

Eurofins Microbiology Laboratory (Colorado)

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 Lafayette, Colorado 80026
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 Micro-Colorado@eurofinsUS.com

CW Hemp - 01

Client Code: EI0000238
PO#: QC 325

Breanna Lash
 700 Tech Ct
 Louisville, CO 80027

ANALYTICAL REPORT

AR-23-EI-014083-01

Received On: 10Aug2023
Reported On: 15Aug2023

Eurofins Sample Code: 397-2023-08100029	Sample Registration Date: 10Aug2023
Client Sample Code: 230802-56111-30 - Composite	Condition Upon Receipt: acceptable, 20.1°C
Sample Description: 10mg Recovery Gummy 30ct	Sample Reference:

UM5DP - Total Coliforms - AOAC 991.14	Reference AOAC 991.14	Accreditation ISO/IEC 17025:2017 A2LA 3329.11	Completed 12Aug2023
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Parameter	Result
Coliforms	< 10 cfu/g

Parameter	Result
Escherichia coli	< 10 cfu/g

UMDTC - Salmonella species - AOAC-RI 121501	Reference AOAC-RI 121501	Accreditation ISO/IEC 17025:2017 A2LA 3329.11	Completed 11Aug2023
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Parameter	Result
Salmonella	Not Detected per 25 g

UMJI2 - Yeast - FDA BAM Chapter 18 mod.	Reference FDA BAM Chapter 18 mod.	Accreditation ISO/IEC 17025:2017 A2LA 3329.11	Completed 15Aug2023
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Parameter	Result
Yeast	< 10 cfu/g

Parameter	Result
Moulds	< 10 cfu/g

UMMFL - Aerobic Plate Count - AOAC 966.23	Reference AOAC 966.23	Accreditation ISO/IEC 17025:2017 A2LA 3329.11	Completed 12Aug2023
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Parameter	Result
Aerobic Plate Count	< 10 cfu/g

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Louisville, CO 80027

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AR-23-EI-014083-01

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Received On: 10Aug2023
Reported On: 15Aug2023

Respectfully Submitted,



Jake Gilgen
Laboratory Supervisor 4-565

Results shown in this report relate solely to the item submitted for analysis. | Any opinions/interpretations expressed on this report are given independent of the laboratory's scope of accreditation. | All results are reported on an "As Received" basis unless otherwise stated. | Reports shall not be reproduced except in full without written permission of Eurofins Scientific, Inc. | All work done in accordance with Eurofins General Terms and Conditions of Sale: www.eurofinsus.com/terms_and_conditions.pdf | √ Indicates a subcontract test to a different lab. Lab(s) are listed at end of the report. For further details about the performing labs please contact your customer service contact at Eurofins. Measurement of uncertainty can be obtained upon request.



CONTROLLED FORM	
DOCUMENT NUMBER: QA-FM-044	SOP: QS-009

Batch Number: 230802-56111-30

By/Date SRF 25 AUG 23

SRF 25 AUG 23 SRF 25 AUG 23

<p>25.Aug 2023 06:47 Balance ID 0094</p> <hr style="border-top: 1px dashed black;"/> <p>Sample ID RECOVERY30-1 4.09 g</p>	<p>25.Aug 2023 06:48 Balance ID 0094</p> <hr style="border-top: 1px dashed black;"/> <p>Sample ID RECOVERY30-6 4.12 g</p>
<p>25.Aug 2023 06:47 Balance ID 0094</p> <hr style="border-top: 1px dashed black;"/> <p>Sample ID RECOVERY30-2 4.08 g</p>	<p>25.Aug 2023 06:48 Balance ID 0094</p> <hr style="border-top: 1px dashed black;"/> <p>Sample ID RECOVERY30-7 4.11 g</p>
<p>25.Aug 2023 06:48 Balance ID 0094</p> <hr style="border-top: 1px dashed black;"/> <p>Sample ID RECOVERY30-3 4.08 g</p>	<p>25.Aug 2023 06:49 Balance ID 0094</p> <hr style="border-top: 1px dashed black;"/> <p>Sample ID RECOVERY30-8 4.09 g</p>
<p>25.Aug 2023 06:48 Balance ID 0094</p> <hr style="border-top: 1px dashed black;"/> <p>Sample ID RECOVERY30-4 4.06 g</p>	<p>25.Aug 2023 06:49 Balance ID 0094</p> <hr style="border-top: 1px dashed black;"/> <p>Sample ID RECOVERY30-9 4.09 g</p>
<p>25.Aug 2023 06:48 Balance ID 0094</p> <hr style="border-top: 1px dashed black;"/> <p>Sample ID RECOVERY30-5 4.08 g</p>	<p>25.Aug 2023 06:49 Balance ID 0094</p> <hr style="border-top: 1px dashed black;"/> <p>Sample ID RECOVERY3010 4.05 g</p>

Average ≈ 4.1g / gummy
SRF 25 AUG 23

Donjes Emericame

Donjes Emericame

Performed By/Date: SRF 25 AUG 23

Reviewed By/Date: EVE 28 AUG 23

Form No.	QS-FM-044
Version No.	0

Prepared for:

10mg Recovery Gummy Bulk

CWB HOLDINGS, INC

Batch ID or Lot Number: 230802-54111	Test: Potency	Reported: 8/16/23	Location: 700 Tech Ct. Louisville, CO 80027
Matrix: Concentrate	Test ID: t000252173	Started: 8/16/23	USDA License: N/A
Status: Active	Method: TM14 (HPLC-DAD): Potency - Broad Spectrum Analysis, 0.01% THC	Received: 08/09/2023 @ 11:26 AM	Sampler ID: N/A

CANNABINOID PROFILE

Compound	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.004	0.009	ND	ND	Total THC is ND per serving (2 gummies).
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.005	0.010	ND	ND	
Cannabidiolic acid (CBDA)	0.029	0.065	ND	ND	
Cannabidiol (CBD)	0.028	0.064	0.133	1.33	Total THC is ND per container (6ct).
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.030	0.069	ND	ND	
Cannabinolic Acid (CBNA)	0.017	0.039	ND	ND	
Cannabinol (CBN)	0.008	0.018	ND	ND	Total THC is ND per container (30ct).
Cannabigerolic acid (CBGA)	0.025	0.058	ND	ND	
Cannabigerol (CBG)	0.006	0.014	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.021	0.049	ND	ND	Total THC is ND per container (60ct).
Tetrahydrocannabivarin (THCV)	0.005	0.013	ND	ND	
Cannabivarinic Acid (CBDVA)	0.012	0.027	ND	ND	
Cannabivarin (CBDV)	0.007	0.015	ND	ND	Total THC is ND per container (90ct).
Cannabichromenic Acid (CBCA)	0.010	0.022	ND	ND	
Cannabichromene (CBC)	0.011	0.024	ND	ND	
Total Cannabinoids			0.133	1.33	
Total Potential THC**			ND	ND	
Total Potential CBD**			0.133	1.33	

Samantha Smith
Sam Smith
16-Aug-23
4:24 PM

K Winterheimer
Karen Winterheimer
16-Aug-23
4:31 PM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)

** Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step.

Total THC = THC + (THCa * (0.877)) and

Total CBD = CBD + (CBDA * (0.877))

Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

ND = None Detected (Defined by Dynamic Range of the method)

Testing results are based solely upon the sample submitted to SC Laboratories, Inc. SC Laboratories, Inc warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. All decision rulings are in accordance with the MED and results uploaded to METRC. This report may not be reproduced, except in full, without the written approval of SC Laboratories, Inc. ISO/IEC 17025:2017 Accredited A2LA Certificate Number 4329.01



CDPHE Certified



Certificate #4329.02



MS Bioanalytical, LLC
60 Hazelwood Drive
Champaign, IL 61820

Report Date: 08/28/2023

Certificate of Analysis

Charlotte's Web
2425 55th St. Ste.100
Boulder, CO 80301

Sample Information

Product Name	Product Lot#	MSB Control#	Date Received	PO.#	Storage Condition
10mg Recovery Gummy Bulk	230802-54111	08092023-016	08/09/2023	QC 325	RM

Analytes and Results

Analyte Name	Test Method	Estimated Level	Results
Total Curcuminoids	STM-3.11 (HPLC-UV)	50-60 mg/serving	50.5 mg/serving

Lab Director
08/28/2023

Date Completed
08/28/2023

Note: These results apply only to the samples received and tested. This certificate of analysis shall not be reproduced, except in its entirety, without the written approval of MS Bioanalytical.

Certificate of Analysis

Charlotte's Web, Inc.

700 Tech Court
Louisville Colorado 80027 United States

Sample Name:	230802-54111	Eurofins Sample:	13202248
Project ID	CHARLO_WEB-20230808-0184	Receipt Date	09-Aug-2023
PO Number	QC 325	Receipt Condition	Ambient temperature
Description	10mg Recovery Gummy Bulk MFG: August 2 2023 Expiration: 30ct 60ct and 90ct August 2 2025 6 ct: February 2 2024	Login Date	08-Aug-2023
		Date Started	09-Aug-2023
		Sampled	Sample results apply as received
		Online Order	901-2023-E048535

Analysis	Result
Elements by ICP Mass Spectrometry	
Arsenic	<10.0 ppb
Cadmium	<5.00 ppb
Mercury	<5.00 ppb
Lead	<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
Ochratoxin A	<1.00 ppb
Sum of B1 B2 G1 and G2	<2.00 ppb
Glyphosate and AMPA	
Glyphosate	<10.0 ng/g
AMPA	<10.0 ng/g

Analysis	Limit	Result	Pass/Fail
BCC - Residual Solvent Analysis in Cannabis and Hemp Matrices			
Category I Residual Solvent or Processing Chemical			
1,2-Dichloroethane	1.0 ppm	<1.0 ppm	Pass
Benzene	1.0 ppm	<1.0 ppm	Pass
Chloroform	1.0 ppm	<1.0 ppm	Pass
Ethylene Oxide	25.0 ppm	<25.0 ppm	Pass
Methylene Chloride	1.0 ppm	<1.0 ppm	Pass
Trichloroethylene	1.0 ppm	<1.0 ppm	Pass
The BCC limit of 1 ppm for Ethylene Oxide is not achieved by this method. Reporting limit of 25 ppm is the limit recommended by the AOAC CASP.			
Category II Residual Solvent or Processing Chemical			
Isopropal Alcohol	5000 ppm	<500 ppm	Pass
Acetone	5000 ppm	<200 ppm	Pass
Acetonitrile	410 ppm	<200 ppm	Pass

Certificate of Analysis

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700 Tech Court
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Sample Name:	230802-54111	Eurofins Sample:	13202248
Project ID	CHARLO_WEB-20230808-0184	Receipt Date	09-Aug-2023
PO Number	QC 325	Receipt Condition	Ambient temperature
Description	10mg Recovery Gummy Bulk MFG: August 2 2023 Expiration: 30ct 60ct and 90ct August 2 2025 6 ct: February 2 2024	Login Date	08-Aug-2023
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		Sampled	Sample results apply as received
		Online Order	901-2023-E048535

Analysis	Limit	Result	Pass/Fail
BCC - Residual Solvent Analysis in Cannabis and Hemp Matrices			
Ethanol	5000 ppm	<1000 ppm	Pass
Ethyl Acetate	5000 ppm	<500 ppm	Pass
Ethyl Ether	5000 ppm	<500 ppm	Pass
Methanol	3000 ppm	<500 ppm	Pass
Butane	5000 ppm	<500 ppm	Pass
Heptane	5000 ppm	<50.0 ppm	Pass
Hexane	290 ppm	<30.0 ppm	Pass
Pentane	5000 ppm	<25.0 ppm	Pass
Propane	5000 ppm	<1000 ppm	Pass
Toluene	890 ppm	<90.0 ppm	Pass
Xylenes (ortho-, meta-, para-)	2170 ppm	<160 ppm	Pass
The Pass/Fail reporting designations are relative to the limits set forth by the Bureau of Cannabis Control, Title 16, Division 42.			
Summed Group 1 (Butanes)			
Isobutane (2-Methylpropane)		<500 ppm	
Summed Group 2 (Heptanes)			
2,2,3-Trimethylbutane		<50.0 ppm	
2,3-Dimethylpentane		<50.0 ppm	
2,4-Dimethylpentane		<50.0 ppm	
2-Methylhexane		<50.0 ppm	
3,3-Dimethylpentane		<50.0 ppm	
3-Ethylpentane		<50.0 ppm	
3-Methylhexane		<50.0 ppm	
Summed Group 3 (Petroleum Ether)			
2,2-Dimethylbutane		<25.0 ppm	
2,3-Dimethylbutane		<25.0 ppm	
2-Methylpentane		<25.0 ppm	
3-Methylpentane		<25.0 ppm	
Summed Group 4 (Xylenes)			
Xylenes-1 (Ethylbenzene)		<40.0 ppm	

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PO Number	QC 325	Receipt Condition	Ambient temperature
Description	10mg Recovery Gummy Bulk MFG: August 2 2023 Expiration: 30ct 60ct and 90ct August 2 2025 6 ct: Feburary 2 2024	Login Date	08-Aug-2023
		Date Started	09-Aug-2023
		Sampled	Sample results apply as received
		Online Order	901-2023-E048535

Analysis	Limit	Result	Pass/Fail
Multi-Residue Analysis for hemp products - BCC Pesticide List			
Abamectin	0.3 mg/kg	<0.30 mg/kg	Pass
Acephate	5 mg/kg	<0.10 mg/kg	Pass
Acequinocyl	4 mg/kg	<1.0 mg/kg	Pass
Acetamiprid	5 mg/kg	<0.10 mg/kg	Pass
Aldicarb	0.1 mg/kg	<0.10 mg/kg	Pass
Aldicarb sulfone (Aldoxycarb)	0.1 mg/kg	<0.10 mg/kg	Pass
Aldicarb sulfoxide	0.1 mg/kg	<0.10 mg/kg	Pass
Azoxystrobin	40 mg/kg	<0.10 mg/kg	Pass
Bifenazate	5 mg/kg	<0.10 mg/kg	Pass
Bifenthrin	0.5 mg/kg	<0.10 mg/kg	Pass
Boscalid	10 mg/kg	<0.10 mg/kg	Pass
Captan	5 mg/kg	<0.20 mg/kg	Pass
Carbaryl	0.5 mg/kg	<0.10 mg/kg	Pass
Carbofuran	0.1 mg/kg	<0.10 mg/kg	Pass
Carbofuran-3-hydroxy-	0.1 mg/kg	<0.10 mg/kg	Pass
Chlorantraniliprole	40 mg/kg	<0.10 mg/kg	Pass
Chlordane, cis-	0.1 mg/kg	<0.10 mg/kg	Pass
Chlordane, trans-	0.1 mg/kg	<0.10 mg/kg	Pass
Chlorfenapyr	0.1 mg/kg	<0.10 mg/kg	Pass
Chlorpyrifos	0.1 mg/kg	<0.10 mg/kg	Pass
Clofentezine	0.5 mg/kg	<0.10 mg/kg	Pass
Coumaphos	0.1 mg/kg	<0.10 mg/kg	Pass
Cyfluthrin	1 mg/kg	<0.10 mg/kg	Pass
Cypermethrin	1 mg/kg	<0.10 mg/kg	Pass
Diazinon	0.2 mg/kg	<0.10 mg/kg	Pass
Dichlorvos	0.1 mg/kg	<0.10 mg/kg	Pass
Dimethoate	0.1 mg/kg	<0.10 mg/kg	Pass
Dimethomorph	20 mg/kg	<0.10 mg/kg	Pass
Ethoprophos	0.1 mg/kg	<0.10 mg/kg	Pass
Etofenprox	0.1 mg/kg	<0.10 mg/kg	Pass

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Louisville Colorado 80027 United States

Sample Name:	230802-54111	Eurofins Sample:	13202248
Project ID	CHARLO_WEB-20230808-0184	Receipt Date	09-Aug-2023
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		Date Started	09-Aug-2023
		Sampled	Sample results apply as received
		Online Order	901-2023-E048535

Analysis	Limit	Result	Pass/Fail
Multi-Residue Analysis for hemp products - BCC Pesticide List			
Etoxazole	1.5 mg/kg	<0.10 mg/kg	Pass
Fenoxycarb	0.1 mg/kg	<0.10 mg/kg	Pass
Fenpyroximate	2 mg/kg	<0.10 mg/kg	Pass
Fipronil	0.1 mg/kg	<0.10 mg/kg	Pass
Fipronil desulfinyl	0.1 mg/kg	<0.10 mg/kg	Pass
Fipronil sulfone	0.1 mg/kg	<0.10 mg/kg	Pass
Fonicamid	2 mg/kg	<0.10 mg/kg	Pass
Fludioxonil	30 mg/kg	<0.10 mg/kg	Pass
Hexythiazox	2 mg/kg	<0.10 mg/kg	Pass
Imazalil	0.1 mg/kg	<0.10 mg/kg	Pass
Imidacloprid	3 mg/kg	<0.10 mg/kg	Pass
Kresoxim-methyl	1 mg/kg	<0.10 mg/kg	Pass
Malathion	5 mg/kg	<0.10 mg/kg	Pass
Metalaxyl	15 mg/kg	<0.10 mg/kg	Pass
Methiocarb	0.1 mg/kg	<0.10 mg/kg	Pass
Methiocarb sulfone	0.1 mg/kg	<0.10 mg/kg	Pass
Methiocarb sulfoxide	0.1 mg/kg	<0.10 mg/kg	Pass
Methomyl	0.1 mg/kg	<0.10 mg/kg	Pass
Mevinphos	0.1 mg/kg	<0.10 mg/kg	Pass
Myclobutanil	9 mg/kg	<0.10 mg/kg	Pass
Naled	0.5 mg/kg	<0.10 mg/kg	Pass
Oxamyl	0.2 mg/kg	<0.10 mg/kg	Pass
Paclobutrazol	0.1 mg/kg	<0.10 mg/kg	Pass
Methyl parathion	0.1 mg/kg	<0.10 mg/kg	Pass
Pentachloroaniline	0.2 mg/kg	<0.10 mg/kg	Pass
Pentachlorobenzene	0.2 mg/kg	<0.10 mg/kg	Pass
Pentachlorobenzonitrile	0.2 mg/kg	<0.10 mg/kg	Pass
Pentachlorothioanisole	0.2 mg/kg	<0.10 mg/kg	Pass
Permethrin	20 mg/kg	<0.10 mg/kg	Pass
Phosmet	0.2 mg/kg	<0.10 mg/kg	Pass

Certificate of Analysis

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700 Tech Court
Louisville Colorado 80027 United States

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Analysis	Limit	Result	Pass/Fail
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Multi-Residue Analysis for hemp products - BCC Pesticide List

Piperonylbutoxide	8 mg/kg	<0.10 mg/kg	Pass
Prallethrin	0.4 mg/kg	<1.0 mg/kg	Pass
Propiconazole (sum of isomers)	20 mg/kg	<0.10 mg/kg	Pass
Propoxur	0.1 mg/kg	<0.10 mg/kg	Pass
Pyrethrins	1 mg/kg	<1.0 mg/kg	Pass
Pyridaben	3 mg/kg	<0.10 mg/kg	Pass
Pentachloronitrobenzene	0.2 mg/kg	<0.10 mg/kg	Pass
Spinetoram	3 mg/kg	<0.10 mg/kg	Pass
Spinosad	3 mg/kg	<0.10 mg/kg	Pass
Spiromesifen	12 mg/kg	<0.10 mg/kg	Pass
Spirotetramat	13 mg/kg	<0.10 mg/kg	Pass
Spiroxamine	0.1 mg/kg	<0.10 mg/kg	Pass
Tebuconazole	2 mg/kg	<0.10 mg/kg	Pass
Thiacloprid	0.1 mg/kg	<0.10 mg/kg	Pass
Thiamethoxam	4.5 mg/kg	<0.10 mg/kg	Pass
Trifloxystrobin	30 mg/kg	<0.10 mg/kg	Pass

The Pass/Fail reporting designations are relative to the limits set forth by the Bureau of Cannabis Control, Title 16, Division 42.

Prallethrin reporting limit is higher than BCC action level, but EPA tolerance is 1 ppm.

Multi-Residue Analysis for hemp products - BCC Pesticides Fenhexamid and Daminozide

Daminozide	0.1 mg/kg	<0.10 mg/kg	Pass
Fenhexamid	10 mg/kg	<0.10 mg/kg	Pass

The Pass/Fail reporting designations are relative to the limits set forth by the Bureau of Cannabis Control, Title 16, Division 42.

Method References

Testing Location

Certificate of Analysis

Charlotte's Web, Inc.

700 Tech Court
Louisville Colorado 80027 United States

Method References

Testing Location

BCC - Residual Solvent Analysis in Cannabis and Hemp Matrices (CANN_SOL_S)

Food Integrity Innovation-Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

Internally Developed Method

Elements by ICP Mass Spectrometry (ICP_MS_S)

Food Integrity Innovation-Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

Official Methods of Analysis, Methods 2011.19 and 993.14, and 2015.01, AOAC INTERNATIONAL, (Modified).

Glyphosate and AMPA (GLY_AMPA_S)

Food Integrity Innovation-Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

Internally developed method.

Multi-Residue Analysis for hemp products - BCC Pesticide List (PEST_HEMP)

Food Integrity Innovation-Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

Official Methods of Analysis, AOAC Official Method 2007.01, Pesticide Residues in Foods by Acetonitrile Extraction and Partitioning with Magnesium Sulfate, AOAC INTERNATIONAL (modified).

CEN Standard Method EN 15662: 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.

Multi-Residue Analysis for hemp products - BCC Pesticides Fenhexamid and Daminoside (PEST_HEMP)

Food Integrity Innovation-Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

Official Methods of Analysis, AOAC Official Method 2007.01, Pesticide Residues in Foods by Acetonitrile Extraction and Partitioning with Magnesium Sulfate, AOAC INTERNATIONAL (modified).

CEN Standard Method EN 15662: 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.

Mycotoxins in Raw Materials (MYCO_REG_S)

Food Integrity Innovation-Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

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).

Certificate of Analysis

Charlotte's Web, Inc.

700 Tech Court
Louisville Colorado 80027 United States

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



2918.01

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.