

PRODUCT NAME:	Delta 9 THC Sleep Gummies (Mixed Berry)
PRODUCT STRENGTH:	30mg CBD + 3mg Melatonin + 1mg THC per gummy
BATCH:	230515A
BEST BY DATE:	5/19/2024
EXTRACT LOT:	631

Physical Attributes

Test	Method	Specification	Results
Color	Internal	Purple	PASS
Odor	Internal	Sweet berry	PASS
Appearance	Internal	Sugar-coated	PASS
Primary Package Evaluation	Internal	Container clean and free of filth. Container caps tight and seals intact.	PASS
Secondary Package Evaluation	Internal	Labeling compliance checked, sufficient cushion material exists. Box taped & secured.	PASS

Review of Third-Party Analysis

Panel	Method	Specification	Results*	Pass/Fail
Potency - Total CBD	HPLC-UV-DAD	*NLT 25mg / gummy	34.023mg	PASS
Potency - Total D9-THC	HPLC-UV-DAD	LOQ: <0.03% (full 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 Industrial Hemp Extract	Absent	PASS
Microbial Salmonella	PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram	Absent	PASS
Microbial Yeast & 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): ≤1.5ppm Cadmium (Cd): ≤0.5ppm Lead (Pb): ≤0.5ppm Mercury (Hg): ≤1.5ppm	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 Manufacture* 10/2=100 CFU

10^3=1,000 CFU

Quality Certified Kristen Mefferd Name

5/20/2022

Date

2519 S. Shields St. #1095, Fort Collins, CO 80526 Tel: (866) 577-1239 | budder.com

FO-106 Certificate of Analysis Rev. 1.1 - Effective Date: 3.29.2023



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 updated.
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

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PREPARED BY / DATE	

Ryan Weems 19May2022 03:11:00 PM MDT Sam Smith 19May2022 03:19:00 PM MDT APPROVED BY / DATE

Heavy Metals -Colorado Compliance

Test ID: T000204113

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.30	ND	Amendment to certificate
Cadmium	0.04 - 4.16	ND	T000204113 issued on 03May2022, batch ID updated.
Mercury	0.06 - 5.73	ND	
Lead	0.04 - 4.07	ND	

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Ryan Weems 19May2022 01:43:00 PM MDT Sam Smith 19May2022 02:17:00 PM MDT APPROVED BY / DATE

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Result (ppb) ND ND

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317 LUCY GARRETT ROAD ROXBORO, NC USA 27574

30mg FS Mixed Berry + CBN & Melatonin		ROXBORO, NC USA 27574		
Batch ID or Lot Number: 631	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 3 of 5	
Reported: 19May2022	Started: 02May2022	Received: 02May2022		

Pesticides

Test ID: T000204111

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)
Abamectin	370 - 2591	ND	Malathion	276 - 2732
Acephate	43 - 2785	ND	Metalaxyl	43 - 2677
Acetamiprid	39 - 2764	ND	Methiocarb	45 - 2770
Azoxystrobin	50 - 2751	ND	Methomyl	41 - 2768
Bifenazate	38 - 2689	ND	MGK 264 1	164 - 1632
Boscalid	41 - 2829	ND	MGK 264 2	115 - 1148
Carbaryl	39 - 2732	ND	Myclobutanil	35 - 2826
Carbofuran	43 - 2727	ND	Naled	50 - 2755
Chlorantraniliprole	57 - 2716	ND	Oxamyl	39 - 2787
Chlorpyrifos	41 - 2676	ND	Paclobutrazol	40 - 2708
Clofentezine	290 - 2773	ND	Permethrin	281 - 2618
Diazinon	266 - 2710	ND	Phosmet	42 - 2702
Dichlorvos	278 - 2799	ND	Prophos	265 - 2783
Dimethoate	46 - 2748	ND	Propoxur	42 - 2732
E-Fenpyroximate	279 - 2765	ND	Pyridaben	298 - 2651
Etofenprox	44 - 2712	ND	Spinosad A	33 - 2264
Etoxazole	303 - 2667	ND	Spinosad D	52 - 487
Fenoxycarb	32 - 2691	ND	Spiromesifen	302 - 2674
Fipronil	10 - 2618	ND	Spirotetramat	273 - 2683
Flonicamid	49 - 2710	ND	Spiroxamine 1	18 - 1194
Fludioxonil	268 - 2761	ND	Spiroxamine 2	25 - 1593
Hexythiazox	46 - 2678	ND	Tebuconazole	284 - 2681
Imazalil	273 - 2705	ND	Thiacloprid	42 - 2776
Imidacloprid	44 - 2772	ND	Thiamethoxam	48 - 2749
Kresoxim-methyl	37 - 2663	ND	Trifloxystrobin	43 - 2768

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Ryan Weems 19May2022 02:05:00 PM MDT

Sam Smith 19May2022 Samantha mode

antha model 02:30:00 PM MDT

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317 LUCY GARRETT ROAD ROXBORO, NC USA 27574

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Microbial Contaminants -Colorado Compliance

Test ID: T000204112

Methods: TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial

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 Amendment to
Salmonella	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	report T000204112 for batch ID
Total Yeast and Mold*	TM24: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	correction. SCH 19May2022
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	

Quantitation

Final Approval

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Sarah Henning 19May2022 03:28:00 PM MDT

Carly Baden

APPROVED BY / DATE

Carly Bader 19May2022 03:38:00 PM MDT



Definitions

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

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-THC *****(0.877)) and Total CBD = (CBD *****(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 by dynamic range of the method) during decarboxylation step. Total Potential THC is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step. Total PC = THC + (THC *****(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.

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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631	Various	Concentrate	
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19May2022	02May2022	02May2022	

Mycotoxins - Colorado

Compliance D. TOOODO 444

Test ID: T000204115 Methods: TM18 (UHPLC-QQQ			
LCMS/MS): Mycotoxins	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	3.47 - 129.14	ND	Amendment to T000204115 issued 05May2022 to correct batch ID.
Aflatoxin B1	1.10 - 33.19	ND	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, and G2)		ND	

Final Approval

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Samanthe Small

Sam Smith 19May2022 12:11:00 PM MDT

Ryan Weems 19May2022 12:13:00 PM MDT

APPROVED BY / DATE



Prepared for: **OPEN BOOK EXTRACTS**

317 LUCY GARRETT ROAD

ROXBORO, NC USA 27574

30mg FS Mixed Berry + CBN & Melatonin Test, Test ID and Methods: Batch ID or Lot Number: Matrix: Page 4 of 5 631 Various Concentrate Started: Reported: Received: 19May2022 02May2022 02May2022

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	batch ID updated.
Methanol	49 - 978	ND	
Pentane	67 - 1338	ND	
Ethanol	68 - 1361	>1361	
Acetone	78 - 1553	ND	
lsopropyl 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



Ryan Weems 19May2022

12:51:00 PM MDT

Sam Smith 19May2022 Samantha Small 02:37:00 PM MDT

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