



Certificate of Analysis

COMPLIANCE FOR RETAIL

Sample:GA30515002-007
Harvest/Lot ID: SOFS104-2305-20733

Batch#: PT10-11-HH-010523

Cultivation Facility: Gainesville Cultivation
Processing Facility : Gainesville Processing

Source Facility : Gainesville Cultivation

Seed to Sale# SOFS104-2305-20733

Batch Date: 05/10/23

Sample Size Received: 16 gram

Total Amount: 2089 units

Retail Product Size: 1 gram

Ordered: 05/15/23

Sampled: 05/15/23

Completed: 05/18/23

Sampling Method: SOP.T.20.010

May 18, 2023 | Liberty Health Sciences,
FL

18770 N CR 225
Gainesville, FL, 32609, US



PASSED

Pages 1 of 6

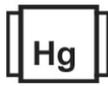
PRODUCT IMAGE



SAFETY RESULTS



Pesticides
PASSED



Heavy Metals
PASSED



Microbials
PASSED



Mycotoxins
PASSED



Residuals Solvents
PASSED



FiltH
PASSED



Water Activity
PASSED



Moisture
NOT TESTED



Terpenes
TESTED

MISC.



Cannabinoid

PASSED



Total THC
81.78%

Total THC/Container : 817.8 mg



Total CBD
0.211%

Total CBD/Container : 2.11 mg



Total Cannabinoids
86.094%

Total Cannabinoids/Container : 860.94 mg

	D9-THC	THCA	CBD	CBDA	D8-THC	CBG	CBGA	CBN	THCV	CBDV	CBC
%	81.78	ND	0.211	ND	ND	2.975	ND	0.67	0.458	ND	ND
mg/unit	817.8	ND	2.11	ND	ND	29.75	ND	6.7	4.58	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:
3192, 2507, 3303

Weight:
0.1024g

Extraction date:
05/16/23 12:44:37

Extracted by:
3571

Analysis Method : SOP.T.40.031, SOP.T.30.031
Analytical Batch : GA060217POT
Instrument Used : GA-HPLC-003 2030C PDA (Derivative)
Analyzed Date : 05/16/23 16:31:32

Reviewed On : 05/17/23 17:05:21
Batch Date : 05/15/23 13:06:51

Dilution : 400
Reagent : 030323.R43; 010421.44; 030823.04; 041423.R20; 050423.R29
Consumables : 927.100; 9291.100; 12532-225CD-225C; GA-169; 21/05/14; LLS-00-0005; R0NB32898; 46610-762A; 944C4 944J; 209598; 206639
Pipette : GA-002; GA-003; GA-004; GA-013

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

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Miranda MacDonald
Lab Director



State License # CMTL-0001
ISO 17025 Accreditation # ISO/IEC
17025:2017 Accreditation P/LA-
Testing 97164

Signature
05/18/23



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Terpenes				TESTED			
Terpenes	LOD (%)	mg/unit %	Result (%)	Terpenes	LOD (%)	mg/unit %	Result (%)
TOTAL TERPENES	0.007	36.16	3.616	FARNESENE	0.001	ND	ND
TOTAL TERPINEOL	0.007	0.74	0.074	ALPHA-HUMULENE	0.007	2.07	0.207
ALPHA-BISABOLOL	0.007	<1	<0.1	VALENCENE	0.007	ND	ND
ALPHA-PINENE	0.007	2.2	0.22	CIS-NEROLIDOL	0.007	ND	ND
CAMPHENE	0.007	ND	ND	TRANS-NEROLIDOL	0.007	<1	<0.1
SABINENE	0.007	ND	ND	CARYOPHYLLENE OXIDE	0.007	<1	<0.1
BETA-PINENE	0.007	1.35	0.135	GUAIOL	0.007	ND	ND
BETA-MYRCENE	0.007	5.84	0.584	CEDROL	0.007	ND	ND
ALPHA-PHELLANDRENE	0.007	<1	<0.1	Analyzed by: 3317, 2155, 3303, 3192 Weight: 0.928g Extraction date: 05/15/23 15:04:03 Extracted by: 3571 Analysis Method : SOP.T.30.061A.FL, SOP.T.40.061A.FL Analytical Batch : GA060220TER Instrument Used : GA-GCMS-005 QP2020NX (Derivative) Reviewed On : 05/17/23 17:02:36 Analyzed Date : 05/15/23 17:29:42 Batch Date : 05/15/23 13:09:10 Dilution : 50 Reagent : 021123.R06; 032223.04; 010421.44 Consumables : 927.100; 9291.100; 21/05/14; LLS-00-0005; 210419634; RON832898; 000000146137; 6211125; 944C4 944; 209598; 206639 Pipette : GA-002; GA-003; GA-004; GA-013 *Terpenoid testing is performed utilizing Gas Chromatography Mass Spectrometry. For all Flower samples, the Total Terpenes % is dry-weight corrected.			
3-CARENE	0.007	ND	ND				
ALPHA-TERPINENE	0.007	ND	ND				
LIMONENE	0.007	9.08	0.908				
EUCALYPTOL	0.007	ND	ND				
OCIMENE	0.007	ND	ND				
GAMMA-TERPINENE	0.007	ND	ND				
SABINENE HYDRATE	0.007	ND	ND				
TERPINOLENE	0.007	ND	ND				
FENCHONE	0.007	ND	ND				
LINALOOL	0.007	4.26	0.426				
FENCHYL ALCOHOL	0.007	<1	<0.1				
ISOPULEGOL	0.007	ND	ND				
CAMPHOR	0.013	ND	ND				
ISOBORNEOL	0.007	ND	ND				
BORNEOL	0.013	ND	ND				
HEXAHYDROTHYMOL	0.007	ND	ND				
NEROL	0.007	ND	ND				
PULEGONE	0.007	ND	ND				
GERANIOL	0.007	<1	<0.1				
GERANYL ACETATE	0.007	ND	ND				
ALPHA-CEDRENE	0.007	ND	ND				
BETA-CARYOPHYLLENE	0.007	10.62	1.062				
Total (%)			3.616				

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Miranda MacDonald
Lab Director

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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)											
TOTAL DIMETHOMORPH	0.01	ppm	30	PASS	ND	OXAMYL	0.01	ppm	0.5	PASS	ND
TOTAL PERMETHRIN	0.01	ppm	1	PASS	ND	PACLOBUTRAZOL	0.01	ppm	0.1	PASS	ND
TOTAL PYRETHRINS	0.01	ppm	1	PASS	ND	PHOSMET	0.01	ppm	0.2	PASS	ND
TOTAL SPINETORAM	0.01	ppm	3	PASS	ND	PIPERONYL BUTOXIDE	0.01	ppm	3	PASS	ND
TOTAL SPINOSAD	0.01	ppm	3	PASS	ND	PRALLETHRIN	0.01	ppm	0.4	PASS	ND
ABAMECTIN B1A	0.01	ppm	0.3	PASS	ND	PROPICONAZOLE	0.01	ppm	1	PASS	ND
ACEPHATE	0.01	ppm	3	PASS	ND	PROPOXUR	0.01	ppm	0.1	PASS	ND
ACEQUINOCYL	0.01	ppm	2	PASS	ND	PYRIDABEN	0.01	ppm	3	PASS	ND
ACETAMIPRID	0.01	ppm	3	PASS	ND	SPIROMESIFEN	0.01	ppm	3	PASS	ND
ALDICARB	0.01	ppm	0.1	PASS	ND	SPIROTETRAMAT	0.01	ppm	3	PASS	ND
AZOXYSTROBIN	0.01	ppm	3	PASS	ND	SPIROXAMINE	0.01	ppm	0.1	PASS	ND
BIFENAZATE	0.01	ppm	3	PASS	ND	TEBUCONAZOLE	0.01	ppm	1	PASS	ND
BIFENTHRIN	0.01	ppm	0.5	PASS	ND	THIACLOPRID	0.01	ppm	0.1	PASS	ND
BOSCALID	0.01	ppm	3	PASS	ND	THIAMETHOXAM	0.01	ppm	1	PASS	ND
CARBARYL	0.01	ppm	0.5	PASS	ND	TRIFLOXYSTROBIN	0.01	ppm	3	PASS	ND
CARBOFURAN	0.01	ppm	0.1	PASS	ND	PENTACHLORONITROBENZENE (PCNB) *	0.01	PPM	0.2	PASS	ND
CHLORANTRANILIPROLE	0.01	ppm	3	PASS	ND	PARATHION-METHYL *	0.01	PPM	0.1	PASS	ND
CHLORMEQUAT CHLORIDE	0.01	ppm	3	PASS	ND	CAPTAN *	0.07	PPM	3	PASS	ND
CHLORPYRIFOS	0.01	ppm	0.1	PASS	ND	CHLORDANE *	0.01	PPM	0.1	PASS	ND
CLOFENTEZINE	0.01	ppm	0.5	PASS	ND	CHLORFENAPYR *	0.01	PPM	0.1	PASS	ND
COUMAPHOS	0.01	ppm	0.1	PASS	ND	CYFLUTHRIN *	0.05	PPM	1	PASS	ND
DAMINOZIDE	0.01	ppm	0.1	PASS	ND	CYPERMETHRIN *	0.05	PPM	1	PASS	ND
DIAZINON	0.01	ppm	3	PASS	ND						
DICHLORVOS	0.01	ppm	0.1	PASS	ND						
DIMETHOATE	0.01	ppm	0.1	PASS	ND	Analyzed by: 795, 3303, 3192	Weight: 0.245g	Extraction date: 05/17/23 15:39:03	Extracted by: 795		
ETHOPROPHOS	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), SOP.T.40.102.FL (Davie)					
ETOFENPROX	0.01	ppm	0.1	PASS	ND	Analytical Batch : DA060277PES			Reviewed On : 05/17/23 16:23:14		
ETOXAZOLE	0.01	ppm	1.5	PASS	ND	Instrument Used : DA-LCMS-003 (PES)			Batch Date : 05/16/23 21:41:20		
FENHEXAMID	0.01	ppm	3	PASS	ND	Analyzed Date : N/A					
FENOXYCARB	0.01	ppm	0.1	PASS	ND	Dilution : 250					
FENPYROXIMATE	0.01	ppm	2	PASS	ND	Reagent : 051523.R02; 051023.R47; 042623.R45; 051723.R01; 040521.11					
FIPRONIL	0.01	ppm	0.1	PASS	ND	Consumables : 6698360-03					
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: 3317, 2155, 2507, 3192	Weight: 0.9688g	Extraction date: 05/15/23 16:48:28	Extracted by: 3571		
IMAZALIL	0.01	ppm	0.1	PASS	ND	Analysis Method : SOP.T.30.151.FL (Gainesville), SOP.T.30.151A.FL (Davie), SOP.T.40.151.FL					
IMIDACLOPRID	0.01	ppm	1	PASS	ND	Analytical Batch : GA060221VOL			Reviewed On : 05/17/23 17:00:24		
KRESOXIM-METHYL	0.01	ppm	1	PASS	ND	Instrument Used : GA-GCMS-006			Batch Date : 05/15/23 13:09:48		
MALATHION	0.01	ppm	2	PASS	ND	Analyzed Date : 05/16/23 09:17:08					
METALAXYL	0.01	ppm	3	PASS	ND	Dilution : 50					
METHIOCARB	0.01	ppm	0.1	PASS	ND	Reagent : 051123.R18; 040623.R32; 011122.06					
METHOMYL	0.01	ppm	0.1	PASS	ND	Consumables : 927.100; 9291.100; GA-210; H20364; LLS-00-0005; 89012-780; 296055173; 55447-U.15143701; 944C4 944; 209598; 206639					
MEVINPHOS	0.01	ppm	0.1	PASS	ND	Pipette : GA-002; GA-004; GA-013					
MYCLOBUTANIL	0.01	ppm	3	PASS	ND	Testing for agricultural agents is performed utilizing Gas Chromatography Triple-Quadrupole Mass Spectrometry in accordance with F.S. Rule 64ER20-39.					
NALED	0.01	ppm	0.5	PASS	ND						

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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		TESTED	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: 2155, 3303, 3192	Weight: 0.0274g	Extraction date: 05/16/23 10:26:41	Extracted by: 3317,2155
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Analysis Method : SOP.T.40.041.FL	Reviewed On : 05/17/23 16:56:24
Analytical Batch : GA06021650L	Batch Date : 05/15/23 12:51:52
Instrument Used : GA-GCMS-001 Headspace Solvent	
Analyzed Date : 05/16/23 10:33:45	

Dilution : N/A
 Reagent : 010421.47
 Consumables : R2017.167; G201.167
 Pipette : GA-253

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



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	Microbial	PASSED		Mycotoxins	PASSED
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Analyte	LOD	Units	Result	Pass / Fail	Action Level
ECOLI SHIGELLA			Not Present	PASS	
SALMONELLA SPECIFIC GENE			Not Present	PASS	
ASPERGILLUS FLAVUS			Not Present	PASS	
ASPERGILLUS FUMIGATUS			Not Present	PASS	
ASPERGILLUS TERREUS			Not Present	PASS	
ASPERGILLUS NIGER			Not Present	PASS	
TOTAL YEAST AND MOLD	10	CFU/g	<10	PASS	100000

Analyzed by: 3793, 3721, 3303, 3192 **Weight:** 0.9744g **Extraction date:** 05/15/23 17:00:52 **Extracted by:** 3793
Analysis Method : SOP.T.40.056C, SOP.T.40.058.FL, SOP.T.40.209.FL
Analytical Batch : GA060212MIC **Reviewed On :** 05/18/23 09:21:05
Instrument Used : GA-200 Bacterial / GA-102 Fungal Incubators **Batch Date :** 05/15/23 11:02:31
Analyzed Date : 05/15/23 16:58:40
Dilution : 10
Reagent : 092022.51
Consumables : GA-186; 010205; 013209; 007109; P-21557211R
Pipette : GA-154

Analyte	LOD	Units	Result	Pass / Fail	Action Level
AFLATOXIN B2	0.002	ppm	ND	PASS	0.02
AFLATOXIN B1	0.002	ppm	ND	PASS	0.02
OCHRATOXIN A	0.002	ppm	ND	PASS	0.02
AFLATOXIN G1	0.002	ppm	ND	PASS	0.02
AFLATOXIN G2	0.002	ppm	ND	PASS	0.02

Analyzed by: 795, 3303, 3192 **Weight:** 0.245g **Extraction date:** 05/17/23 15:39:03 **Extracted by:** 795
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 : DA060278MYC **Reviewed On :** 05/17/23 16:21:17
Instrument Used : DA-LCMS-004 (MYC) **Batch Date :** 05/16/23 21:43:06
Analyzed Date : N/A
Dilution : 250
Reagent : 051523.R02; 051023.R47; 042623.R45; 051723.R01; 040521.11
Consumables : 6698360-03
Pipette : DA-093; DA-094; DA-219

Mycotoxins testing utilizing Liquid Chromatography with Triple-Quadrupole Mass Spectrometry in accordance with F.S. Rule 64ER20-39.

Analyte	LOD	Units	Result	Pass / Fail	Action Level
TOTAL YEAST AND MOLD	10	CFU/g	<10	PASS	100000

Analyzed by: 3793, 3721, 3303, 3192 **Weight:** 0.9744g **Extraction date:** 05/15/23 17:00:52 **Extracted by:** 3793
Analysis Method : SOP.T.40.208 (Gainesville), SOP.T.40.209.FL
Analytical Batch : GA060213TYM **Reviewed On :** 05/18/23 09:22:04
Instrument Used : GA-102 Fungal Incubator (TYM) **Batch Date :** 05/15/23 11:02:47
Analyzed Date : 05/15/23 16:58:45
Dilution : 10
Reagent : 092022.51
Consumables : GA-186; 007109; P-21557211R
Pipette : GA-154

Total yeast and mold testing is performed utilizing MPN and traditional culture based techniques in accordance with F.S. Rule 64ER20-39.

Analyte	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: 2507, 3303, 3192 **Weight:** 0.2386g **Extraction date:** 05/16/23 16:27:00 **Extracted by:** 3571,3317
Analysis Method : SOP.T.30.082.FL, SOP.T.40.082.FL
Analytical Batch : GA060223HEA **Reviewed On :** 05/17/23 16:26:46
Instrument Used : GA-ICPMS-002 **Batch Date :** 05/15/23 13:11:18
Analyzed Date : 05/17/23 09:31:02
Dilution : 50
Reagent : 042723.R27; 050623.R01; 010421.44; 071522.04; 011523.R02; 050623.R02; 110122.R06; 011523.R04
Consumables : GA-194; GA-195; 209598; 12532-225CD-225C
Pipette : GA-012

Heavy Metals analysis is performed using Inductively Coupled Plasma Mass Spectrometry in accordance with F.S. Rule 64ER20-39.

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Type: Products for oral administration (pills, capsules, tinctures, and similar

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Filth/Foreign Material PASSED

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

Analyzed by: 3192, 3571 Weight: 13.89g Extraction date: 05/15/23 12:29:00 Extracted by: 3192

Analysis Method : SOP.T.40.090
Analytical Batch : GA060214FIL Reviewed On : 05/15/23 19:35:10
Instrument Used : GA-Filth/Foreign Material Microscope Batch Date : 05/15/23 12:06:54
Analyzed Date : N/A

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	0.628	TESTED	

Analyzed by: 3571, 2507, 3192 Weight: 0.8236g Extraction date: 05/15/23 18:39:34 Extracted by: 3571

Analysis Method : SOP.T.40.019
Analytical Batch : GA060222WAT Reviewed On : 05/17/23 17:06:02
Instrument Used : GA-085 Rotronic HygroPalm Batch Date : 05/15/23 13:10:38
Analyzed Date : N/A

Dilution : N/A
Reagent : N/A
Consumables : 107264
Pipette : N/A

Water Activity is performed using a Rotronic HygroPalm HP 23-AW 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.

Miranda MacDonald
Lab Director

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Testing 97164

Signature
05/18/23