



# Certificate of Analysis

**COMPLIANCE FOR RETAIL**
**Sample:GA21012001-003**
**Harvest/Lot ID: LFOS102-2210-15661**
**Batch#: M0277-2209-15311**
**Cultivation Facility: Gainesville Cultivation**
**Processing Facility : Gainesville Processing**
**Seed to Sale# LFOS102-2210-15661**
**Batch Date: 10/04/22**
**Sample Size Received: 120 gram**
**Total Batch Size: 500 units**
**Retail Product Size: 30 gram**
**Ordered : 10/12/22**
**Sampled : 10/12/22**
**Completed: 10/16/22**
**Sampling Method: SOP.T.20.010**
**PASSED**

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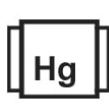
Oct 16, 2022 | Liberty Health Sciences, FL

18770 N CR 225

Gainesville, FL, 32609, US


**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**
**1.025%**
**Total THC/Container : 307.5 mg**

**Total CBD**
**ND**
**Total CBD/Container : 0 mg**

**Total Cannabinoids**
**1.062%**
**Total Cannabinoids/Container : 318.6 mg**

	D9-THC	THCA	CBD	CBDA	D8-THC	CBG	CBGA	CBN	THCV	CBDV	CBC
%	1.025	ND	ND	ND	ND	0.028	ND	0.004	0.005	ND	ND
mg/unit	307.5	ND	ND	ND	ND	8.4	ND	1.2	1.5	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:**  
3404, 3600, 2507, 2155

**Weight:**  
3.0014g

**Extraction date:**  
10/12/22 18:21:08

**Extracted by:**  
3600

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

**Analytical Batch :** GA050952POT

**Instrument Used :** GA-HPLC-001 2030C Plus (Infused)

**Running on :** 10/12/22 20:22:12

**Reviewed On :** 10/13/22 11:21:49

**Batch Date :** 10/12/22 12:23:14

**Dilution :** 400

**Reagent :** 081822.R45; 010421.44; 090222.14; 091322.02

**Consumables :** 947.109; 21/05/14; 9291.271; LLS-00-0005; 12455-202CD-202C; R0NB32898; 000000146137; 944C4 944; 210268; 206639

**Pipette :** GA-010; GA-146; GA-182; GA-169 (Dispenser); GA-209 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 : GA21012001-003

Harvest/Lot ID: LFOS102-2210-15661

Batch# : M0277-2209-15311

Sampled : 10/12/22

Ordered : 10/12/22

Sample Size Received : 120 gram

Total Batch Size : 500 units

Completed : 10/16/22 Expires: 10/16/23

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	<0.2	<0.02		CAMPOR	0.013	ND	ND	
TOTAL TERPINEOL	0.007	ND	ND		BORNEOL	0.013	ND	ND	
CAMPENE	0.007	ND	ND		GERANIOL	0.007	ND	ND	
BETA-MYRCENE	0.007	<30	<0.1		PULEGONE	0.007	ND	ND	
3-CARENE	0.007	ND	ND		ALPHA-CEDRENE	0.007	ND	ND	
ALPHA-PHELLANDRENE	0.007	ND	ND		ALPHA-HUMULENE	0.007	<30	<0.1	
OCIMENE	0.007	ND	ND		TRANS-NEROLIDOL	0.007	<30	<0.1	
EUCALYPTOL	0.007	ND	ND		GUAJOL	0.007	ND	ND	
LINALOOL	0.007	<30	<0.1						
FENCHONE	0.007	ND	ND						
ISOPULEGOL	0.007	ND	ND						
ISOBORNEOL	0.007	ND	ND						
HEXAHYDROTHYMOL	0.007	ND	ND						
NEROL	0.007	ND	ND						
GERANYL ACETATE	0.007	ND	ND						
BETA-CARYOPHYLLENE	0.007	<30	<0.1						
VALENCENE	0.007	ND	ND						
CIS-NEROLIDOL	0.007	ND	ND						
CEDROL	0.007	ND	ND						
CARYOPHYLLENE OXIDE	0.007	ND	ND						
FARNESENE	0	ND	ND						
ALPHA-BISABOLOL	0.007	<30	<0.1						
ALPHA-PINENE	0.007	ND	ND						
SABINENE	0.007	ND	ND						
BETA-PINENE	0.007	ND	ND						
ALPHA-TERPINENE	0.007	ND	ND						
LIMONENE	0.007	<30	<0.1						
GAMMA-TERPINENE	0.007	ND	ND						
TERPINOLENE	0.007	ND	ND						
SABINENE HYDRATE	0.007	ND	ND						
FENCHYL ALCOHOL	0.007	ND	ND						
<b>Total (%)</b>			<b>&lt;0.02</b>						

Analyzed by: 3404, 3655, 2155, 3298 Weight: 0.9769g Extraction date: 10/12/22 18:22:09 Extracted by: 3655  
 Analysis Method : SOP.T.30.061A.FL, SOP.T.40.061A.FL  
 Analytical Batch : GA050951TER  
 Instrument Used : GA-GCMS-002 QP2010S (Derivative)  
 Running on : 10/13/22 09:44:05  
 Dilution : 50  
 Reagent : 060922.R22; 050322.46; 010421.44  
 Consumables : GA-211; 947.109; 21/05/14; 9291.271; LLS-00-0005; 89012-780; RONB32898; 000000146137; 944C4 944; 210268; 212516  
 Pipette : GA-005; GA-152; GA-150  
 Terpenoid testing is performed utilizing Gas Chromatography Mass Spectrometry.



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Sample Method : SOP.T.20.010

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<div>  <b>Pesticides</b> </div>						<div> <b>PASSED</b> </div>					
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	0.114	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:	3404, 3571, 3303, 2507	Weight:	1.0052g	Extraction date:	10/12/22 19:26:44
DICHLORVOS	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			Extracted by:	3571
DIMETHOATE	0.01	ppm	0.1	PASS	ND	Analytical Batch :	GA050955PES			Reviewed On :	10/14/22 11:47:22
ETHOPROPHOS	0.01	ppm	0.1	PASS	ND	Instrument Used :	GA-LCMS-001 PES			Batch Date :	10/12/22 12:24:52
ETOFENPROX	0.01	ppm	0.1	PASS	ND	Running on :	10/13/22 12:30:23				
ETOXAZOLE	0.01	ppm	1.5	PASS	ND	Dilution :	10				
FENHEXAMID	0.01	ppm	3	PASS	ND	Reagent :	100222.R01; 011122.06; 092022.R18; 092022.R20				
FENOXYCARB	0.01	ppm	0.1	PASS	ND	Consumables :	GA-210; 947.109; 21/05/14; 9291.271; LLS-00-0005; 89012-780; 296055173; 210268				
FENPYROXIMATE	0.01	ppm	2	PASS	ND	Pipette :	GA-003				
FIPRONIL	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.					
FLONICAMID	0.01	ppm	2	PASS	ND	Analyzed by:	3404, 3575, 3298, 3317, 3303	Weight:	1.0052g	Extraction date:	10/12/22 19:26:44
FLUDIOXONIL	0.01	ppm	3	PASS	0.114	Analysis Method :	SOP.T.30.060, SOP.T.40.060			Extracted by:	3571
HEXYTHIAZOX	0.01	ppm	2	PASS	ND	Analytical Batch :	GA051008VOL			Reviewed On :	10/14/22 10:17:29
IMAZALIL	0.01	ppm	0.1	PASS	ND	Instrument Used :	GA-GCMS-006			Batch Date :	10/13/22 10:22:57
IMIDACLOPRID	0.01	ppm	1	PASS	ND	Running on :	10/13/22 12:47:23				
KRESOXIM-METHYL	0.01	ppm	1	PASS	ND	Dilution :	100				
MALATHION	0.01	ppm	2	PASS	ND	Reagent :	100222.R01; 011122.06; 093022.R19				
METALAXYL	0.01	ppm	3	PASS	ND	Consumables :	GA-210; 947.109; 21/05/14; 9291.271; LLS-00-0005; 89012-780; 296055173; 210268; 55447-U.11925903; 944C4 944J; 206639				
METHIOCARB	0.01	ppm	0.1	PASS	ND	Pipette :	GA-001; GA-003; GA-182				
METHOMYL	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.					
MEVINPHOS	0.01	ppm	0.1	PASS	ND						
MYCLOBUTANIL	0.01	ppm	3	PASS	ND						
NALED	0.01	ppm	0.5	PASS	ND						





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Sample : GA21012001-003

Harvest/Lot ID: LFOS102-2210-15661

Batch# : M0277-2209-15311

Sampled : 10/12/22

Ordered : 10/12/22

Sample Size Received : 120 gram

Total Batch Size : 500 units

Completed : 10/16/22 Expires: 10/16/23

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		TESTED	>9500
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:

N/A

Weight:

N/A

Extraction date:

N/A

Extracted by:

N/A

Analysis Method : SOP.T.40.041.FL

Analytical Batch : GA050931SOL

Instrument Used : GA-GCMS-001 Headspace Solvent

Running on : 10/12/22 12:30:54

Reviewed On : 10/13/22 10:04:30

Batch Date : 10/12/22 10:12:35

Dilution : N/A

Reagent : N/A

Consumables : 27296; 854996

Pipette : GA-247

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



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Sample : GA21012001-003

Harvest/Lot ID: LFOS102-2210-15661

Batch# : M0277-2209-15311

Sampled : 10/12/22

Ordered : 10/12/22




Sample Size Received : 120 gram

Total Batch Size : 500 units

Completed : 10/16/22 Expires: 10/16/23

Sample Method : SOP.T.20.010

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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: 3404, 3575, 3303, 2507    Weight: 1.0052g    Extraction date: 10/12/22 19:26:44    Extracted by: 3571					
TOTAL YEAST AND MOLD	10	CFU/g	ND	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 : GA051006MYC    Reviewed On : 10/14/22 11:50:00 Instrument Used : GA-LCMS-001 MYC    Batch Date : 10/13/22 10:22:54 Running on : 10/13/22 12:30:28					
Analyzed by: 3404, 3721, 3209, 1541    Weight: 1g    Extraction date: 10/13/22 15:04:21    Extracted by: 3209 Analysis Method : SOP.T.40.043 Analytical Batch : GA050967MIC Instrument Used : GA-200 Bacterial / GA-102 Fungal Incubators Running on : 10/14/22 14:56:56 Dilution : 90 Reagent : N/A Consumables : 6211125; 54082.005104; 007104; 54084.005104; 61630-123C6-123E Pipette : GA-020						Dilution : 10 Reagent : 100222.R01; 011122.06; 092022.R18; 092022.R20 Consumables : GA-210; 947.109; 21/05/14; 9291.271; LLS-00-0005; 89012-780; 296055173; 210268 Pipette : GA-003 Mycotoxins testing utilizing Liquid Chromatography with Triple-Quadrupole Mass Spectrometry in accordance with F.S. Rule 64ER20-39.					
Analyzed by: 3404, 3721, 3209, 1541    Weight: 1g    Extraction date: N/A    Extracted by: N/A Analysis Method : SOP.T.40.208, SOP.T.40.209.FL Analytical Batch : GA050968TYM    Reviewed On : 10/14/22 15:29:07 Instrument Used : GA-102 Fungal Incubator (TYM)    Batch Date : 10/12/22 13:52:47 Running on : 10/14/22 14:53:29 Dilution : 1 Reagent : N/A Consumables : 54084.005104; 61630-123C6-123E Pipette : GA-021 Total yeast and mold testing is performed utilizing MPN and traditional culture based techniques in accordance with F.S. Rule 64ER20-39.						 <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: 3404, 3655, 3303, 2507    Weight: 0.4963g    Extraction date: 10/13/22 10:31:43    Extracted by: 3655 Analysis Method : SOP.T.30.081.FL, SOP.T.30.082.FL, SOP.T.40.081.FL, SOP.T.40.082.FL Analytical Batch : GA050954HEA    Reviewed On : 10/13/22 17:08:08 Instrument Used : GA-ICPMS-002    Batch Date : 10/12/22 12:24:07 Running on : 10/13/22 13:35:18 Dilution : 100 Reagent : 100322.R20; 100222.R12; 071522.04; 100822.R01; 091922.R56; 071922.R24; 091922.R55 Consumables : CGR0114; 12455-202CD-202C; 210268 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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Sample Method : SOP.T.20.010

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

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

Analyzed by: 3404, 3192, 1541	Weight: 88.5g	Extraction date: 10/12/22 12:26:55	Extracted by: 3192
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Analysis Method : SOP.T.30.074, SOP.T.40.074

Analytical Batch : GA050957FIL

Instrument Used : GA-Filth/Foreign Material Microscope

Running on : N/A

Reviewed On : 10/12/22 15:18:51

Batch Date : 10/12/22 12:26:11

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	0.903	TESTED	

Analyzed by: 3404, 3192, 3571	Weight: 1.1829g	Extraction date: 10/12/22 13:58:49	Extracted by: 3192
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Analysis Method : SOP.T.40.019

Analytical Batch : GA050956WAT

Instrument Used : GA-085 Rotronic HygroPalm

Running on : N/A

Reviewed On : 10/12/22 16:50:37

Batch Date : 10/12/22 12:25:40

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.