CERTIFICATE OF ANALYSIS

PRODUCT NAME: CBD Capsules with Curcumin
PRODUCT STRENGTH: 25 mg CBD
BATCH: 22067C
BEST BY DATE: HEMP 01/17/2024
EXTRACT LOT: 22BL04375

Click on the links to view third-party reports

Physical Atttributes

Test	Method	Specification	Results
Color	Internal	Golden to Red	PASS
Odor	Internal	No Odor	PASS
Appearance	Internal	Dry, ovoid softgel capsules in container with lid and shrink-band	PASS
Primary Package Eval.	Internal	Container clean and free of filth. Container caps tight and shrink bands intact	PASS
Secondary Package Eval.	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
Potency - Total CBD	HPLC-UV DAD	*LOQ: ≥ 25 mg / softgel	**32.98 mg**	PASS
Potency - D9-THC	HPLC-UV DAD	LOQ: <0.01% (broad spectrum)	**ND**	PASS
Expanded Pesticide Panel	HPLC-QQQ	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	**Below LOQ**	PASS
Microbial Escherichia coli (STEC)	PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 **CFU/25 gram	**Absent**	PASS
Microbial Salmonella	PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram	**Absent**	PASS
Microbial Yeast and Mold	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10^2 CFU/gram	**Below LOQ**	PASS
Microbial Total Coliforms*	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10^2 CFU/gram	**Below LOQ**	PASS
Microbial Total Aerobic Count*	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10^3 CFU/gram	**Below LOQ**	PASS
Heavy Metals	ICP-MS	Arsenic (As): ≤1.5 ppm† Cadmium (Cd): ≤0.5 ppm Lead (Pb): ≤0.5 ppm Mercury (Hg): ≤1.5 ppm	**Below LOQ**	PASS
Mycotoxins	ICP-MS	Total Aflatoxins <20 ppb†† Afltoxin B1 < 5 ppb Ochratoxin < 5ppb	**Below LOQ**	PASS
Residual Solvents	GC-HS-MSD	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	**Below LOQ**	PASS

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

Values expressed using scientific notation.
Examples:
10^2=100
10^3=1,000

Quality Certified Keegan Schlittler 03/15/2022
Keegan Schlittler
Quality Assurance Manager
Date

eurofins | Food Integrity & Innovation

Report Number: 3562099-0
Report Date: 10-Feb-2022
Report Status: Final

Certificate of Analysis

Sample Name:	**5mg Curcumin**	**Eurofins Sample:**	**11373622**
Project ID	LACORE_NUT-20220124-0001	**Receipt Date**	25-Jan-2022
PO Number		**Receipt Condition**	Ambient temperature
Lot Number	22BL04375	**Login Date**	24-Jan-2022
Sample Serving Size	1 Softgel	**Date Started**	26-Jan-2022
		Sampled	Sample results apply as received
		Number Composited	20
		Online Order	19321-16B19594

Analysis	Result
Industrial Hemp Cannabinoid Profile	
CBDVA	None detected at detection limit of 0.0042 %
CBDV	0.301 mg/g
CBDA	None detected at detection limit of 0.0042 %
CBGA	None detected at detection limit of 0.0042 %
CBG	5.48 mg/g
CBD	86.0 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	None detected at detection limit of 0.0083 %
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	91.8 mg/g
Total THC (THC + (THCA x 0.877))	Not Detected mg/g
Total CBD (CBD + (CBDA x 0.877))	86.0 mg/g

*** This analysis or component is not ISO accredited.**

Certificate of Analysis

Sample Name:	**25mg Curcumin**	**Eurofins Sample:**	**11373622**
Project ID	LACORE_NUT-20220124-0001	**Receipt Date**	25-Jan-2022
PO Number		**Receipt Condition**	Ambient temperature
Lot Number	22BL04375	**Login Date**	24-Jan-2022
Sample Serving Size	1 Softgel	**Date Started**	26-Jan-2022
		Sampled	Sample results apply as received
		Number Composited	20
		Online Order	19321-16B19594

Analysis	Result
Calculated Sample Weight *	
Entity Weight	0.5590 g
Entity Fill Weight	0.3835 g
Entity Weight	0.5380 g
Entity Fill Weight	0.3422 g
Aerobic Plate Count *	
Aerobic Plate Count	<100 CFU/g
E. coli *	
Escherichia Coli	Absent /25 g
Salmonella USP *	
Salmonella	Absent /25 g
Staphylococcus *	
Staphylococcus Aureus	Absent /25 g
Yeast and Mold Count *	
Combined Yeast and Mold Count	<100 CFU/g
Preparatory Testing of Nutritional and Dietary Supplements *	
Salmonella Suitability Result	PASS
E. coli Suitability Result	PASS
Staphylococcus Suitability Result	PASS
Aerobic Plate Suitability Result	PASS
Total Combined Yeast-Molds Count	PASS
Elements by ICP Mass Spectrometry	
Arsenic	<0.0000100 mg/g
Cadmium	<0.00000500 mg/g
Lead	<0.00000500 mg/g
Mercury	<0.00000500 mg/g

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

*** This analysis or component is not ISO accredited.**

Certificate of Analysis

Sample Name:	**25mg Curcumin**	**Eurofins Sample:**	**11373622**
Project ID	LACORE_NUT-20220124-0001	**Receipt Date**	25-Jan-2022
PO Number		**Receipt Condition**	Ambient temperature
Lot Number	22BL04375	**Login Date**	24-Jan-2022
Sample Serving Size	1 Softgel	**Date Started**	26-Jan-2022
		Sampled	Sample results apply as received
		Number Composited	20
		Online Order	19321-16B19594

Analysis	Limit	Result	Pass/Fail
Mycotoxins in Raw Materials			
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
Multi-Residue Analysis for hemp products - BCC Pesticide List			
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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Certificate of Analysis

Sample Name:	**25mg Curcumin**	**Eurofins Sample:**	**11373622**
Project ID	LACORE_NUT-20220124-0001	**Receipt Date**	25-Jan-2022
PO Number		**Receipt Condition**	Ambient temperature
Lot Number	22BL04375	**Login Date**	24-Jan-2022
Sample Serving Size	1 Softgel	**Date Started**	26-Jan-2022
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		Online Order	19321-16B19594

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

*** This analysis or component is not ISO accredited.**

Certificate of Analysis

Sample Name:	**25mg Curcumin**	**Eurofins Sample:**	**11373622**
Project ID	LACORE_NUT-20220124-0001	**Receipt Date**	25-Jan-2022
PO Number		**Receipt Condition**	Ambient temperature
Lot Number	22BL04375	**Login Date**	24-Jan-2022
Sample Serving Size	1 Softgel	**Date Started**	26-Jan-2022
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		Online Order	19321-16B19594

Analysis	Limit	Result	Pass/Fail
Multi-Residue Analysis for hemp products - BCC Pesticide List			
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.		-	
Multi-Residue Analysis for hemp products - BCC Pesticides Fenhexamid and Daminoside			
Daminozide	0.1 mg/kg	<0.00010 mg/g	Pass
Fenhexamid	10 mg/kg	<0.00010 mg/g	Pass

*** This analysis or component is not ISO accredited.**

Certificate of Analysis

Sample Name:	**25mg Curcumin**	**Eurofins Sample:**	**11373622**
Project ID	LACORE_NUT-20220124-0001	**Receipt Date**	25-Jan-2022
PO Number		**Receipt Condition**	Ambient temperature
Lot Number	22BL04375	**Login Date**	24-Jan-2022
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		Sampled	Sample results apply as received
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		Online Order	19321-16B19594

Analysis	Limit	Result	Pass/Fail
Multi-Residue Analysis for hemp products - BCC Pesticides Fenhexamid and Daminoside			
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
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.

*** This analysis or component is not ISO accredited.**

Certificate of Analysis

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).

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.**

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

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.

Staphylococcus (USPA2022) — **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.

Yeast and Mold Count (USPM2021) — **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.

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Report Number:	**3562099-0**
Report Date:	**10-Feb-2022**
Report Status:	**Final**

Certificate of Analysis

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

ilac-MRA A2LA ACCREDITED
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.

*** This analysis or component is not ISO accredited.**

botanacor

Official Compliance: Colorado
CERTIFICATE OF ANALYSIS

SG25C

Batch ID or Lot Number:	Test:	Reported:
22067C	**Microbial Contaminants**	**3/14/22**

Matrix:	Test ID:	Started:	USDA License:
Finished Product	T000197186	3/9/22	N/A

Status:	Methods:	Received:	Sampler ID:
N/A	TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial	03/09/2022 @ 10:34 AM	N/A

MICROBIAL CONTAMINANTS DETERMINATION

Contaminant	Method	LOD	LLOQ	ULOQ	Result
Total Aerobic Count*	TM-26, Culture Plating	10^2 CFU/g	10^3 CFU/g	1.5x10^5 CFU/g	None Detected
Total Coliforms*	TM-27, Culture Plating	10^1 CFU/g	10^2 CFU/g	1.5x10^4 CFU/g	None Detected
Total Yeast and Mold*	TM-24, Culture Plating	10^1 CFU/g	10^2 CFU/g	1.5x10^4 CFU/g	None Detected
STEC	TM-25, PCR	10^0 CFU/25 g	NA	NA	Absent
Salmonella	TM-25, PCR	10^0 CFU/25 g	NA	NA	Absent

Notes

Free from visual mold, mildew, and foreign matter

Eden Thompson-Wright
3/12/2022
12:48:00 PM
PREPARED BY / DATE

Brianne Maillot
3/14/2022
9:51:00 AM
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:
10^2 = 100 CFU
10^3 = 1,000 CFU
10^4 = 10,000 CFU
10^5 = 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

C0207-001

7USC1639 Certificate of Analysis

sample ID 25809

certificate ID
1BJ61

total cannabinoids **93.01%**

THC total ND CBD total 87.33% terpenes

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

Stillwater Laboratories

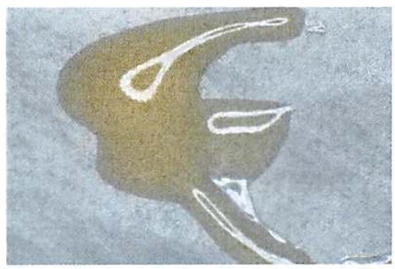
order 9806
analysis date 2/11/2021 12:21:52 PM
test tag 9806.2
sample wgt

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

extract



Potency per MSP-7.5.1.4

		LOD	LOQ	error (95%CI k=2)
tetrahydrocannabolic 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
E.coli	PASS	0CFU
Salmonella sp.	PASS	0CFU
molds	PASS	10000CFU
Ochratoxin A	PASS	20 ppb
Aflatoxin	PASS	20 ppb

Solvents MSP-7.5.1.7

		limit
Acetone	PASS	3100 ppm
Acetonitrile	PASS	6 ppm
Benzene	PASS	0 ppm
Butane	PASS	5000 ppm
Chloroform	PASS	0 ppm
Cyclohexane	PASS	3880 ppm
Ethanol	PASS	5000 ppm
Heptane	PASS	5000 ppm
Hexane	PASS	70 ppm
Isopropyl alcohol	PASS	320 ppm
Methanol	PASS	400 ppm
Pentane	PASS	5000 ppm
Propane	PASS	5000 ppm
Toluene	PASS	30 ppm
Xylenes	PASS	10 ppm

Metals MSP-7.5.1.11

		limit
Arsenic	PASS	200 ppb
Cadmium	PASS	200 ppb
Lead	PASS	500 ppb
Mercury	PASS	300 ppb

Pesticides MSP-7.5.1.8

		limit
Permethrin	PASS	20.00 ppm
Phosmet	PASS	0.20 ppm
Piperonylbutoxide	PASS	8.00 ppm
Prallethrin	PASS	0.40 ppm
Propiconazole	PASS	20.00 ppm
Propoxur	PASS	0.00 ppm
Pyrethrin	PASS	1.00 ppm
Pyridaben	PASS	3.00 ppm
Spinetoram	PASS	3.00 ppm
Spinosad	PASS	3.00 ppm
Spiromesifen	PASS	12.00 ppm
Spirotetramat	PASS	13.00 ppm
Spiroxamine	PASS	0.00 ppm
Tebuconazole	PASS	2.00 ppm
Thiacloprid	PASS	0.10 ppm
Thiamethoxam	PASS	4.50 ppm
Trifloxystrobin	PASS	30.00 ppm

Pesticides MSP-7.5.1.8

		limit
Abamectin	PASS	0.30 ppm
Acephate	PASS	5.00 ppm
Acequinocyl	PASS	4.00 ppm
Acetamiprid	PASS	5.00 ppm
Aldicarb	PASS	0.00 ppm
Azoxystrobin	PASS	40.00
Bifenazate	PASS	5.00 ppm
Bifenthrin	PASS	0.50 ppm
Boscalid	PASS	10.00
Carbaryl	PASS	0.50 ppm
Carbofuran	PASS	0.00 ppm
Chloantraniliprole	PASS	40.00
Chlorfenapyr	PASS	0.00 ppm
Chlorpyrifos	PASS	0.00 ppm
Clofentezine	PASS	0.50 ppm
Coumaphos	PASS	0.00 ppm
Cyfluthrin	PASS	1.00 ppm
Cypermethrin	PASS	1.00 ppm
Daminozide	PASS	0.00 ppm
Dichlorvos	PASS	0.00 ppm
Diazinon	PASS	0.20 ppm
Dimethoate	PASS	0.00 ppm
Etoxazole	PASS	1.50 ppm
Fenoxycarb	PASS	0.00 ppm
Fenpyroximate	PASS	2.00 ppm

Pesticides MSP-7.5.1.8

		limit
Fipronil	PASS	0.00 ppm
Flonicamid	PASS	2.00 ppm
Fludioxonil	PASS	30.00
Hexythiazox	PASS	2.00 ppm
Imazalil	PASS	0.00 ppm
Imidacloprid	PASS	3.00 ppm
Malathion	PASS	5.00 ppm
Metalaxyl	PASS	15.00
Methiocarb	PASS	0.00 ppm
Methomyl	PASS	0.10 ppm
Methyl parathion	PASS	0.00 ppm
Mevinphos	PASS	0.00 ppm
Myclobutanil	PASS	9.00 ppm
Naled	PASS	0.50 ppm
Oxamyl	PASS	0.20 ppm
Paclobutrazol	PASS	0.00 ppm
Permethrin	PASS	20.00

INSTRUMENTS
potency: HPLC (LC2030C-UV)
terpenes: GCMS (QP2020/HS20)
solvents: GCMS (QP2020/HS20)
pesticides: LCMSMS (LC8060)
mycotoxins: LCMSMS (LC8050)
microbial: qPCR (AriaMx) and plating
metals: ICPMS (ICPMS-2030)

SECURITY FEATURE: WATERMARK MUST MATCH CERTIFICATE ID AND ISSUE DATE

Certified by:

Kyle Larson, MSc (Biology)
Deputy Director

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406-881-2019

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BioChroma Analytical Labs, LLC
1309 Record Crossing Rd
Dallas, TX 75235

Analytical Report

Report Date: 02/09/2022

Work Order: CHSG220119-034
Received Date: 01/19/2022
P.O. #:

Comments:

Sample Num: 22CH00544
Client Sample Num: 25mg w/ Curcumin
Comments:

Lot Number: 22BL04375

Analysis	Method Reference	Result	Unit	Analysis Date	Approval Date
Curcuminoid- Bis-demethoxycurcumin	AOAC 2016.16	0.234	mg/svg	01/29/2022	02/09/2022
Curcuminoid- Curcumin	AOAC 2016.16	8.19	mg/svg	01/29/2022	02/09/2022
Curcuminoid- Demethoxycurcumin	AOAC 2016.16	1.78	mg/svg	01/29/2022	02/09/2022
Curcuminoid- Total Curcuminoids	AOAC 2016.16	10.2	mg/svg	01/29/2022	02/09/2022

Reviewed by:

Cheri Turman, PhD., Vice President