

Eurofins Microbiology Laboratory (Colorado)

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Micro-Colorado@eurofinsUS.com

CW Hemp - 06

Breanna Lash
700 Tech Ct
Louisville, CO 80027

Client Code: EI0000237
PO#: QC 325

Received On: 07Dec2023
Reported On: 12Dec2023

ANALYTICAL REPORT

AR-23-EI-022609-01

Eurofins Sample Code: 397-2023-12070070	Sample Registration Date: 07Dec2023
Client Sample Code: 331404F-A - Composite	Condition Upon Receipt: acceptable, 16.4°C
Sample Description: Calming Pet Chew 6ct	Sample Reference:

UM4BV - Yeast - FDA BAM Chapter 18 mod.	Reference FDA BAM Chapter 18 mod.	Accreditation ISO/IEC 17025:2017 A2LA 3329.11	Completed 12Dec2023
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Parameter	Result
Yeast	< 10 cfu/g
Mold	< 10 cfu/g

UM7WD - Aerobic Plate Count - AOAC 966.23	Reference AOAC 966.23	Accreditation ISO/IEC 17025:2017 A2LA 3329.11	Completed 09Dec2023
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Parameter	Result
Aerobic Plate Count	750 cfu/g

UMDTC - Salmonella species - AOAC-RI 121501	Reference AOAC-RI 121501	Accreditation ISO/IEC 17025:2017 A2LA 3329.11	Completed 08Dec2023
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Parameter	Result
Salmonella spp.	Not Detected per 25 g

UMHBM - Staphylococcus aureus - BAM Chapter 12	Reference BAM Chapter 12	Accreditation ISO/IEC 17025:2017 A2LA 3329.11	Completed 09Dec2023
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Parameter	Result
Staphylococcus aureus	< 10 cfu/g

ZM3KP - Total Coliforms - AOAC 991.14	Reference AOAC 991.14	Accreditation ISO/IEC 17025:2017 A2LA 3329.11	Completed 09Dec2023
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Parameter	Result
Total Coliforms	10 cfu/g
E. coli	< 10 cfu/g

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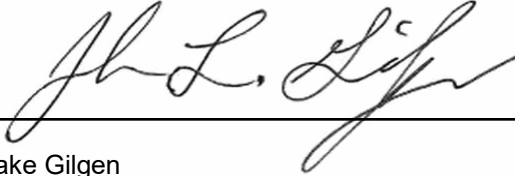
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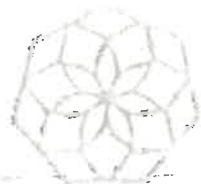
Respectfully Submitted,



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: 331404F-A

By/Date SRF 20 DEC 23

<p style="text-align: center; font-size: 1.2em;"><i>Donji Einucane</i></p> <table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%;">20.Dec 2023</td><td style="width: 50%;">07:41</td></tr> <tr><td>Balance ID</td><td>0094</td></tr> <tr><td colspan="2" style="border-top: 1px dashed black;"></td></tr> <tr><td>Sample ID</td><td>CALM06-1</td></tr> <tr><td>N</td><td>3.86 g</td></tr> </table> <table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%;">20.Dec 2023</td><td style="width: 50%;">07:41</td></tr> <tr><td>Balance ID</td><td>0094</td></tr> <tr><td colspan="2" style="border-top: 1px dashed black;"></td></tr> <tr><td>Sample ID</td><td>CALM06-2</td></tr> <tr><td>N</td><td>3.88 g</td></tr> </table> <table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%;">20.Dec 2023</td><td style="width: 50%;">07:41</td></tr> <tr><td>Balance ID</td><td>0094</td></tr> <tr><td colspan="2" style="border-top: 1px dashed black;"></td></tr> <tr><td>Sample ID</td><td>CALM06-3</td></tr> <tr><td>N</td><td>3.81 g</td></tr> </table> <table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%;">20.Dec 2023</td><td style="width: 50%;">07:41</td></tr> <tr><td>Balance ID</td><td>0094</td></tr> <tr><td colspan="2" style="border-top: 1px dashed black;"></td></tr> <tr><td>Sample ID</td><td>CALM06-4</td></tr> <tr><td>N</td><td>3.96 g</td></tr> </table> <table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%;">20.Dec 2023</td><td style="width: 50%;">07:41</td></tr> <tr><td>Balance ID</td><td>0094</td></tr> <tr><td colspan="2" style="border-top: 1px dashed black;"></td></tr> <tr><td>Sample ID</td><td>CALM06-5</td></tr> <tr><td>N</td><td>3.91 g</td></tr> </table>	20.Dec 2023	07:41	Balance ID	0094			Sample ID	CALM06-1	N	3.86 g	20.Dec 2023	07:41	Balance ID	0094			Sample ID	CALM06-2	N	3.88 g	20.Dec 2023	07:41	Balance ID	0094			Sample ID	CALM06-3	N	3.81 g	20.Dec 2023	07:41	Balance ID	0094			Sample ID	CALM06-4	N	3.96 g	20.Dec 2023	07:41	Balance ID	0094			Sample ID	CALM06-5	N	3.91 g	<p style="text-align: center; font-size: 1.2em;"><i>Donji Einucane</i></p> <table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%;">20.Dec 2023</td><td style="width: 50%;">07:41</td></tr> <tr><td>Balance ID</td><td>0094</td></tr> <tr><td colspan="2" style="border-top: 1px dashed black;"></td></tr> <tr><td>Sample ID</td><td>CALM06-6</td></tr> <tr><td>N</td><td>3.83 g</td></tr> </table> <table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%;">20.Dec 2023</td><td style="width: 50%;">07:42</td></tr> <tr><td>Balance ID</td><td>0094</td></tr> <tr><td colspan="2" style="border-top: 1px dashed black;"></td></tr> <tr><td>Sample ID</td><td>CALM06-7</td></tr> <tr><td>N</td><td>3.88 g</td></tr> </table> <table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%;">20.Dec 2023</td><td style="width: 50%;">07:42</td></tr> <tr><td>Balance ID</td><td>0094</td></tr> <tr><td colspan="2" style="border-top: 1px dashed black;"></td></tr> <tr><td>Sample ID</td><td>CALM06-8</td></tr> <tr><td>N</td><td>3.95 g</td></tr> </table> <table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%;">20.Dec 2023</td><td style="width: 50%;">07:42</td></tr> <tr><td>Balance ID</td><td>0094</td></tr> <tr><td colspan="2" style="border-top: 1px dashed black;"></td></tr> <tr><td>Sample ID</td><td>CALM06-9</td></tr> <tr><td>N</td><td>3.81 g</td></tr> </table> <table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%;">20.Dec 2023</td><td style="width: 50%;">07:42</td></tr> <tr><td>Balance ID</td><td>0094</td></tr> <tr><td colspan="2" style="border-top: 1px dashed black;"></td></tr> <tr><td>Sample ID</td><td>CALM06-10</td></tr> <tr><td>N</td><td>3.87 g</td></tr> </table>	20.Dec 2023	07:41	Balance ID	0094			Sample ID	CALM06-6	N	3.83 g	20.Dec 2023	07:42	Balance ID	0094			Sample ID	CALM06-7	N	3.88 g	20.Dec 2023	07:42	Balance ID	0094			Sample ID	CALM06-8	N	3.95 g	20.Dec 2023	07:42	Balance ID	0094			Sample ID	CALM06-9	N	3.81 g	20.Dec 2023	07:42	Balance ID	0094			Sample ID	CALM06-10	N	3.87 g
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SRF 20 DEC 23 SRF 20 DEC 23

Average = 3.9g / chew

Performed By/Date: SRF 20 DEC 23

Reviewed By/Date: TLB 28 DEC 23

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

Certificate of Analysis

Charlotte's Web, Inc.

700 Tech Court
Louisville Colorado 80027 United States

Sample Name:	331404F0525	Eurofins Sample:	13551161
Project ID	CHARLO_WEB-20231127-0282	Receipt Date	28-Nov-2023
PO Number	QC 325	Receipt Condition	Ambient temperature
Description	Calming Pet Chew Bulk MFG: November 10 2023 Expiration: May 10 2025	Login Date	27-Nov-2023
		Date Started	28-Nov-2023
		Sampled	Sample results apply as received
		Online Order	901-2023-E073355

Analysis

Result

Industrial Hemp Cannabinoid Profile

CBDVA	None detected at detection limit of 0.0004 %
CBDV	None detected at detection limit of 0.0008 %
CBDA	0.0276 mg/g
CBGA	None detected at detection limit of 0.0004 %
CBG	<0.0250 mg/g
CBD	0.830 mg/g
THCV	None detected at detection limit of 0.0008 %
CBN	<0.0250 mg/g
Delta 9-THC	0.0254 mg/g
Delta 8-THC	None detected at detection limit of 0.0017 %
THCA	None detected at detection limit of 0.0017 %
CBC	0.0278 mg/g
THCVA	None detected at detection limit of 0.0004 %
CBNA	None detected at detection limit of 0.0004 %
CBCA	None detected at detection limit of 0.0017 %
CBL	None detected at detection limit of 0.0004 %
Total Cannabinoids	0.911 mg/g
Total THC (THC + (THCA x 0.877))	0.0254 mg/g
Total CBD (CBD + (CBDA x 0.877))	0.854 mg/g

Elements by ICP Mass Spectrometry

Cadmium	21.5 ppb
Arsenic	90.8 ppb
Mercury	<5.00 ppb

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Analysis	Result
Elements by ICP Mass Spectrometry	
Lead	70.2 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	<100 ng/g
AMPA	<100 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
Ethanol	5000 ppm	<1000 ppm	Pass
Ethyl Acetate	5000 ppm	<500 ppm	Pass
Ethyl Ether	5000 ppm	<500 ppm	Pass

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Analysis	Limit	Result	Pass/Fail
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BCC - Residual Solvent Analysis in Cannabis and Hemp Matrices

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
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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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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

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Analysis	Limit	Result	Pass/Fail
Multi-Residue Analysis for hemp products - BCC Pesticide List			
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
Etoxazole	1.5 mg/kg	<0.10 mg/kg	Pass
Fenoxycarb	0.1 mg/kg	<0.10 mg/kg	Pass

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Analysis	Limit	Result	Pass/Fail
Multi-Residue Analysis for hemp products - BCC Pesticide List			
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
Piperonylbutoxide	8 mg/kg	<0.10 mg/kg	Pass
Prallethrin	0.4 mg/kg	<1.0 mg/kg	Pass

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

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 Daminoside

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
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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

Charlotte's Web, Inc.

700 Tech Court
Louisville Colorado 80027 United States

Method References	Testing Location
<p>BCC - Residual Solvent Analysis in Cannabis and Hemp Matrices (CANN_SOL_S)</p>	<p>Food Integrity Innovation-Madison</p>
<p>Internally Developed Method</p>	<p>6304 Ronald Reagan Ave Madison, WI 53704 USA</p>
<p>Elements by ICP Mass Spectrometry (ICP_MS_S)</p>	<p>Food Integrity Innovation-Madison</p>
<p>Official Methods of Analysis, Methods 2011.19 and 993.14, and 2015.01, AOAC INTERNATIONAL, (Modified).</p>	<p>6304 Ronald Reagan Ave Madison, WI 53704 USA</p>
<p>Glyphosate and AMPA (GLY_AMP_A_S)</p>	<p>Food Integrity Innovation-Madison</p>
<p>Internally developed method.</p>	<p>6304 Ronald Reagan Ave Madison, WI 53704 USA</p>
<p>Industrial Hemp Cannabinoid Profile (IHCBD_S)</p>	<p>Food Integrity Innovation-Madison</p>
<p>Official Methods of Analysis, AOAC 2018.11, AOAC International, Gaithersburg, MD (Modified).</p>	<p>6304 Ronald Reagan Ave Madison, WI 53704 USA</p>
<p>Multi-Residue Analysis for hemp products - BCC Pesticide List (PEST_HEMP)</p>	<p>Food Integrity Innovation-Madison</p>
<p><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>6304 Ronald Reagan Ave Madison, WI 53704 USA</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.</p>	
<p>List of the tested pesticides and their limits of quantification (LOQs) are available upon request.</p>	
<p>Multi-Residue Analysis for hemp products - BCC Pesticides Fenhexamid and Daminoside (PEST_HEMP)</p>	<p>Food Integrity Innovation-Madison</p>
<p><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>6304 Ronald Reagan Ave Madison, WI 53704 USA</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.</p>	
<p>List of the tested pesticides and their limits of quantification (LOQs) are available upon request.</p>	

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Method References

Testing Location

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

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