



Certificate of Analysis

Sample: GA20719001-016
Harvest/Lot ID: SOFS104-2207-11901

Batch#: DF-MIFR-2207-11791

Cultivation Facility: Gainesville Cultivation

Processing Facility : Gainesville Processing

Seed to Sale# SOFS104-2207-11901

Batch Date: 07/12/22

Sample Size Received: 16 gram

Total Batch Size: 1870 units

Retail Product Size: 1 gram

Ordered : 07/19/22

Sampled : 07/19/22

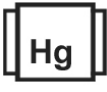
Completed: 07/22/22

Sampling Method: SOP.T.20.010

PASSED


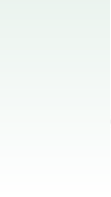
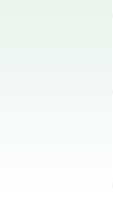








Page 1 of 6

Jul 22, 2022 | Liberty Health Sciences, FL
18770 N CR 225
Gainesville, FL, 32609, US


PRODUCT IMAGE	SAFETY RESULTS								MISC.
	 Pesticides PASSED	 Heavy Metals PASSED	 Microbials PASSED	 Mycotoxins PASSED	 Residuals Solvents PASSED	 Filtration PASSED	 Water Activity PASSED	 Moisture NOT TESTED	 Terpenes TESTED

	Cannabinoid	PASSED
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	Total THC 83.756% Total THC/Container : 837.56 mg		Total CBD 0.209% Total CBD/Container : 2.09 mg		Total Cannabinoids 87.118% Total Cannabinoids/Container : 871.18 mg
--	---	---	--	---	---

										
D9-THC	THCA	CBD	CBDA	D8-THC	CBG	CBGA	CBN	THCV	CBDV	CBC
% 83.756	ND	0.209	ND	ND	2.005	ND	0.334	0.47	ND	0.344
mg/unit 837.56	ND	2.09	ND	ND	20.05	ND	3.34	4.7	ND	3.44
LOD 0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.001
%	%	%	%	%	%	%	%	%	%	%

Analyzed by:
3404, 3192, 2507, 1541

Weight:
0.097g

Extraction date:
07/20/22 09:25:41

Extracted by:
3192

Analysis Method : SOP.T.40.031, SOP.T.30.031
Analytical Batch : GA047038POT
Instrument Used : GA-HPLC-001 2030C Plus
Running on : N/A

Reviewed On : 07/21/22 10:59:27
Batch Date : 07/18/22 17:12:56

Dilution : 400
Reagent : 020322.R09; 010421.48; 060922.09; 070222.R02; 070222.R08
Consumables : 947.109; H20364; 9291.271; LLS-00-0005; 12455-202CD-202C; R0NB32898; 000000146137; 944C4 944J; 210268; 212516
Pipette : GA-005; GA-146; GA-151; GA-150; GA-169 (Dispenser)

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



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18770 N CR 225

Gainesville, FL, 32609, US

Telephone: (833) 254-4877

Email: Qualityassurance@libertyhealthsciences.com

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Harvest/Lot ID: SOFS104-2207-11901

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Sampled : 07/19/22

Ordered : 07/19/22

Total Batch Size : 1870 units

Completed : 07/22/22 Expires: 07/22/23

Sample Method : SOP.T.20.010

Page 2 of 6



Terpenes

TESTED

Terpenes	LOD (%)	mg/unit	%	Result (%)	Terpenes	LOD (%)	mg/unit	%	Result (%)
TOTAL TERPENES	0.007	44.11	4.411		CAMPOR	0.013	ND	ND	
TOTAL TERPINEOL	0.007	0.87	0.087		BORNEOL	0.013	ND	ND	
CAMPENE	0.007	<0.2	<0.02		GERANIOL	0.007	<0.2	<0.02	
BETA-MYRCENE	0.007	5.26	0.526		PULEGONE	0.007	<0.2	<0.02	
3-CARENE	0.007	ND	ND		ALPHA-CEDRENE	0.007	0.38	0.038	
ALPHA-PHELLANDRENE	0.007	0.36	0.036		ALPHA-HUMULENE	0.007	2.77	0.277	
OCIMENE	0.007	0.66	0.066		TRANS-NEROLIDOL	0.007	0.9	0.09	
EUCALYPTOL	0.007	ND	ND		GUAJOL	0.007	ND	ND	
LINALOOL	0.007	4.66	0.466		Analyzed by: 3404, 3655, 3205, 3303, 2155 Weight: 1.0378g Extraction date: 07/19/22 14:59:45 Extracted by: 3655 Analysis Method : SOP.T.30.061A.FL, SOP.T.40.061A.FL Analytical Batch : GA047040TER Instrument Used : GA-GCMS-002 QP2010S Running on : 07/19/22 16:49:24 Reviewed On : 07/20/22 12:29:00 Batch Date : 07/18/22 17:13:52 Dilution : 50 Reagent : 060922.R22; 050322.48; 010421.48 Consumables : 947.109; H20364; 9291.271; LLS-00-0005; 89012-780; RONB32898; 000000146137; 210268; 212516 Pipette : GA-005; GA-011; GA-146; GA-151 Terpenoid testing is performed utilizing Gas Chromatography Mass Spectrometry.				
FENCHONE	0.007	ND	ND						
ISOPULEGOL	0.007	ND	ND						
ISOBORNEOL	0.007	<0.2	<0.02						
HEXAHYDROTHYMOL	0.007	ND	ND						
NEROL	0.007	ND	ND						
GERANYL ACETATE	0.007	ND	ND						
BETA-CARYOPHYLLENE	0.007	11.99	1.199						
VALENCENE	0.007	ND	ND						
CIS-NEROLIDOL	0.007	ND	ND						
CEDROL	0.007	ND	ND						
CARYOPHYLLENE OXIDE	0.007	0.36	0.036						
FARNESENE	0	<0.01	ND						
ALPHA-BISABOLOL	0.007	0.92	0.092						
ALPHA-PINENE	0.007	2.45	0.245						
SABINENE	0.007	ND	ND						
BETA-PINENE	0.007	1.79	0.179						
ALPHA-TERPINENE	0.007	ND	ND						
LIMONENE	0.007	9.65	0.965						
GAMMA-TERPINENE	0.007	ND	ND						
TERPINOLENE	0.007	ND	ND						
SABINENE HYDRATE	0.007	ND	ND						
FENCHYL ALCOHOL	0.007	1.09	0.109						
Total (%)			4.411						



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 Sample Method : SOP.T.20.010

Page 3 of 6

<div>  Pesticides </div>						PASSED					
Pesticide	LOD	Units	Action Level	Pass/Fail	Result	Pesticide	LOD	Units	Action Level	Pass/Fail	Result
TOTAL CONTAMINANT LOAD (PESTICIDES)	0.01	PPM	5	PASS	ND	PACLOBUTRAZOL	0.01	ppm	0.1	PASS	ND
TOTAL DIMETHOMORPH	0.01	PPM	0.2	PASS	ND	PHOSMET	0.01	ppm	0.1	PASS	ND
TOTAL PERMETHRIN	0.01	ppm	0.1	PASS	ND	PIPERONYL BUTOXIDE	0.01	ppm	3	PASS	ND
TOTAL SPINETORAM	0.01	PPM	0.2	PASS	ND	PRALLETHRIN	0.01	ppm	0.1	PASS	ND
TOTAL SPINOSAD	0.01	ppm	0.1	PASS	ND	PROPICONAZOLE	0.01	ppm	0.1	PASS	ND
ABAMECTIN B1A	0.01	ppm	0.1	PASS	ND	PROPOXUR	0.01	ppm	0.1	PASS	ND
ACEPHATE	0.01	ppm	0.1	PASS	ND	PYRETHRINS	0.01	ppm	0.5	PASS	ND
ACEQUINOXYL	0.01	ppm	0.1	PASS	ND	PYRIDABEN	0.01	ppm	0.2	PASS	ND
ACETAMIPRID	0.01	ppm	0.1	PASS	ND	SPIROMESIFEN	0.01	ppm	0.1	PASS	ND
ALDICARB	0.01	ppm	0.1	PASS	ND	SPIROTETRAMAT	0.01	ppm	0.1	PASS	ND
AZOXYSTROBIN	0.01	ppm	0.1	PASS	ND	SPIROXAMINE	0.01	ppm	0.1	PASS	ND
BIFENAZATE	0.01	ppm	0.1	PASS	ND	TEBUCONAZOLE	0.01	ppm	0.1	PASS	ND
BIFENTHRIN	0.01	ppm	0.1	PASS	ND	THIACLOPRID	0.01	ppm	0.1	PASS	ND
BOSCALID	0.01	PPM	0.1	PASS	ND	THIAMETHOXAM	0.01	ppm	0.5	PASS	ND
CARBARYL	0.01	ppm	0.5	PASS	ND	TRIFLOXYSTROBIN	0.01	ppm	0.1	PASS	ND
CARBOFURAN	0.01	ppm	0.1	PASS	ND	PENTACHLORONITROBENZENE (PCNB) *	0.01	PPM	0.15	PASS	ND
CHLORANTRANILIPROLE	0.01	ppm	1	PASS	ND	PARATHION-METHYL *	0.01	PPM	0.1	PASS	ND
CHLORMEQUAT CHLORIDE	0.01	ppm	1	PASS	ND	CAPTAN *	0.07	PPM	0.7	PASS	ND
CHLORPYRIFOS	0.01	ppm	0.1	PASS	ND	CHLORDANE *	0.01	PPM	0.1	PASS	ND
CLOFENTZINE	0.01	ppm	0.2	PASS	ND	CHLORFENAPYR *	0.01	PPM	0.1	PASS	ND
COUMAPHOS	0.01	ppm	0.1	PASS	ND	CYFLUTHRIN *	0.05	PPM	0.5	PASS	ND
DAMINOZIDE	0.01	ppm	0.1	PASS	ND	CYPERMETHRIN *	0.05	PPM	0.5	PASS	ND
DIAZINON	0.01	ppm	0.1	PASS	ND						
DICHLORVOS	0.01	ppm	0.1	PASS	ND	Analyzed by:	Weight:	Extraction date:	Extracted by:		
DIMETHOATE	0.01	ppm	0.1	PASS	ND	3404, 3655, 3192, 3303, 3317	1.1353g	07/20/22 10:04:31	3655		
ETHOPROPHOS	0.01	ppm	0.1	PASS	ND	Analysis Method :	SOP.T.30.101.FL, SOP.T.30.102.FL, SOP.T.30.151.FL, SOP.T.40.101.FL, SOP.T.40.102.FL, SOP.T.40.151.FL				
ETOFENPROX	0.01	ppm	0.1	PASS	ND	Analytical Batch :	GA047041PES	Reviewed On :	07/21/22 11:10:42		
ETOXAZOLE	0.01	ppm	0.1	PASS	ND	Instrument Used :	GA-LCMS-001 PES	Batch Date :	07/18/22 17:14:16		
FENHEXAMID	0.01	ppm	0.1	PASS	ND	Running on :	07/20/22 12:24:36				
FENOXYCARB	0.01	ppm	0.1	PASS	ND	Dilution :	10				
FENPYROXIMATE	0.01	ppm	0.1	PASS	ND	Reagent :	061922.R02; 061922.R04; 070822.R34; 050621.01				
FIPRONIL	0.01	ppm	0.1	PASS	ND	Consumables :	947.109; H20364; LLS-00-0005; 89012-780; 296055173; 210268				
FLONICAMID	0.01	ppm	0.1	PASS	ND	Pipette :	GA-002				
FLUDIOXONIL	0.01	ppm	0.1	PASS	ND	Testing for agricultural agents is performed utilizing Liquid Chromatography Triple-Quadrupole Mass Spectrometry and Gas Chromatography Triple-Quadrupole Mass Spectrometry in accordance with F.S. Rule 64ER20-39.					
HEXYTHIAZOX	0.01	ppm	0.1	PASS	ND	Analyzed by:	Weight:	Extraction date:	Extracted by:		
IMAZALIL	0.01	ppm	0.1	PASS	ND	3404, 3192, 3317, 3303	1.1353g	07/20/22 10:04:31	3655		
IMIDACLOPRID	0.01	ppm	0.4	PASS	ND	Analysis Method :	SOP.T.30.060, SOP.T.40.060				
KRESOXIM-METHYL	0.01	ppm	0.1	PASS	ND	Analytical Batch :	GA047155VOL	Reviewed On :	07/21/22 11:24:28		
MALATHION	0.01	ppm	0.2	PASS	ND	Instrument Used :	GA-GCMS-006	Batch Date :	07/20/22 11:25:55		
METALAXYL	0.01	ppm	0.1	PASS	ND	Running on :	07/20/22 14:17:53				
METHIOCARB	0.01	ppm	0.1	PASS	ND	Dilution :	100				
METHOMYL	0.01	ppm	0.1	PASS	ND	Reagent :	061922.R02; 061922.R04; 070822.R34; 050621.01; 070822.R07				
MEVINPHOS	0.01	ppm	0.1	PASS	ND	Consumables :	947.109; H20364; LLS-00-0005; 89012-780; 296055173; 55447-U.11925903; 944C4 944; 210268; 212516				
MYCLOBUTANIL	0.01	ppm	0.1	PASS	ND	Pipette :	GA-002; GA-006; GA-013				
NALED	0.01	ppm	0.25	PASS	ND	Testing for agricultural agents is performed utilizing Liquid Chromatography Triple-Quadrupole Mass Spectrometry and Gas Chromatography Triple-Quadrupole Mass Spectrometry in accordance with F.S. Rule 64ER20-39.					
OXAMYL	0.01	ppm	0.5	PASS	ND						



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Batch# : DF-MIFR-2207-11791 Sample Size Received : 16 gram

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Ordered : 07/19/22

Total Batch Size : 1870 units

Completed : 07/22/22 Expires: 07/22/23

Sample Method : SOP.T.20.010

Page 4 of 6



Residual Solvents

PASSED

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

Analyzed by:

N/A

Weight:

N/A

Extraction date:

N/A

Extracted by:

N/A

Analysis Method : SOP.T.40.041.FL

Analytical Batch : GA04707450L

Instrument Used : GA-GCMS-004 QP2020NX

Running on : 07/19/22 12:57:15

Reviewed On : 07/20/22 12:04:50

Batch Date : 07/19/22 10:33:06

Dilution : N/A

Reagent : N/A

Consumables : 27296; 854996

Pipette : N/A

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



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
PASSED

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Page 5 of 6

	Microbial					PASSED					
<div>Analyte</div> <div>ESCHERICHIA COLI SHIGELLA SPP</div> <div>SALMONELLA SPECIFIC GENE</div> <div>ASPERGILLUS FLAVUS</div> <div>ASPERGILLUS FUMIGATUS</div> <div>ASPERGILLUS TERREUS</div> <div>ASPERGILLUS NIGER</div> <div>TOTAL YEAST AND MOLD</div> <div>Analyzed by: 3404, 1790, 3209, 2821, 1541</div> <div>Weight: 0.88g</div> <div>Extraction date: 07/19/22 14:17:39</div> <div>Extracted by: 1790</div> <div>Analysis Method : SOP.T.40.041, SOP.T.40.043, SOP.T.40.045, SOP.T.40.056B, SOP.T.40.058.FL, SOP.T.40.208</div> <div>Analytical Batch : GA047096MIC</div> <div>Instrument Used : GA-TYM-001 Tempo Filler and Reader</div> <div>Running on : 07/19/22 15:53:29</div> <div>Dilution : 90</div> <div>Reagent : 060122.05; 032822.02</div> <div>Consumables : 2303260; 2303190; 2304090; 2305240; 61630-123C6-123E</div> <div>Pipette : GA-154; GA-186; GA-213</div> <div>Microbial testing is performed utilizing various technologies including: PCR, RTPCR, MPN, and traditional culture based techniques in accordance with F.S. Rule 64ER20-39..</div> <div>Analyzed by: 3404, 1790, 3209, 2821, 1541</div> <div>Weight: 0.88g</div> <div>Extraction date: 07/19/22 14:17:39</div> <div>Extracted by: 1790</div> <div>Analysis Method : SOP.T.40.041</div> <div>Analytical Batch : GA047097TYM</div> <div>Instrument Used : GA-TYM-001 bioMérieux Tempo Filler and Reader</div> <div>Running on : 07/19/22 15:53:31</div> <div>Dilution : 90</div> <div>Reagent : 060122.05</div> <div>Consumables : 2303260; 2303190; 2304090; 2305240</div> <div>Pipette : GA-154; GA-213</div> <div>Total yeast and mold testing is performed utilizing MPN and traditional culture based techniques in accordance with F.S. Rule 64ER20-39.</div>						<div>Analyte</div> <div>AFLATOXIN B2</div> <div>AFLATOXIN B1</div> <div>OCHRATOXIN A</div> <div>AFLATOXIN G1</div> <div>AFLATOXIN G2</div> <div>Analyzed by: 3404, 3192, 3303, 3317</div> <div>Weight: 1.1353g</div> <div>Extraction date: 07/20/22 10:04:31</div> <div>Extracted by: 3655</div> <div>Analysis Method : SOP.T.30.101.FL, SOP.T.40.101.FL, SOP.T.30.102.FL, SOP.T.40.102.FL</div> <div>Analytical Batch : GA047156MYC</div> <div>Instrument Used : GA-LCMS-001 MYC</div> <div>Running on : 07/20/22 12:26:03</div> <div>Dilution : 10</div> <div>Reagent : 061922.R02; 061922.R04; 070822.R34; 050621.01</div> <div>Consumables : 947.109; H20364; LLS-00-0005; 89012-780; 296055173; 944C4 944J; 210268; 212516</div> <div>Pipette : GA-002; GA-006; GA-013</div> <div>Mycotoxins testing utilizing Liquid Chromatography with Triple-Quadrupole Mass Spectrometry in accordance with F.S. Rule 64ER20-39.</div>					
	Heavy Metals					PASSED					
<div>Metal</div> <div>TOTAL CONTAMINANT LOAD METALS</div> <div>ARSENIC</div> <div>CADMIUM</div> <div>MERCURY</div> <div>LEAD</div> <div>Analyzed by: 3404, 3571, 3317, 1541</div> <div>Weight: 0.5003g</div> <div>Extraction date: 07/20/22 10:49:46</div> <div>Extracted by: 3571</div> <div>Analysis Method : SOP.T.30.081.FL, SOP.T.30.082.FL, SOP.T.40.081.FL, SOP.T.40.082.FL</div> <div>Analytical Batch : GA047039HEA</div> <div>Instrument Used : GA-ICPMS-002</div> <div>Running on : N/A</div> <div>Dilution : 100</div> <div>Reagent : 052422.R35; 070522.R18; 010421.51; 071522.04; 071522.R33; 071922.R23; 071922.R24; 042022.R45</div> <div>Consumables : GA-194; GA-195; CGR0114; 12455-202CD-202C; 210268; L2019501</div> <div>Pipette : GA-012; GA-183; GA-193</div> <div>Heavy Metals analysis is performed using Inductively Coupled Plasma Mass Spectrometry in accordance with F.S. Rule 64ER20-39.</div>											



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**Filth/Foreign
Material**
PASSED

Analyte	LOD	Units	Result	P/F	Action Level
Filth and Foreign Material	1	%	ND	PASS	5

Analyzed by: 3404, 3134, 1541	Weight: 15.4g	Extraction date: 07/19/22 14:01:38	Extracted by: 3134
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Analysis Method : SOP.T.30.074, SOP.T.40.074

Analytical Batch : GA047087FIL

Instrument Used : GA-Filth/Foreign Material Microscope

Running on : N/A

Reviewed On : 07/19/22 15:53:06

Batch Date : 07/19/22 12:59:22

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	0.632	PASS	0.85

Analyzed by: 3404, 3655, 2507	Weight: 0.5525g	Extraction date: 07/20/22 10:05:47	Extracted by: 3655
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Analysis Method : SOP.T.40.019

Analytical Batch : GA047095WAT

Instrument Used : GA-085 Rotronic HygroPalm

Running on : N/A

Reviewed On : 07/20/22 12:21:42

Batch Date : 07/19/22 13:48:02

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.