

Eurofins Microbiology Laboratory (Colorado)

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CW Hemp - 02  
Breanna Lash  
700 Tech Ct  
Louisville, CO 80027

**Client Code:** EI0000236  
**PO#:** QC 325

## ANALYTICAL REPORT

AR-23-EI-004840-01

**Received On:** 21Mar2023  
**Reported On:** 26Mar2023

<b>Eurofins Sample Code:</b>	397-2023-03210016	<b>Sample Registration Date:</b>	21Mar2023	
<b>Client Sample Code:</b>	V0223061 - Composite	<b>Condition Upon Receipt:</b>	acceptable, 19°C	
<b>Sample Description:</b>	CBDCLINIC Level 5 Pain Relief Stick	<b>Sample Reference:</b>		
<b>UM4BV - 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> 26Mar2023	
<b>Parameter</b>	<b>Result</b>			
Yeast	< 10 cfu/g			
<b>Parameter</b>	<b>Result</b>			
Moulds	< 10 cfu/g			
<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> 23Mar2023	
<b>Parameter</b>	<b>Result</b>			
Coliforms	< 10 cfu/g			
<b>Parameter</b>	<b>Result</b>			
Escherichia coli	< 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> 22Mar2023	
<b>Parameter</b>	<b>Result</b>			
Salmonella	Not Detected per 25 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> 23Mar2023	
<b>Parameter</b>	<b>Result</b>			
Aerobic Plate Count	< 10 cfu/g			
<b>ZMCKB - Staphylococcus aureus - USP &lt;62&gt;</b>	<b>Reference</b> USP <62>	<b>Accreditation</b>	<b>Completed</b> 25Mar2023	<b>Sub</b> 1

Breanna Lash  
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# ANALYTICAL REPORT

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<b>Eurofins Sample Code:</b>	397-2023-03210016	<b>Sample Registration Date:</b>	21Mar2023	
<b>Client Sample Code:</b>	V0223061 - Composite	<b>Condition Upon Receipt:</b>	acceptable, 19°C	
<b>Sample Description:</b>	CBDCLINIC Level 5 Pain Relief Stick		<b>Sample Reference:</b>	

<b>ZMCKB - Staphylococcus aureus - USP &lt;62&gt;</b>	<b>Reference</b> USP <62>	<b>Accreditation</b>	<b>Completed</b> 25Mar2023	<b>Sub</b> 1
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<b>Parameter</b>	<b>Result</b>
Staphylococcus aureus	Not Detected per 25 g

<b>ZMCKG - Pseudomonas aeruginosa - USF &lt;62&gt;</b>	<b>Reference</b> USP <62>	<b>Accreditation</b>	<b>Completed</b> 25Mar2023	<b>Sub</b> 1
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<b>Parameter</b>	<b>Result</b>
Pseudomonas aeruginosa	Not Detected per 10 g

Subcontracting partners:  
1 - Eurofins Microbiology Lab Madison, Wisconsin

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](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:

**CBDCLINIC Level 5 Pain Relief Stick**

**CWB HOLDINGS, INC**

Batch ID or Lot Number: <b>V0223061</b>	Test: <b>Potency</b>	Reported: <b>3/9/23</b>	Location: 700 Tech Ct. Louisville, CO 80027
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Matrix: Concentrate	Test ID: T000237672	Started: 3/8/23	USDA License: N/A
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Status: Active	Method: TM14 (HPLC-DAD): Potency - Standard Cannabinoid Analysis	Received: 03/07/2023 @ 12:48 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)	0.016	0.046	ND	ND	total THC per container (40g)=ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.018	0.052	ND	ND	
Cannabidiolic acid (CBDA)	0.021	0.059	ND	ND	
Cannabidiol (CBD)	0.020	0.058	1.008	10.08	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.020	0.058	ND	ND	
Cannabinolic Acid (CBNA)	0.011	0.033	ND	ND	
Cannabinol (CBN)	0.005	0.015	ND	ND	
Cannabigerolic acid (CBGA)	0.017	0.048	ND	ND	
Cannabigerol (CBG)	0.004	0.012	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.014	0.041	ND	ND	
Tetrahydrocannabivarin (THCV)	0.004	0.011	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.009	0.025	ND	ND	
Cannabidivarin (CBDV)	0.005	0.014	ND	ND	
Cannabichromenic Acid (CBCA)	0.006	0.019	ND	ND	
Cannabichromene (CBC)	0.007	0.020	ND	ND	
<b>Total Cannabinoids</b>			<b>1.008</b>	<b>10.08</b>	
Total Potential THC**			ND	ND	
Total Potential CBD**			1.008	10.08	

*K Winterheimer*  
Karen Winterheimer  
9-Mar-23  
12:05 PM

*Samantha Small*  
Sam Smith  
9-Mar-23  
12:07 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

Charlotte's Web  
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Louisville, CO 80027

Breanna Lash  
breanna.lash@charlottesweb.com

CoA Date: 3/13/23

breanna.lash@charlottesweb.com

**Certificate of Analysis**

Sample Name: **CBDCLINIC Level 5 Pain Relief Stick**

Sample Received Date: 3/7/23

AAL No: M2303070252

Lot Number: V0223061

Sample Description: cream, plastic container

Rush:

Sample Condition: No Defects Found

PO: QC 325

<u>Test Parameter</u>	<u>Specification</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Date Completed</u>
Menthol	14.4 - 17.6	16.7 (Pass)	%w/w	GC-FID (D-3053)	3/13/23
Camphor	9.9 - 12.1	11.3 (Pass)	%	GC-FID (D-3053)	3/13/23

## Certificate of Analysis

### Charlotte's Web, Inc

700 Tech Court  
Louisville Colorado 80027 United State

<b>Sample Name:</b>	<b>V0223061</b>	<b>Eurofins Sample:</b>	<b>12709251</b>
<b>Project ID</b>	CHARLO_WEB-20230306-0052	<b>Receipt Date</b>	07-Mar-2023
<b>PO Number</b>	QC 325	<b>Receipt Condition</b>	Ambient temperature
<b>Description</b>	CBDCLINIC Level 5 Pain Relief Stick MFG: March 2 2023. Expiration: March 2 2025.	<b>Login Date</b>	06-Mar-2023
		<b>Date Started</b>	07-Mar-2023
		<b>Sampled</b>	Sample results apply as received
		<b>Online Order</b>	901-2023-E013551

Analysis	Result
<b>Elements by ICP Mass Spectrometry</b>	
Arsenic	<100 ppb
Cadmium	<50.0 ppb
Lead	<50.0 ppb
Mercury	<50.0 ppb
<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	<1.00 ppb
Sum of B1 B2 G1 and G2	<2.00 ppb
<b>Glyphosate and AMPA</b>	
Glyphosate	<100 ng/g
AMPA	<100 ng/g

Analysis	Limit	Result	Pass/Fail
<b>BCC Residual Solvent Analysis in Cannabis and Hemp Matrices</b>			
<b>Category I Residual Solvent or Processing Chemical</b>			
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.			
<b>Category II Residual Solvent or Processing Chemical</b>			
Isopropyl Alcohol	5000 ppm	500 ppm	Pass
Acetone	5000 ppm	<200 ppm	Pass
Acetonitrile	410 ppm	<200 ppm	Pass

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<b>Project ID</b>	CHARLO_WEB-20230306-0052	<b>Receipt Date</b>	07-Mar-2023
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		<b>Date Started</b>	07-Mar-2023
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Analysis	Limit	Result	Pass/Fail
<b>BCC - Residual Solvent Analysis in Cannabis and Hemp Matrices</b>			
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.			
<b>Summed Group 1 (Butanes)</b>			
Isobutane (2-Methylpropane)		<500 ppm	
<b>Summed Group 2 (Heptanes)</b>			
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	
<b>Summed Group 3 (Petroleum Ether)</b>			
2,2-Dimethylbutane		<25.0 ppm	
2,3-Dimethylbutane		<25.0 ppm	
2-Methylpentane		<25.0 ppm	
3-Methylpentane		<25.0 ppm	
<b>Summed Group 4 (Xylenes)</b>			
Xylenes-1 (Ethylbenzene)		<40.0 ppm	

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Analysis	Limit	Result	Pass/Fail
<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
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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		<b>Date Started</b>	07-Mar-2023
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		<b>Online Order</b>	901-2023-E013551

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



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		<b>Sampled</b>	Sample results apply as received
		<b>Online Order</b>	901-2023-E013551

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

Analysis	Limit	Result	Pass/Fail
Piperonylbutoxide	8 mg/kg	<0.10 mg/kg	Pass
Prallethrin	0.4 mg/kg	<0.10 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.

#### Multi-Residue Analysis for hemp products - BCC Pesticides Fenhexamid and Daminoside

Analysis	Limit	Result	Pass/Fail
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

BCC - Residual Solvent Analysis in Cannabis and Hemp Matrices (CANN\_SOL\_S)

Food Integrity Innovation-Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

## Certificate of Analysis

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Louisville Colorado 80027 United States

Method References	Testing Location
<p><b>BCC - Residual Solvent Analysis in Cannabis and Hemp Matrices ( CANN_SOL_S)</b></p> <p>Internally Developed Method</p>	<p><b>Food Integrity Innovation-Madison</b> 6304 Ronald Reagan Ave Madison, WI 53704 USA</p>
<p><b>Elements by ICP Mass Spectrometry (ICP_MS_S)</b></p> <p>Official Methods of Analysis, Methods 2011.19 and 993.14, and 2015.01, AOAC INTERNATIONAL, (Modified).</p>	<p><b>Food Integrity Innovation-Madison</b> 6304 Ronald Reagan Ave Madison, WI 53704 USA</p>
<p><b>Glyphosate and AMPA (GLY_AMPA_S)</b></p> <p>Internally developed method.</p>	<p><b>Food Integrity Innovation-Madison</b> 6304 Ronald Reagan Ave Madison, WI 53704 USA</p>
<p><b>Multi-Residue Analysis for hemp products - BCC Pesticide List ( PEST_HEMP)</b></p> <p><i>Official Methods of Analysis, AOAC Official Method 2007.01, Pesticide Residues in Foods by Acetonitrile Extraction and Partitioning with Magnesium Sulfate, AOAC INTERNATIONAL (modified).</i></p> <p><i>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.</i></p> <p>List of the tested pesticides and their limits of quantification (LOQs) are available upon request.</p>	<p><b>Food Integrity Innovation-Madison</b> 6304 Ronald Reagan Ave Madison, WI 53704 USA</p>
<p><b>Multi-Residue Analysis for hemp products - BCC Pesticides Fenhexamid and Daminoside (PEST_HEMP)</b></p> <p><i>Official Methods of Analysis, AOAC Official Method 2007.01, Pesticide Residues in Foods by Acetonitrile Extraction and Partitioning with Magnesium Sulfate, AOAC INTERNATIONAL (modified).</i></p> <p><i>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.</i></p> <p>List of the tested pesticides and their limits of quantification (LOQs) are available upon request.</p>	<p><b>Food Integrity Innovation-Madison</b> 6304 Ronald Reagan Ave Madison, WI 53704 USA</p>
<p><b>Mycotoxins in Raw Materials (MYCO_REG_S)</b></p> <p>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><b>Food Integrity Innovation-Madison</b> 6304 Ronald Reagan Ave Madison, WI 53704 USA</p>

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**Testing Location(s)****Released on Behalf of Eurofins by****Food Integrity Innovation-Madison**

Eurofins Food Chemistry Testing Madison, Inc.  
6304 Ronald Reagan Ave  
Madison WI 53704  
800-675-8375

Edward Ladwig - President Eurofins Food  
Chemistry Testing Madison



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.