JOYORGANICS

CERTIFICATE OF ANALYSIS

PRODUCT NAME: PRODUCT STRENGTH: BATCH: **BEST BY DATE: HEMP** EXTRACT LOT:

lov	Organics	CBD	Gummies	for	Sleen
'Oy	Organics	CDD	Guinnings	101	Biccp

30mg CBD, 3mg CBN, 1mg THC, + 3mg Melatonin / gummy 230803A 6/22/2025 91721041

Physical Atttributes

Test Method		Specification	Results
Color	Joy Internal	Purple	PASS
Odor	Joy Internal	Sweet, berry	PASS
Appearance	Joy Internal	Purple gummies with sugar coating in child proof container	PASS
Primary Package Eval.	Joy Internal	Container clean and free of filth. Container caps tight and seals intact	PASS
Secondary Package Eval.	Joy Internal	Labeling Compliance Checked, 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	*NLT 30 mg / gummy	37mg	PASS
Potency - D9-THC	HPLC-UV DAD	<0.3% (full spectrum)	1.1mg	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 Panel	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 Quantitation, † Parts Per Million † Part Per Billion CFU/g=Colony Forming Units per Gram * Nothing Less Than 10°2=100 CFU 10°3=1,000 CFU

Quality Certified

6

Name

8/18/2023

Date

2519 S. Shields St. #1042, Fort Collins, CO 80526 Tel: (833) 569-7223 www.joyorganics.com

FO-106 Certificate of Analysis Rev. 1.2 - Effective Date: 6/29/2022

Page 1 of 1



Certificate of Analysis

Order No. 546113 Sample No. 1165421

SAMPLE INFORMATION

Description Lot Number	30 mg CBD Sleep Gummy with Melatonin 230803A
Category (Type) Received	Non-Inhalable Edible (Gummy) July 03, 2023

ANALYTICAL RESULTS

Analysis	Cannabinoid Profile
Instrument	Liquid Chromatography Diode Array Detector (LC-DAD)
Method	MF-CHEM-15
Analysis Date	July 03, 2023 to July 10, 2023

Cannabinoid	mg/g	%	mg/serving
Δ8-THC	ND	ND	ND
Δ9-THC	0.26	0.026	1.18
Δ9-THCA	ND	ND	ND
THCV	ND	ND	ND
THCVA	ND	ND	ND
CBD	8.27	0.827	37.06
CBDA	ND	ND	ND
CBC	0.12	0.012	0.56
CBCA	ND	ND	ND
CBDV	<loq< td=""><td><loq< td=""><td><loq< td=""></loq<></td></loq<></td></loq<>	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
CBG	<loq< td=""><td><loq< td=""><td><loq< td=""></loq<></td></loq<></td></loq<>	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
CBGA	ND	ND	ND
CBN	0.87	0.087	3.92
Total THC	0.26	0.026	1.18
Total CBD	8.27	0.827	37.06
Total Cannabinoids	9.53	0.953	42.72
Sum of Cannabinoids	9.53	0.953	42.72
Serving Weight (g)	4.4807		

Comments

This result of this sample is confirmed with a retest.

Reported by **Anresco, Inc.**



July 10, 2023

Limit of Detection: 0.0133 mg/g Limit of Quantitation: 0.0400 mg/g ND = None Detected <LOQ = Below Limit of Quantitation LOD = Limit of Detection Total THC = Δ 9-THC + (0.877 * Δ 9-THCA) Total CBD = CBD + (0.877 * CBDA) Total Cannabinoids = Σ (neutral cannabinoids) + [0.877 * Σ (acidic cannabinoids)]

If there are any questions with this report, please contact "compliance@anresco.com".

Anresco Laboratories www.anresco.com 1375 Van Dyke Ave., San Francisco, CA 94124 Sample #: 1165421 Batch #: 91721041 page**1** of **1** Report ID: T-3

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Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 2 of 5
230803A	Various	Concentrate	
Reported:	Started:	Received:	
28Jun2023	26Jun2023	26Jun2023	

Residual Solvents -Colorado Compliance

Test ID: T000247461 Methods: TM04 (GC-MS): Residual			
Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	115 - 2291	ND	
Butanes (lsobutane, n-Butane)	231 - 4616	ND	
Methanol	70 - 1391	ND	
Pentane	114 - 2278	ND	
Ethanol	118 - 2361	ND	
Acetone	112 - 2242	ND	
Isopropyl Alcohol	117 - 2339	ND	
Hexane	7 - 135	ND	
Ethyl Acetate	115 - 2300	ND	
Benzene	0.2 - 4.7	ND	
Heptanes	115 - 2296	ND	
Toluene	20 - 409	ND	
Xylenes (m,p,o-Xylenes)	154 - 3078	ND	

Final Approval

Samantha Smith 29Jun2023 09:41:00 AM MDT

Sam Smith

Karen Winternheimer 29Jun2023 Mtenheimen 09:45:00 AM MDT

PREPARED BY / DATE





Batch ID or Lot Number: 230803A	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 3 of 5	
Reported: 28Jun2023	Started: 26Jun2023	Received: 26Jun2023		

Pesticides

Test ID: T000247458 Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)
Abamectin	308 - 2726	ND	Malathion	288 - 2702	ND
Acephate	43 - 2716	ND	Metalaxyl	46 - 2683	ND
Acetamiprid	42 - 2723	ND	Methiocarb	42 - 2713	ND
Azoxystrobin	46 - 2669	ND	Methomyl	42 - 2746	ND
Bifenazate	44 - 2667	ND	MGK 264 1	165 - 1708	ND
Boscalid	34 - 2701	ND	MGK 264 2	103 - 1089	ND
Carbaryl	39 - 2722	ND	Myclobutanil	45 - 2719	ND
Carbofuran	43 - 2710	ND	Naled	44 - 2717	ND
Chlorantraniliprole	43 - 2726	ND	Oxamyl	41 - 2764	ND
Chlorpyrifos	39 - 2759	ND	Paclobutrazol	46 - 2715	ND
Clofentezine	288 - 2741	ND	Permethrin	275 - 2730	ND
Diazinon	282 - 2686	ND	Phosmet	46 - 2656	ND
Dichlorvos	285 - 2755	ND	Prophos	293 - 2688	ND
Dimethoate	41 - 2731	ND	Propoxur	43 - 2714	ND
E-Fenpyroximate	272 - 2762	ND	Pyridaben	282 - 2760	ND
Etofenprox	43 - 2725	ND	Spinosad A	30 - 2076	ND
Etoxazole	278 - 2748	ND	Spinosad D	58 - 670	ND
Fenoxycarb	13 - 2670	ND	Spiromesifen	269 - 2733	ND
Fipronil	60 - 2716	ND	Spirotetramat	284 - 2693	ND
Flonicamid	52 - 2707	ND	Spiroxamine 1	18 - 1200	ND
Fludioxonil	306 - 2679	ND	Spiroxamine 2	24 - 1504	ND
Hexythiazox	40 - 2786	ND	Tebuconazole	287 - 2718	ND
Imazalil	267 - 2685	ND	Thiacloprid	41 - 2710	ND
Imidacloprid	45 - 2814	ND	Thiamethoxam	39 - 2741	ND
Kresoxim-methyl	45 - 2697	ND	Trifloxystrobin	44 - 2705	ND

Final Approval



Karen Winternheimer 29Jun2023 10:44:00 AM MDT

Sam Smith Samantha Smith 29Jun2023 10:46:00 AM MDT

APPROVED BY / DATE



Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 4 of 5
230803A	Various	Concentrate	
Reported:	Started:	Received:	
28Jun2023	26Jun2023	26Jun2023	

Microbial **Contaminants** -**Colorado Compliance**

Test ID: T000247459 Methods: TM25 (qPCR) TM24, TM26,

TM27 (Culture Plating): Microbial			Quantitation		
(Colorado Panel)	Method	LOD	Range	Result	Notes
STEC	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	Free from visual mold, mildew, and - foreign matter
Salmonella	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	
Total Yeast and Mold*	TM24: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	
Total Aerobic Count*	TM26: Culture Plating	10 ² CFU/g	1.0x10 ³ - 1.5x10 ⁵	<lloq< td=""><td>-</td></lloq<>	-
Total Coliforms*	TM27: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	•
					-

Brianne Maillot

03:00:00 PM MDT

Final Approval

29Jun2023 Eden Thompson

10:28:00 AM MDT

Eden Thompson-Wright

PREPARED BY / DATE

Heavy Metals -**Colorado Compliance**

Test ID: T000247460

Methods: TM19 (ICP-MS): Heavy	
Matala	

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.03 - 3.25	ND	
Cadmium	0.05 - 4.67	ND	
Mercury	0.04 - 3.85	ND	
Lead	0.04 - 3.98	0.07	•

Breanne Maillot 29Jun2023

APPROVED BY / DATE

Final Approval

Sam Smith 30Jun2023 Samantha Smoth 10:19:00 AM MDT PREPARED BY / DATE

APPROVED BY / DATE

Karen Winternheimer 30Jun2023 Menhemen 10:25:00 AM MDT



Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 5 of 5
230803A	Various	Concentrate	
Reported:	Started:	Received:	
28Jun2023	26Jun2023	26Jun2023	

Mycotoxins - Colorado Compliance

~~		P''			•
Tes	t ID	: TO	002	474	162

Methods: TM18 (UHPLC-QQQ					
LCMS/MS): Mycotoxins	Dynamic Range (ppb)	Result (ppb)	Notes		
Ochratoxin A	2.28 - 131.86	ND	N/A		
Aflatoxin B1	1.01 - 32.40	ND			
Aflatoxin B2	1.01 - 33.51	ND			
Aflatoxin G1	1.14 - 32.60	ND			
Aflatoxin G2	1.14 - 33.87	ND			
Total Aflatoxins (B1, B2, G1, and	G2)	ND			

Final Approval

Sam Smith Somentha Smoll 03Jul2023 08:46:00 AM MDT

APPROVED BY / DATE

Karen Winternheimer 03Jul2023 Mtenheumen 08:49:00 AM MDT





Definitions

https://results.botanacor.com/api/v1/coas/uuid/a945fa85-8fb7-4fef-91d7-a0957b7366f4

LOD = Limit of Detection, ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation, PPB = Parts per Billion, % = % (w/w) = Percent (weight of analyte / weight of product). ND = None Detected (defined by dynamic range of the method). Total Potential Delta 9-THC or CBD is calculated to take into account the loss of a carboxyl group during decarboxylation step, using the following formulas: Total Potential Delta 9-THC = Delta 9-THC + (Delta 9-THCa *(0.877)) and Total CBD = CBD + (CBDa *(0.877)). Fail equates to a concentration level of Delta 9-THC, on a dry weight basis, higher than 0.3 percent + or – the measurement uncertainty. Total Potential THC 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)). ALOQ = Above Limit Of Quantitation (defined by dynamic range of the method), CFU/g = Colony Forming Units per Gram. 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 SC Laboratories, Inc., in the condition it was received. 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. This report may not be reproduced, except in full, without the written approval of SC Laboratories, Inc. ISO/IEC 17025:2017 Accredited by A2LA. Some tests listed on this COA may not be within our scope of A2LA accreditation. Please visit A2LA for more details.



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Batch ID or Lot Number: 230803A	Test: Microbial Cont a	aminants	Reported: 11Aug2023		USDA License: N/A	
Matrix:	Test ID:		Started:		Sampler ID:	
Finished Product	T000251736		08Aug2023		N/A	
	Method(s):		Received:		Status:	
	TM25 (qPCR) TM (Culture Plating) Panel)	24, TM26, TM27 : Microbial (Colorado	07Aug2023)		Active	
Microbial			0			
Contaminants	Method	LOD	Quantitation Range	Result	Notes	
STEC	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	Free from visual mold, mildew, and	
Salmonella	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	— foreign matter	
Total Yeast and Mold*	TM24: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected		
Total Aerobic Count*	TM26: Culture Plating	10 ² CFU/g	1.0x10 ³ - 1.5x10 ⁵	None Detected		
Total Coliforms*	TM27: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	-	

Final Approval

Brianne Maillot

Brianne Maillot 11Aug2023

Eden Thompson

Eden Thompson-Wright 11Aug2023 09:46:00 AM MDT



PREPARED BY / DATE

09:04:00 AM MDT

APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/50f57a64-a2ac-4dc9-abe7-124e7134d216

Definitions

* Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form. Examples: $10^2 = 100 \text{ CFU}$, $10^3 = 1,000 \text{ CFU}$, $10^4 = 10,000 \text{ CFU}$, $10^5 = 100,000 \text{ CFU}$ CFU/g = Colony Forming Units per Gram, LOD = Limit of Detection

ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation STEC = Shiga Toxin-Producing E. coli

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