



Certificate of Analysis

Sample: GA20719001-013
Harvest/Lot ID: SOFS103-2207-11921

Batch#: DF-STRW-2207-11795

Cultivation Facility: Gainesville Cultivation

Processing Facility : Gainesville Processing

Seed to Sale# SOFS103-2207-11921

Batch Date: 07/14/22

Sample Size Received: 16 gram

Total Batch Size: 1051 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

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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 84.914% Total THC/Container : 849.14 mg		Total CBD 0.216% Total CBD/Container : 2.16 mg		Total Cannabinoids 88.162% Total Cannabinoids/Container : 881.62 mg
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	D9-THC	THCA	CBD	CBDA	D8-THC	CBG	CBGA	CBN	THCV	CBDV	CBC
%	84.914	ND	0.216	ND	ND	1.732	ND	0.478	0.465	ND	0.357
mg/unit	849.14	ND	2.16	ND	ND	17.32	ND	4.78	4.65	ND	3.57
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: 0.0999g	Extraction date: 07/20/22 09:19:58	Extracted by: 3192
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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 10:59:19
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

Sample : GA20719001-013

Harvest/Lot ID: SOFS103-2207-11921

 Batch# : DF-
 STRW-2207-11795

Sampled : 07/19/22

Ordered : 07/19/22

Sample Size Received : 16 gram

Total Batch Size : 1051 units

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

Sample Method : SOP.T.20.010

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Terpenes

TESTED

Terpenes	LOD (%)	mg/unit	%	Result (%)	Terpenes	LOD (%)	mg/unit	%	Result (%)
TOTAL TERPENES	0.007	52.71	5.271		CAMPOR	0.013	ND	ND	
TOTAL TERPINEOL	0.007	0.79	0.079		BORNEOL	0.013	ND	ND	
CAMPENE	0.007	<0.2	<0.02		GERANIOL	0.007	ND	ND	
BETA-MYRCENE	0.007	10.8	1.08		PULEGONE	0.007	ND	ND	
3-CARENE	0.007	<0.2	<0.02		ALPHA-CEDRENE	0.007	0.29	0.029	
ALPHA-PHELLANDRENE	0.007	0.81	0.081		ALPHA-HUMULENE	0.007	3.93	0.393	
OCIMENE	0.007	ND	ND		TRANS-NEROLIDOL	0.007	ND	ND	
EUCALYPTOL	0.007	ND	ND		GUAIOL	0.007	ND	ND	
LINALOOL	0.007	2.19	0.219						
FENCHONE	0.007	ND	ND						
ISOPULEGOL	0.007	ND	ND						
ISOBORNEOL	0.007	<0.2	<0.02						
HEXAHYDROTHYMOL	0.007	<0.2	<0.02						
NEROL	0.007	ND	ND						
GERANYL ACETATE	0.007	ND	ND						
BETA-CARYOPHYLLENE	0.007	13.52	1.352						
VALENCENE	0.007	2.26	0.226						
CIS-NEROLIDOL	0.007	ND	ND						
CEDROL	0.007	ND	ND						
CARYOPHYLLENE OXIDE	0.007	0.55	0.055						
FARNESENE	0	<0.01	ND						
ALPHA-BISABOLOL	0.007	3.86	0.386						
ALPHA-PINENE	0.007	3.82	0.382						
SABINENE	0.007	ND	ND						
BETA-PINENE	0.007	2.49	0.249						
ALPHA-TERPINENE	0.007	ND	ND						
LIMONENE	0.007	6.22	0.622						
GAMMA-TERPINENE	0.007	ND	ND						
TERPINOLENE	0.007	0.32	0.032						
SABINENE HYDRATE	0.007	ND	ND						
FENCHYL ALCOHOL	0.007	0.86	0.086						
Total (%)			5.271						

Analyzed by: 3404, 3655, 3205, 3303, 2155
 Weight: 0.9627g
 Extraction date: 07/19/22 14:59:46
 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 12:28:56
 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.



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<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
CLOFENTEZINE	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	1.0724g	07/20/22 09:53:04	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 11:10:22			
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	1.0724g	07/20/22 09:53:04	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 11:24:22			
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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Sample : GA20719001-013

Harvest/Lot ID: SOFS103-2207-11921

 Batch# : DF-
 STRW-2207-11795

Sampled : 07/19/22

Ordered : 07/19/22

Sample Size Received : 16 gram

Total Batch Size : 1051 units

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

Sample Method : SOP.T.20.010

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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 : GA047074SOL

Instrument Used : GA-GCMS-004 QP2020NX

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

Reviewed On : 07/20/22 12:04:45

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.



Certificate of Analysis

PASSED



Liberty Health Sciences, FL

 18770 N CR 225
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Sample : GA20719001-013
Harvest/Lot ID: SOFS103-2207-11921

Batch# : DF-STRW-2207-11795
Sample Size Received : 16 gram
Total Batch Size : 1051 units
Completed : 07/22/22 **Expires:** 07/22/23
Ordered : 07/19/22 **Sample Method :** SOP.T.20.010

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	Microbial					PASSED					
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: 3404, 3192, 3303, 3317 Weight: 1.0724g Extraction date: 07/20/22 09:53:04 Extracted by: 3655					
TOTAL YEAST AND MOLD	10	CFU/g	<10	PASS	100000	Analysis Method : SOP.T.30.101.FL, SOP.T.40.101.FL, SOP.T.30.102.FL, SOP.T.40.102.FL Analytical Batch : GA047156MYC Reviewed On : 07/21/22 11:13:23 Instrument Used : GA-LCMS-001 MYC Batch Date : 07/20/22 11:26:00 Running on : 07/20/22 12:26:03					
Analyzed by: 3404, 1790, 3209, 2821, 1541 Weight: 0.85g Extraction date: 07/19/22 14:17:02 Extracted by: 1790 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 Analytical Batch : GA047096MIC Reviewed On : 07/22/22 08:11:55 Instrument Used : GA-TYM-001 Tempo Filler and Reader Batch Date : 07/19/22 14:08:28 Running on : 07/19/22 15:53:29						Dilution : 10 Reagent : 061922.R02; 061922.R04; 070822.R34; 050621.01 Consumables : 947.109; H20364; LLS-00-0005; 89012-780; 296055173; 944C4 944J; 210268; 212516 Pipette : GA-002; GA-006; GA-013					
Dilution : 90 Reagent : 060122.05; 032822.02 Consumables : 2303260; 2303190; 2304090; 2305240; 61630-123C6-123E Pipette : GA-154; GA-186; GA-213						Mycotoxins testing utilizing Liquid Chromatography with Triple-Quadrupole Mass Spectrometry in accordance with F.S. Rule 64ER20-39.					
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> Heavy MetalsPASSED					
Analyzed by: 3404, 1790, 3209, 2821, 1541	Weight: 0.85g	Extraction date: 07/19/22 14:17:02	Extracted by: 1790								
Analysis Method : SOP.T.40.041 Analytical Batch : GA047097TYM Instrument Used : GA-TYM-001 bioMérieux Tempo Filler and Reader Running on : 07/19/22 15:53:31						MetalLODUnitsResultPass / FailAction LevelTOTAL CONTAMINANT LOAD METALS0.11PPMNDPASS1.1ARSENIC0.02PPMNDPASS0.2CADMIUM0.02PPMNDPASS0.2MERCURY0.02PPMNDPASS0.2LEAD0.05PPMNDPASS0.5					
Dilution : 90 Reagent : 060122.05 Consumables : 2303260; 2303190; 2304090; 2305240 Pipette : GA-154; GA-213						Analyzed by: 3404, 3571, 3317, 1541 Weight: 0.5328g Extraction date: 07/20/22 10:42:05 Extracted by: 3571					
Total yeast and mold testing is performed utilizing MPN and traditional culture based techniques in accordance with F.S. Rule 64ER20-39.						Analysis Method : SOP.T.30.081.FL, SOP.T.30.082.FL, SOP.T.40.081.FL, SOP.T.40.082.FL Analytical Batch : GA047039HEA Reviewed On : 07/21/22 11:05:21 Instrument Used : GA-ICPMS-002 Batch Date : 07/18/22 17:13:28 Running on : N/A					
						Dilution : 100 Reagent : 052422.R35; 070522.R18; 010421.51; 071522.04; 071522.R33; 071922.R23; 071922.R24; 042022.R45 Consumables : GA-194; GA-195; CGR0114; 12455-202CD-202C; 210268; L2019501 Pipette : GA-012; GA-183; GA-193					
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

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

Analyzed by: 3404, 2821, 1541	Weight: 13.5g	Extraction date: 07/19/22 13:12:24	Extracted by: 2821
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Analysis Method : SOP.T.30.074, SOP.T.40.074

Analytical Batch : GA047088FIL

Instrument Used : GA-Filth/Foreign Material Microscope

Running on : N/A

Reviewed On : 07/19/22 15:53:04

Batch Date : 07/19/22 13:11:33

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	0.648	PASS	0.85

Analyzed by: 3404, 3655, 2507	Weight: 0.7281g	Extraction date: 07/20/22 09:54:32	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 12:21:37

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.