

Certificate of Analysis

Morinda

737 East 1180 South
American Fork Utah 84003 United States

Sample Name:	Nhanced CBD Oil	Eurofins Sample:	8259497
Project ID	MORINDA-20190319-0008	Receipt Date	19-Mar-2019
PO Number	CVD	Receipt Condition	Ambient temperature
Lot Number	92020MTNC001	Login Date	19-Mar-2019
Sample Serving Size		Date Started	19-Mar-2019
Description	Sample ID 40464		

Analysis

Result

Industrial Hemp Cannabinoid Profile

CBDVA	<0.00250 %
CBDV	0.0195 %
CBDA	<0.00250 %
CBGA	<0.00250 %
CBG	0.0803 %
CBD	3.50 %
THCV	<0.00250 %
CBN	0.00340 %
Delta 9-THC	0.160 %
Delta 8-THC	<0.00500 %
THCA	<0.00250 %
CBC	0.0899 %
Total Cannabinoids	3.85 %

Elements by ICP Mass Spectrometry

Arsenic	<10.0 ppb
Cadmium	<5.00 ppb
Lead	<5.00 ppb
Mercury	<5.00 ppb

Mycotoxins in Raw Materials

Aflatoxin B1	<0.500 ppb
Aflatoxin B2	<0.500 ppb
Aflatoxin G1	<0.500 ppb
Aflatoxin G2	<0.500 ppb
Aflatoxin M1	<0.500 ppb
Aflatoxin M2	<0.500 ppb
Deoxynivalenol	<100 ppb
T-2 Toxin	<10.0 ppb
HT-2 Toxin	<100 ppb
Fumonisin B1	<25.0 ppb
Fumonisin B2	<25.0 ppb
Ochratoxin A	<1.00 ppb
Zearalenone	<30.0 ppb

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Analysis	Result
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Multi-Residue Analysis (500+ Compounds) including US tolerances and confirmation for residues near or above tolerances

Matrix Type - To Determine Limit of Quantification (LOQ)	High-Fat Food Matrices
Abamectin	non-analyzable
Chlorpropham (CIPC)	0.064 mg/kg (No tolerance established)
Fenuron	0.013 mg/kg (No tolerance established)
Flumethrin	non-analyzable
Nitralin	non-analyzable
Piperonyl butoxide	0.019 mg/kg (EPA Tol: 10 - Food, dried; when present as a result of migration from use on the outer ply of multiwall paper bags of 50 pounds or more capacity §180.127 (a)(2)(iii)(B))
Pyrethrum (total)	<0.50 mg/kg
Quizalofop	non-analyzable
Other tested pesticides	<0.05 mg/kg
Fenvalerate/Esfenvalerate (sum of isomers)	non-analyzable
Methoxychlor	non-analyzable

Analysis	LOQ	Limit	Result	Pass/Fail
Residual Solvents - Class 3 *				
1-Butanol	200 ppm	5000 ppm	<200 ppm	Pass
1-Pentanol	200 ppm	5000 ppm	<200 ppm	Pass
1-Propanol	200 ppm	5000 ppm	<200 ppm	Pass
2-Butanol	200 ppm	5000 ppm	<200 ppm	Pass
Methylethylketone	200 ppm	5000 ppm	<200 ppm	Pass
3-Methyl-1-butanol	200 ppm	5000 ppm	<200 ppm	Pass
Acetic Acid Butyl Ester	200 ppm	5000 ppm	<200 ppm	Pass
Acetone	200 ppm	5000 ppm	<200 ppm	Pass
Anisole	200 ppm	5000 ppm	<200 ppm	Pass

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Analysis	LOQ	Limit	Result	Pass/Fail
Residual Solvents - Class 3 *				
Diethyl Ether	200 ppm	5000 ppm	<200 ppm	Pass
Ethanol	200 ppm	5000 ppm	<200 ppm	Pass
Ethyl Acetate	200 ppm	5000 ppm	<200 ppm	Pass
Ethyl Formate	500 ppm	5000 ppm	<500 ppm	Pass
2-Methyl-1-propanol	200 ppm	5000 ppm	<200 ppm	Pass
Isobutyl Acetate	200 ppm	5000 ppm	<200 ppm	Pass
2-Propanol	200 ppm	5000 ppm	<200 ppm	Pass
Isopropyl Acetate	200 ppm	5000 ppm	<200 ppm	Pass
Methyl Acetate	200 ppm	5000 ppm	<200 ppm	Pass
Methylisobutylketone	200 ppm	5000 ppm	<200 ppm	Pass
tert-Butylmethyl Ether	200 ppm	5000 ppm	<200 ppm	Pass
n-Heptane	200 ppm	1000 ppm	<200 ppm	Pass
n-Pentane	200 ppm	200 ppm	<200 ppm	Pass
Propyl Acetate	200 ppm	5000 ppm	<200 ppm	Pass
Total Class 3 Residual Solvents	5000 ppm	5000 ppm	<5000 ppm	Pass

Method References

Testing Location

Elements by ICP Mass Spectrometry (ICP_MS_S)

Food Integrity Innovation-Madison

Official Methods of Analysis, Method 2011.19 and 993.14, AOAC INTERNATIONAL, (Modified).

Pequette, L.H., Szabo, A., Thompson, J.J., "Simultaneous Determination of Chromium, Selenium, and Molybdenum in Nutritional Products by Inductively Coupled Plasma/Mass Spectrometry: Single-Laboratory Validation," Journal of AOAC International, 94(4): 1240 - 1252 (2011).

Industrial Hemp Cannabinoid Profile (IHCBD_S)

Food Integrity Innovation-Boulder

Vaclavik, L., Benes, F., Krmela, A., Svobodova, V., Hajslova, J., Mastovska, K., "Quantification of Cannabinoids in Cannabis Dried Plant Materials and Concentrates Using Liquid Chromatography-Diode Array Detection Technique with Optional Mass Spectrometric Detection: A Single Laboratory Validation Study", submitted for AOAC SMPR 2017.001 and 2017.002.

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Method References	Testing Location
<p>Multi-Residue Analysis (500+ Compounds) including US tolerances and confirmation for residues near or above tolerances (PS05_SA_S) <i>Official Methods of Analysis, AOAC Official Method 2007.01</i>, Pesticide Residues in Foods by Acetonitrile Extraction and Partitioning with Magnesium Sulfate, AOAC INTERNATIONAL (modified).</p>	<p>Food Integ. Innovation-Greenfield</p>
<p><i>CEN Standard Method EN 15662</i>: Food of plant origin - Determination of pesticide residues using GC-MS and/or LC-MS/MS following acetonitrile extraction/partitioning and clean-up by dispersive SPE - QuEChERS method. List of the tested pesticides and their limits of quantification (LOQs) are available upon request.</p>	
<p>Mycotoxins in Raw Materials (MYCO_REG_S) Varga, E., Glauner, T., Koppen, R., Mayer, K., Sulyok, M., Schumacher, R., Krska, R. and Berthiller, F., "Stable isotope dilution assay for the accurate determination of mycotoxins in maize by UHPLC-MS/MS," Analytical and BioAnalytical Chemistry, 402:2675-2686 (2012).</p>	<p>Food Integrity Innovation-Madison</p>
<p>Residual Solvents - Class 3 (USPR_S) United States Pharmacopeia, 38nd Rev. - National Formulary 33th Ed., Method <467>, USP Convention, Inc., Rockville, MD (2015). (Modified).</p>	<p>Food Integrity Innovation-Madison</p>

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Testing Location(s)

Released on Behalf of Eurofins by

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