

PRODUCT NAME: Joy Organics CBD Gummy Mixed Berry (Sleep) **PRODUCT STRENGTH:** 30mg CBD, 1mg THC and 3mg Melatonin / Gummy

BATCH:

Various Lots

BEST BY DATE: HEMP

5/23/2024, 5/5&6/ 2024

EXTRACT LOT:

631

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 10 mg / gummy	34.023mg	PASS
Potency - D9-THC	HPLC-UV DAD	LOQ: <0.01% (broad spectrum)	1.056mg	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

5/20/2022

Date

Quality Certified



Prepared for:

OPEN BOOK EXTRACTS

317 LUCY GARRETT ROAD ROXBORO, NC USA 27574

30mg FS Mixed Berry + CBN & Melatonin

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 1 of 5
631	Various	Concentrate	
Reported:	Started:	Received:	
19May2022	02May2022	02May2022	

Cannabinoids - Colorado Compliance

Test ID: T000204110

Methods: TM14 (HPLC-DAD): Potency - Standard

Cannabinoid Analysis	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.008	0.024	0.035	0.35	Amendment to
Cannabichromenic Acid (CBCA)	0.007	0.022	ND	ND	certificate
Cannabidiol (CBD)	0.018	0.061	1.031	10.31	T000204110 issued
Cannabidiolic Acid (CBDA)	0.018	0.063	ND	ND	on 02May2022, batch ID updated.
Cannabidivarin (CBDV)	0.004	0.015	0.009*	0.09*	batch ib upuateu.
Cannabidivarinic Acid (CBDVA)	0.008	0.026	ND	ND	
Cannabigerol (CBG)	0.004	0.013	0.023	0.23	
Cannabigerolic Acid (CBGA)	0.019	0.056	ND	ND	
Cannabinol (CBN)	0.006	0.018	0.119	1.19	
Cannabinolic Acid (CBNA)	0.013	0.038	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.022	0.067	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.020	0.061	0.032	0.32	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.018	0.054	ND	ND	
Tetrahydrocannabivarin (THCV)	0.004	0.012	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.016	0.048	ND	ND	
Total Cannabinoids			1.249	12.49	
Total Potential THC			0.032	0.32	
Total Potential CBD			1.031	10.31	

Final Approval

PREPARED BY / DATE

Ryan Weems 19May2022 03:11:00 PM MDT

Sawantha Small 19May2022 03:19:00 PM MDT

Sam Smith

APPROVED BY / DATE

Heavy Metals -Colorado Compliance

Test ID: T000204113

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Not
Arsenic	0.04 - 4.30	ND	Ame
Cadmium	0.04 - 4.16	ND	T000 bato
Mercury	0.06 - 5.73	ND	
Lead	0.04 - 4.07	ND	

nendment to certificate 00204113 issued on 03May2022, tch ID updated.

Final Approval

PREPARED BY / DATE

Ryan Weems 19May2022 01:43:00 PM MDT



Sam Smith 19May2022 02:17:00 PM MDT



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Pesticides

Test ID: T000204111 Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)	
Abamectin	370 - 2591	ND	
Acephate	43 - 2785	ND	
Acetamiprid	39 - 2764	ND	
Azoxystrobin	50 - 2751	ND	
Bifenazate	38 - 2689	ND	
Boscalid	41 - 2829	ND	
Carbaryl	39 - 2732	ND	
Carbofuran	43 - 2727	ND	
Chlorantraniliprole	57 - 2716	ND	
Chlorpyrifos	41 - 2676	ND	
Clofentezine	290 - 2773	ND	
Diazinon	266 - 2710	ND	
Dichlorvos	278 - 2799	ND	
Dimethoate	46 - 2748	ND	
E-Fenpyroximate	279 - 2765	ND	
Etofenprox	44 - 2712	ND	
Etoxazole	303 - 2667	ND	
Fenoxycarb	32 - 2691	ND	
Fipronil	10 - 2618	ND	
Flonicamid	49 - 2710	ND	
Fludioxonil	268 - 2761	ND	
Hexythiazox	46 - 2678	ND	
Imazalil	273 - 2705	ND	
Imidacloprid	44 - 2772	ND	
Kresoxim-methyl	37 - 2663	ND	

	Dynamic Range (ppb)	Result (ppb)
Malathion	276 - 2732	ND
Metalaxyl	43 - 2677	ND
Methiocarb	45 - 2770	ND
Methomyl	41 - 2768	ND
MGK 264 1	164 - 1632	ND
MGK 264 2	115 - 1148	ND
Myclobutanil	35 - 2826	ND
Naled	50 - 2755	ND
Oxamyl	39 - 2787	ND
Paclobutrazol	40 - 2708	ND
Permethrin	281 - 2618	ND
Phosmet	42 - 2702	ND
Prophos	265 - 2783	ND
Propoxur	42 - 2732	ND
Pyridaben	298 - 2651	ND
Spinosad A	33 - 2264	ND
Spinosad D	52 - 487	ND
Spiromesifen	302 - 2674	ND
Spirotetramat	273 - 2683	ND
Spiroxamine 1	18 - 1194	ND
Spiroxamine 2	25 - 1593	ND
Tebuconazole	284 - 2681	ND
Thiacloprid	42 - 2776	ND
Thiamethoxam	48 - 2749	ND
Trifloxystrobin	43 - 2768	ND

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PREPARED BY / DATE

Ryan Weems 19May2022 02:05:00 PM MDT

Samantha Smid 19May2022 02:30:00 PM MDT

Sam Smith



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Microbial Contaminants -Colorado Compliance

Test ID: T000204112

Methods: TM25 (qPCR) TM24, TM26,

TM27 (Culture Plating): Microbial			Quantitation	
(Colorado Panel)	Method	LOD	Range	Result
STEC	TM25: PCR	10 ⁰ CFU/25g	NA	Absent
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	None Detected
Total Coliforms*	TM27: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected

Notes

Free from visual mold, mildew, and foreign matter Amendment to report T000204112 for batch ID correction. SCH 19May2022

Final Approval

PREPARED BY / DATE

Sarah Henning 19May2022 03:28:00 PM MDT

Carly Bade

Carly Bader 19May2022 03:38:00 PM MDT

APPROVED BY / DATE



https://results.botanacor.com/api/v1/coas/uuid/2849a066-1630-4919-9385-6b750467906a

Definitions

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 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. 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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Mycotoxins - Colorado Compliance

Test ID: T000204115

Methods: TM18 (UHPLC-QQQ

LCMS/MS): Mycotoxins	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	3.47 - 129.14	ND	Amendi
Aflatoxin B1	1.10 - 33.19	ND	———— 05May2 N/A
Aflatoxin B2	1.20 - 33.12	ND	
Aflatoxin G1	1.17 - 32.96	ND	
Aflatoxin G2	1.26 - 33.54	ND	
Total Aflatoxins (B1, B2, G1, ar	nd G2)	ND	

Amendment to T000204115 issued 05May2022 to correct batch ID. N/A

Final Approval

Samantha Smoll

PREPARED BY / DATE

Sam Smith 19May2022

12:11:00 PM MDT

Ryan Weems 19May2022



Prepared for:

OPEN BOOK EXTRACTS

317 LUCY GARRETT ROAD ROXBORO, NC USA 27574

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Residual Solvents -Colorado Compliance

Test ID: T000204114

Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	56 - 1120	ND	Amendment to certificate
Butanes (Isobutane, n-Butane)	119 - 2370	ND	T000204114 issued on 05May2022, batch ID updated.
Methanol	49 - 978	ND	
Pentane	67 - 1338	ND	
Ethanol	68 - 1361	>1361	
Acetone	78 - 1553	ND	
Isopropyl Alcohol	80 - 1607	ND	
Hexane	5 - 95	ND	
Ethyl Acetate	79 - 1571	ND	
Benzene	0.2 - 3.1	ND	
Heptanes	74 - 1479	ND	
Toluene	14 - 287	ND	
Xylenes (m,p,o-Xylenes)	104 - 2080	ND	

Final Approval

Mygun Neuss

Ryan Weems 19May2022 12:51:00 PM MDT

PREPARED BY / DATE

Sowantha Smill

Sam Smith 19May2022 02:37:00 PM MDT