

Eurofins Microbiology Laboratory (Colorado)

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CW Hemp - 03

Stephanie Fitzgerald  
700 Tech Ct  
Louisville, CO 80026

**Client Code:** EI0000159  
**PO#:** PO110633 QC 325

**Received On:** 04Aug2022  
**Reported On:** 09Aug2022

## ANALYTICAL REPORT

AR-22-EI-018983-01

<b>Eurofins Sample Code:</b> 397-2022-08040022	<b>Sample Registration Date:</b> 04Aug2022
<b>Client Sample Code:</b> 22071817110225 - Composite	<b>Condition Upon Receipt:</b> acceptable, 26.5°C
<b>Sample Description:</b> Calm 30ct	<b>Sample Reference:</b>

<b>UM5DP - Total Coliforms - AOAC 991.14</b>	<b>Reference</b> AOAC 991.14	<b>Accreditation</b> ISO/IEC 17025:2017 A2LA 3329.11	<b>Completed</b> 06Aug2022
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**Parameter**  
Coliforms

**Result**  
< 10 cfu/g

**Parameter**  
Escherichia coli

**Result**  
< 10 cfu/g

<b>UMDTC - Salmonella species - AOAC-RI 121501</b>	<b>Reference</b> AOAC-RI 121501	<b>Accreditation</b> ISO/IEC 17025:2017 A2LA 3329.11	<b>Completed</b> 05Aug2022
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**Parameter**  
Salmonella

**Result**  
Not Detected per 25 g

<b>UMJI2 - Yeast - FDA BAM Chapter 18 mod.</b>	<b>Reference</b> FDA BAM Chapter 18 mod.	<b>Accreditation</b> ISO/IEC 17025:2017 A2LA 3329.11	<b>Completed</b> 09Aug2022
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**Parameter**  
Yeast

**Result**  
< 10 cfu/g

**Parameter**  
Moulds

**Result**  
< 10 cfu/g

<b>UMMFL - Aerobic Plate Count - AOAC 966.23</b>	<b>Reference</b> AOAC 966.23	<b>Accreditation</b> ISO/IEC 17025:2017 A2LA 3329.11	<b>Completed</b> 06Aug2022
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**Parameter**  
Aerobic Plate Count

**Result**  
50 (est) cfu/g

CW Hemp - 03

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AR-22-EI-018983-01

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Respectfully Submitted,



Kiley Lynott  
Operations Support Specialist II

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](http://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.

Prepared for:

## Calm Gummy Bulk

**CWB HOLDINGS, INC**


Batch ID or Lot Number: <b>2207181 - Composite</b>	Test: <b>Potency</b>	Reported: <b>7/29/22</b>	Location: 700 Tech Ct. Louisville, CO 80027
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Matrix: Concentrate	Test ID: T000215783	Started: 7/28/22	USDA License: N/A
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Status: Active	Method: TM14 (HPLC-DAD): Potency - Broad Spectrum Analysis, 0.01% THC	Received: 07/27/2022 @ 01:09 PM	Sampler ID: N/A
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## CANNABINOID PROFILE

Compound	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.004	0.010	ND	ND	Total THC per serving (2 ct.) is 0.5mg. Total THC per 6ct is 1.4mg. Total THC per 30ct is 7.2mg. Total THC per 60ct is 14.4mg. Total THC per 90ct is 21.6mg.
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.004	0.011	<LOQ	0.06	
Cannabidiolic acid (CBDA)	0.028	0.068	ND	ND	
Cannabidiol (CBD)	0.027	0.066	0.157	1.57	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.027	0.073	ND	ND	
Cannabinolic Acid (CBNA)	0.015	0.042	ND	ND	
Cannabinol (CBN)	0.007	0.019	ND	ND	
Cannabigerolic acid (CBGA)	0.023	0.061	ND	ND	
Cannabigerol (CBG)	0.005	0.015	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.019	0.052	ND	ND	
Tetrahydrocannabivarin (THCV)	0.005	0.013	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.012	0.028	ND	ND	
Cannabidivarin (CBDV)	0.006	0.016	ND	ND	
Cannabichromenic Acid (CBCA)	0.009	0.024	ND	ND	
Cannabichromene (CBC)	0.010	0.026	ND	ND	
<b>Total Cannabinoids</b>			<b>0.163</b>	<b>1.63</b>	
Total Potential THC**			0.006	0.06	
Total Potential CBD**			0.157	1.57	

 Jacob Miller  
29-Jul-22  
1:11 PM

 Sam Smith  
29-Jul-22  
1:19 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 Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC 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. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC.



CDPHE Certified



Certificate #4329.02





# CONTROLLED FORM

DOCUMENT NUMBER: QA-FM-044

SOP: QS-009

Batch Number: 22071817110225

By/Date EVE 25 AUG 22

=====	=====
WEIGHING PROTOCOL	WEIGHING PROTOCOL
Aug 25 2022 12:25	Aug 25 2022 12:30
-----	-----
Balance ID            3011	Balance ID            3011
-----	-----
GUMMIES 22071817110225	GUMMIES 22071817110225
Aug 25 2022 12:20	Aug 25 2022 12:26
Weight (1)        4.03258 g	Weight (1)        4.11802 g
-----	-----
GUMMIES 22071817110225	GUMMIES 22071817110225
Aug 25 2022 12:21	Aug 25 2022 12:27
Weight (2)        4.01753 g	Weight (2)        4.05490 g
-----	-----
GUMMIES 22071817110225	GUMMIES 22071817110225
Aug 25 2022 12:23	Aug 25 2022 12:28
Weight (3)        4.13618 g	Weight (3)        4.00009 g
-----	-----
GUMMIES 22071817110225	GUMMIES 22071817110225
Aug 25 2022 12:24	Aug 25 2022 12:29
Weight (4)        3.89298 g	Weight (4)        4.23028 g
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GUMMIES 22071817110225	GUMMIES 22071817110225
Aug 25 2022 12:25	Aug 25 2022 12:30
Weight (5)        4.20650 g	Weight (5)        4.23875 g
-----	-----
SIGNATURE 	SIGNATURE 
=====	=====

EVE 25 AUG 22

EVE 25 AUG 22

AVE: 4.1 g / gummy

Performed By/Date: \_\_\_\_\_

Reviewed By/Date: ALP 25 Aug 22

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

## Certificate of Analysis

Charlotte's Web, Inc.

700 Tech Court  
Louisville Colorado 80027 United States

<b>Sample Name:</b>	<b>Calm</b>	<b>Eurofins Sample:</b>	<b>11998284</b>
<b>Project ID</b>	CHARLO_WEB-20220725-0386	<b>Receipt Date</b>	26-Jul-2022
<b>PO Number</b>	106112 - QC Code 325	<b>Receipt Condition</b>	Ambient temperature
<b>Lot Number</b>	2207181	<b>Login Date</b>	25-Jul-2022
<b>Description</b>	CW Calm Gummy Bulk	<b>Date Started</b>	27-Jul-2022
		<b>Sampled</b>	Sample results apply as received
		<b>Number Composited</b>	5
		<b>Online Order</b>	16433-17A1B7F6

Analysis	Result
<b>Elements by ICP Mass Spectrometry</b>	
Arsenic	<0.0100 ppm
Cadmium	<5.00 ppb
Lead	5.66 ppb
Mercury	<5.00 ppb
<b>Glyphosate and AMPA</b>	
Glyphosate	<100 ng/g
AMPA	<100 ng/g

Analysis	Limit	Result	Pass/Fail
<b>Mycotoxins in Raw Materials</b>			
Aflatoxin B1		<0.500 ppb	
Aflatoxin B2		<0.500 ppb	
Aflatoxin G1		<0.500 ppb	
Aflatoxin G2		<0.500 ppb	
Ochratoxin A	20 ppb	<1.00 ppb	Pass
Sum of B1 B2 G1 and G2	20 ppb	<2.00 ppb	Pass

**BCC - Residual Solvent Analysis in Cannabis and Hemp Matrices**

**Category I Residual Solvent or Processing Chemical**

Analysis	Limit	Result	Pass/Fail
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**

Analysis	Limit	Result	Pass/Fail
Isopropal Alcohol	5000 ppm	<500 ppm	Pass
Acetone	5000 ppm	<200 ppm	Pass

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<b>Project ID</b>	CHARLO_WEB-20220725-0386	<b>Receipt Date</b>	26-Jul-2022
<b>PO Number</b>	106112 - QC Code 325	<b>Receipt Condition</b>	Ambient temperature
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<b>Description</b>	CW Calm Gummy Bulk	<b>Date Started</b>	27-Jul-2022
		<b>Sampled</b>	Sample results apply as received
		<b>Number Composited</b>	5
		<b>Online Order</b>	16433-17A1B7F6

Analysis	Limit	Result	Pass/Fail
<b>BCC - Residual Solvent Analysis in Cannabis and Hemp Matrices</b>			
Acetonitrile	410 ppm	<200 ppm	Pass
Ethanol	5000 ppm	3190 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.			
<b>Multi-Residue Analysis for hemp products - BCC Pesticide List</b>			
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

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		<b>Online Order</b>	16433-17A1B7F6

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

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<b>PO Number</b>	106112 - QC Code 325	<b>Receipt Condition</b>	Ambient temperature
<b>Lot Number</b>	2207181	<b>Login Date</b>	25-Jul-2022
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		<b>Sampled</b>	Sample results apply as received
		<b>Number Compositated</b>	5
		<b>Online Order</b>	16433-17A1B7F6

Analysis	Limit	Result	Pass/Fail
<b>Multi-Residue Analysis for hemp products - BCC Pesticide List</b>			
Malathion	5 mg/kg	<0.10 mg/kg	Pass
Metaxyl	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
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



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		<b>Online Order</b>	16433-17A1B7F6

Analysis	Limit	Result	Pass/Fail
<b>Multi-Residue Analysis for hemp products - BCC Pesticide List</b>			
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.			
Note: Prallethrin reporting limit is higher than BCC action level, but EPA tolerance is 1 ppm.			
<b>Multi-Residue Analysis for hemp products - BCC Pesticides Fenhexamid and Daminoside</b>			
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.			
<b>Multi-Residue Analysis for hemp products (1-5 Compounds from 500+ Compound list)</b>			
Metolachlor		<0.10 mg/kg	

Method References	Testing Location
<b>BCC - Residual Solvent Analysis in Cannabis and Hemp Matrices (CANN_SOL_S)</b>	<b>Food Integrity Innovation-Madison</b>
Internally Developed Method	6304 Ronald Reagan Ave Madison, WI 53704 USA
<b>Elements by ICP Mass Spectrometry (ICP_MS_S)</b>	<b>Food Integrity Innovation-Madison</b>
	6304 Ronald Reagan Ave Madison, WI 53704 USA

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### Method References

### Testing Location

#### Elements by ICP Mass Spectrometry (ICP\_MS\_S)

#### Food Integrity Innovation-Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

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

#### Glyphosate and AMPA (GLY\_AMPA\_S)

#### Food Integrity Innovation-Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

Monsanto Company Method ME-1466-02, "High Throughput Assay for Glyphosate and AMPA in Raw Agricultural Commodities and Processed Fractions Using LC/MS/MS".

#### 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.

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### Method References

### Testing Location

**Multi-Residue Analysis for hemp products (1-5 Compounds from 500+ Compound 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.

**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).

### 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.