

CERTIFICATE OF ANALYSIS

PRODUCT NAME: CBD Softgels with Ewtewo kp

PRODUCT STRENGTH: 25 mg CBD / 32 mg Ewtewo ko

TINCTURE BATCH: 434; 4C **BEST BY DATE:** 2; 464245 GC: H; 9 @61 @ LOT: 43G2224977

Click on the links to view third-party reports

Physical Atttributes

Test	Method	Specification	Results
Color	Joy Internal	Tgf	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
Potency - Total CBD	HPLC-UV DAD	$LOQ^*: \geq product \ strength \\ mg \ / \ bottle$	'(mg	PASS
Potency - D9-THC	HPLC-UV DAD	LOQ: <0.01% THC (Broad Spectrum)	Below LOQ	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	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 < 7 ppb Ochratoxin < 7"ppb	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

Values expressed in scientific notation.

Quality Certified 10^3=1,000

Kayla Kolber /

10/GÎ /2021

Date

^{**}Colony Forming Units per Gram † Parts Per Million †† Part Per Billion



Official Compliance: Colorado CERTIFICATE OF ANALYSIS

Joy Organics 25 mg Curcumin

Batch ID or Lot Number:

21E0002755

Test:

Potency

Reported:

9/29/21

Matrix:

Unit

Test ID:

T000165896

Started: 9/28/21

USDA License:

N/A

Status:

Method:

Received:

Sampler ID:

TM14 (HPLC-DAD): Potency -N/A

Standard Cannabinoid Analysis

(Colorado Panel)

09/27/2021 @ 11:13 AM

N/A

CANNABINOID PROFILE

Compound	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.216	0.727	ND	ND	Mores
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.244	0.820	ND	ND	# of Servings = 1
Cannabidiolic acid (CBDA)	0.306	0.775	ND	ND	Sample Weight=0.624g
Cannabidiol (CBD)	0.298	0.756	34.003	54.48	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.269	0.903	ND	ND	
Cannabinolic Acid (CBNA)	0.154	0.517	ND	ND	
Cannabinol (CBN)	0.070	0.237	ND	ND	
Cannabigerolic acid (CBGA)	0.226	0.758	ND	ND	
Cannabigerol (CBG)	0.054	0.181	2.153	3.45	
Tetrahydrocannabivarinic Acid (THCVA)	0.191	0.641	ND	ND	
Tetrahydrocannabivarin (THCV)	0.049	0.165	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.128	0.323	ND	ND	
Cannabidivarin (CBDV)	0.070	0.179	ND	ND	
Cannabichromenic Acid (CBCA)	0.087	0.292	ND	ND	
Cannabichromene (CBC)	0.095	0.319	ND	ND	
Total Cannabinoids			36.156	57.93	
Total Potential THC**			ND	ND	
Total Potential CBD**			34.003	54.48	

Daniel Westernant

Daniel Weidensaul 29-Sep-2021 01:41 PM

Somenthe Small

Sam Smith 29-Sep-21 1:44 PM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

= % (w/w) = Percent (Weight of Analyte / Weight of Product)

- * Indicates a value below the Limit of Quantitiation (LOQ) and above the Limit of Detection (LOD)
- ** 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.





Joy Organics 25 mg Curcumin

Batch ID or Lot Number:

Test:

Reported:

21E0002755

Pesticides

9/29/21

Matrix:

Concentrate

Test ID:

t000165897

Started: 9/28/21

USDA License:

Sampler ID:

N/A

Status: N/A Method:

TM17(LC-QQQ LC MS/MS):

Received:

09/27/2021 @ 11:13 AM

N/A

PESTICIDE DETERMINATION

Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb
Acephate	41	ND	Fenoxycarb	42	ND	Paclobutrazol	42	ND
Acetamiprid	40	ND	Fipronil	33	ND	Permethrin	287	ND
Avermectin	316	ND	Flonicamid	51	ND	Phosmet	43	ND
Azoxystrobin	43	ND	Fludioxonil	295	ND	Prophos	293	ND
Bifenazate	46	ND	Hexythiazox	47	ND	Propoxur	41	ND
Boscalid	54	ND	lmazalil	284	ND	Pyridaben	298	ND
Carbaryl	39	ND	Imidacloprid	42	ND	Spinosad A	35	ND
Carbofuran	41	ND	Kresoxim-methyl	150	ND	Spinosad D	54	ND
Chlorantraniliprole	53	ND	Malathion	299	ND	Spiromesifen	272	ND
Chlorpyrifos	500	ND	Metalaxyl	43	ND	Spirotetramat	305	ND
Clofentezine	285	ND	Methiocarb	42	ND	Spiroxamine 1	18	ND
Diazinon	290	ND	Methomyl	44	ND	Spiroxamine 2	24	ND
Dichlorvos	290	ND	MGK 264 1	160	ND	Tebuconazole	290	ND
Dimethoate	42	ND	MGK 264 2	136	ND	Thiacloprid	41	ND
E-Fenpyroximate	317	ND	Myclobutanil	40	ND	Thiamethoxam	43	ND
Etofenprox	44	ND	Naled	44	ND	Trifloxystrobin	43	ND
Etoxazole	307	ND	Oxamyl	1500	ND	A COLUMN TO A COLU		

Samantha Smul

Sam Smith 9/29/2021 5:13:00 PM

Courtny licholds

Courtney Richards 9/29/2021 7:12:00 PM

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Definitions

LOQ = Limit of Quantification ppb = Parts per Billion

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Official Compliance: Colorado CERTIFICATE OF ANALYSIS

SG25C

N/A

Batch ID or Lot Number: Reported: Test: 21292A **Microbial** 10/23/21 **Contaminants**

Test ID: Started: **USDA License:** Matrix: **Finished Product** T000170830 10/20/21 N/A

Methods: Sampler ID: Status: Received: TM25 (qPCR)

10/20/2021 @ 10:45 AM

TM24, TM26, TM27(Culture Plating): Microbial (Colorado Panel)

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
E. coli (STEC)	TM-25, PCR	1 CFU/25 g	NA	NA	Absent
Salmonella	TM-25, PCR	1 CFU/25 g	NA	NA	Absent

Notes

N/A

Free from visual mold, mildew, and foreign matter

Jackson Osaghae-Nosa 10/23/2021 2:45:00 PM

APPROVED BY / DATE

Courtney Richards 10/23/2021 11:44:00 PM

PREPARED 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

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Official Compliance: Colorado CERTIFICATE OF ANALYSIS

Joy Organics 25 mg Curcumin

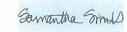
Batch ID or Lot Number: 21E0002755	Test: Metals	Reported: 9/30/21	
Matrix: Unit Co	Test ID: T000165899	Started: 9/29/21	USDA License: N/A
Status: N/A	Method: TM19 (ICP-MS): Heavy Metals (Colorado Panel)	Received: 09/27/2021 @ 11:13 AM	Sampler ID: N/A

HEAVY METALS DETERMINATION

Compound	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.047 - 4.73	ND	
Cadmium	0.046 - 4.60	ND	
Mercury	0.044 ~ 4.38	ND	
Lead	0.048 - 4.76	ND	



Ryan Weems 30-Sep-21 12:59 PM



Sam Smith 30-Sep-21 1:02 PM

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Definitions

ND = None Detected (Defined by Dynamic Range of the method)



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Official Compliance: Colorado

CERTIFICATE OF ANALYSIS

Joy Organics 25 mg Curcumin

Batch ID or Lot Number:

Reported:

21E0002755

Mycotoxins

10/1/21

Matrix:

Concentrate

Test ID:

T000165901

Started:

9/29/21

USDA License:

N/A

Status: N/A

Method:

Received:

Mycotoxins (Colorado Panel)

TM18 (UHPLC-QQQ LCMS/MS):

09/27/2021 @ 11:13 AM

Sampler ID:

N/A

MYCOTOXIN DETERMINATION

Compound	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	1.7 - 123.3	ND	N/A
Aflatoxin B1	1 - 31.6	ND	
Aflatoxin B2	1 - 31.2	ND	
Aflatoxin G1	0.9 - 31.2	ND	
Aflatoxin G2	1.1 - 30.1	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	



Sam Smith 30-Sep-21 11:46 AM

Cauthy Richards

APPROVED BY / DATE

Courtney Richards 1-Oct-21 8:35 AM

PREPARED BY / DATE

Definitions

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







Official Compliance: Colorado

CERTIFICATE OF ANALYSIS

Joy Organics 25 mg Curcumin

Batch ID or Lot Number:

Test:

Reported:

21E0002755

Residual Solvents

9/29/21

Matrix: N/A

Test ID:

Started: 9/29/21

USDA License:

N/A

Status:

Methods:

T000165900

Received:

Sampler ID:

N/A

TM04 (GC-MS): Residual Solvents 09/27/2021 @ 11:13 AM

N/A

(Colorado Panel)

RESIDUAL SOLVENTS DETERMINATION

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes	
Propane	88 - 1758	*ND		
Butanes	177 - 3537	*ND		
(Isobutane, n-Butane) Methanol	64 - 1278	*ND		
Pentane	93 - 1854	*ND		
Ethanol	99 - 1980	*ND		
Acetone	101 - 2012	*ND		
Isopropyl Alcohol	109 - 2186	*ND		
Hexane	6 - 124	*ND		
Ethyl Acetate	102 - 2048	*ND		
Benzene	0 - 4	*ND		
Heptanes	97 - 1945	*ND		
Toluene	18 - 369	*ND		
Xylenes	134 - 2677	*ND		
(m,p,o-Xylenes)	137 2077	ND		



Daniel Weidensaul 29-Sep-21 7:33 PM



Ryan Weems 29-Sep-21 7:35 PM

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Definitions

* ND = None Detected (Defined by Dynamic Range of the method)



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