SC Labs®
Formerly Botanacor Labs

CERTIFICATE OF ANALYSIS

Prepared for:
cbdMD
2101 Westinghouse Blvd
Charlotte, NC USA 28273

750mg/3oz BSO Premium Freeze Gel

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 1 of 1
MD24084FG75	Various	Unit	
Reported:	Started:	Received:	
01Apr2024	28Mar2024	29Mar2024	

Cannabinoids

Test ID: T000275927
Methods: TM14 (HPLC-DAD)

	LOD (mg)	**LOQ** (mg)	**Result** (mg)	**Result** (mg/g)	**Notes**
Cannabichromene (CBC)	16.999	49.269	ND	ND	# of Servings = 1, Sample Weight=85.05g
Cannabichromenic Acid (CBCA)	15.549	45.065	ND	ND	
Cannabidiol (CBD)	61.112	150.728	810.610	9.50	
Cannabidiolic Acid (CBDA)	62.679	154.594	ND	ND	
Cannabidivarin (CBDV)	14.453	35.649	ND	ND	
Cannabidivarinic Acid (CBDVA)	26.147	64.489	ND	ND	
Cannabigerol (CBG)	9.652	27.974	71.920	0.80	
Cannabigerolic Acid (CBGA)	40.348	116.940	ND	ND	
Cannabinol (CBN)	12.591	36.494	58.260	0.70	
Cannabinolic Acid (CBNA)	27.528	79.784	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	48.068	139.317	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	43.655	126.526	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	38.678	112.102	ND	ND	
Tetrahydrocannabivarin (THCV)	8.779	25.444	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	34.116	98.878	ND	ND	
Total Cannabinoids			**940.790**	**11.00**	
Total Potential THC			ND	ND	
Total Potential CBD			810.610	9.50	

Final Approval

Karen Winternheimer
01Apr2024
10:32:00 AM MDT
PREPARED BY / DATE

Phillip Travisano
01Apr2024
10:34:00 AM MDT
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/84fbfba84-56ca-4dc5-9785-bc940fa8ca7e

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.

Cert #4329.02
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MD24084FG75	Various	Concentrate	
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19Apr2024	18Apr2024	16Apr2024	

Residual Solvents

Test ID: T000277639
Methods: TM04 (GC-MS): Residual Solvents

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Propane	102 - 2034	ND	
Butanes (Isobutane, n-Butane)	160 - 3195	ND	
Methanol	64 - 1272	ND	
Pentane	84 - 1672	ND	
Ethanol	95 - 1901	147	
Acetone	101 - 2026	ND	
Isopropyl Alcohol	109 - 2170	>2170	
Hexane	6 - 123	ND	
Ethyl Acetate	104 - 2088	ND	
Benzene	0.2 - 4.2	ND	
Heptanes	96 - 1918	ND	
Toluene	19 - 377	ND	
Xylenes (m,p,o-Xylenes)	135 - 2705	ND	

Final Approval


Karen Winternheimer
19Apr2024
08:02:00 AM MDT
PREPARED BY / DATE


Phillip Travisano
19Apr2024
08:07:00 AM MDT
APPROVED BY / DATE

Heavy Metals

Test ID: T000277638
Methods: TM19 (ICP-MS): Heavy Metals

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Arsenic	0.05 - 5.06	ND	
Cadmium	0.05 - 4.64	ND	
Mercury	0.05 - 4.68	ND	
Lead	0.05 - 4.95	ND	

Final Approval


Phillip Travisano
22Apr2024
02:42:00 PM MDT
PREPARED BY / DATE


Colin Hendrickson
22Apr2024
03:34:00 PM MDT
APPROVED BY / DATE

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Microbial Contaminants

Test ID: T000277637
Methods: TM25 (PCR) TM24, TM26, TM27 (Culture Plating)

	Method	LOD	Quantitation 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	$1.0x10^3$ - $1.5x10^5$	None Detected	
Total Coliforms*	TM27: Culture Plating	10^1 CFU/g	$1.0x10^2$ - $1.5x10^4$	None Detected	

Final Approval

Brianne Maillot
21Apr2024
12:11:00 PM MDT
PREPARED BY / DATE

Brett Hudson
22Apr2024
01:12:00 PM MDT
APPROVED BY / DATE

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Pesticides

Test ID: T000277636
Methods: TM17

(LC-QQ LC MS/MS)	**Dynamic Range** (ppb)	**Result** (ppb)		**Dynamic Range** (ppb)	**Result** (ppb)
Abamectin	324 - 2730	ND	Malathion	312 - 2753	ND
Acephate	44 - 2772	ND	Metalaxyl	44 - 2747	ND
Acetamiprid	42 - 2701	ND	Methiocarb	45 - 2722	ND
Azoxystrobin	44 - 2758	ND	Methomyl	43 - 2755	ND
Bifenazate	45 - 2748	ND	MGK 264 1	171 - 1628	ND
Boscalid	42 - 2714	ND	MGK 264 2	115 - 1080	ND
Carbaryl	40 - 2735	ND	Myclobutanil	44 - 2722	ND
Carbofuran	42 - 2729	ND	Naled	42 - 2695	ND
Chlorantraniliprole	44 - 2726	ND	Oxamyl	43 - 2751	ND
Chlorpyrifos	48 - 2796	ND	Paclobutrazol	45 - 2748	ND
Clofentezine	270 - 2794	ND	Permethrin	287 - 2854	ND
Diazinon	306 - 2749	ND	Phosmet	43 - 2616	ND
Dichlorvos	287 - 2725	ND	Prophos	295 - 2691	ND
Dimethoate	41 - 2699	ND	Propoxur	43 - 2744	ND
E-Fenpyroximate	283 - 2830	ND	Pyridaben	295 - 2795	ND
Etofenprox	42 - 2778	ND	Spinosad A	31 - 2108	ND
Etoxazole	291 - 2705	ND	Spinosad D	68 - 680	ND
Fenoxycarb	26 - 2883	ND	Spiromesifen	290 - 2782	ND
Fipronil	33 - 2804	ND	Spirotetramat	283 - 2841	ND
Flonicamid	46 - 2781	ND	Spiroxamine 1	17 - 1012	ND
Fludioxonil	287 - 2662	ND	Spiroxamine 2	25 - 1593	ND
Hexythiazox	40 - 2808	ND	Tebuconazole	310 - 2717	ND
Imazalil	284 - 2753	ND	Thiacloprid	43 - 2733	ND
Imidacloprid	47 - 2776	ND	Thiamethoxam	39 - 2776	ND
Kresoxim-methyl	42 - 2806	ND	Trifloxystrobin	45 - 2758	ND

Final Approval

Karen Winternheimer
24Apr2024
01:05:00 PM MDT
PREPARED BY / DATE

Phillip Travisano
24Apr2024
01:07:00 PM MDT
APPROVED BY / DATE

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https://results.botanacor.com/api/v1/coas/uuid/499c7281-8f29-420b-b8ed-097cbe3bc859

Definitions
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SC Labs®

Hemp Quality Assurance Testing
CERTIFICATE OF ANALYSIS

DATE ISSUED 05/24/2024

SAMPLE NAME: 750mg/3oz BSO Premium Freeze Gel
Infused, Topical

CULTIVATOR / MANUFACTURER
Business Name:
License Number:
Address:

DISTRIBUTOR / TESTED FOR
Business Name: cbdMD
License Number:
Address: 2101 Westinghouse Blvd
Charlotte NC 28273

SAMPLE DETAIL
Batch Number: MD24084FG75
Sample ID: 240520N108

Date Collected: 05/20/2024
Date Received: 05/20/2024
Batch Size:
Sample Size: 1.0 units
Unit Mass:
Serving Size:

Scan QR code to verify authenticity of results.

TERPENOID ANALYSIS - SUMMARY

39 TESTED, TOP 3 HIGHLIGHTED

Total Terpenoids: 3.0123%

Menthol 28.643 mg/g Camphor 1.441 mg/g Isopulegol 0.039 mg/g

For quality assurance purposes. Not a Regulatory Hemp Lab Test Report. These results relate only to the sample included on this report. This report shall not be reproduced, except in full, without written approval of the laboratory.

Sample Certification: California Code of Regulations Title 4 Division 19. Department of Cannabis Control Business and Professions Code. Reference: Sections 26100, 26104 and 26110, Business and Professions Code.

Decision Rule: Statements of conformity (e.g. Pass/Fail) to specifications are made in this report without taking measurement uncertainty into account. Where statements of conformity are made in this report, the following decision rules are applied: PASS - Results within limits/specifications, FAIL - Results exceed limits/specifications.

References: limit of detection (LOD), limit of quantification (LOQ), not detected (ND), not tested (NT)

LQC verified by: Carmen Stackhouse
Job Title: Senior Laboratory Analyst
Date: 05/24/2024

Approved by: Josh Wurzer
Job Title: Chief Compliance Officer
Date: 05/24/2024

Terpenoid Analysis

Terpene analysis utilizing gas chromatography-flame ionization detection (GC-FID).

Method: QSP 1192 - Analysis of Terpenoids by GC-FID

1 Menthol
A monoterpenoid alcohol with a fragrance that can be described as fresh, cool and herbal. It is responsible for the distinct odor of mint. It is frequently added to cigarettes and mouthwash as a flavorant. Found in mint, sunflower, micromeria, mountain mint, rose geranium, pennyroyal, tarragon, savory, basil, juniper, couch grass, rhubarb, acinos (basil thyme), ironwort, muña...etc.

2 Camphor
A monoterpenoid ketone with a pungent fragrance that is as reminiscent of mothballs. It is commonly derived from *Cinnamomum* camphora, from which it lends its lame. It is a constituent of turpentine and has been used by certain cultures as an embalming fluid due to its antimicrobial effects. Found in camphor laurel, rosemary, East African camphorwood, goldenasters, coriander, feverfew, tarragon, nutmeg, sweet wormwood, yerba buena, mountain mint, hyssop, forskohlii, tansy, thyme, turmeric...etc.

3 Isopulegol
A monoterpenoid with a fragrance that can be described as woody and minty. It is also a constituent of toxic secretions of exploding ants. Found in eucalyptus, rosemary, citrus, lemon-verbena, micromeria, lemon balm...etc.

TERPENOID TEST RESULTS - 05/23/2024

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
Menthol	*0.008 / 0.025*	*±0.8937*	28.643	2.8643
Camphor	*0.006 / 0.019*	*±0.0399*	1.441	0.1441
Isopulegol	*0.005 / 0.016*	*±0.0012*	0.039	0.0039
Pulegone	*0.003 / 0.011*	*N/A*	<LOQ	<LOQ
α-Pinene	*0.005 / 0.017*	*N/A*	ND	ND
Camphene	*0.005 / 0.015*	*N/A*	ND	ND
Sabinene	*0.004 / 0.014*	*N/A*	ND	ND
β-Pinene	*0.004 / 0.014*	*N/A*	ND	ND
Myrcene	*0.008 / 0.025*	*N/A*	ND	ND
α-Phellandrene	*0.006 / 0.020*	*N/A*	ND	ND
Δ^3-Carene	*0.005 / 0.018*	*N/A*	ND	ND
α-Terpinene	*0.005 / 0.017*	*N/A*	ND	ND
p-Cymene	*0.005 / 0.016*	*N/A*	ND	ND
Limonene	*0.005 / 0.016*	*N/A*	ND	ND
Eucalyptol	*0.006 / 0.018*	*N/A*	ND	ND
β-Ocimene	*0.006 / 0.020*	*N/A*	ND	ND
γ-Terpinene	*0.006 / 0.018*	*N/A*	ND	ND
Sabinene Hydrate	*0.006 / 0.022*	*N/A*	ND	ND
Fenchone	*0.009 / 0.028*	*N/A*	ND	ND
Terpinolene	*0.008 / 0.026*	*N/A*	ND	ND
Linalool	*0.009 / 0.032*	*N/A*	ND	ND
Fenchol	*0.010 / 0.034*	*N/A*	ND	ND
Isoborneol	*0.004 / 0.012*	*N/A*	ND	ND
Borneol	*0.005 / 0.016*	*N/A*	ND	ND
Terpineol	*0.009 / 0.031*	*N/A*	ND	ND
Nerol	*0.003 / 0.011*	*N/A*	ND	ND
Citronellol	*0.003 / 0.010*	*N/A*	ND	ND
Geraniol	*0.002 / 0.007*	*N/A*	ND	ND
Geranyl Acetate	*0.004 / 0.014*	*N/A*	ND	ND
α-Cedrene	*0.005 / 0.016*	*N/A*	ND	ND
β-Caryophyllene	*0.004 / 0.012*	*N/A*	ND	ND
trans-β-Farnesene	*0.008 / 0.025*	*N/A*	ND	ND
α-Humulene	*0.009 / 0.029*	*N/A*	ND	ND
Valencene	*0.009 / 0.030*	*N/A*	ND	ND
Nerolidol	*0.006 / 0.019*	*N/A*	ND	ND
Caryophyllene Oxide	*0.010 / 0.033*	*N/A*	ND	ND
Guaiol	*0.009 / 0.030*	*N/A*	ND	ND
Cedrol	*0.008 / 0.027*	*N/A*	ND	ND
α-Bisabolol	*0.008 / 0.026*	*N/A*	ND	ND
TOTAL TERPENOIDS			30.123 mg/g	3.0123%