

# CERTIFICATE OF ANALYSIS

**PRODUCT NAME:** \*Joy Organics "Gxgt { f c { "CBD Soft/gels  
**PRODUCT STRENGTH:** 25 mg CBD  
**BATCH:** 44296E  
**BEST BY DATE: HEMP** 01/15/2024  
**EXTRACT LOT:** 22BL04373

*\*Click on the links to view third-party reports\**

### Physical Attributes

Test	Method	Specification	Results
Color	Joy Internal	Golden to Amber.	PASS
Odor	Joy Internal	No Odor.	PASS
Appearance	Joy Internal	Dry, ovoid softgel capsules in container with lid and shrink-band.	PASS
Primary Package Eval.	Joy Internal	Container clean and free of filth. Container caps tight and shrink bands intact.	PASS
Secondary Package Eval.	Joy Internal	Labeling Compliance Checked, Cartons sturdy and clean. Sufficient cushion material exists. Box taped and secure.	PASS

### Review of Third-Party Analysis

Panel	Method	Specification	Results*	Pass/Fail
<b>Potency - Total CBD</b>	HPLC-UV DAD	*LOQ: ≥ 25 mg / softgel	<b>32.27 mg</b>	PASS
<b>Potency - D9-THC</b>	HPLC-UV DAD	LOQ: <0.01% (broad spectrum)	<b>ND</b>	PASS
<b>Expanded Pesticide Panel</b>	HPLC-QQQ	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	<b>Below LOQ</b>	PASS
<b>Microbial</b> Escherichia coli (STEC)	PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 **CFU/25	<b>Absent</b>	PASS
<b>Microbial</b> Salmonella	PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram	<b>Absent</b>	PASS
<b>Microbial</b> Yeast and Mold	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10 <sup>2</sup> CFU/gram	<b>Below LOQ</b>	PASS
<b>Microbial</b> Total Coliforms*	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10 <sup>2</sup> CFU/gram	<b>Below LOQ</b>	PASS
<b>Microbial</b> Total Aerobic Count*	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10 <sup>3</sup> CFU/gram	<b>Below LOQ</b>	PASS
<b>Heavy Metals</b>	ICP-MS	Arsenic (As): ≤1.5 ppm† Cadmium (Cd): ≤0.5 ppm Lead (Pb): ≤0.5 ppm Mercury (Hg): ≤1.5 ppm	<b>Below LOQ</b>	PASS
<b>Mycotoxins</b>	ICP-MS	Total Aflatoxins <20 ppb†† Aflatoxin B1 < 5 ppb Ochratoxin < 5 ppb	<b>Below LOQ</b>	PASS
<b>Residual Solvents</b>	GC-HS-MSD	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	<b>Below LOQ</b>	PASS

\* Level of Quantification  
 \*\*CFU/g=Colony Forming Units per Gram  
 † Parts Per Million †† Part Per Billion

Values expressed using scientific notation.  
 Examples:  
 10<sup>-2</sup>=100  
 10<sup>-3</sup>=1,000

Quality Certified

*Cody Elbrader* 03/22/2022

Cody Elbrader

Quality Assurance Technician

Date

## Certificate of Analysis

<b>Sample Name:</b>	<b>Joy Organics 25mg BS</b>	<b>Eurofins Sample:</b>	<b>11373524</b>
<b>Project ID</b>	LACORE_NUT-20220124-0001	<b>Receipt Date</b>	25-Jan-2022
<b>PO Number</b>		<b>Receipt Condition</b>	Ambient temperature
<b>Lot Number</b>	22BL04373	<b>Login Date</b>	24-Jan-2022
<b>Sample Serving Size</b>	1 Softgel	<b>Date Started</b>	26-Jan-2022
		<b>Sampled</b>	Sample results apply as received
		<b>Number Composited</b>	20
		<b>Online Order</b>	19321-16B19594

Analysis	Result
<b>Industrial Hemp Cannabinoid Profile</b>	
CBDVA	None detected at detection limit of 0.0042 %
CBDV	0.295 mg/g
CBDA	None detected at detection limit of 0.0042 %
CBGA	None detected at detection limit of 0.0042 %
CBG	4.92 mg/g
CBD	84.7 mg/g
THCV	None detected at detection limit of 0.0083 %
CBN	None detected at detection limit of 0.0042 %
Delta 9-THC	None detected at detection limit of 0.0083 %
Delta 8-THC	None detected at detection limit of 0.0167 %
THCA	None detected at detection limit of 0.0167 %
CBC	<0.250 mg/g
THCVA	None detected at detection limit of 0.0042 %
CBNA	None detected at detection limit of 0.0042 %
CBCA	None detected at detection limit of 0.0167 %
CBL	None detected at detection limit of 0.0042 %
Total Cannabinoids	89.9 mg/g
Total THC (THC + (THCA x 0.877))	Not Detected mg/g
Total CBD (CBD + (CBDA x 0.877))	84.7 mg/g
<b>Calculated Sample Weight *</b>	

\* This analysis or component is not ISO accredited.

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## Certificate of Analysis

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Analysis	Result
<b>Calculated Sample Weight *</b>	
Entity Weight	0.5695 g
Entity Fill Weight	0.3810 g
Entity Weight	0.5761 g
Entity Fill Weight	0.3917 g
<b>Aerobic Plate Count *</b>	
Aerobic Plate Count	<100 CFU/g
<b>E. coli *</b>	
Escherichia Coli	Absent /25 g
<b>Salmonella USP *</b>	
Salmonella	Absent /25 g
<b>Staphylococcus *</b>	
Staphylococcus Aureus	Absent /25 g
<b>Yeast and Mold Count *</b>	
Combined Yeast and Mold Count	<100 CFU/g
<b>Preparatory Testing of Nutritional and Dietary Supplements *</b>	
Salmonella Suitability Result	PASS
Staphylococcus Suitability Result	PASS
E. coli Suitability Result	PASS
Aerobic Plate Suitability Result	PASS
Total Combined Yeast-Molds Count	PASS
<b>Elements by ICP Mass Spectrometry</b>	
Arsenic	<10.0 ppb
Cadmium	<5.00 ppb
Lead	15.6 ppb
Mercury	<5.00 ppb

Analysis	Limit	Result	Pass/Fail
<b>Mycotoxins in Raw Materials</b>			
Aflatoxin B1		<0.00000100 mg/g	
Aflatoxin B2		<0.00000100 mg/g	

\* This analysis or component is not ISO accredited.

Prepared for:

**JOY ORGANICS**
**SG25**


Batch ID or Lot Number: <b>22074C</b>	Test: <b>Microbial Contaminants</b>	Reported: <b>3/21/22</b>	Location: 5042 Technology Parkway Ste. 50 FT. COLLINS, CO 80528
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Matrix: Finished Product	Test ID: T000198344	Started: 3/16/22	USDA License: N/A
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Status: N/A	Methods: TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial	Received: 03/16/2022 @ 10:08 AM	Sampler ID: N/A
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### MICROBIAL CONTAMINANTS DETERMINATION

Contaminant	Method	LOD	LLOQ	ULOQ	Result	Notes
<b>Total Aerobic Count*</b>	TM-26, Culture Plating	10 <sup>2</sup> CFU/g	10 <sup>3</sup> CFU/g	1.5x10 <sup>5</sup> CFU/g	None Detected	Free from visual mold, mildew, and foreign matter
<b>Total Coliforms*</b>	TM-27, Culture Plating	10 <sup>1</sup> CFU/g	10 <sup>2</sup> CFU/g	1.5x10 <sup>4</sup> CFU/g	None Detected	
<b>Total Yeast and Mold*</b>	TM-24, Culture Plating	10 <sup>1</sup> CFU/g	10 <sup>2</sup> CFU/g	1.5x10 <sup>4</sup> CFU/g	None Detected	
<b>STEC</b>	TM-25, PCR	10 <sup>0</sup> CFU/25 g	NA	NA	Absent	
<b>Salmonella</b>	TM-25, PCR	10 <sup>0</sup> CFU/25 g	NA	NA	Absent	

  
 Carly Bader  
 3/19/2022  
 2:21:00 PM

  
 Brett Hudson  
 3/21/2022  
 12:10:00 PM

PREPARED BY / DATE

APPROVED BY / DATE

#### Definitions

LOD = Limit of Detection | LLOQ = Lower Limit of Quantitation | ULOQ = Upper Limit of Quantitation

 CFU/g = Colony Forming Units per Gram | STEC = Shiga Toxin-Producing *E. coli*

\* Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form.

Examples: 10<sup>2</sup> = 100 CFU  
 10<sup>3</sup> = 1,000 CFU  
 10<sup>4</sup> = 10,000 CFU  
 10<sup>5</sup> = 100,000 CFU

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

## Certificate of Analysis

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Analysis	Limit	Result	Pass/Fail
<b>Mycotoxins in Raw Materials</b>			
Aflatoxin G1		<0.00000100 mg/g	
Aflatoxin G2		<0.00000100 mg/g	
Ochratoxin A	20 ppb	<0.00000100 mg/g	Pass
Sum of B1 B2 G1 and G2	20 ppb	<2.00 ppb	Pass
<b>Multi-Residue Analysis for hemp products - BCC Pesticide List</b>			
Abamectin	0.3 mg/kg	non-analyzable	
Acephate	5 mg/kg	<0.00010 mg/g	Pass
Acequinocyl	4 mg/kg	<0.0010 mg/g	Pass
Acetamiprid	5 mg/kg	<0.00010 mg/g	Pass
Aldicarb	0.1 mg/kg	<0.00010 mg/g	Pass
Aldicarb sulfone (Aldoxycarb)	0.1 mg/kg	<0.00010 mg/g	Pass
Aldicarb sulfoxide	0.1 mg/kg	<0.00010 mg/g	Pass
Azoxystrobin	40 mg/kg	<0.00010 mg/g	Pass
Bifenazate	5 mg/kg	<0.00010 mg/g	Pass
Bifenthrin	0.5 mg/kg	<0.00010 mg/g	Pass
Boscalid	10 mg/kg	<0.00010 mg/g	Pass
Captan	5 mg/kg	<0.00020 mg/g	Pass
Carbaryl	0.5 mg/kg	<0.00010 mg/g	Pass
Carbofuran	0.1 mg/kg	<0.00010 mg/g	Pass
Carbofuran-3-hydroxy-	0.1 mg/kg	<0.00010 mg/g	Pass
Chlorantraniliprole	40 mg/kg	<0.00010 mg/g	Pass
Chlordane, cis-	0.1 mg/kg	<0.00010 mg/g	Pass
Chlordane, trans-	0.1 mg/kg	<0.00010 mg/g	Pass
Chlorfenapyr	0.1 mg/kg	<0.00010 mg/g	Pass
Chlorpyrifos	0.1 mg/kg	<0.00010 mg/g	Pass
Clofentezine	0.5 mg/kg	<0.00010 mg/g	Pass
Coumaphos	0.1 mg/kg	<0.00010 mg/g	Pass
Cyfluthrin	1 mg/kg	<0.00010 mg/g	Pass
Cypermethrin	1 mg/kg	<0.00010 mg/g	Pass

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Analysis	Limit	Result	Pass/Fail
<b>Multi-Residue Analysis for hemp products - BCC Pesticide List</b>			
Diazinon	0.2 mg/kg	<0.00010 mg/g	Pass
Dichlorvos	0.1 mg/kg	<0.00010 mg/g	Pass
Dimethoate	0.1 mg/kg	<0.00010 mg/g	Pass
Dimethomorph	20 mg/kg	<0.00010 mg/g	Pass
Ethoprophos	0.1 mg/kg	<0.00010 mg/g	Pass
Etofenprox	0.1 mg/kg	<0.00010 mg/g	Pass
Etoxazole	1.5 mg/kg	<0.00010 mg/g	Pass
Fenoxycarb	0.1 mg/kg	<0.00010 mg/g	Pass
Fenpyroximate	2 mg/kg	<0.00010 mg/g	Pass
Fipronil	0.1 mg/kg	<0.00010 mg/g	Pass
Fipronil desulfinyl	0.1 mg/kg	<0.00010 mg/g	Pass
Fipronil sulfone	0.1 mg/kg	<0.00010 mg/g	Pass
Flonicamid	2 mg/kg	<0.00010 mg/g	Pass
Fludioxonil	30 mg/kg	<0.00010 mg/g	Pass
Hexythiazox	2 mg/kg	<0.00010 mg/g	Pass
Imazalil	0.1 mg/kg	<0.00010 mg/g	Pass
Imidacloprid	3 mg/kg	<0.00010 mg/g	Pass
Kresoxim-methyl	1 mg/kg	<0.00010 mg/g	Pass
Malathion	5 mg/kg	<0.00010 mg/g	Pass
Metalaxyl	15 mg/kg	<0.00010 mg/g	Pass
Methiocarb	0.1 mg/kg	<0.00010 mg/g	Pass
Methiocarb sulfone	0.1 mg/kg	<0.00010 mg/g	Pass
Methiocarb sulfoxide	0.1 mg/kg	<0.00010 mg/g	Pass
Methomyl	0.1 mg/kg	<0.00010 mg/g	Pass
Mevinphos	0.1 mg/kg	<0.00010 mg/g	Pass
Myclobutanil	9 mg/kg	<0.00010 mg/g	Pass
Naled	0.5 mg/kg	<0.00010 mg/g	Pass
Oxamyl	0.2 mg/kg	<0.00010 mg/g	Pass
Paclobutrazol	0.1 mg/kg	<0.00010 mg/g	Pass

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Analysis	Limit	Result	Pass/Fail
<b>Multi-Residue Analysis for hemp products - BCC Pesticide List</b>			
Methyl parathion	0.1 mg/kg	<0.00010 mg/g	Pass
Pentachloroaniline	0.2 mg/kg	<0.00010 mg/g	Pass
Pentachlorobenzene	0.2 mg/kg	<0.00010 mg/g	Pass
Pentachlorobenzonitrile	0.2 mg/kg	<0.00010 mg/g	Pass
Pentachlorothioanisole	0.2 mg/kg	<0.00010 mg/g	Pass
Permethrin	20 mg/kg	<0.00010 mg/g	Pass
Phosmet	0.2 mg/kg	<0.00010 mg/g	Pass
Piperonylbutoxide	8 mg/kg	<0.00010 mg/g	Pass
Prallethrin	0.4 mg/kg	<0.00010 mg/g	Pass
Propiconazole (sum of isomers)	20 mg/kg	<0.00010 mg/g	Pass
Propoxur	0.1 mg/kg	<0.00010 mg/g	Pass
Pyrethrins	1 mg/kg	<0.0010 mg/g	Pass
Pyridaben	3 mg/kg	<0.00010 mg/g	Pass
Pentachloronitrobenzene	0.2 mg/kg	<0.00010 mg/g	Pass
Spinetoram	3 mg/kg	<0.00010 mg/g	Pass
Spinosad	3 mg/kg	<0.00010 mg/g	Pass
Spiromesifen	12 mg/kg	<0.00010 mg/g	Pass
Spirotetramat	13 mg/kg	<0.00010 mg/g	Pass
Spiroxamine	0.1 mg/kg	<0.00010 mg/g	Pass
Tebuconazole	2 mg/kg	<0.00010 mg/g	Pass
Thiacloprid	0.1 mg/kg	<0.00010 mg/g	Pass
Thiamethoxam	4.5 mg/kg	<0.00010 mg/g	Pass
Trifloxystrobin	30 mg/kg	<0.00010 mg/g	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 Pesticides Fenhexamid and Daminoside</b>			
Daminozide	0.1 mg/kg	<0.00010 mg/g	Pass
Fenhexamid	10 mg/kg	<0.00010 mg/g	Pass

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Analysis	Limit	Result	Pass/Fail
<b>Multi-Residue Analysis for hemp products - BCC Pesticides Fenhexamid and Daminoside</b>			
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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**Aerobic Plate Count (USPC2021)**

**Eurofins Micro Lab - Madison**  
6304 Ronald Reagan Ave Madison, WI 53704 USA

USP Current revision, Chapter 2021.

To satisfy the requirements of the USP, the Preparatory Test must be completed on each matrix.

\*\*Based on the results of the preparatory test, the detection limit stipulated is adequate for the enumeration of the specified microorganisms.

**Calculated Sample Weight (PREP)**

**Food Integrity Innovation-Madison**  
6304 Ronald Reagan Ave Madison, WI 53704 USA

**E. coli (USPE2022)**

**Eurofins Micro Lab - Madison**  
6304 Ronald Reagan Ave Madison, WI 53704 USA

USP Current revision, Chapter 2022.

To satisfy the requirements of the USP, the Preparatory Test must be completed on each matrix.

\*\*Based on the results of the preparatory test, conditions stipulated are adequate for detecting the presence of the specified microorganism.



## Certificate of Analysis

Method References	Testing Location
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**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).

**Industrial Hemp Cannabinoid Profile (IHCBD\_S)**

**Food Integrity Innovation-Madison**

6304 Ronald Reagan Ave Madison, WI 53704 USA

Official Methods of Analysis, AOAC 2018.11, AOAC International, Gaithersburg, MD (Modified).

**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).

**Preparatory Testing of Nutritional and Dietary Supplements (USPA\_PT)**

**Eurofins Micro Lab - Madison**

6304 Ronald Reagan Ave Madison, WI 53704 USA

\* This analysis or component is not ISO accredited.

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## Certificate of Analysis

Method References	Testing Location
Preparatory Testing of Nutritional and Dietary Supplements (USPC_PT)	Eurofins Micro Lab - Madison 6304 Ronald Reagan Ave Madison, WI 53704 USA
Preparatory Testing of Nutritional and Dietary Supplements (USPE_PT)	Eurofins Micro Lab - Madison 6304 Ronald Reagan Ave Madison, WI 53704 USA
Preparatory Testing of Nutritional and Dietary Supplements (USPM_PT)	Eurofins Micro Lab - Madison 6304 Ronald Reagan Ave Madison, WI 53704 USA
Preparatory Testing of Nutritional and Dietary Supplements (USPS_PT)	Eurofins Micro Lab - Madison 6304 Ronald Reagan Ave Madison, WI 53704 USA
Salmonella USP (USPS2022)	Eurofins Micro Lab - Madison 6304 Ronald Reagan Ave Madison, WI 53704 USA
<p>USP Current revision, Chapter 2022.</p> <p>To satisfy the requirements of the USP, the Preparatory Test must be completed on each matrix.</p> <p>**Based on the results of the preparatory test, conditions stipulated are adequate for detecting the presence of the specified microorganism.</p>	
Staphylococcus (USPA2022)	Eurofins Micro Lab - Madison 6304 Ronald Reagan Ave Madison, WI 53704 USA
<p>USP Current revision, Chapter 2022.</p> <p>To satisfy the requirements of the USP, the Preparatory Test must be completed on each matrix.</p> <p>**Based on the results of the preparatory test, conditions stipulated are adequate for detecting the presence of the specified microorganism.</p>	
Yeast and Mold Count (USPM2021)	Eurofins Micro Lab - Madison 6304 Ronald Reagan Ave Madison, WI 53704 USA
<p>USP Current revision, Chapter 2021.</p> <p>To satisfy the requirements of the USP, the Preparatory Test must be completed on each matrix.</p> <p>**Based on the results of the preparatory test, the detection limit stipulated is adequate for the enumeration of the specified microorganisms.</p>	

## Certificate of Analysis

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**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.

Socati Broad Spectrum  
5% Minors  
FD00744

3/3/21



C0207-001

sample ID 25809

7USC1639 Certificate of Analysis

Socati

Stillwater  
Laboratories

This Product Has Been  
Tested and Complies  
with 7USC1639o(1)

total  
cannabinoids **93.01%**

certificate ID  
**1BJ61**

THC total ND CBD total **87.33%** terpenes

MSP-7.5.1.3

order 9806

analysis date 2/11/2021 12:21:52 PM

test tag 9806.2

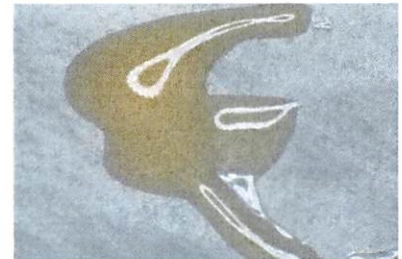
sample wgt

extract

Inspection MSP-7.5.1.2

DESCRIPTION: Concentrate sample received in a client-labeled bottle, by commercial courier. Labeled 25809 and sample tag 9806.2

- caryophyllene
- humulene
- terpinolene
- ocimene
- beta pinene
- alpha pinene
- limonene
- myrcene
- linalool



Potency per

	MSP-7.5.1.4	LOD	LOQ	error (95%CI k=2)
tetrahydrocannabinolic acid (THCa)	ND	0.002	0.005	±0.005%
Δ9-tetrahydrocannabinol (Δ9 THC)	ND	0.001	0.004	±0.004%
Δ8-tetrahydrocannabinol (Δ8 THC)	ND	0.002	0.006	±0.006%
tetrahydrocannabivarin (THCv)	ND	0.002	0.005	±0.005%
cannabidiolic acid (CBDA)	ND	0.001	0.004	±0.004%
cannabidiol (CBD)	87.33%	0.002	0.005	±2.143%
cannabidivarin (CBDv)	0.40%	0.002	0.005	±0.014%
cannabigerolic acid (CBGa)	ND	0.001	0.004	±0.004%
cannabigerol (CBG)	5.29%	0.001	0.003	±0.132%
cannabinol (CBN)	ND	0.001	0.003	±0.003%
cannabichromene (CBC)	ND	0.002	0.005	±0.005%

Terpenes

MSP-7.5.1.6

MSP-7.5.1.6

† = decarbed NT = not tested NL = no limit, ND = not detected, LOD = detection limit, LOQ = quantitation limit

Microbial	MSP-7.5.1.10	limit	Metals	MSP-7.5.1.11	limit	Pesticides	MSP-7.5.1.8	limit	Pesticides	MSP-7.5.1.8	limit
E.coli	PASS	0CFU	Arsenic	PASS	200 ppb	Abamectin	PASS	0.30 ppm	Fipronil	PASS	0.00 ppm
Salmonella sp.	PASS	0CFU	Cadmium	PASS	200 ppb	Acephate	PASS	5.00 ppm	Fonicamid	PASS	2.00 ppm
molds	PASS	10000CFU	Lead	PASS	500 ppb	Acequinocyl	PASS	4.00 ppm	Fludioxonil	PASS	30.00
Ochratoxin A	PASS	20 ppb	Mercury	PASS	300 ppb	Acetamiprid	PASS	5.00 ppm	Hexythiazox	PASS	2.00 ppm
Aflatoxin	PASS	20 ppb				Aldicarb	PASS	0.00 ppm	Imazalil	PASS	0.00 ppm
Solvents	MSP-7.5.1.7	limit	Pesticides	MSP-7.5.1.8	limit	Azoxystrobin	PASS	40.00	Imidacloprid	PASS	3.00 ppm
Acetone	PASS	3100 ppm	Permethrin	PASS	20.00 ppm	Bifenazate	PASS	5.00 ppm	Malathion	PASS	5.00 ppm
Acetonitrile	PASS	6 ppm	Phosmet	PASS	0.20 ppm	Bifenthrin	PASS	0.50 ppm	Metalaxyl	PASS	15.00
Benzene	PASS	0 ppm	Piperonylbutoxide	PASS	8.00 ppm	Boscalid	PASS	10.00	Methiocarb	PASS	0.10 ppm
Butane	PASS	5000 ppm	Prallethrin	PASS	0.40 ppm	Carbaryl	PASS	0.50 ppm	Methomyl	PASS	0.10 ppm
Chloroform	PASS	0 ppm	Propiconazole	PASS	20.00 ppm	Carbofuran	PASS	0.00 ppm	Methyl parathion	PASS	0.00 ppm
Cyclohexane	PASS	3880 ppm	Propoxur	PASS	0.00 ppm	Chloanthraniliprole	PASS	40.00	Mevinphos	PASS	0.00 ppm
Ethanol	PASS	5000 ppm	Pyrethrin	PASS	1.00 ppm	Chlorfenapyr	PASS	0.50 ppm	Myclobutanil	PASS	9.00 ppm
Heptane	PASS	5000 ppm	Pyridaben	PASS	3.00 ppm	Chlorpyrifos	PASS	0.00 ppm	Naled	PASS	0.50 ppm
Hexane	PASS	70 ppm	Spinetoram	PASS	3.00 ppm	Clofentazine	PASS	0.50 ppm	Oxamyl	PASS	0.20 ppm
Isopropyl alcohol	PASS	320 ppm	Spinosad	PASS	3.00 ppm	Coumaphos	PASS	0.00 ppm	Paclobutrazol	PASS	0.00 ppm
Methanol	PASS	400 ppm	Spiromesifen	PASS	12.00 ppm	Cyfluthrin	PASS	1.00 ppm	Permethrin	PASS	20.00
Pentane	PASS	5000 ppm	Spirotetramat	PASS	13.00 ppm	Cypermethrin	PASS	1.00 ppm			
Propane	PASS	5000 ppm	Spiroxamine	PASS	0.00 ppm	Daminozide	PASS	0.00 ppm			
Toluene	PASS	30 ppm	Tebuconazole	PASS	2.00 ppm	Dichlorvos	PASS	0.00 ppm			
Xylenes	PASS	10 ppm	Thiacloprid	PASS	0.10 ppm	Diazinon	PASS	0.20 ppm			
			Thiamethoxam	PASS	4.50 ppm	Dimethoate	PASS	0.00 ppm			
			Trifloxystrobin	PASS	30.00 ppm	Etoxazole	PASS	1.50 ppm			
						Fenoxycarb	PASS	0.00 ppm			
						Fenpyroximate	PASS	2.00 ppm			

INSTRUMENTS  
 potency: HPLC (LC2030C-UV)  
 terpenes: GCMS (QP2020/HS20)  
 solvents: GCMS (QP2020/HS20)  
 pesticides: LCMSMS (LC8060)  
 mycotoxins: LCMSMS (LC8060)  
 microbial: qPCR (AriaMx) and plating  
 metals: ICPMS (ICPMS-2030)

SECURITY FEATURE: WATERMARK MUST MATCH CERTIFICATE ID AND ISSUE DATE

Certified by:

Stillwater Laboratories Inc.  
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 Olney MT 59927  
 406-881-2019

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Kyle Larson, MSc (Biology)  
Deputy Director

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