



Certificate of Analysis

COMPLIANCE FOR RETAIL

Sample: DA30422002-014

Harvest/Lot ID: 1266 6767 2114 3393

Batch#: 2460 3651 3378 4521

Cultivation Facility: Apopka

Processing Facility: Apopka

Source Facility: Apopka

Seed to Sale#: 4327 6714 0605 5160

Batch Date: 04/19/23

Sample Size Received: 294 gram

Total Amount: 1194 units

Retail Product Size: 41.5547 gram

Ordered: 04/21/23

Sampled: 04/21/23

Completed: 04/27/23

Sampling Method: SOP.T.20.010

PASSED

Apr 27, 2023 | Sanctuary Medicinals

251 East Keene Rd
Apopka, FL, 32703, US


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PRODUCT IMAGE



SAFETY RESULTS


Pesticides
PASSED

Heavy Metals
PASSED

Microbials
PASSED

Mycotoxins
PASSED

Residuals Solvents
PASSED

Filtration
PASSED

Water Activity
PASSED

Moisture
NOT TESTED

Terpenes
NOT TESTED

MISC.



Cannabinoid

PASSED


Total THC

0.218%

Total THC/Container : 90.589 mg



Total CBD

0.002%

Total CBD/Container : 0.831 mg



Total Cannabinoids

0.228%

Total Cannabinoids/Container : 94.745 mg

	D9-THC	THCA	CBD	CBDA	D8-THC	CBG	CBGA	CBN	THCV	CBDV	CBC
%	0.218	ND	0.002	ND	ND	0.003	ND	0.002	ND	ND	0.003
mg/unit	90.589	ND	0.831	ND	ND	1.246	ND	0.831	ND	ND	1.246
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, 585, 1440

Weight:
2.8268g

Extraction date:
04/24/23 10:33:04

Extracted by:
1665

Analysis Method : SOP.T.40.031, SOP.T.30.031

Analytical Batch : DA059195POT

Instrument Used : DA-LC-007

Analyzed Date : 04/24/23 10:36:33

Reviewed On : 04/25/23 09:44:03
Batch Date : 04/23/23 22:27:38

Dilution : 40

Reagent : 040323.01; 041923.R09; 030322.03; 030823.03; 041923.R04

Consumables : 280670723; CE0123; 61633-125C6-125E; 0000185478

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.

Jorge Segredo
Lab Director

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

Signature
04/27/23

Revision: #1 - Clerical error.

Revision: #1

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



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 Email: nsatmary@sanctuarymed.com

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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	PROPICONAZOLE	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	3379, 585, 1440	0.9891g	04/24/23 14:11:59	450,585		
DIMETHOATE	0.01	ppm	0.1	PASS	ND	Analysis Method : SOP.T.30.101.FL (Gainesville), SOP.T.30.102.FL (Davie), SOP.T.40.101.FL (Gainesville),					
ETHOPROPHOS	0.01	ppm	0.1	PASS	ND	SOP.T.40.102.FL (Davie)					
ETOFENPROX	0.01	ppm	0.1	PASS	ND	Analytical Batch : DA059202PES			Reviewed On : 04/25/23 09:49:02		
ETOXAZOLE	0.01	ppm	1.5	PASS	ND	Instrument Used : DA-LCMS-003 (PES)			Batch Date : 04/24/23 08:55:01		
FENHEXAMID	0.01	ppm	3	PASS	ND	Analyzed Date : 04/24/23 13:25:40					
FENOXYCARB	0.01	ppm	0.1	PASS	ND	Dilution : 250					
FENPYROXIMATE	0.01	ppm	2	PASS	ND	Reagent : 041723.R01; 042123.R02; 041823.R35; 041423.R01; 041123.R05; 041923.R01; 040521.11					
FIPRONIL	0.01	ppm	0.1	PASS	ND	Consumables : 6697075-02					
FLONICAMID	0.01	ppm	2	PASS	ND	Pipette : DA-093; DA-094; DA-219					
FLUDIOXONIL	0.01	ppm	3	PASS	ND	Testing for agricultural agents is performed utilizing Liquid Chromatography Triple-Quadrupole Mass Spectrometry in accordance with F.S. Rule 64ER20-39.					
HEXYTHIAZOX	0.01	ppm	2	PASS	ND	Analyzed by:	Weight:	Extraction date:	Extracted by:		
IMAZALIL	0.01	ppm	0.1	PASS	ND	450, 585, 1440	0.9891g	04/24/23 14:11:59	450,585		
IMIDACLOPRID	0.01	ppm	1	PASS	ND	Analysis Method : SOP.T.30.151.FL (Gainesville), SOP.T.30.151A.FL (Davie), SOP.T.40.151.FL					
KRESOXIM-METHYL	0.01	ppm	1	PASS	ND	Analytical Batch : DA059204VOL			Reviewed On : 04/25/23 10:42:10		
MALATHION	0.01	ppm	2	PASS	ND	Instrument Used : DA-GCMS-006			Batch Date : 04/24/23 08:59:11		
METALAXYL	0.01	ppm	3	PASS	ND	Analyzed Date : 04/24/23 14:31:52					
METHIOCARB	0.01	ppm	0.1	PASS	ND	Dilution : 250					
METHOMYL	0.01	ppm	0.1	PASS	ND	Reagent : 041823.R35; 040521.11; 040723.R43; 040723.R44					
MEVINPHOS	0.01	ppm	0.1	PASS	ND	Consumables : 6697075-02; 14725401					
MYCLOBUTANIL	0.01	ppm	3	PASS	ND	Pipette : DA-080; DA-146; DA-218					
NALED	0.01	ppm	0.5	PASS	ND	Testing for agricultural agents is performed utilizing Gas Chromatography Triple-Quadrupole Mass Spectrometry in accordance with F.S. Rule 64ER20-39.					



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Harvest/Lot ID: 1266 6767 2114 3393

 Batch# : 2460 3651 3378
 4521

Sampled : 04/21/23

Ordered : 04/21/23

Sample Size Received : 294 gram

Total Amount : 1194 units

Completed : 04/27/23 Expires: 04/27/24

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, 585, 1440

 Weight:
 0.0239g

 Extraction date:
 04/22/23 13:45:16

 Extracted by:
 850,585

 Analysis Method : SOP.T.40.041.FL
 Analytical Batch : DA059169SOL
 Instrument Used : DA-GCMS-002
 Analyzed Date : 04/25/23 13:37:04

 Reviewed On : 04/25/23 14:17:07
 Batch Date : 04/22/23 13:36:30

 Dilution : 1
 Reagent : 030420.09
 Consumables : R2017.167; G201.167
 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.



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4521

Sampled : 04/21/23
Ordered : 04/21/23



Sample Size Received : 294 gram


Total Amount : 1194 units

Completed : 04/27/23 Expires: 04/27/24

Sample Method : SOP.T.20.010

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<div></div> <div>Microbial</div> <div>PASSED</div>						<div></div> <div>Mycotoxins</div> <div>PASSED</div>					
Analyte	LOD	Units	Result	Pass / Fail	Action Level	Analyte	LOD	Units	Result	Pass / Fail	Action Level
ASPERGILLUS TERREUS			Not Present	PASS		AFLATOXIN B2	0.002	ppm	ND	PASS	0.02
ASPERGILLUS NIGER			Not Present	PASS		AFLATOXIN B1	0.002	ppm	ND	PASS	0.02
ASPERGILLUS FUMIGATUS			Not Present	PASS		OCHRATOXIN A	0.002	ppm	ND	PASS	0.02
ASPERGILLUS FLAVUS			Not Present	PASS		AFLATOXIN G1	0.002	ppm	ND	PASS	0.02
SALMONELLA SPECIFIC GENE			Not Present	PASS		AFLATOXIN G2	0.002	ppm	ND	PASS	0.02
ECOLI SHIGELLA			Not Present	PASS							
TOTAL YEAST AND MOLD	10	CFU/g	<10	PASS	100000						
Analyzed by: 3336, 585, 1440	Weight: 0.8215g	Extraction date: 04/22/23 11:42:49		Extracted by: 3621,3336		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)					
Analysis Method : SOP.T.40.056C, SOP.T.40.058.FL, SOP.T.40.209.FL				Reviewed On : 04/25/23 10:10:56		Analytical Batch : DA059203MYC		Reviewed On : 04/25/23 09:50:18			
Analytical Batch : DA059160MIC				Batch Date : 04/22/23 09:28:42		Instrument Used : N/A		Batch Date : 04/24/23 08:59:07			
Instrument Used : PathogenDx Scanner DA-111,Applied Biosystems Thermocycler DA-013,fisherbrand Isotemp Heat Block DA-020,fisherbrand Isotemp Heat Block DA-049,Fisher Scientific Isotemp Heat Block DA-021,ThermoScientific Sorvall Legend Micro 21 Centrifuge DA-018						Dilution : 250					
Analyzed Date : 04/22/23 16:36:29						Reagent : 041723.R01; 042123.R02; 041823.R35; 041423.R01; 041123.R05; 041923.R01; 040521.11					
Dilution : N/A						Consumables : 6697075-02					
Reagent : 011323.32; 041123.R27; 092122.09						Pipette : DA-093; DA-094; DA-219					
Consumables : 7559002048						Mycotoxins testing utilizing Liquid Chromatography with Triple-Quadrupole Mass Spectrometry in accordance with F.S. Rule 64ER20-39.					
Pipette : N/A											
Analyzed by: 3621, 3336, 585, 1440	Weight: 0.8215g	Extraction date: 04/22/23 11:42:49		Extracted by: 3621,3336		Analysis Method : SOP.T.40.208 (Gainesville), SOP.T.40.209.FL					
Analysis Method : SOP.T.40.208 (Gainesville), SOP.T.40.209.FL				Reviewed On : 04/24/23 11:46:33		Analytical Batch : DA059165TYM					
Analytical Batch : DA059165TYM				Batch Date : 04/22/23 11:43:01		Instrument Used : Incubator (25-27C) DA-096					
Analyzed Date : 04/22/23 12:06:46						Dilution : 10					
Dilution : 10						Reagent : 011323.32; 032323.R29					
Reagent : 011323.32; 032323.R29						Consumables : 007109					
Consumables : 007109						Pipette : DA-212					
Pipette : DA-212						Total yeast and mold testing is performed utilizing MPN and traditional culture based techniques in accordance with F.S. Rule 64ER20-39.					
Total yeast and mold testing is performed utilizing MPN and traditional culture based techniques in accordance with F.S. Rule 64ER20-39.											

<div></div> <div>Heavy Metals</div> <div>PASSED</div>					
Metal	LOD	Units	Result	Pass / Fail	Action Level
TOTAL CONTAMINANT LOAD METALS	0.08	ppm	ND	PASS	5
ARSENIC	0.02	ppm	ND	PASS	1.5
CADMIUM	0.02	ppm	ND	PASS	0.5
MERCURY	0.02	ppm	ND	PASS	3
LEAD	0.02	ppm	ND	PASS	0.5
Analyzed by: 1022, 585, 1440	Weight: 0.2179g	Extraction date: 04/24/23 08:32:58		Extracted by: 3619	
Analysis Method : SOP.T.30.082.FL, SOP.T.40.082.FL					
Analytical Batch : DA059189HEA			Reviewed On : 04/25/23 09:41:30		
Instrument Used : DA-ICPMS-003			Batch Date : 04/23/23 19:30:47		
Analyzed Date : 04/24/23 13:48:19					
Dilution : 50					
Reagent : 040623.R23; 031423.R18; 041723.R30; 041123.R28; 040323.R21; 020123.02; 042423.R03; 042423.R01; 042423.R02					
Consumables : 179436; 210508058; 12620-307CD-307D					
Pipette : DA-061; DA-191; 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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Sample Method : SOP.T.20.010

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Filth/Foreign Material
PASSED
Homogeneity
PASSED

Amount of tests conducted : 12

Analyte	LOD	Units	Result	P/F	Action Level
Filth and Foreign Material	0.1	%	ND	PASS	1

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

Analysis Method : SOP.T.40.090

Analytical Batch : DA059186FIL

Instrument Used : Filth/Foreign Material Microscope

Analyzed Date : 04/23/23 16:06:18

Reviewed On : 04/23/23 16:10:26

Batch Date : 04/23/23 16:04:45

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	0.01	aw	0.618	PASS	0.85

Analyzed by:	Weight:	Extraction date:	Extracted by:
2926, 585, 1440	7.249g	04/22/23 13:28:23	2926

Analysis Method : SOP.T.40.019

Analytical Batch : DA059125WAT

Instrument Used : DA-028 Rotronic HygroPalm

Analyzed Date : 04/21/23 15:44:34

Reviewed On : 04/22/23 17:38:55

Batch Date : 04/21/23 12:04:51

Dilution : N/A

Reagent : 100522.09

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	0.624	25

Analyzed by	Average Weight	Extraction date :	Extracted By :
3963, 3335, 585, 1440	4.199g	04/22/23 11:03:04	3963

Analysis Method : SOP.T.30.111.FL, SOP.T.40.111.FL

Analytical Batch : DA059154HOM

Instrument Used : DA-LC-005

Analyzed Date : 04/22/23 12:44:52

Reviewed On : 04/24/23 11:46:31

Batch Date : 04/22/23 09:05:42

Dilution : 40

Reagent : 040323.01; 033123.R03; 071222.35; 041923.R04

Consumables : 947.109; 250346; CE0123; 115C4-1151; 12620-307CD-307D;

61633-125C6-125E; R1KB14270

Pipette : DA-079; DA-108; DA-078

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