



# Certificate of Analysis

## COMPLIANCE FOR RETAIL

**Sample:** DA21119001-003  
**Harvest/Lot ID:** 2944 6342 4686 4839  
**Batch#:** 9702 2641 9276 4525  
**Cultivation Facility:** Apopka  
**Processing Facility :** Apopka  
**Seed to Sale#** 3547 2790 9227 4524  
**Batch Date:** 11/15/22  
**Sample Size Received:** 294 gram  
**Total Amount:** 1324 units  
**Retail Product Size:** 42.4395 gram  
**Ordered :** 11/18/22  
**Sampled :** 11/18/22  
**Completed:** 11/28/22  
**Sampling Method:** SOP.T.20.010

Nov 28, 2022 | Sanctuary Medicinals

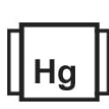
251 East Keene Rd  
Apopka, FL, 32703, US

**PASSED**

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**PRODUCT IMAGE**

**SAFETY RESULTS**

Pesticides  
**PASSED**

Heavy Metals  
**PASSED**

Microbials  
**PASSED**

Mycotoxins  
**PASSED**

Residuals Solvents  
**PASSED**

Filth  
**PASSED**

Water Activity  
**PASSED**

Moisture  
**NOT TESTED**

Terpenes  
**NOT TESTED**
**MISC.**

**Cannabinoid**
**PASSED**

**Total THC**
**0.208%**

Total THC/Container : 88.274 mg


**Total CBD**
**ND**

Total CBD/Container : 0.424 mg


**Total Cannabinoids**
**0.218%**

Total Cannabinoids/Container : 92.518 mg

	D9-THC	THCA	CBD	CBDA	D8-THC	CBG	CBGA	CBN	THCV	CBDV	CBC
%	0.208	ND	ND	ND	ND	0.005	ND	0.002	ND	ND	ND
mg/unit	88.274	ND	ND	ND	ND	2.121	ND	0.848	ND	ND	ND
LOD	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
%		%	%	%	%	%	%	%	%	%	%

Analyzed by:  
1665, 3112, 1440

Weight:  
3.0092g

Extraction date:  
11/21/22 09:38:59

Extracted by:  
1665

**Analysis Method :** SOP.T.40.031, SOP.T.30.031  
**Analytical Batch :** DA052636POT  
**Instrument Used :** DA-LC-007  
**Running on :** 11/21/22 10:00:04

**Reviewed On :** 11/28/22 07:09:14  
**Batch Date :** 11/19/22 10:30:39

**Dilution :** 40  
**Reagent :** 111622.R50; 070121.27; 111622.R46  
**Consumables :** 239146; 280670723; CE0123; 61633-125C6-125E; R1KB14270  
**Pipette :** DA-079; DA-108; DA-078

Full Spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with UV detection in accordance with F.S. Rule 64ER20-39.

This Kaycha Labs Certification shall not be reproduced, unless in its entirety, without written approval from Kaycha Labs. The results relate only to the material or product analyzed. ND=Not Detected, ppm=Parts Per Million, ppb=Parts Per Billion, RSD=Relative Standard Deviation. Limit of Detection (LOD) and Limit Of Quantitation (LOQ) are terms used to describe the smallest concentration that can be detected and reliably measured by an analytical procedure, respectively. Action Levels are State determined thresholds based on F.S. Rule 64ER20-39 and F.S. Rule 5K-4. The Measurement of Uncertainty (MU) error is available from the lab upon request. The "Decision Rule" for pass/fail does not include the MU. Any calculated totals may contain rounding errors.

**Revision: #1**

This revision supersedes any and all previous versions of this document.

**Jorge Segredo**  
 Lab Director

State License # CMTL-0002  
 ISO 17025 Accreditation # ISO/IEC  
 17025:2017 Accreditation PJLA-  
 Testing 97164

  
 Signature

11/28/22

Signed On



# Certificate of Analysis

**PASSED**

Sanctuary Medicinals

 251 East Keene Rd  
 Apopka, FL, 32703, US  
 Telephone: (800) 666-8621  
 Email: nsatmary@sanctuarymed.com

 Sample : DA21119001-003  
 Harvest/Lot ID: 2944 6342 4686 4839

 Batch# : 9702 2641 9276  
 Sample Size Received : 294 gram  
 Total Amount : 1324 units  
 Completed : 11/28/22 Expires: 11/28/23  
 Sample Method : SOP.T.20.010

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## Pesticides

**PASSED**

Pesticide	LOD	Units	Action Level	Pass/Fail	Result	Pesticide	LOD	Units	Action Level	Pass/Fail	Result
TOTAL CONTAMINANT LOAD (PESTICIDES)	0.01	ppm	30	PASS	ND	OXAMYL	0.01	ppm	0.5	PASS	ND
TOTAL DIMETHOMORPH	0.01	ppm	3	PASS	ND	PACLOBUTRAZOL	0.01	ppm	0.1	PASS	ND
TOTAL PERMETHRIN	0.01	ppm	1	PASS	ND	PHOSMET	0.01	ppm	0.2	PASS	ND
TOTAL PYRETHRINS	0.01	ppm	1	PASS	ND	PIPERONYL BUTOXIDE	0.01	ppm	3	PASS	ND
TOTAL SPINETORAM	0.01	ppm	3	PASS	ND	PRALLETHRIN	0.01	ppm	0.4	PASS	ND
TOTAL SPINOSAD	0.01	ppm	3	PASS	ND	PROCONAZOLE	0.01	ppm	1	PASS	ND
ABAMECTIN B1A	0.01	ppm	0.3	PASS	ND	PROPOXUR	0.01	ppm	0.1	PASS	ND
ACEPHATE	0.01	ppm	3	PASS	ND	PYRIDABEN	0.01	ppm	3	PASS	ND
ACEQUINOCYL	0.01	ppm	2	PASS	ND	SPIROMESIFEN	0.01	ppm	3	PASS	ND
ACETAMIPRID	0.01	ppm	3	PASS	ND	SPIROTETRAMAT	0.01	ppm	3	PASS	ND
ALDICARB	0.01	ppm	0.1	PASS	ND	SPIROXAMINE	0.01	ppm	0.1	PASS	ND
AZOXYSTROBIN	0.01	ppm	3	PASS	ND	TEBUCONAZOLE	0.01	ppm	1	PASS	ND
BIFENAZATE	0.01	ppm	3	PASS	ND	THIACLOPRID	0.01	ppm	0.1	PASS	ND
BIFENTHRIN	0.01	ppm	0.5	PASS	ND	THIAMETHOXAM	0.01	ppm	1	PASS	ND
BOSCALID	0.01	ppm	3	PASS	ND	TRIFLOXYSTROBIN	0.01	ppm	3	PASS	ND
CARBARYL	0.01	ppm	0.5	PASS	ND	PENTACHLORONITROBENZENE (PCNB) *	0.01	PPM	0.2	PASS	ND
CARBOFURAN	0.01	ppm	0.1	PASS	ND	PARATHION-METHYL *	0.01	PPM	0.1	PASS	ND
CHLORANTRANILIPROLE	0.01	ppm	3	PASS	ND	CAPTAN *	0.07	PPM	3	PASS	ND
CHLORMEQUAT CHLORIDE	0.01	ppm	3	PASS	ND	CHLORDANE *	0.01	PPM	0.1	PASS	ND
CHLORPYRIFOS	0.01	ppm	0.1	PASS	ND	CHLORFENAPYR *	0.01	PPM	0.1	PASS	ND
CLOFENTZINE	0.01	ppm	0.5	PASS	ND	CYFLUTHRIN *	0.05	PPM	1	PASS	ND
COUMAPHOS	0.01	ppm	0.1	PASS	ND	CYPERMETHRIN *	0.05	PPM	1	PASS	ND
DAMINOZIDE	0.01	ppm	0.1	PASS	ND						
DIAZINON	0.01	ppm	3	PASS	ND	Analyzed by:	Weight:	Extraction date:	Extracted by:		
DICHLORVOS	0.01	ppm	0.1	PASS	ND	585, 795, 53, 1440	1.0913g	11/21/22 12:56:13	585		
DIMETHOATE	0.01	ppm	0.1	PASS	ND						
ETHOPROPHOS	0.01	ppm	0.1	PASS	ND	Analysis Method :					
ETOFENPROX	0.01	ppm	0.1	PASS	ND	SOP.T.30.101.FL (Gainesville), SOP.T.30.102.FL (Davie), SOP.T.40.101.FL (Gainesville),					
ETOXAZOLE	0.01	ppm	1.5	PASS	ND	SOP.T.40.102.FL (Davie)					
FENHEXAMID	0.01	ppm	3	PASS	ND	Analytical Batch : DA052665PES			Reviewed On : 11/22/22 14:15:10		
FENOXYCARB	0.01	ppm	0.1	PASS	ND	Instrument Used : DA-LCMS-004 (PES)			Batch Date : 11/20/22 18:51:17		
FENPYROXIMATE	0.01	ppm	2	PASS	ND	Running on : 11/21/22 12:59:14					
FIPRONIL	0.01	ppm	0.1	PASS	ND	Dilution : 250					
FLONICAMID	0.01	ppm	2	PASS	ND	Reagent : 111422.R21; 111622.R42; 110722.R24; 111622.R01; 092820.59					
FLUDIOXONIL	0.01	ppm	3	PASS	ND	Consumables : 6676024-02					
HEXYTHIAZOX	0.01	ppm	2	PASS	ND	Pipette : DA-093; DA-094; DA-219					
IMAZALIL	0.01	ppm	0.1	PASS	ND	Testing for agricultural agents is performed utilizing Liquid Chromatography Triple-Quadrupole Mass Spectrometry in accordance with F.S. Rule 64ER20-39.					
IMIDACLOPRID	0.01	ppm	1	PASS	ND	Analyzed by:	Weight:	Extraction date:	Extracted by:		
KRESOXIM-METHYL	0.01	ppm	1	PASS	ND	3379, 450, 585, 1440, 53	1.0913g	11/21/22 12:56:13	585		
MALATHION	0.01	ppm	2	PASS	ND						
METALAXYL	0.01	ppm	3	PASS	ND	Analysis Method :					
METHIOCARB	0.01	ppm	0.1	PASS	ND	SOP.T.30.151.FL (Gainesville), SOP.T.30.151A.FL (Davie), SOP.T.40.151.FL					
METHOMYL	0.01	ppm	0.1	PASS	ND	Analytical Batch : DA052667VOL			Reviewed On : 11/22/22 14:20:42		
MEVINPHOS	0.01	ppm	0.1	PASS	ND	Instrument Used : DA-GCMS-001			Batch Date : 11/20/22 18:54:39		
MYCLOBUTANIL	0.01	ppm	3	PASS	ND	Running on : 11/21/22 13:36:43					
NALED	0.01	ppm	0.5	PASS	ND	Dilution : 250					
						Reagent : 111622.R42; 092820.59; 111022.R38; 111022.R27					
						Consumables : 6676024-02; 14725401					
						Pipette : DA-093; DA-094; DA-219					
						Testing for agricultural agents is performed utilizing Gas Chromatography Triple-Quadrupole Mass Spectrometry in accordance with F.S. Rule 64ER20-39.					



# Certificate of Analysis

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**Sanctuary Medicinals**

 251 East Keene Rd  
 Apopka, FL, 32703, US  
**Telephone:** (800) 666-8621  
**Email:** nsatmary@sanctuarymed.com

**Sample :** DA21119001-003

**Harvest/Lot ID:** 2944 6342 4686 4839

**Batch# :** 9702 2641 9276  
 4525

**Sampled :** 11/18/22

**Ordered :** 11/18/22

**Sample Size Received :** 294 gram

**Total Amount :** 1324 units

**Completed :** 11/28/22 **Expires:** 11/28/23

**Sample Method :** SOP.T.20.010

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## Residual Solvents

**PASSED**

Solvents	LOD	Units	Action Level	Pass/Fail	Result
1,1-DICHLOROETHENE	0.8	ppm	8	PASS	ND
1,2-DICHLOROETHANE	0.2	ppm	2	PASS	ND
2-PROPANOL	50	ppm	500	PASS	ND
ACETONE	75	ppm	750	PASS	ND
ACETONITRILE	6	ppm	60	PASS	ND
BENZENE	0.1	ppm	1	PASS	ND
BUTANES (N-BUTANE)	500	ppm	5000	PASS	ND
CHLOROFORM	0.2	ppm	2	PASS	ND
DICHLOROMETHANE	12.5	ppm	125	PASS	ND
ETHANOL	500	ppm	5000	PASS	ND
ETHYL ACETATE	40	ppm	400	PASS	ND
ETHYL ETHER	50	ppm	500	PASS	ND
ETHYLENE OXIDE	0.5	ppm	5	PASS	ND
HEPTANE	500	ppm	5000	PASS	ND
METHANOL	25	ppm	250	PASS	ND
N-HEXANE	25	ppm	250	PASS	ND
PENTANES (N-PENTANE)	75	ppm	750	PASS	ND
PROPANE	500	ppm	5000	PASS	ND
TOLUENE	15	ppm	150	PASS	ND
TOTAL XYLENES	15	ppm	150	PASS	ND
TRICHLOROETHYLENE	2.5	ppm	25	PASS	ND

**Analyzed by:**  
 850, 53, 1440

**Weight:**  
 0.0267g

**Extraction date:**  
 11/21/22 18:40:42

**Extracted by:**  
 850

**Analysis Method :** SOP.T.40.041.FL

**Analytical Batch :** DA052688SOL

**Instrument Used :** DA-GCMS-003

**Running on :** 11/22/22 12:08:47

**Reviewed On :** 11/23/22 14:37:57

**Batch Date :** 11/21/22 16:26:19

**Dilution :** 1

**Reagent :** 030420.09

**Consumables :** R2017.167; KF140

**Pipette :** DA-309 25 uL Syringe 35028

Residual solvents analysis is performed utilizing Gas Chromatography Mass Spectrometry in accordance with with F.S. Rule 64ER20-39.

Signature








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 <b>Microbial</b> <b>PASSED</b>						 <b>Mycotoxins</b> <b>PASSED</b>					
Analyte	LOD	Units	Result	Pass / Fail	Action Level	Analyte	LOD	Units	Result	Pass / Fail	Action Level
ESCHERICHIA COLI SHIGELLA SPP			Not Present	PASS		AFLATOXIN B2	0.002	ppm	ND	PASS	0.02
SALMONELLA SPECIFIC GENE			Not Present	PASS		AFLATOXIN B1	0.002	ppm	ND	PASS	0.02
ASPERGILLUS FLAVUS			Not Present	PASS		OCHRATOXIN A	0.002	ppm	ND	PASS	0.02
ASPERGILLUS FUMIGATUS			Not Present	PASS		AFLATOXIN G1	0.002	ppm	ND	PASS	0.02
ASPERGILLUS TERREUS			Not Present	PASS		AFLATOXIN G2	0.002	ppm	ND	PASS	0.02
ASPERGILLUS NIGER			Not Present	PASS		Analyzed by: 585, 795, 53, 1440    Weight: 1.0913g    Extraction date: 11/21/22 12:56:13    Extracted by: 585					
TOTAL YEAST AND MOLD	10	CFU/g	<10	PASS	100000	Analysis Method : SOP.T.30.101.FL (Gainesville), SOP.T.40.101.FL (Gainesville), SOP.T.30.102.FL (Davie), SOP.T.40.102.FL (Davie) Analytical Batch : DA052666MYC    Reviewed On : 11/21/22 14:16:36 Instrument Used : DA-LCMS-004 (MYC)    Batch Date : 11/20/22 18:54:33 Running on : 11/21/22 12:59:19					
Analyzed by: 3621, 3336, 3390, 53, 1440    Weight: 0.8678g    Extraction date: 11/19/22 15:12:35    Extracted by: 3336,2682 Analysis Method : SOP.T.40.056B, SOP.T.40.056C, SOP.T.40.058.FL, SOP.T.40.209.FL Analytical Batch : DA052634MIC    Reviewed On : 11/21/22 16:33:45 Instrument Used : DA-265 Gene-UP RTPCR    Batch Date : 11/19/22 09:14:59 Running on : 11/19/22 13:19:59 Dilution : N/A Reagent : 100122.R04; 091422.05; 061422.29 Consumables : 500124 Pipette : N/A						Mycotoxins testing utilizing Liquid Chromatography with Triple-Quadrupole Mass Spectrometry in accordance with F.S. Rule 64ER20-39.					
Analyzed by: 3621, 3390, 585, 1440    Weight: 0.8678g    Extraction date: 11/19/22 15:01:54    Extracted by: 3336,2682 Analysis Method : SOP.T.40.208 (Gainesville), SOP.T.40.209.FL Analytical Batch : DA052640TYM    Reviewed On : 11/21/22 14:01:09 Instrument Used : Incubator (25-27C) DA-097    Batch Date : 11/19/22 11:13:19 Running on : 11/19/22 13:59:45 Dilution : 10 Reagent : 091422.13 Consumables : 004103 Pipette : N/A						 <b>Heavy Metals</b> <b>PASSED</b>					
Metal	LOD	Units	Result	Pass / Fail	Action Level						
TOTAL CONTAMINANT LOAD METALS	0.11	ppm	ND	PASS	5						
ARSENIC	0.02	ppm	ND	PASS	1.5						
CADMIUM	0.02	ppm	ND	PASS	0.5						
LEAD	0.05	ppm	ND	PASS	0.5						
MERCURY	0.02	ppm	ND	PASS	3						
Analyzed by: 1022, 53, 1440    Weight: 0.445g    Extraction date: 11/21/22 09:26:08    Extracted by: 1022,3619 Analysis Method : SOP.T.30.082.FL, SOP.T.40.082.FL Analytical Batch : DA052670HEA    Reviewed On : 11/22/22 08:26:33 Instrument Used : DA-ICPMS-003    Batch Date : 11/20/22 19:47:56 Running on : 11/21/22 14:02:31 Dilution : 50 Reagent : 102122.R23; 080222.R36; 111822.R22; 111122.R30; 111822.R20; 111822.R21; 101722.R39; 111522.R25 Consumables : 179436; 210508058; 210803-059 Pipette : DA-061; DA-106; DA-216						Heavy Metals analysis is performed using Inductively Coupled Plasma Mass Spectrometry in accordance with F.S. Rule 64ER20-39.					



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**Filth/Foreign Material**
**PASSED**
**Homogeneity**
**PASSED**

Amount of tests conducted : 14

Analyte	LOD	Units	Result	P/F	Action Level
Filth and Foreign Material	0.5	%	ND	PASS	1

Analyzed by:	Weight:	Extraction date:	Extracted by:
1879, 1440	NA	N/A	N/A

Analysis Method : SOP.T.40.090	Reviewed On : 11/21/22 21:14:32 Batch Date : 11/19/22 12:15:13
Analytical Batch : DA052650FIL	
Instrument Used : Filth/Foreign Material Microscope Running on : 11/21/22 17:58:27	

 Dilution : N/A  
 Reagent : N/A  
 Consumables : N/A  
 Pipette : N/A

Filth and foreign material inspection is performed by visual inspection utilizing naked eye and microscope technologies in accordance with F.S. Rule 64ER20-39.


**Water Activity**
**PASSED**

Analyte	LOD	Units	Result	P/F	Action Level
Water Activity	0.1	aw	0.483	PASS	0.85

Analyzed by:	Weight:	Extraction date:	Extracted by:
1879, 2926, 1440	4.5654g	11/22/22 09:06:09	1879

Analysis Method : SOP.T.40.019	Reviewed On : 11/22/22 10:55:58 Batch Date : 11/19/22 12:14:48
Analytical Batch : DA052647WAT	
Instrument Used : DA-028 Rotronic HygroPalm Running on : 11/22/22 09:00:42	

 Dilution : N/A  
 Reagent : 121421.21  
 Consumables : PS-14  
 Pipette : N/A

Water Activity is performed using a Rotronic HygroPalm HP 23-AW in accordance with F.S. Rule 64ER20-39.

Analyte	LOD	Units	Pass/Fail	Result	Action Level
TOTAL THC - HOMOGENEITY (RSD)	0.001	%	PASS	2.419	25

Analyzed by	Average Weight	Extraction date :	Extracted By :
3605, 3335, 1665, 1440	4.197g	11/19/22 10:50:09	3605

Analysis Method : SOP.T.30.111.FL, SOP.T.40.111.FL	Reviewed On : 11/23/22 09:32:20 Batch Date : 11/19/22 08:16:33
Analytical Batch : DA052626HOM	
Instrument Used : DA-LC-005 Running on : 11/19/22 10:50:31	

 Dilution : 40  
 Reagent : 111622.R51; 071222.01; 111622.R47  
 Consumables : 239146; CE123; 210803-059; 61633-125C6-125E; R1KB45277  
 Pipette : N/A

Homogeneity testing is performed utilizing High Performance Liquid Chromatography with UV detection in accordance with F.S. Rule 64ER20-39.