



# Certificate of Analysis

Pages 1 of 5

**PASSED**



**Harvest/Lot ID:** 105STC020625  
**Batch #:** 105STC020625  
**Harvest Date:** 02/06/25  
**Manufacturing Date:** 03/28/25  
**Production Method:** Indoor  
**Retail Product Size:** 16.00 gram  
**Retail Serving Size:** 16  
**Servings:** 1

**Lab ID:** TE50328006-001  
**Sampled:** 03/28/25  
**Sampling Method:** N/A  
**Completed:** 04/01/25  
**Sample Collection Time:** 12:00 PM  
**Expire:** 04/01/26

## Sonoran Roots

550 W. McKellips Rd  
Mesa, AZ, 85201, US

**License #:** 00000037DCDM00904008



## Cannabinoid

**PASSED**



**Total THC**  
**20.5538%**



**Total CBD**  
**ND**



**Total Cannabinoids** **Q3**  
**23.7189%**

	D9-THC	THCA	CBD	CBDA	CBG	CBGA	CBN	D8-THC	THCV	CBDV	CBC
%	0.8098	22.5132	ND	ND	ND	0.3959	ND	ND	ND	ND	ND
mg/g	8.098	225.132	ND	ND	ND	3.959	ND	ND	ND	ND	ND
LOQ	0.0001	0.0001	0.0001	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0001
%	%	%	%	%	%	%	%	%	%	%	%

Qualifier

**Analyzed by:**  
540, 547, 572

**Weight:**  
0.1957g

**Extraction date:**  
03/29/25 18:22:33

**Extracted by:**  
432,540

**Analysis Method :** N/A

**Analytical Batch :** TE008213POT

**Instrument Used :** TE-004 "Blossom" (Flower)

**Analyzed Date :** 04/01/25 12:29:05

**Batch Date :** 03/28/25 14:37:58

**Dilution :** 400

**Reagent :** N/A

**Consumables :** N/A

**Pipette :** N/A

Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with Photo Diode Array detector (HPLC-PDA) for analysis. (Methods: SOP.T.30.500 for sample homogenization, SOP.T.30.031 for sample prep, SOP.T.40.031 for analysis on Shimadzu LC-20X0 series HPLCs). Potency results for cannabis flower products are reported on an "as received" basis, without moisture correction.

## SAFETY RESULTS

## MISC.



**Pesticide**  
**PASSED**



**Heavy Metals**  
**PASSED**



**Microbial**  
**PASSED**



**Mycotoxins**  
**PASSED**



**Solvents**  
**NOT TESTED**



**Filth/Foreign  
Material**  
**NOT TESTED**



**Water Activity**  
**NOT TESTED**



**Moisture  
Content**  
**NOT TESTED**



**Vitamin E**  
**NOT TESTED**



**Terpenes**  
**TESTED**

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**Madison Levy**  
Lab Director

State License #  
00000024LCMD66604568  
ISO 17025 Accredited #  
97164

*Madison Levy*  
Signature  
04/01/25



# Certificate of Analysis

Pages 2 of 5

Sample: TE50328006-001  
Sonoran Roots  
Telephone: (480) 298-0248  
Email: nick.cerimeli@sonoranroots.com

Harvest/Lot ID: 105STC020625  
Batch #: 105STC020625

Ordered: 03/28/25  
Sampled: 03/28/25  
Completed: 04/01/25

**PASSED**



## Terpenes

**TESTED**

ANALYTES	UNIT	LOD	LOQ	ACTION LEVEL	PASS/FAIL	RESULT	QUALIFIER
TOTAL TERPENES	%	0	0.002		TESTED	1.3501	Q3
ALPHA-PINENE	%	0	0.002		TESTED	ND	
CAMPHENE	%	0	0.002		TESTED	ND	
SABINENE	%	0	0.002		TESTED	ND	
BETA-PINENE	%	0	0.002		TESTED	ND	
BETA-MYRCENE	%	0	0.002		TESTED	ND	
ALPHA-PHELLANDRENE	%	0	0.002		TESTED	ND	
3-CARENE	%	0	0.002		TESTED	ND	
ALPHA-TERPINENE	%	0	0.002		TESTED	ND	
LIMONENE	%	0	0.002		TESTED	0.3016	Q3
EUCALYPTOL	%	0	0.002		TESTED	ND	
OCIMENE	%	0	0.002		TESTED	ND	
GAMMA-TERPINENE	%	0	0.002		TESTED	ND	
SABINENE HYDRATE	%	0	0.002		TESTED	ND	
TERPINOLENE	%	0	0.002		TESTED	ND	
FENCHONE	%	0	0.002		TESTED	ND	
LINALOOL	%	0	0.002		TESTED	0.2274	Q3
FENCHYL ALCOHOL	%	0	0.002		TESTED	ND	
ISOPULEGOL	%	0	0.002		TESTED	ND	
CAMPHOR	%	0	0.002		TESTED	ND	
ISOBORNEOL	%	0	0.002		TESTED	ND	
BORNEOL	%	0	0.002		TESTED	ND	
MENTHOL	%	0	0.002		TESTED	ND	
ALPHA-TERPINEOL	%	0	0.002		TESTED	ND	
GAMMA-TERPINEOL	%	0	0.002		TESTED	ND	
NEROL	%	0	0.002		TESTED	ND	
PULEGONE	%	0	0.002		TESTED	ND	
GERANIOL	%	0	0.002		TESTED	ND	
GERANYL ACETATE	%	0	0.002		TESTED	ND	
ALPHA-CEDRENE	%	0	0.002		TESTED	ND	
BETA-CARYOPHYLLENE	%	0	0.002		TESTED	0.6157	Q3
ALPHA-HUMULENE	%	0	0.002		TESTED	0.2054	Q3
VALENCENE	%	0	0.002		TESTED	ND	
CIS-NEROLIDOL	%	0	0.002		TESTED	ND	
TRANS-NEROLIDOL	%	0	0.002		TESTED	ND	
CARYOPHYLLENE OXIDE	%	0	0.002		TESTED	ND	
GUAJOL	%	0	0.002		TESTED	ND	
CEDROL	%	0	0.002		TESTED	ND	
ALPHA-BISABOLOL	%	0	0.002		TESTED	ND	

Analyzed by: 547, 409, 334, 572      Weight: 0.2450g      Extraction date: 03/29/25 14:15:32      Extracted by: 547,334

Analysis Method : N/A  
Analytical Batch : TE008206TER  
Instrument Used : TE-096 "MS - Terpenes 1",TE-097 "AS - Terpenes 1",TE-093 "GC - Terpenes 1"  
Batch Date : 03/28/25 12:02:42  
Analyzed Date : 04/01/25 13:11:32

Dilution : 5  
Reagent : 110124.06; 031025.02  
Consumables : 0000179471; 9479291.162; K107291-06; 8000038072; 1; GD240003  
Pipette : N/A

Terpenes screening is performed using GC-MS which can detect below single digit ppm concentrations. (Methods: SOP.T.30.500 for sample homogenization, SOP.T.30.064 for sample prep, and SOP.T.40.064 for analysis via ThermoScientific 1310-series GC equipped with an AI 1310-series liquid injection autosampler and detection carried out by ISQ 7000-series mass spectrometer). Terpene results are reported on a wt/wt% basis. Testing result is for informational purposes only and cannot be used to satisfy dispensary testing requirements in R9-17-317.01(A) or labeling requirements in R9-17-317. Nor, can it be used to satisfy marijuana establishment testing requirements in R9-18-311(A) or labeling requirements in R9-18-310 - Q3.



## Pesticide

**PASSED**

ANALYTES	UNIT	LOD	LOQ	ACTION LEVEL	PASS/FAIL	RESULT	QUALIFIER
AVERMECTINS (ABAMECTIN B1A)	ppm	0.017	0.25	0.5	PASS	ND	

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**Madison Levy**  
Lab Director  
State License #  
00000024LCMD66604568  
ISO 17025 Accreditation #  
97164

*Madison Levy*  
Signature  
04/01/25



# Certificate of Analysis

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Sample: TE50328006-001  
Sonoran Roots  
Telephone: (480) 298-0248  
Email: nick.cerimeli@sonoranroots.com

Harvest/Lot ID: 105STC020625  
Batch #: 105STC020625

Ordered: 03/28/25  
Sampled: 03/28/25  
Completed: 04/01/25

**PASSED**

	<b>Pesticide</b>	<b>PASSED</b>
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ANALYTES	UNIT	LOD	LOQ	ACTION LEVEL	PASS/FAIL	RESULT	QUALIFIER
ACEPHATE	ppm	0.01	0.2	0.4	PASS	ND	
ACETAMIPRID	ppm	0.005	0.1	0.2	PASS	ND	
ALDICARB	ppm	0.014	0.2	0.4	PASS	ND	
AZOXYSTROBIN	ppm	0.005	0.1	0.2	PASS	ND	
BIFENAZATE	ppm	0.006	0.1	0.2	PASS	ND	
BIFENTHRIN	ppm	0.005	0.1	0.2	PASS	ND	
BOSCALID	ppm	0.005	0.2	0.4	PASS	ND	
CARBARYL	ppm	0.008	0.1	0.2	PASS	ND	
CARBOFURAN	ppm	0.005	0.1	0.2	PASS	ND	
CHLORANTRANILIPROLE	ppm	0.011	0.1	0.2	PASS	ND	
CHLORPYRIFOS	ppm	0.005	0.1	0.2	PASS	ND	
CLOFENTEZINE	ppm	0.01	0.1	0.2	PASS	ND	
CYPERMETHRIN	ppm	0.1	0.5	1	PASS	ND	
DIAZINON	ppm	0.006	0.1	0.2	PASS	ND	
DAMINOZIDE	ppm	0.01	0.5	1	PASS	ND	
DICHLORVOS (DDVP)	ppm	0.001	0.05	0.1	PASS	ND	
DIMETHOATE	ppm	0.006	0.1	0.2	PASS	ND	
ETHOPROPHOS	ppm	0.004	0.1	0.2	PASS	ND	
ETOFENPROX	ppm	0.006	0.2	0.4	PASS	ND	
ETOXAZOLE	ppm	0.004	0.1	0.2	PASS	ND	
FENOXYCARB	ppm	0.005	0.1	0.2	PASS	ND	
FENPYROXIMATE	ppm	0.004	0.2	0.4	PASS	ND	
FIPRONIL	ppm	0.006	0.2	0.4	PASS	ND	
FLONICAMID	ppm	0.009	0.5	1	PASS	ND	
FLUDIOXONIL	ppm	0.006	0.2	0.4	PASS	ND	
HEXYTHIAZOX	ppm	0.005	0.5	1	PASS	ND	
IMAZALIL	ppm	0.011	0.1	0.2	PASS	ND	
IMIDACLOPRID	ppm	0.008	0.2	0.4	PASS	ND	L1
KRESOXIM-METHYL	ppm	0.007	0.2	0.4	PASS	ND	
MALATHION	ppm	0.007	0.1	0.2	PASS	ND	
METALAXYL	ppm	0.004	0.1	0.2	PASS	ND	
METHIOCARB	ppm	0.004	0.1	0.2	PASS	ND	
METHOMYL	ppm	0.005	0.2	0.4	PASS	ND	
MYCLOBUTANIL	ppm	0.01	0.1	0.2	PASS	ND	
NALED	ppm	0.007	0.25	0.5	PASS	ND	
OXAMYL	ppm	0.008	0.5	1	PASS	ND	
PACLOBUTRAZOL	ppm	0.005	0.2	0.4	PASS	ND	
TOTAL PERMETHRINS	ppm	0.003	0.1	0.2	PASS	ND	M2
PHOSMET	ppm	0.01	0.1	0.2	PASS	ND	
PIPERONYL BUTOXIDE	ppm	0.005	1	2	PASS	ND	
PRALLETHRIN	ppm	0.013	0.1	0.2	PASS	ND	
PROPICONAZOLE	ppm	0.005	0.2	0.4	PASS	ND	
PROPOXUR	ppm	0.005	0.1	0.2	PASS	ND	
TOTAL PYRETHRINS	ppm	0.001	0.5	1	PASS	ND	
PYRIDABEN	ppm	0.004	0.1	0.2	PASS	ND	
TOTAL SPINOSAD	ppm	0.006	0.1	0.2	PASS	ND	
SPIROMESIFEN	ppm	0.008	0.1	0.2	PASS	ND	
SPIROTETRAMAT	ppm	0.006	0.1	0.2	PASS	ND	
SPIROXAMINE	ppm	0.004	0.2	0.4	PASS	ND	
TEBUCONAZOLE	ppm	0.004	0.2	0.4	PASS	ND	
THIACLOPRID	ppm	0.006	0.1	0.2	PASS	ND	
THIAMETHOXAM	ppm	0.006	0.1	0.2	PASS	ND	
TRIFLOXYSTROBIN	ppm	0.006	0.1	0.2	PASS	ND	
CHLORFENAPYR	ppm	0.027	0.3	1	PASS	ND	
CYFLUTHRIN	ppm	0.015	0.5	1	PASS	ND	

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**Madison Levy**  
Lab Director  
State License #  
00000024LCMD66604568  
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*Madison Levy*  
Signature  
04/01/25



# Certificate of Analysis

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Sample: **TE50328006-001**  
Sonoran Roots  
Telephone: (480) 298-0248  
Email: nick.cerimeli@sonoranroots.com

Harvest/Lot ID: 105STC020625  
Batch #: 105STC020625

Ordered: 03/28/25  
Sampled: 03/28/25  
Completed: 04/01/25

**PASSED**

	<b>Pesticide</b>	<b>PASSED</b>
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ANALYTES		UNIT	LOD	LOQ	ACTION LEVEL	PASS/FAIL	RESULT	QUALIFIER
Analyzed by: 410, 152, 432, 547, 572		Weight: 0.507g		Extraction date: 03/28/25 18:31:27		Extracted by: 410		
Analysis Method : N/A						Batch Date : 03/28/25 12:56:38		
Analytical Batch : TE008209PES								
Instrument Used : TE-262 "MS/MS - Pest/Myco 2", TE-117 UHPLC - Pest/Myco 2								
Analyzed Date : 04/01/25 17:58:16								
Dilution : 25								
Reagent : 032425.R04; 032425.R05; 032425.R07; 030625.R06; 032525.R13; 032125.R10; 030625.R25; 032525.R15; 041823.06								
Consumables : 9479291.162; 8000038072; 110424CH01; 220321-306-D; 1009468941; GD240003; 426060-JG								
Pipette : TE-062 SN:20C50491; TE-064 SN:20B27672 (100-1000uL)								
Pesticide screening is carried out using LC-MS/MS supplemented by GC-MS/MS for volatile pesticides. (Methods: SOP.T.30.500 for sample homogenization, SOP.T.30.104.AZ for sample prep, and SOP.T.40.104.AZ for analysis on ThermoScientific Altis TSQ with Vanquish UHPLC).								

<b>Analyzed by:</b> 410, 152, 432, 547, 572	<b>Weight:</b> 0.507g	<b>Extraction date:</b> 03/28/25 18:31:27	<b>Extracted by:</b> 410
<b>Analysis Method :</b> N/A <b>Analytical Batch :</b> TE008227VOL <b>Instrument Used :</b> TE-117 UHPLC - Pest/Myco 2,TE-262 "MS/MS - Pest/Myco 2 <b>Analyzed Date :</b> 04/01/25 17:59:23			
			<b>Batch Date :</b> 03/28/25 19:32:56
<b>Dilution :</b> 25 <b>Reagent :</b> 032425.R04; 032425.R05; 032425.R07; 030625.R06; 032525.R13; 032125.R10; 030625.R25; 032525.R15; 041823.06 <b>Consumables :</b> 9479291.162; 8000038072; 110424CH01; 220321-306-D; 1009468941; GD240003; 426060-JG <b>Pipette :</b> TE-062 SN:20C50491; TE-064 SN:20B27672 (100-1000uL)			
Supplemental pesticide screening using GC-MS/MS to quantitatively screen for Chlorfenapyr, Cyfluthrin, Cypermethrin, and Diazinon; as well as the qualitative confirmation of Dichlorvos, Permethrins, Piperonyl Butoxide, Prallethrin, Propiconazole, Pyrethrins, and Tebuconazole which are all quantitatively screened using LC-MS/MS. (Methods: SOP.T.30.500 for sample homogenization, SOP.T.30.104.AZ for sample prep, and SOP.T.40.154.AZ for analysis using a ThermoScientific 1310-series GC equipped with a TriPlus RSH autosampler and detected on a TSQ 9000-series mass spectrometer).			

	<b>Microbial</b>	<b>PASSED</b>
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ANALYTES		UNIT	LOD	LOQ	ACTION LEVEL	PASS/FAIL	RESULT	QUALIFIER
SALMONELLA SPP.		pass/fail	0	0	1	PASS	Not Present in 1g	
ASPERGILLUS FLAVUS		pass/fail	1	0	0.999	PASS	Not Present in 1g	
ASPERGILLUS FUMIGATUS		pass/fail	1	0	0.999	PASS	Not Present in 1g	
ASPERGILLUS NIGER		pass/fail	1	0	0.999	PASS	Not Present in 1g	
ASPERGILLUS TERREUS		pass/fail	1	0	0.999	PASS	Not Present in 1g	
ESCHERICHIA COLI (REC)		CFU/g	10	10	100	PASS	<10	
Analyzed by: 331, 547, 572		Weight: 0.9876g		Extraction date: 03/31/25 14:19:49			Extracted by: 331	
Analysis Method : N/A								
Analytical Batch : TE008217MIC								
Instrument Used : TE-234 "bioMerieux GENE-UP"					Batch Date : 03/28/25 17:52:44			
Analyzed Date : 04/01/25 11:52:51								
Dilution : 10								
Reagent : 021825.11; 021825.12; 032725.18; 022825.43; 022825.50; 111524.59; 021825.26; 032725.35; 032725.02; 120524.22; 032825.R24; 022025.07								
Consumables : N/A								
Pipette : N/A								
Microbiological screening for bacterial and fungal identification via Polymerase Chain Reaction (PCR) methods consisting of sample DNA amplified via tandem PCR as a crude lysate without purification. (Methods: SOP.T.40.056B for sample prep and screening for Salmonella and Aspergillus sp. by PathogenDx Detectx Combined using a SensoSpot Microarray Analyzer and SOP.T.40.209.AZ for quantitative plating of E. coli on 3M Rapid E. coli Petrifilm and confirmation of Aspergillus sp. on SabDex agar for derivative products). All qualitative microbial testing is reported as detected/not detected in 1g.								



# Certificate of Analysis

Pages 5 of 5

Sample: **TE50328006-001**  
Sonoran Roots  
Telephone: (480) 298-0248  
Email: nick.cerimeli@sonoranroots.com

Harvest/Lot ID: 105STC020625  
Batch #: 105STC020625

Ordered: 03/28/25  
Sampled: 03/28/25  
Completed: 04/01/25

**PASSED**



## Mycotoxins

**PASSED**

ANALYTES	UNIT	LOD	LOQ	ACTION LEVEL	PASS/FAIL	RESULT	QUALIFIER
TOTAL AFLATOXINS	ppb	1.487	4.851	20	PASS	ND	
AFLATOXIN B1	ppb	1.47	4.851	20	PASS	ND	
AFLATOXIN B2	ppb	1.8	5.94	20	PASS	ND	
AFLATOXIN G1	ppb	1.9	6.27	20	PASS	ND	
AFLATOXIN G2	ppb	3.25	10.725	20	PASS	ND	
OCHRATOXIN A	ppb	4.61	12	20	PASS	ND	

Analyzed by: 410, 152, 432, 547, 572      Weight: 0.507g      Extraction date: 03/28/25 18:31:27      Extracted by: 410

Analysis Method : N/A  
Analytical Batch : TE008228MYC  
Instrument Used : TE-262 "MS/MS - Pest/Myco 2,TE-117 UHPLC - Pest/Myco 2      Batch Date : 03/28/25 19:33:39  
Analyzed Date : 04/01/25 17:58:53

Dilution : 25  
Reagent : 032425.R04; 032425.R05; 032425.R07; 030625.R06; 032525.R13; 032125.R10; 030625.R25; 032525.R15; 041823.06  
Consumables : 9479291.162; 8000038072; 110424CH01; 220321-306-D; 1009468941; GD240003; 426060-JG  
Pipette : TE-062 SN:20C50491; TE-064 SN:20B27672 (100-1000uL)

Aflatoxins B1, B2, G1, G2, and Ochratoxin A analysis using LC-MS/MS. (Methods: SOP.T.30.500 for sample homogenization, SOP.T.30.104.AZ for sample prep, and SOP.T.40.104.AZ for analysis on ThermoScientific Altis TSQ with Vanquish UHPLC). Total Aflatoxins (sum of Aflatoxins B1, B2, G1, G2) must be <20µg/kg. Ochratoxin must be <20µg/kg.



## Heavy Metals

**PASSED**

ANALYTES	UNIT	LOD	LOQ	ACTION LEVEL	PASS/FAIL	RESULT	QUALIFIER
ARSENIC	ppm	0.003	0.2	0.4	PASS	ND	
CADMIUM	ppm	0.002	0.2	0.4	PASS	ND	
LEAD	ppm	0.001	0.5	1	PASS	ND	
MERCURY	ppm	0.0125	0.1	0.2	PASS	ND	

Analyzed by: 398, 547, 572      Weight: 0.1952g      Extraction date: 03/28/25 18:12:23      Extracted by: 445,398

Analysis Method : N/A  
Analytical Batch : TE008219HEA  
Instrument Used : TE-307 "Ted"      Batch Date : 03/28/25 18:10:07  
Analyzed Date : 04/01/25 12:22:51

Dilution : 50  
Reagent : 100424.06; 102824.04; 032825.R16; 032525.R14; 032825.R05; 022425.01; 090922.04  
Consumables : 110424CH01; 220321-306-D; 1009468941; GD240003  
Pipette : TE-063 SN:20C50490 (20-200uL); TE-110 SN:20B18338 (100-1000uL); TE-169 SN: 20B16352 (Nitric Acid)

Heavy Metals screening is performed using ICP-MS (Inductively Coupled Plasma - Mass Spectrometer) which can screen down to below single digit ppb concentrations for regulated heavy metals. (Methods: SOP.T.30.500 for sample homogenization, SOP.T.30.084.AZ for sample prep by microwave digestion, and SOP.T.40.084.AZ for analysis by ThermoScientific iCAP RQ ICP-MS).