

Prepared for:

TONIC

2566 Pennsylvania Ave

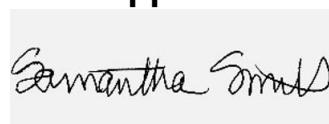
Sayre, PA USA 18840

Zone

Batch ID or Lot Number: Z123-BK22035	Test: Potency	Reported: 04Oct2023	USDA License: N/A
Matrix: Concentrate	Test ID: T000257498	Started: 03Oct2023	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD)	Received: 29Sep2023	Status: N/A

Cannabinoids

	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.037	0.120	2.190	21.90	
Cannabichromenic Acid (CBCA)	0.034	0.109	ND	ND	
Cannabidiol (CBD)	0.109	0.308	53.580	535.80	
Cannabidiolic Acid (CBDA)	0.112	0.316	ND	ND	
Cannabidivarin (CBDV)	0.026	0.073	<LOQ	<LOQ	
Cannabidivarinic Acid (CBDVA)	0.047	0.132	ND	ND	
Cannabigerol (CBG)	0.021	0.068	0.670	6.70	
Cannabigerolic Acid (CBGA)	0.089	0.284	ND	ND	
Cannabinol (CBN)	0.028	0.089	2.610	26.10	
Cannabinolic Acid (CBNA)	0.060	0.194	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.106	0.338	0.500	5.00	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.096	0.307	<LOQ	<LOQ	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.085	0.272	ND	ND	
Tetrahydrocannabivarin (THCV)	0.019	0.062	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.075	0.240	ND	ND	
Total Cannabinoids			59.550	595.50	
Total Potential THC			0.000	0.00	
Total Potential CBD			53.580	535.80	

Final ApprovalSam Smith
04Oct2023
11:35:00 AM MDT

PREPARED BY / DATE

Karen Winternheimer
04Oct2023
11:39:00 AM MDT

APPROVED BY / DATE

<https://results.botanacor.com/api/v1/coas/uuid/c9e4f3d0-bfe5-4508-ac38-2780c36dd5fd>**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)).

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.



Cert #4329.02

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Prepared for:

TONIC

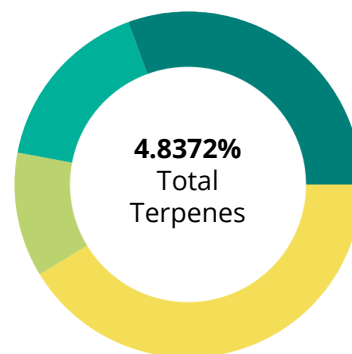
2566 Pennsylvania Ave
Sayre, PA USA 18840

Zone

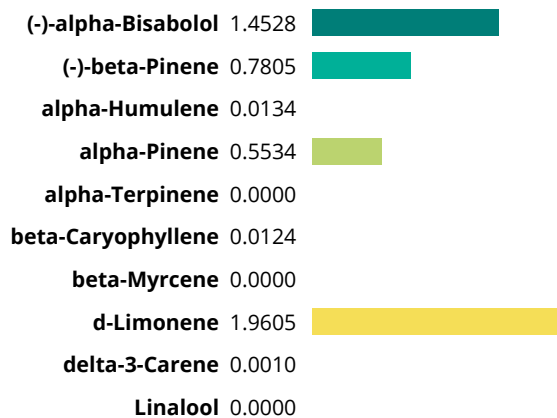
Batch ID or Lot Number: Z123-BK22035	Test: Terpenes	Reported: 11Oct2023	USDA License: NA
Matrix: Concentrate	Test ID: T000257499	Started: 10Oct2023	Sampler ID: NA
	Method(s): TM22 (GC-MS)	Received: 29Sep2023	Status: NA

Terpenes

	%(w/w)	(mg/g)
(-)-alpha-Bisabolol	1.4528	14.528
(-)-beta-Pinene	0.7805	7.805
(-)-Caryophyllene Oxide	0.0000	0.0000
(-)-Isopulegol	0.0000	0.0000
alpha-Humulene	0.0134	0.134
alpha-Pinene	0.5534	5.534
alpha-Terpinene	0.0000	0.0000
beta-Caryophyllene	0.0124	0.124
beta-Myrcene	0.0000	0.0000
beta-Ocimene	0.0000	0.0000
Camphene	0.0077	0.077
cis-Nerolidol	0.0000	0.0000
d-Limonene	1.9605	19.605
delta-3-Carene	0.0010	0.010
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	0.0555	0.555
	4.8372	48.3720



PREDOMINANT TERPENES



Notes

Final Approval



Karen Winternheimer
11Oct2023
09:30:00 AM MDT

PREPARED BY / DATE



Sam Smith
11Oct2023
09:34:00 AM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/cff87249-1eb0-4cf0-8a81-c639c057ca40>

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cff872491eb04cf08a81c639c057ca40.1



DEA No. RA0571996
FL License # CMTL-0003
CLIA No. 10D1094068

Certificate of Analysis

Compliance Test

Laurelcrest Labs
2800 Pringle Rd. SE
#160
Salem, OR 97302

Batch # BK-22-035
Batch Date: 2022-04-08
Extracted From: Industrial Hemp

Sampling Method: MSP 7.3.1
Test Reg State: Florida

Production Facility: Laurelcrest Labs
Production Date: 2022-04-08

Lab Note: Report Merged

Order # LAU220408-010001
Order Date: 2022-04-08
Sample # AACR621

Sampling Date: 2022-04-11
Lab Batch Date: 2022-04-11
Completion Date: 2022-04-15

Initial Gross Weight: 28.275 g



Potency
Tested



Heavy Metals
Passed



Mycotoxins
Passed



Pesticides
Passed



Residual Solvents
Passed



Pathogenic
Passed



Microbiology Petrifilm
Passed

Product Image



Potency 21 (LCUV) +
Potency - 11 (LCMS)

Tested
SOP13.002 (LCUV)



Potency Summary

Specimen Weight: 49.070 mg

Analyte	Dilution (1:n)	LOD (%)	LOQ (%)	Result (mg/g)	(%)
CBD	1000.000	5.40E-5	0.0015	506.8000	50.6800
CBT	100.000	2.00E-4	0.0015	67.8800	6.7880
CBN	100.000	1.40E-5	0.0015	26.7900	2.6790
CBC	100.000	1.80E-5	0.0015	22.4600	2.2460
CBG	10.000	2.48E-4	0.0015	5.8610	0.5861
CBGV	10.000	6.50E-5	0.0015	4.8740	0.4874
CBL	10.000	3.50E-5	0.0015	4.7790	0.4779
Delta-9 THC	10.000	1.30E-5	0.0015	2.7300	0.2730
CBNA	10.000	9.50E-5	0.0015	0.8040	0.0804
CBGA	10.000	8.00E-5	0.0015	0.7570	0.0757
THCV	10.000	7.00E-6	0.0015	0.3060	0.0306
CBCA	10.000	1.07E-4	0.0015	<LOQ	<LOQ
CBDA	10.000	7.80E-6	7.5E-6	<LOQ	<LOQ
CBDOA	10.000	1.40E-5	0.0015	<LOQ	<LOQ
Delta-8 THC	10.000	8.40E-7	7.5E-6	<LOQ	<LOQ
Delta-8 THC-O Acetate	10.000	2.70E-5	0.0003	<LOQ	<LOQ
Delta-8 THCV	10.000	2.10E-7	7.5E-6	<LOQ	<LOQ
Delta-9 THC-O Acetate	10.000	7.70E-5	0.0003	<LOQ	<LOQ
Exo-THC	10.000	2.30E-4	0.0015	<LOQ	<LOQ
THCA-A	10.000	3.20E-5	0.0015	<LOQ	<LOQ
THCVA	10.000	4.70E-5	0.0015	<LOQ	<LOQ

Total Active THC 0.273%	0.273mg	Total Active CBD 50.680%	50.68mg
Total CBG 0.653%	<LOQ	Total CBN 2.749%	<LOQ
Other Cannabinoids 10.030%	<LOQ	Total Cannabinoids 64.404%	<LOQ

Summary Results determined from two distinct Potency Tests - Potency 21 (LCUV) + Potency - 11 (LCMS)

Xueli Gao

Xueli Gao
Ph.D., DABT

Lab Toxicologist

Lab Toxicologist

Aixia Sun

Aixia Sun
Lab Director/Principal Scientist
D.H.Sc., M.Sc., B.Sc., MT (AAB)



Definitions and Abbreviations used in this report: Total Active CBD = CBD + (CBD-A * 0.877), *Total CBDV = CBDV + (CBDVA * 0.87), Total Active THC = THCA-A * 0.877 + Delta 9 THC, Total THCV = THCV + (THCVA * 0.87), CBG Total = (CBGA * 0.877) + CBG, CBN Total = (CBNA * 0.877) + CBN, Total CBC = CBC + (CBCA * 0.877), Total THC-O-Acetate = Delta 8 THC-O-Acetate + Delta 9 THC-O-Acetate, Other Cannabinoids Total = Total Cannabinoids - All the listed cannabinoids on the summary section, Total Detected Cannabinoids = Delta 8-THC + Delta 8-THC + Total CBN + CBT + Delta 8-THCV + Total CBG + Total CBD + Total THCV + CBL + Total THC + Total CBC + Total CBDV + Delta 10-THC + Total THC-O-Acetate, Analyte Details above show the Dry Weight Concentrations unless specified as 12% moisture concentration. (mg/ml) = Milligrams per Milliliter, LOQ = Limit of Quantitation, LOD = Limit of Detection, Dilution = Dilution Factor (ppb) = Parts per Billion (%) = Percent, (cfu/g) = Colony Forming Unit per Gram (cfu/g) = Colony Forming Unit per Gram, LOD = Limit of Detection, (µg/g) = Microgram per Gram (ppm) = Parts per Million, (ppm) = (µg/g), (aw) = aw (area ratio) = Area Ratio, (mg/Kg) = Milligram per Kilogram, *Measurement of Uncertainty = +/- 10%

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DEA No. RA0571996
FL License # CMTL-0003
CLIA No. 10D1094068

Certificate of Analysis

Compliance Test

Laurelcrest Labs
2800 Pringle Rd. SE
#160
Salem, OR 97302

Batch # BK-22-035
Batch Date: 2022-04-08
Extracted From: Industrial Hemp

Sampling Method: MSP 7.3.1
Test Reg State: Florida

Production Facility: Laurelcrest Labs
Production Date: 2022-04-08

Order # LAU220408-010001
Order Date: 2022-04-08
Sample# AACR621

Sampling Date: 2022-04-11
Lab Batch Date: 2022-04-11
Completion Date: 2022-04-15

Initial Gross Weight: 28.275 g



Residual Solvents - FL (CBD)

Passed

Specimen Weight: 165.000 mg

SOP13.039 (GCMS)

Dilution Factor: 500.000

Analyte	L0D (ppm)	L0Q (ppm)	Action Level (ppm)	Result (ppm)	Analyte	L0D (ppm)	L0Q (ppm)	Action Level (ppm)	Result (ppm)
1,1-Dichloroethene	0.0094	0.16	8	ND	Heptane	0.0013	1.39	5000	ND
1,2-Dichloroethane	0.0003	0.04	5	ND	Hexane	0.068	1.17	290	ND
Acetone	0.015	2.08	5000	ND	Isopropyl alcohol	0.0048	1.39	500	ND
Acetonitrile	0.06	1.17	410	ND	Methanol	0.0005	0.69	3000	ND
Benzene	0.0002	0.02	2	ND	Methylene chloride	0.0029	2.43	600	ND
Butanes	0.4167	2.5	2000	ND	Pentane	0.037	2.08	5000	ND
Chloroform	0.0001	0.04	60	ND	Propane	0.031	5.83	2100	ND
Ethanol	0.0021	2.78	5000	ND	Toluene	0.0009	2.92	890	ND
Ethyl Acetate	0.0012	1.11	5000	ND	Total Xylenes	0.0001	2.92	2170	ND
Ethyl Ether	0.0049	1.39	5000	ND	Trichloroethylene	0.0014	0.49	80	ND
Ethylene Oxide	0.0038	0.1	5	ND					



Mycotoxins

Passed

Specimen Weight: 269.800 mg

SOP13.007 (LCMS)

Dilution Factor: 5.560

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Aflatoxin B1		6	20	<LOQ	Aflatoxin G2		6	20	<LOQ
Aflatoxin B2		6	20	<LOQ	Ochratoxin A		12	20	<LOQ
Aflatoxin G1		6	20	<LOQ					



Heavy Metals

Passed

Specimen Weight: 247.750 mg

SOP13.048 (ICP-MS)

Dilution Factor: 201

Analyste	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyste	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Arsenic (As)		100	1500	<LOQ	Lead (Pb)		100	500	<LOQ
Cadmium (Cd)		100	500	<LOQ	Mercury (Hg)		100	3000	<LOQ

Xueli Gao Lab Toxicologist
Ph.D., DABT


Aixa Sun Lab Director/Principal Scientist
D.H.Sc., M.Sc., B.Sc., MT (AAB)



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Order Date: 2022-04-08
Sample # AACR621

Sampling Date: 2022-04-11
Lab Batch Date: 2022-04-11
Completion Date: 2022-04-15

Initial Gross Weight: 28.275 g



Pesticides FL V4

Specimen Weight: 269.800 mg

Dilution Factor: 5.560

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Abamectin		28.23	300	<LOQ	Fludioxonil	48	3000	<LOQ	<LOQ
Acephate	30	3000	3000	<LOQ	Hexythiazox	30	2000	<LOQ	<LOQ
Acequinocyl	48	2000	<LOQ	Imazalil	30	100	<LOQ	<LOQ	<LOQ
Acetamiprid	30	3000	<LOQ	Imidacloprid	30	3000	<LOQ	<LOQ	<LOQ
Aldicarb	30	100	<LOQ	Kresoxim Methyl	30	1000	<LOQ	<LOQ	<LOQ
Azoxystrobin	10	3000	<LOQ	Malathion	30	2000	<LOQ	<LOQ	<LOQ
Bifenazate	30	3000	<LOQ	Metazachl	10	3000	<LOQ	<LOQ	<LOQ
Bifenthrin	30	500	<LOQ	Methiocarb	30	100	<LOQ	<LOQ	<LOQ
Boscalid	10	3000	<LOQ	Methomyl	30	100	<LOQ	<LOQ	<LOQ
Captan	30	3000	<LOQ	methyl-Parathion	10	100	<LOQ	<LOQ	<LOQ
Carbaryl	10	500	<LOQ	Mevinphos	10	100	<LOQ	<LOQ	<LOQ
Carbofuran	10	100	<LOQ	Myclobutanil	30	3000	<LOQ	<LOQ	<LOQ
Chlorantraniliprole	10	3000	<LOQ	Naled	30	500	<LOQ	<LOQ	<LOQ
Chlordane	10	100	<LOQ	Oxamyl	30	500	<LOQ	<LOQ	<LOQ
Chlorfenapyr	30	100	<LOQ	Paclobutrazol	30	100	<LOQ	<LOQ	<LOQ
Chloromequat Chloride	10	3000	<LOQ	Pentachloronitrobenzene	10	200	<LOQ	<LOQ	<LOQ
Chlorpyrifos	30	100	<LOQ	Permethrin	30	1000	<LOQ	<LOQ	<LOQ
Clofentezine	30	500	<LOQ	Phosmet	30	200	<LOQ	<LOQ	<LOQ
Gomnaphos	48	100	<LOQ	Piperonylbutoxide	30	3000	<LOQ	<LOQ	<LOQ
Cyfluthrin	30	1000	<LOQ	Prallethrin	30	400	<LOQ	<LOQ	<LOQ
Cypermethrin	30	1000	<LOQ	Propiconazole	30	1000	<LOQ	<LOQ	<LOQ
Daminozide	30	100	<LOQ	Propoxur	30	100	<LOQ	<LOQ	<LOQ
Diazinon	30	200	<LOQ	Pyrethrins	30	1000	<LOQ	<LOQ	<LOQ
Dichlorvos	30	100	<LOQ	Pyridaben	30	3000	<LOQ	<LOQ	<LOQ
Dimethoate	30	100	<LOQ	Spinetoram	10	3000	<LOQ	<LOQ	<LOQ
Dimethomorph	48	3000	<LOQ	Spinosad	30	3000	<LOQ	<LOQ	<LOQ
Ethionphos	30	100	<LOQ	Spiromesifen	30	3000	<LOQ	<LOQ	<LOQ
Etofenprox	30	100	<LOQ	Spirotetramat	30	3000	<LOQ	<LOQ	<LOQ
Etoxazole	30	1500	<LOQ	Spiroxamine	30	100	<LOQ	<LOQ	<LOQ
Fenhexamid	10	3000	<LOQ	Tebuconazole	30	1000	<LOQ	<LOQ	<LOQ
Fenoxycarb	30	100	<LOQ	Thiacloprid	30	100	<LOQ	<LOQ	<LOQ
Fenpyroximate	30	2000	<LOQ	Thiamethoxam	30	1000	<LOQ	<LOQ	<LOQ
Fipronil	30	100	<LOQ	Trifloxystrobin	30	3000	<LOQ	<LOQ	<LOQ
Flonicamid	30	2000	<LOQ						

Passed
SOP13.007
(LCMS/GCMS)

Pathogenic SE (qPCR)

Specimen Weight: 231.490 mg

Passed
SOP13.029
(qPCR)

Dilution Factor: 1.000

Analyte	Action Level (cfu/g)	Result (cfu/g)	Analyte	Action Level (cfu/g)	Result (cfu/g)
E. Coli	1	Absence in 1g	Salmonella	1	Absence in 1g

Microbiology (Petrifilm)

Specimen Weight: 991.170 mg

Passed
SOP13.003
(Petrifilm)

Dilution Factor: 1.000

Analyte	LOQ (cfu/g)	Action Level (cfu/g)	Result (cfu/g)	Analyte	LOQ (cfu/g)	Action Level (cfu/g)	Result (cfu/g)
Aerobic Bacteria	10	1000	<10	Yeast/Mold	10	100	<10

Xueli Gao
Xueli Gao
Ph.D., DABT
Lab Toxicologist

Aixia Sun
Aixia Sun
D.H.Sc., M.Sc., B.Sc., MT (AAB)
Lab Director/Principal Scientist



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