

Certificate of Analysis

3520 N 7th St. Phoenix, AZ 85014 (480) 788-6644

www.desertvalleytesting.com

Batch

2815 S 5th Ct Milwaukee, WI 53207 (262) 364-6940

Laboratory Number: 2312018-02

Batch #: 4CFESF

Sample Received:12/8/2023; Report Created: 12/15/2023

Original 1000mg Tincture

Ingestible



Cannabinoid (HPLC) Analyzed: 12/14/23 By: MLC							
	LOQ %	mg/mL	mg/unit	%			
Compound							
THC-A	0.00378	ND	ND	ND			
delta 9-THC	0.00378	1.0005	28.51	0.10005			
delta 8-THC	0.00378	ND	ND	ND			
THC-V	0.00378	ND	ND	ND			
CBG-A	0.00378	ND	ND	ND			
CBD-A	0.00378	ND	ND	ND			
CBD	0.07551	35.164	1002.2	3.5164			
CBD-V	0.00378	0.1817	5.179	0.01817			
CBN	0.00378	0.0877	2.500	0.00877			
CBG	0.00378	0.7176	20.45	0.07176			
CBC	0.00378	0.9349	26.65	0.09349			
delta 8 THC-V	0.00378	ND	ND	ND			

1.0005 mg/mL	35.1640 mg/mL	38.0860 mg/mL
28.51 mg/unit	1002.20 mg/unit	1085.50 mg/unit
0.10005 %	3.51640 %	3.80860%
Total THC	Total CBD	Total Cannabinoids

Total THC = THCa * 0.877 + delta 9-THC; Total CBD = CBDa * 0.877 + CBD

35.15 : 1

CBD to THC Ratio

Not Tested
Water Activity

Not Tested Moisture

Terpenes (GCMS-MS) Analyzed:	Ву:
	mg/mL	%
Compound		
alpha-Bisabolol	NT	NT
(-)-Borneol and (+)-Borneol	NT	NT
Camphene	NT	NT
Camphor	NT	NT
beta-Caryophyllene	NT	NT
trans-Caryophyllene	NT	NT
Caryophyllene Oxide	NT	NT
alpha-Cedrene	NT	NT
Cedrol	NT	NT
Endo-fenchyl Alcohol	NT	NT
Eucalyptol	NT	NT
Fenchone	NT	NT
Geraniol	NT	NT
Geranyl acetate	NT	NT
Guaiol	NT	NT
Hexahydrothymol	NT	NT
alpha-Humulene	NT	NT
Isoborneol	NT	NT
Isopulegol	NT	NT
Limonene	NT	NT
Linalool	NT	NT
p-Mentha-1,5-diene	NT	NT
beta-Myrcene	NT	NT
trans-Nerolidol	NT	NT
Ocimene	NT	NT
alpha-Pinene	NT	NT
beta-Pinene	NT	NT
Pulegone	NT	NT
Sabinene	NT	NT
Sabinene Hydrate	NT	NT
gamma-Terpinene	NT	NT
alpha-Terpinene	NT	NT
3-Carene	NT	NT
Terpineol	NT	NT
Terpinolene	NT	NT
Valencene	NT	NT
Nerol	NT	NT
cis-Nerolidol	NT	NT
Total Terpenes	NT	NT

Safety

Not Tested
Pesticides

Not Tested

Microbials

Not Tested
Residual Solvents

Not Tested **Metals** Not Tested pH

RL = Reporting Limit
NA = Not Applicable
NT = Not Tested
ND = Non Detected
LOQ = Limit of Quantification



Technical Laboratory Director





Prepared for:

BATCH

2815 S 5th Ct

Milwaukee, WI USA 53207

BATCH Labs Full Spectrum Distillate

Batch ID or Lot Number: 112823-02	Test: Heavy Metals	Reported: 06Dec2023	USDA License: NA
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000263219	06Dec2023	NA
	Method(s):	Received:	Status:
	TM19 (ICP-MS): Heavy Metals	30Nov2023	NA

Dynamic Range (ppm)	Result (ppm)	Notes	
0.05 - 4.61	ND		
0.05 - 4.52	ND		
0.05 - 4.50	ND		
0.05 - 4.79	ND		
	0.05 - 4.61 0.05 - 4.52 0.05 - 4.50	0.05 - 4.61 ND 0.05 - 4.52 ND 0.05 - 4.50 ND	0.05 - 4.61 ND 0.05 - 4.52 ND 0.05 - 4.50 ND

Final Approval

PREPARED BY / DATE

Samantha Smoll

Sam Smith 06Dec2023 02:47:00 PM MST

17:00 PM MST

Karen Winternheimer 06Dec2023 02:52:00 PM MST



APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/d21e685e-7bec-440a-b399-c0bc770f733e

Definitions

ND = None Detected (defined by dynamic range of the method)
Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

Testing results are based solely upon the sample submitted to SC Laboratories, Inc., in the condition it was received. SC Laboratories, Inc., 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 SC Laboratories, Inc. ISO/IEC 17025:2017 A2LA Cert #: 4329.02 Chemical; 4329.03 Biological.





Cert #4329.02 d21e685e7bec440ab399c0bc770f733e.1



Prepared for:

BATCH

2815 S 5th Ct

Milwaukee, WI USA 53207

BATCH Labs Full Spectrum Distillate

Batch ID or Lot Number: 112823-02	Test: Microbial Contaminants	Reported: 04Dec2023	USDA License: NA
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000263218	01Dec2023	NA
	Method(s):	Received:	Status:
	TM25 (PCR) TM24, TM26, TM27 (Culture Plating)	30Nov2023	NA

Microbial			Quantitation			
Contaminants	Method	LOD	Range	Result	Notes	
STEC	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	Free from visual mold, mildew, and	
Salmonella	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	– foreign matter	
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

PREPARED BY / DATE

Eden Thompson

Eden Thompson-Wright 04Dec2023 02:06:00 PM MST

Buanne Maillot

Maillo 04Dec2023 03:16:00 PM MST

Brianne Maillot



APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/ea332212-9034-4a05-a3d0-dde3e80acf44

Definitions

* 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

CFU/g = Colony Forming Units per Gram, LOD = Limit of Detection

ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation

STEC = Shiga Toxin-Producing E. coli

Testing results are based solely upon the sample submitted to SC Laboratories, Inc., in the condition it was received. SC Laboratories, Inc., 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 SC Laboratories, Inc. ISO/IEC 17025:2017 A2LA Cert #: 4329.02 Chemical; 4329.03 Biological.





Cert #4329.02 ea33221290344a05a3d0dde3e80acf44.1



Prepared for:

BATCH

2815 S 5th Ct

Milwaukee, WI USA 53207

BATCH Labs Full Spectrum Distillate

Batch ID or Lot Number: 112823-02	Test: Mycotoxins	Reported: 07Dec2023	USDA License: N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000263221	06Dec2023	N/A
	Method(s):	Received:	Status:
	TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	30Nov2023	Active

Dynamic Range (ppb)	Result (ppb)	Notes	
3.79 - 130.16	ND	N/A	
1.03 - 32.83	ND		
0.93 - 33.28	ND		
1.03 - 33.15	ND		
1.09 - 33.73	ND		
and G2)	ND		
	3.79 - 130.16 1.03 - 32.83 0.93 - 33.28 1.03 - 33.15 1.09 - 33.73	3.79 - 130.16 ND 1.03 - 32.83 ND 0.93 - 33.28 ND 1.03 - 33.15 ND 1.09 - 33.73 ND	3.79 - 130.16 ND N/A 1.03 - 32.83 ND 0.93 - 33.28 ND 1.03 - 33.15 ND 1.09 - 33.73 ND

Final Approval



Karen Winternheimer 07Dec2023 12:55:00 PM MST



APPROVED BY / DATE

Sam Smith 07Dec2023 12:56:00 PM MST



PREPARED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/d6e52fb6-01c4-4c7c-8677-26992d0fd4cb

Definitions

ND = None Detected (defined by dynamic range of the method)
Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

Testing results are based solely upon the sample submitted to SC Laboratories, Inc., in the condition it was received. SC Laboratories, Inc., 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 SC Laboratories, Inc. ISO/IEC 17025:2017 A2LA Cert #: 4329.02 Chemical; 4329.03 Biological.





Cert #4329.02 d6e52fb601c44c7c867726992d0fd4cb.1



Prepared for:

BATCH

2815 S 5th Ct

Milwaukee, WI USA 53207

BATCH Labs Full Spectrum Distillate

Batch ID or Lot Number: 112823-02	Test: Residual Solvents	Reported: 06Dec2023	USDA License: N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000263220	05Dec2023	N/A
	Method(s):	Received:	Status:
	TM04 (GC-MS): Residual Solvents	30Nov2023	Active

Residual Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	87 - 1739	ND	
Butanes (Isobutane, n-Butane)	170 - 3399	ND	
Methanol	58 - 1159	ND	
Pentane	92 - 1846	ND	
Ethanol	96 - 1927	ND	
Acetone	98 - 1964	ND	
Isopropyl Alcohol	109 - 2181	ND	
Hexane	6 - 118	ND	
Ethyl Acetate	100 - 2006	ND	
Benzene	0.2 - 3.9	ND	
Heptanes	96 - 1913	ND	
Toluene	18 - 365	ND	
Xylenes (m,p,o-Xylenes)	134 - 2683	ND	

Final Approval



Karen Winternheimer 06Dec2023 12:42:00 PM MST

Samantha Smill

Sam Smith 06Dec2023 12:44:00 PM MST



APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/02ade7c2-b947-4a93-97b9-2567bb31b46e

Definitions

ND = None Detected (defined by dynamic range of the method)
Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

Testing results are based solely upon the sample submitted to SC Laboratories, Inc., in the condition it was received. SC Laboratories, Inc., 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 SC Laboratories, Inc. ISO/IEC 17025:2017 A2LA Cert #: 4329.02 Chemical; 4329.03 Biological.





Cert #4329.02 02ade7c2b9474a9397b92567bb31b46e.1



Prepared for:

BATCH

2815 S 5th Ct

Milwaukee, WI USA 53207

BATCH Labs Full Spectrum Distillate

Batch ID or Lot Number: 112823-02	Test: Pesticides	Reported: 08Dec2023	USDA License: NA
	Test ID:	Started:	Sampler ID:
	T000263217	07Dec2023	NA
	Method(s):	Received:	Status:
	TM17 (LC-QQ LC MS/MS)	30Nov2023	NA

Pesticides	Dynamic Range (ppb)	Result (ppb)
Abamectin	329 - 2679	ND
Acephate	48 - 2797	ND
Acetamiprid	45 - 2749	ND
Azoxystrobin	44 - 2707	ND
Bifenazate	47 - 2673	ND
Boscalid	47 - 2696	ND
Carbaryl	44 - 2731	ND
Carbofuran	43 - 2710	ND
Chlorantraniliprole	48 - 2723	ND
Chlorpyrifos	21 - 2701	ND
Clofentezine	256 - 2706	ND
Diazinon	272 - 2700	ND
Dichlorvos	288 - 2784	ND
Dimethoate	46 - 2763	ND
E-Fenpyroximate	290 - 2716	ND
Etofenprox	41 - 2674	ND
Etoxazole	292 - 2599	ND
Fenoxycarb	21 - 2706	ND
Fipronil	48 - 2760	ND
Flonicamid	49 - 2803	ND
Fludioxonil	316 - 2666	ND
Hexythiazox	46 - 2661	ND
Imazalil	265 - 2718	ND
Imidacloprid	48 - 2888	ND
Kresoxim-methyl	46 - 2702	ND

	Dynamic Range (ppb)	Result (ppb)
Malathion	279 - 2664	ND
Metalaxyl	47 - 2702	ND
Methiocarb	49 - 2697	ND
Methomyl	45 - 2816	ND
MGK 264 1	160 - 1609	ND
MGK 264 2	106 - 1064	ND
Myclobutanil	18 - 2637	ND
Naled	41 - 2708	ND
Oxamyl	47 - 2800	ND
Paclobutrazol	43 - 2733	ND
Permethrin	293 - 2660	ND
Phosmet	41 - 2545	ND
Prophos	304 - 2654	ND
Propoxur	42 - 2715	ND
Pyridaben	282 - 2693	ND
Spinosad A	29 - 2107	ND
Spinosad D	61 - 656	ND
Spiromesifen	268 - 2623	ND
Spirotetramat	283 - 2740	ND
Spiroxamine 1	16 - 1001	ND
Spiroxamine 2	28 - 1579	ND
Tebuconazole	293 - 2678	ND
Thiacloprid	46 - 2782	ND
Thiamethoxam	45 - 2802	ND
Trifloxystrobin	42 - 2738	ND

Final Approval

L Wintersheimer PREPARED BY / DATE

Karen Winternheimer 08Dec2023 10:17:00 AM MST

APPROVED BY / DATE

Sam Smith 08Dec2023 10:24:00 AM MST



https://results.botanacor.com/api/v1/coas/uuid/53493a2e-592a-4e1d-b400-d74711aa7b41

Definitions

ND = None Detected (defined by dynamic range of the method)
Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range
ppb = Parts Per Billion

Testing results are based solely upon the sample submitted to SC Laboratories, Inc., in the condition it was received. SC Laboratories, Inc., 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 SC Laboratories, Inc. ISO/IEC 17025:2017 A2LA Cert #: 4329.02 Chemical; 4329.03 Biological.





Cert #4329.02 53493a2e592a4e1db400d74711aa7b41.1