

Analytical Test Report

Science First. ORELAP ID: 4101 OLCC#: 010-10233216933

20756 High Desert Court STE 6, Bend, OR 97701 (541) 299-2008

Downshift FD

Lab ID: B231132-02

Shift Naturals Inc.

Harvest / Process Lot: 11/27/2023

METRC Batch ID: 11292023_L

METRC Sample Tag: 11292023_L

Date Sampled: 11/27/23

Date Printed: 11/28/23

Potency Analysis

Analytical Method: BBL-Potency_proprietary
BBLB SOP 009 - Potency Analysis by HPLC-UV-Vis

Cannabinoids	mg/g	LOQ	Notes
THCA	< LOQ	0.000957	
delta 9-THC	0.00423	0.000957	
delta 8-THC	< LOQ	0.000957	
CBDA	< LOQ	0.000957	
CBGA	< LOQ	0.000957	
CBD	0.0269	0.000957	
CBG	0.00113	0.000957	
CBN	< LOQ	0.000957	
CBC	0.00152	0.000957	
THCV	< LOQ	0.000718	
Total CBG	< LOQ	0.000957	
Total Cannabinoids	0.0311	0.000957	

Total THC
0.00423 mg/g

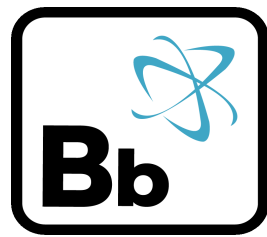
Total CBD
0.0269 mg/g

<LOQ - Results below the Limit of Quantitation

Acid form of THC/CBD are decarboxylated by heat, lose 12% of original mass as CO2. Result = "bioactive"

"Total" Cannabinoid accounts for decarboxylation and moisture content. Total THC = [(THCA*0.877) + Δ9THC] / (100%-MC)

Zoe Wiggers
Technical Director



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Laboratory ID: B231132-02

Quality Control Potency

Batch: B23K225 - BB Potency

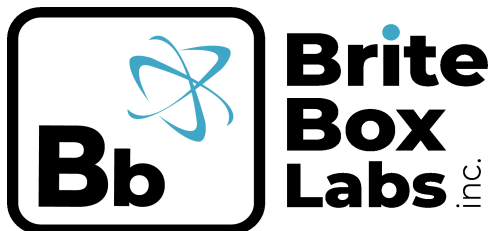
Blank(B23K225-BLK1)

Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	< LOQ	0.207	mg/g		11/28/23 09:45	11/28/23 16:11	
delta 9-THC	< LOQ	0.207	mg/g		11/28/23 09:45	11/28/23 16:11	
CBGA	< LOQ	0.207	mg/g		11/28/23 09:45	11/28/23 16:11	
CBDA	< LOQ	0.207	mg/g		11/28/23 09:45	11/28/23 16:11	
CBD	< LOQ	0.207	mg/g		11/28/23 09:45	11/28/23 16:11	
CBN	< LOQ	0.207	mg/g		11/28/23 09:45	11/28/23 16:11	
CBG	< LOQ	0.207	mg/g		11/28/23 09:45	11/28/23 16:11	
delta 8-THC	< LOQ	0.207	mg/g		11/28/23 09:45	11/28/23 16:11	
CBC	< LOQ	0.207	mg/g		11/28/23 09:45	11/28/23 16:11	
Total CBG	< LOQ	0.0207	mg/g		11/28/23 09:45	11/28/23 16:11	
THCV	< LOQ	0.207	mg/g		11/28/23 09:45	11/28/23 16:11	

LCS(B23K225-BS1)

Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	109	1.27	mg/g	90-110	11/28/23 09:45	11/28/23 16:11	
delta 9-THC	108	1.27	mg/g	90-110	11/28/23 09:45	11/28/23 16:11	
CBDA	108	1.27	mg/g	90-110	11/28/23 09:45	11/28/23 16:11	
CBD	110	1.27	mg/g	90-110	11/28/23 09:45	11/28/23 16:11	
delta 8-THC	104	1.27	mg/g	90-110	11/28/23 09:45	11/28/23 16:11	

Zoe Wiggers
Technical Director



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Laboratory ID: B231132-02

Notes and Definitions

- B Analyte detected in method blank, but not associated samples.
 - B2 Analyte detected in sample and associate method blank.
 - C Interference due to co-elution.
 - D Initial result exceeded calibration range, reported data are based on analysis of a dilution.
 - H Non-homogenous sample matrix affecting RPD and/or QC.
 - I Manual Integration was performed.
 - L Duplicate sample relative percent difference (RPD) exceeds QC limits.
 - M Anomalous results due to matrix interference
 - P Peaks manually split.
 - Q1 QC out of limits but still ok
 - Q2 Quality Control outside QC limits. Data considered estimate.
 - Q3 CCV was above the acceptance criteria. Non-detect samples are considered acceptable.
 - Q4 CCV was below the acceptance criteria, however the sample still exceeds the regulatory limit.
 - R Marginal Exceedence.
 - U Reported result is an estimate. The analyte was detected above the calibration range.
 - X Problems with initial analysis, reported data are from reinjection of prepared sample.
- <LOQ - Results below the Limit of Quantitation - Compound not detected

A handwritten signature in black ink, appearing to read "Zoe Wiggers".

Zoe Wiggers
Technical Director

EV21.BXD.094

Batch ID:	N/A	Test ID:	T000203092
Matrix:	Concentrate	Received:	04/14/2022 @ 09:52 AM
Test:	Microbial Contaminants	Started:	4/14/2022
Methods:	TM25 (PCR) TM24, TM26, TM27 (Culture Plating)	Reported:	4/18/2022

MICROBIAL CONTAMINANTS

Contaminant	Method	LOD	Quantitation Range	Result
Total Yeast and Mold*	TM-24 Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴ CFU/g	None Detected
Total Aerobic Count*	TM-26 Culture Plating	10 ² CFU/g	1.0x10 ³ - 1.5x10 ⁵ CFU/g	None Detected
Total Coliforms*	TM-27 Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴ CFU/g	None Detected
STEC	TM-25 PCR	10 ⁰ CFU/g	N/A	Absent
Salmonella	TM-25 PCR	10 ⁰ CFU/g	N/A	Absent

* Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form.

Examples: 10² = 100 CFU
10³ = 1,000 CFU
10⁴ = 10,000 CFU
10⁵ = 100,000 CFU


NOTES:

Free from visual mold, mildew, and foreign matter

DEFINITIONS:

CFU/g = Colony Forming Units per gram | LOD = Limit of Detection | STEC = Shiga toxin-producing E. coli
LLOQ = Lower Limit of Quantitation | ULOQ = Upper Limit of Quantitation

FINAL APPROVAL


Brett Hudson
4/17/2022
2:27:00 PM


Brianne Maillot
4/18/2022
9:16:00 AM

PREPARED BY / DATE

APPROVED BY / DATE

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 17025:2005 Accredited A2LA Certificate Number 4329.03. Testing associated with this certificate of analysis performed by an external ISO17025 accredited provider.



Certificate #4329.03


Prepared for:

EV21.BXD.094
EVG EXTRACTS

Batch ID or Lot Number: N/A	Test: Metals	Reported: 4/20/22	Location: 35715 HWY 40 #D203 EVERGREEN, CO 80439
Matrix: Concentrate Co	Test ID: T000203089	Started: 4/19/22	USDA License: N/A
Status: N/A	Method: TM19 (ICP-MS): Heavy Metals	Received: 04/14/2022 @ 09:52 AM	Sampler ID: N/A

HEAVY METALS DETERMINATION

Compound	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.041 - 4.13	ND	
Cadmium	0.044 - 4.37	ND	
Mercury	0.040 - 4.01	ND	
Lead	0.040 - 4.02	ND	


 Daniel Weidensaul
 20-Apr-22
 5:14 PM

PREPARED BY / DATE


 Ryan Weems
 20-Apr-22
 5:25 PM

APPROVED BY / DATE

Definitions

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

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Certificate #4329.02

Prepared for:

EV21.BXD.094
EVG EXTRACTS


Batch ID or Lot Number: N/A	Test: Mycotoxins	Reported: 4/19/22	Location: 35715 HWY 40 #D203 EVERGREEN, CO 80439
Matrix: Concentrate	Test ID: T000203091	Started: 4/18/22	USDA License: N/A
Status: N/A	Method: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	Received: 04/14/2022 @ 09:52 AM	Sampler ID: N/A

MYCOTOXIN DETERMINATION

Compound	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	3.2 - 129.7	ND	N/A
Aflatoxin B1	1.1 - 31.9	ND	
Aflatoxin B2	1.1 - 32	ND	
Aflatoxin G1	1 - 31.9	ND	
Aflatoxin G2	1 - 31.7	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	


 Ryan Weems
 19-Apr-22
 12:45 PM

PREPARED BY / DATE


 Sam Smith
 19-Apr-22
 12:48 PM

APPROVED BY / DATE

Definitions

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

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Certificate #4329.02

Prepared for:

EV21.BXD.094


EVG EXTRACTS

Batch ID or Lot Number: N/A	Test: Residual Solvents	Reported: 4/19/22	Location: 35715 HWY 40 #D203 EVERGREEN, CO 80439
Matrix: N/A	Test ID: T000203090	Started: 4/18/22	USDA License: N/A
Status: N/A	Methods: TM04 (GC-MS): Residual Solvents	Received: 04/14/2022 @ 09:52 AM	Sampler ID: N/A

RESIDUAL SOLVENTS DETERMINATION

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	100 - 1993	*ND	
Butanes (Isobutane, n-Butane)	203 - 4063	*ND	
Methanol	63 - 1254	*ND	
Pentane	103 - 2061	*ND	
Ethanol	106 - 2118	*ND	
Acetone	104 - 2079	*ND	
Isopropyl Alcohol	102 - 2041	*ND	
Hexane	6 - 125	*ND	
Ethyl Acetate	103 - 2064	*ND	
Benzene	0.2 - 4.3	*ND	
Heptanes	98 - 1969	*ND	
Toluene	18 - 370	*ND	
Xylenes (m,p,o-Xylenes)	131 - 2613	*ND	

 Hannah Wright
19-Apr-22
4:38 PM

 Ryan Weems
19-Apr-22
4:52 PM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

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

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Certificate #4329.02


Prepared for:


EV21.BXD.094
EVG EXTRACTS

Batch ID or Lot Number:	Test: Pesticides	Reported: 4/18/22	Location: 35715 HWY 40 #D203 EVERGREEN, CO 80439
Matrix: Concentrate	Test ID: t000203088	Started: 4/15/22	USDA License: N/A
Status: N/A	Method: TM17(LC-QQQ LC MS/MS):	Received: 04/14/2022 @ 09:52 AM	Sampler ID: N/A

PESTICIDE DETERMINATION

Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)
Acephate	68	ND	Fenoxycarb	42	ND	Paclobutrazol	39	ND
Acetamiprid	39	ND	Fipronil	53	ND	Permethrin	290	ND
Avermectin	361	ND	Flonicamid	60	ND	Phosmet	43	ND
Azoxystrobin	43	ND	Fludioxonil	297	ND	Prophos	269	ND
Bifenazate	42	ND	Hexythiazox	42	ND	Propoxur	41	ND
Boscalid	47	ND	Imazalil	262	ND	Pyridaben	294	ND
Carbaryl	38	ND	Imidacloprid	49	ND	Spinosad A	32	ND
Carbofuran	43	ND	Kresoxim-methyl	150	ND	Spinosad D	50	ND
Chlorantraniliprole	43	ND	Malathion	275	ND	Spiromesifen	254	ND
Chlorpyrifos	500	ND	Metalaxyl	43	ND	Spirotetramat	287	ND
Clofentezine	271	ND	Methiocarb	38	ND	Spiroxamine 1	17	ND
Diazinon	275	ND	Methomyl	57	ND	Spiroxamine 2	23	ND
Dichlorvos	276	ND	MGK 264 1	226	ND	Tebuconazole	278	ND
Dimethoate	39	ND	MGK 264 2	148	ND	Thiacloprid	40	ND
E-Fenpyroximate	271	ND	Myclobutanil	39	ND	Thiamethoxam	40	ND
Etofenprox	41	ND	Naled	46	ND	Trifloxystrobin	39	ND
Etoxazole	293	ND	Oxamyl	1500	ND			


 Sam Smith
 4/18/2022
 5:09:00 PM


 Daniel Weidensaul
 4/18/2022
 5:18:00 PM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

LOQ = Limit of Quantification
 ppb = Parts per Billion

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