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Zone

CERTIFICATE OF ANALYSIS

Prepared for:

TONIC

2566 Pennsylvania Ave Sayre, PA USA 18840

Batch ID or Lot Number:	Test:	Reported:	USDA License:	
Z121-BNC-03	Potency	09Sep2022	N/A	
Matrix:	Test ID:	Started:	Sampler ID:	
Unit	T000220324	08Sep2022	N/A	
	Method(s): TM14 (HPLC-DAD)	Received: 06Sep2022	Status: N/A	

Cannabinoids	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.619	1.881	21.340	21.30	# of Servings = 1,
Cannabichromenic Acid (CBCA)	0.566	1.720	ND	ND	Sample Weight=1g
Cannabidiol (CBD)	1.698	4.827	512.270	512.30	
Cannabidiolic Acid (CBDA)	1.742	4.951	ND	ND	
Cannabidivarin (CBDV)	0.402	1.142	1.860	1.90	
Cannabidivarinic Acid (CBDVA)	0.727	2.065	ND	ND	
Cannabigerol (CBG)	0.352	1.068	5.930	5.90	
Cannabigerolic Acid (CBGA)	1.470	4.464	ND	ND	
Cannabinol (CBN)	0.459	1.393	25.590	25.60	
Cannabinolic Acid (CBNA)	1.003	3.046	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	1.751	5.319	4.510	4.50	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	1.590	4.830	1.870	1.90	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	1.409	4.280	ND	ND	
Tetrahydrocannabivarin (THCV)	0.320	0.971	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	1.243	3.775	ND	ND	
Total Cannabinoids			573.370	573.37	
Total Potential THC			1.870	1.87	
Total Potential CBD			512.270	512.27	

Final Approval

Danuel Ward

PREPARED BY / DATE

Daniel Weidensaul 09Sep2022 03:19:00 PM MDT

APPROVED BY / DATE

Jacob Miller 09Sep2022 03:20:00 PM MDT



Definitions

% = % (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)).





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Batch ID or Lot Number:	Test:	Reported:	USDA License:	
Z121-BNC-03	Terpenes	09Sep2022	NA	
Matrix:	Test ID:	Started:	Sampler ID:	
Concentrate	T000220325	08Sep2022	NA	
	Method(s): TM22 (GC-MS)	Received: 06Sep2022	Status: NA	

Terpenes	%(w/w)	(mg/g)
(-)-alpha-Bisabolol	0.9164	9.164
(-)-beta-Pinene	0.7742	7.742
(-)-Caryophyllene Oxide	0.0000	0.0000
(-)-Isopulegol	0.0000	0.0000
alpha-Humulene	0.0078	0.078
alpha-Pinene	0.6401	6.401
alpha-Terpinene	0.0000	0.0000
beta-Caryophyllene	0.0076	0.076
beta-Myrcene	0.0000	0.0000
beta-Ocimene	0.0000	0.0000
Camphene	0.0076	0.076
cis-Nerolidol	0.0000	0.0000
d-Limonene	0.6302	6.302
delta-3-Carene	0.0000	0.0000
Eucalyptol	0.0000	0.0000
gamma-Terpinene	0.0000	0.0000
Geraniol	0.0000	0.0000
Linalool	0.0000	0.0000
Ocimene	0.0000	0.0000
p-Cymene	0.0000	0.0000
Terpinolene	0.0000	0.0000
trans-Nerolidol	0.0557	0.557
	3,0396	30,3960



Notes

Final Approval

PREPARED BY / DATE

Danuel Wardanan

Daniel Weidensaul 09Sep2022 01:48:00 PM MDT



Jacob Miller 09Sep2022 01:52:00 PM MDT



https://results.botanacor.com/api/v1/coas/uuid/3b164685-20b8-4c45-a690-11ac4b2f3e63

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 Accredited by A2LA.



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2566 Pennsylvania Ave Sayre, PA USA 18840

Batch ID or Lot Number:	Test:	Reported:	USDA License:
Z121-BNC-03	Heavy Metals	09Sep2022	NA
Matrix:	Test ID:	Started:	Sampler ID:
Unit	T000220328	09Sep2022	NA
	Method(s):	Received:	Status:
	TM19 (ICP-MS): Heavy Metals	06Sep2022	NA

Heavy Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.52	ND	
Cadmium	0.04 - 4.46	ND	
Mercury	0.04 - 4.39	ND	
Lead	0.04 - 4.43	ND	

Final Approval

Samanthe Smo

Sam Smith 09Sep2022

Jamel Westers

Daniel Weidensaul 09Sep2022 04:17:00 PM MDT



PREPARED BY / DATE

04:14:00 PM MDT

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https://results.botanacor.com/api/v1/coas/uuid/0ca946a4-32e3-4327-8eca-295263f6afb9

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





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2566 Pennsylvania Ave Sayre, PA USA 18840

Batch ID or Lot Number:	Test:	Reported:	USDA License:	
Z121-BNC-03	Pesticides	08Sep2022	NA	
Matrix:	Test ID:	Started:	Sampler ID:	
Concentrate	T000220326	07Sep2022	NA	
	Method(s): TM17 (LC-QQ LC MS/MS)	Received: 06Sep2022	Status: NA	

Pesticides	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)
Abamectin	281 - 2571	ND	Malathion	289 - 2751	ND
Acephate	41 - 2765	ND	Metalaxyl	43 - 2733	ND
Acetamiprid	39 - 2724	ND	Methiocarb	42 - 2789	ND
Azoxystrobin	42 - 2765	ND	Methomyl	38 - 2770	ND
Bifenazate	42 - 2736	ND	MGK 264 1	153 - 1641	ND
Boscalid	40 - 2773	ND	MGK 264 2	120 - 1143	ND
Carbaryl	41 - 2713	ND	Myclobutanil	34 - 2760	ND
Carbofuran	40 - 2721	ND	Naled	46 - 2700	ND
Chlorantraniliprole	41 - 2796	ND	Oxamyl	39 - 2812	ND
Chlorpyrifos	65 - 2708	ND	Paclobutrazol	46 - 2695	ND
Clofentezine	284 - 2738	ND	Permethrin	281 - 2675	ND
Diazinon	284 - 2783	ND	Phosmet	40 - 2730	ND
Dichlorvos	286 - 2804	ND	Prophos	286 - 2783	ND
Dimethoate	42 - 2742	ND	Propoxur	40 - 2710	ND
E-Fenpyroximate	291 - 2699	ND	Pyridaben	290 - 2737	ND
Etofenprox	45 - 2685	ND	Spinosad A	35 - 2247	ND
Etoxazole	297 - 2677	ND	Spinosad D	48 - 510	ND
Fenoxycarb	41 - 2753	ND	Spiromesifen	269 - 2734	ND
Fipronil	44 - 2789	ND	Spirotetramat	279 - 2776	ND
Flonicamid	42 - 2774	ND	Spiroxamine 1	18 - 1184	ND
Fludioxonil	288 - 2766	ND	Spiroxamine 2	22 - 1581	ND
Hexythiazox	41 - 2742	ND	Tebuconazole	282 - 2786	ND
Imazalil	272 - 2827	ND	Thiacloprid	42 - 2742	ND
Imidacloprid	42 - 2764	ND	Thiamethoxam	43 - 2784	ND
Kresoxim-methyl	43 - 2824	ND	Trifloxystrobin	43 - 2762	ND

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Karen Winternheimer 08Sep2022 03:00:00 PM MDT

amanthe mo

Sam Smith 08Sep2022 03:08:00 PM MDT



APPROVED BY / DATE https://results.botanacor.com/api/v1/coas/uuid/b109334e-f42b-4f0f-8a82-c768ca6e526e

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 Accredited by A2LA.



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CERTIFICATE OF ANALYSIS

Prepared for:

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2566 Pennsylvania Ave Sayre, PA USA 18840

Test: Microbial Con	taminants	Reported:		USDA License:
		Started:		Sampler ID:
T000220327		06Sep2022		NA
Method(s):		Received:		Status:
TM25 (PCR) TM (Culture Plating	124, TM26, TM27 g)	06Sep2022		NA
		Quantitation		
Method	LOD	Range	Result	Notes
TM25: PCR	10 ⁰ CFU/g	NA	Absent	Free from visual mold, mildew, and
	Test: Microbial Con Test ID: T000220327 Method(s): TM25 (PCR) TM (Culture Plating Method TM25: PCR	Test: Microbial ContaminantsTest ID: T000220327Method(s): TM25 (PCR) TM24, TM26, TM27 (Culture Plating)MethodMethodMethodInMethodInInInInTM25: PCRInInInInInTM25: PCRIn <tr< td=""><td>Test: Microbial ContaminantsReported: 09Sep2022Test ID: T000220327Started: 06Sep2022Method(s): TM25 (PCR) TM24, TM26, TM27 (Culture Plating)Received: 06Sep2022MethodLODMethodLODMageNA</td><td>Test: Microbial ContReported: 09Sep2022Test ID: T000220327Started: 06Sep2022Method(s): TM25 (PCR) TM24, TM26, TM27Received: 06Sep2022Method(s): Culture Plating)Received: 06Sep2022MethodLODRangeMethod10° CFU/gNAAbsent</td></tr<>	Test: Microbial ContaminantsReported: 09Sep2022Test ID: T000220327Started: 06Sep2022Method(s): TM25 (PCR) TM24, TM26, TM27 (Culture Plating)Received: 06Sep2022MethodLODMethodLODMageNA	Test: Microbial ContReported: 09Sep2022Test ID: T000220327Started: 06Sep2022Method(s): TM25 (PCR) TM24, TM26, TM27Received: 06Sep2022Method(s): Culture Plating)Received: 06Sep2022MethodLODRangeMethod10° CFU/gNAAbsent

Salmonella	TM25: PCR	10 ⁰ CFU/g	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

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Jacob Folkerts 09Sep2022 12:39:00 PM MDT

Brianne Maillot

APPROVED BY / DATE

Brianne Maillot 09Sep2022 04:11:00 PM MDT



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: $10^2 = 100 \text{ CFU}$, $10^3 = 1,000 \text{ CFU}$, $10^4 = 10,000 \text{ CFU}$, $10^5 = 100,000 \text{ CFU}$

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





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2566 Pennsylvania Ave Sayre, PA USA 18840

Batch ID or Lot Number:	Test:	Reported:	USDA License:
Z121-BNC-03	Residual Solvents	07Sep2022	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000220329	07Sep2022	N/A
	Method(s):	Received:	Status:
	TM04 (GC-MS): Residual Solvents	06Sep2022	Active

Residual Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	92 - 1831	ND	
Butanes (lsobutane, n-Butane)	196 - 3922	ND	
Methanol	64 - 1282	ND	
Pentane	105 - 2103	ND	
Ethanol	104 - 2075	ND	
Acetone	105 - 2104	ND	
lsopropyl Alcohol	109 - 2170	ND	
Hexane	6 - 128	ND	
Ethyl Acetate	108 - 2166	ND	
Benzene	0.2 - 4.4	ND	
Heptanes	109 - 2190	ND	
Toluene	19 - 376	ND	
Xylenes (m,p,o-Xylenes)	140 - 2791	ND	

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Jacob Miller 07Sep2022 03:38:00 PM MDT

Jamuel Wordon

Daniel Weidensaul 07Sep2022 03:38:00 PM MDT



https://results.botanacor.com/api/v1/coas/uuid/add7c1e4-b22a-4073-86c3-23fc8f2abf6e

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Definitions

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

