |                |                                    |
| Manganese (Mn)        | 2293.299     | 0.002293299    | 2.4080                             |
| Zinc (Zn)             | 7375.064     | 0.007375064    | 7.7438                             |
| Magnesium (Mg)        | 475031.334   | 0.475031334    | 498.7829                           |
| Aluminum (Al)         | 6863.429     | 0.006863429    | 7.2066                             |
| Potassium (K)         | 20657389.732 | 20.657389732   | 21690.2592                         |
| Iron (Fe)             | 22988.367    | 0.022988367    | 24.1378                            |
| Copper (Cu)           | 2387.268     | 0.002387268    | 2.5066                             |
| Silver (Ag)           | 0            | 0.000000000    | 0.0000                             |
| Molybdenium (Mo)      | 103.338      | 0.000103338    | 0.1085                             |
| Selenium (Se)         | 423.44       | 0.000423440    | 0.4446                             |
| Nickel (Ni)           | 212.371      | 0.000212371    | 0.2230                             |
| Cromium (Cr)          | 123.21       | 0.000123210    | 0.1294                             |
| Vanadium (V)          | 74.783       | 0.000074783    | 0.0785                             |
| Caesium (Cs-133)      | 26.948       | 0.000026948    | 0.0283                             |
| Strontium (Sr-88)     | 735.51       | 0.000735510    | 0.7723                             |
| Uranium (U)           | 0            | 0.000000000    | 0.0000                             |

| <b>ESSENTIAL NUTRIENTS with a recommended daily value (FDA)</b> | <b>nutrient levels per serving (mcg / 1050 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)  | 2.4080   | 2000  | 0.12%  |
| Zinc (Zn)   | 7.7438   | 15000   | 0.05%  |
| Magnesium (Mg)  | 498.7829   | 400000  | 0.12%  |
| Potassium (K)   | 21690.2592   | 3500000   | 0.62%  |
| Iron (Fe)   | 24.1378  | 18000   | 0.13%  |
| Copper (Cu)   | 2.5066   | 2000  | 0.13%  |
| Molybdenium (Mo)  | 0.1085   | 75  | 0.14%  |
| Selenium (Se)   | 0.4446   | 70  | 0.64%  |
| Cromium (Cr)  | 0.1294   | 120   | 0.11%  |

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

\* 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



CWC Labs is an ISO 17025 accredited laboratory. See CWClabs.com for accreditation details.

This laboratory analysis data may not be reprinted, republished or cited in any form without prior written consent from CWC Labs.



**Operator:** E.C.

|                       |  |
|-----------------------|--|
| <b>File Name</b>      | 062SMPL.d  |
| <b>File Path</b>      | D:\Data\2020\2020-04-30 samples 6812 and up.b          |
| <b>Acq Time</b>       | 4/30/2020 7:11:02 PM                                   |
| <b>Sample Name</b>    | C1985  |
| <b>Sample Type</b>    | Sample   |
| <b>Comment</b>        | Oriveda ABM Extract 2020-04-29-23 Lot#VIDGF1HG2D8E4NDX |
| <b>Prep Dilution</b>  | 124.6261   |
| <b>Auto Dilution</b>  | 1.0000   |
| <b>Total Dilution</b> | 124.6261   |
| <b>Acq Mode</b>       | Spectrum   |
| <b>Cal Title</b>      | ---  |
| <b>Cal Type</b>       | External Calibration                                   |
| <b>Last Calib</b>     | 04/30/2020 20:06:46                                    |
| <b>Bkg File</b>       | 003_BKG.d  |
| <b>Bkg Mode</b>       | Count Subtraction except for ISTD                      |
| <b>FQ BlankFile</b>   | 018QBLK.d  |
| <b>VIS Fit</b>        | Linear   |



CWC Labs is an ISO 17025 accredited laboratory. See CWClabs.com for accreditation details.

This laboratory analysis data may not be reprinted, republished or cited in any form without prior written consent from CWC Labs.



### FullQuant Table

| Element | Mass | Conc.        | Units | RSD(%) | Det.   |
|---------|------|--------------|-------|--------|--------|
| Mg      | 24   | 475031.334   | ppb   | 1.5    | Analog |
| Al      | 27   | 6863.429     | ppb   | 3.1    | Pulse  |
| K       | 39   | 20657389.732 | ppb   | 0.2    | Analog |
| V       | 51   | 74.783       | ppb   | 1.3    | Pulse  |
| Cr      | 52   | 123.210      | ppb   | 6.2    | Pulse  |
| Mn      | 55   | 2293.299     | ppb   | 0.3    | Pulse  |
| Fe      | 56   | 22988.367    | ppb   | 0.3    | Pulse  |
| Ni      | 60   | 212.371      | ppb   | 4.2    | Pulse  |
| Cu      | 63   | 2387.268     | ppb   | 0.4    | Pulse  |
| Zn      | 66   | 7375.064     | ppb   | 2.2    | Pulse  |
| As      | 75   | 1373.695     | ppb   | 1.9    | Pulse  |
| Se      | 78   | 423.440      | ppb   | 10.4   | Pulse  |
| Sr      | 88   | 735.510      | ppb   | 0.6    | Pulse  |
| Mo      | 95   | 103.338      | ppb   | 4.7    | Pulse  |
| Ag      | 107  | <0.000       | ppb   | N/A    | Pulse  |
| Cd      | 111  | 34.908       | ppb   | 7.4    | Pulse  |
| Cd      | 114  | 39.265       | ppb   | 4.9    | Pulse  |
| Cs      | 133  | 26.948       | ppb   | 2.7    | 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  | 29.253       | ppb   | 12.9   | Pulse  |
| Pb      | 207  | 31.471       | ppb   | 4.5    | Pulse  |
| Pb      | 208  | 30.872       | ppb   | 3.1    | Pulse  |
| U       | 238  | <0.000       | ppb   | N/A    | Pulse  |

### ISTD Table:

| Tune Mode | Element | Mass | CPS       | RSD(%) | ISTD Recovery % | Det.  | Time(seq) | Rep |
|-----------|---------|------|-----------|--------|-----------------|-------|-----------|-----|
| He        | Sc      | 45   | 395141.02 | 1.7    | 117.5           | Pulse | 0.6000    | 3   |
| He        | Ge      | 72   | 40722.18  | 1.2    | 107.2           | Pulse | 0.6000    | 3   |
| He        | In      | 115  | 359972.42 | 1.0    | 104.5           | Pulse | 0.6000    | 3   |
| He        | Te      | 125  | 46478.06  | 0.8    | 105.7           | Pulse | 0.6000    | 3   |
| He        | Tb      | 159  | 769407.63 | 0.7    | 98.9            | Pulse | 0.6000    | 3   |
| He        | Bi      | 209  | 368228.27 | 0.5    | 86.3            | Pulse | 0.6000    | 3   |