



Customer: Apical Greens
Customer Sample ID: Batch 4001 tincture
Laboratory Number: 20L0519-02

Density: 1.087



Cannabinoid Profile

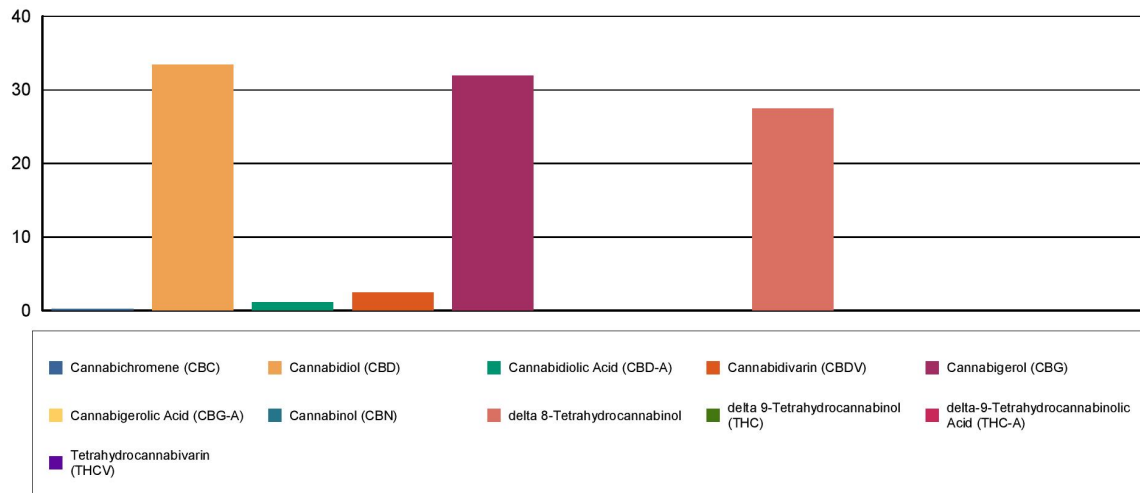
Extraction Technician: DF
Analytical Chemist: SH

Extraction Date(s)	Analysis Date(s)
12/28/2020	12/29/2020

Cannabinoids (HPLC)		Results	
	LOD (mg/mL)	%	mg/mL
Cannabidivarin (CBDV)		0.24	2.44
Cannabidiolic Acid (CBD-A)		0.11	1.11
Cannabigerolic Acid (CBG-A)	<0.20		
Cannabigerol (CBG)		3.19	31.9
Cannabidiol (CBD)		3.34	33.4
Tetrahydrocannabivarin (THCV)	<0.20		
Cannabinol (CBN)	<0.20		
delta 9-Tetrahydrocannabinol (THC)	<0.20		
delta 8-Tetrahydrocannabinol		2.74	27.4
Cannabichromene (CBC)		0.02	0.195
delta-9-Tetrahydrocannabinolic Acid (THC-A)	<0.20		
Cannabinoids Total		%	mg/mL
Max Active THC		0.00	0.00
Max Active CBD		3.44	34.37
T.Active Cannabinoids		6.56	65.60
Total Cannabinoids		9.65	96.50

Following USDA guidelines on uncertainty, Altitude Consulting's uncertainty are calculated for CBDa and CBD at +/- 4%. The uncertainty for THCa and THC are +/- 5%. This implies the range for a 10% value of CBD to be 9.6-10.4%. The uncertainty range for a 0.30% value of THC would be 0.28-0.32%. The measurement uncertainty is calculated using a coverage factor of 2.

Cannabinoid (mg/mL)



Reporting Limits will vary based on sample extraction weight used for the analysis.

Altitude Consulting, LLC utilizes NIST traceable Reference Standards and Certified Reference Material to calibrate analytical instruments along with proven analytical methods. The methods are applied in the most ethical manner following good laboratory practice guidelines. The results of this report are based solely on the sample submitted and cannot be reproduced.

Trifecta

Batch ID:	4002	Test ID:	T000110003
Type:	Edible	Submitted:	11/16/2020 @ 09:22 AM
Test:	Microbial Contaminants	Started:	11/17/2020
Method:	TM24, TM25, TM26, TM27, TM28	Reported:	11/20/2020

MICROBIAL CONTAMINANTS

Contaminant	Result (CFU/g)*
Total Aerobic Count**	None Detected
Total Coliforms**	None Detected
Total Yeast and Molds**	None Detected
E. coli	Absent
STEC and 0157 E. coli	None Detected
Salmonella	None Detected

* CFU/g = Colony Forming Unit 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

NOTES:


Free from visual mold, mildew, and foreign matter

TYM: None Detected

Total Aerobic: None Detected

Coliforms: None Detected

FINAL APPROVAL


Sarah Henning
20-Nov-2020
3:58 PM
Ben Minton
20-Nov-2020
4:50 PM

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

Trifecta

Batch ID:	4002	Test ID:	T000110004
Type:	Concentrate	Submitted:	11/16/2020 @ 09:22 AM
Test:	Pesticides	Started:	11/16/2020
Method:	TM17	Reported:	11/18/2020


PESTICIDE RESIDUE

Compound	Dynamic Range (ppb)	Result (ppb)	Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	53 - 2528	ND*	Malathion	280 - 2528	ND*
Acetamiprid	40 - 2528	ND*	Metalaxyl	41 - 2528	ND*
Abamectin	>352	ND*	Methiocarb	39 - 2528	ND*
Azoxystrobin	44 - 2528	ND*	Methomyl	44 - 2528	ND*
Bifenazate	42 - 2528	ND*	MGK 264 1	156 - 2528	ND*
Boscalid	55 - 2528	ND*	MGK 264 2	116 - 2528	ND*
Carbaryl	42 - 2528	ND*	Myclobutanil	39 - 2528	ND*
Carbofuran	42 - 2528	ND*	Naled	52 - 2528	ND*
Chlorantraniliprole	50 - 2528	ND*	Oxamyl	42 - 2528	ND*
Chlorpyrifos	44 - 2528	ND*	Paclobutrazol	45 - 2528	ND*
Clofentezine	305 - 2528	ND*	Permethrin	316 - 2528	ND*
Diazinon	289 - 2528	ND*	Phosmet	43 - 2528	ND*
Dichlorvos	>282	ND*	Prophos	324 - 2528	ND*
Dimethoate	40 - 2528	ND*	Propoxur	42 - 2528	ND*
E-Fenpyroximate	271 - 2528	ND*	Pyridaben	296 - 2528	ND*
Etofenprox	42 - 2528	ND*	Spinosad A	33 - 2528	ND*
Etoxazole	307 - 2528	ND*	Spinosad D	86 - 2528	ND*
Fenoxycarb	>41	ND*	Spiromesifen	>280	ND*
Fipronil	32 - 2528	ND*	Spirotetramat	>260	ND*
Flonicamid	59 - 2528	ND*	Spiroxamine 1	18 - 2528	ND*
Fludioxonil	>335	ND*	Spiroxamine 2	23 - 2528	ND*
Hexythiazox	43 - 2528	ND*	Tebuconazole	289 - 2528	ND*
Imazalil	291 - 2528	ND*	Thiacloprid	39 - 2528	ND*
Imidacloprid	40 - 2528	ND*	Thiamethoxam	45 - 2528	ND*
Kresoxim-methyl	47 - 2528	ND*	Trifloxystrobin	49 - 2528	ND*


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

N/A

FINAL APPROVAL

 Tyler Wiese
 18-Nov-2020
 3:47 PM

PREPARED BY / DATE

 Ben Minton
 18-Nov-2020
 3:53 PM

APPROVED BY / DATE

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Trifecta

Batch ID:	4002	Test ID:	T000110005
Type:	Other	Submitted:	11/16/2020 @ 09:22 AM
Test:	Metals	Started:	11/17/2020
Method:	TM19	Reported:	11/18/2020

HEAVY METALS

Analyte	Dynamic Range (ppm)	Result (ppm)
Arsenic	0.076 - 7.63	ND
Cadmium	0.078 - 7.82	ND
Mercury	0.076 - 7.60	ND
Lead	0.080 - 8.05	ND

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

FINAL APPROVAL

Daniel Weidensaul
18-Nov-2020
4:27 PMGreg Zimpfer
18-Nov-2020
5:05 PM

PREPARED BY / DATE

APPROVED BY / DATE

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Trifecta

Batch ID:	4002	Test ID:	T000110002
Type:	Concentrate	Submitted:	11/16/2020 @ 09:22 AM
Test:	Residual Solvents	Started:	11/18/2020
Method:	TM04	Reported:	11/18/2020

RESIDUAL SOLVENTS

Solvent	Dynamic Range (ppm)	Result (ppm)
Propane	107 - 2130	*ND
Butanes (Isobutane, n-Butane)	200 - 3991	*ND
Methanol	67 - 1344	*ND
Pentane	100 - 1994	*ND
Ethanol	104 - 2081	*ND
Acetone	100 - 2009	*ND
Isopropyl Alcohol	109 - 2171	*ND
Hexane	6 - 123	*ND
Ethyl Acetate	103 - 2050	*ND
Benzene	0.2 - 4	*ND
Heptanes	100 - 2004	*ND
Toluene	18 - 364	*ND
Xylenes (m,p,o-Xylenes)	131 - 2621	*ND

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

NOTES:
N/A

FINAL APPROVAL


 Michele Gagnon
 18-Nov-2020
 3:02 PM
 PREPARED BY / DATE


 Greg Zimpfer
 18-Nov-2020
 4:54 PM
 APPROVED BY / DATE

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