



Certificate of Analysis

Jul 01, 2022 | Liberty Health Sciences, FL
18770 N CR 225
Gainesville, FL, 32609, US






Sample: GA20628001-014
Harvest/Lot ID: ORFS101-2206-10818
Batch#: SLH-171S-HH-041322
Cultivation Facility: Gainesville Cultivation
Processing Facility : Gainesville Processing
Seed to Sale# ORFS101-2206-10818
Batch Date: 06/23/22
Sample Size Received: 16 gram
Total Batch Size: 921 units
Retail Product Size: 1 gram
Ordered : 06/28/22
Sampled : 06/28/22
Completed: 07/01/22
Sampling Method: SOP.T.20.010.FL









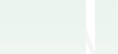
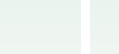

PASSED

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PRODUCT IMAGE	SAFETY RESULTS								MISC.
									
LIBERTY GA20628001-014	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 72.928% Total THC/Container : 729.28 mg		Total CBD 0.2% Total CBD/Container : 2 mg		Total Cannabinoids 78.175% Total Cannabinoids/Container : 781.75 mg
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	D9-THC	THCA	CBD	CBDA	D8-THC	CBG	CBGA	CBN	THCV	CBDV	CBC
%	72.928	ND	0.2	ND	ND	2.403	ND	0.451	0.836	ND	1.357
mg/unit	729.28	ND	2	ND	ND	24.03	ND	4.51	8.36	ND	13.57
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, 3575, 2507, 3303	Weight: 0.1016g	Extraction date: 06/29/22 11:10:12	Extracted by: 3575
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Analysis Method : SOP.T.40.031, SOP.T.30.031
Analytical Batch : GA046054POT
Instrument Used : GA-HPLC-001 2030C Plus
Running on : 06/29/22 13:50:25

Reviewed On : 06/30/22 11:01:39
Batch Date : 06/28/22 09:22:38

Dilution : 400
Reagent : 020322.R09; 010421.48; 062822.31; 061122.R33; 062122.R33
Consumables : 947.271; H20364; 9291.271; LLS-00-0005; 12455-202CD-202C; R0NB32898; 000000146137; 944C4 944J; 210268; 212938; 206639
Pipette : GA-011; GA-146; GA-182

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



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Completed : 07/01/22 Expires: 07/01/23

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Terpenes

TESTED

Terpenes	LOD (%)	mg/unit	%	Result (%)	Terpenes	LOD (%)	mg/unit	%	Result (%)
TOTAL TERPENEOL	0.007	0.77	0.077		BORNEOL	0.013	ND	ND	
CAMPENE	0.007	ND	ND		GERANIOL	0.007	ND	ND	
BETA-MYRCENE	0.007	0.37	0.037		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	7.34	0.734	
OCIMENE	0.007	0.41	0.041		TRANS-NEROLIDOL	0.007	0.54	0.054	
EUCALYPTOL	0.007	ND	ND		GUAJOL	0.007	ND	ND	
LINALOOL	0.007	0.96	0.096						
FENCHONE	0.007	ND	ND		Analyzed by: 3404, 3600, 3599, 3303, 2155 Weight: 0.928g Extraction date: 06/28/22 18:05:10 Extracted by: 3600				
ISOPULEGOL	0.007	ND	ND		Analysis Method: SOP.T.30.061A.FL, SOP.T.40.061A.FL Analytical Batch: GA046099TER Instrument Used: GA-GCMS-002 QP2010S Running on: 06/29/22 16:19:54 Reviewed On: 06/30/22 12:28:50 Batch Date: 06/28/22 16:35:15				
ISOBORNEOL	0.007	ND	ND		Dilution: 50 Reagent: 060922.R22; 050322.49; 010421.48 Consumables: 947.271; H20364; 9291.271; LLS-00-0005; 89012-780; RONB32898; 000000146137; 944C4 944; 210268; 206639 Pipette: GA-005; GA-149; GA-153; GA-150; GA-211 Dispenser				
HEXAHYDROTHYMOL	0.007	ND	ND		Terpenoid testing is performed utilizing Gas Chromatography Mass Spectrometry.				
NEROL	0.007	ND	ND						
GERANYL ACETATE	0.007	ND	ND						
BETA-CARYOPHYLLENE	0.007	24.53	2.453						
VALENCENE	0.007	ND	ND						
CIS-NEROLIDOL	0.007	ND	ND						
CECROL	0.007	ND	ND						
FARNESENE	0	1.97	0.197						
CARYOPHYLLENE OXIDE	0.007	1.94	0.194						
ALPHA-BISABOLOL	0.007	2.75	0.275						
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	0.88	0.088						
GAMMA-TERPINENE	0.007	0.33	0.033						
TERPINOLENE	0.007	2.23	0.223						
SABINENE HYDRATE	0.007	ND	ND						
FENCHYL ALCOHOL	0.007	0.7	0.07						
CAMPOR	0.013	ND	ND						
Total (%)				4.572					



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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	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	PYRETHRINS	0.01	ppm	1	PASS	ND
ACEQUINOXYL	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
CLOFENTZINE	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	Analyzed by:	Weight:	Extraction date:	Extracted by:		
DIMETHOATE	0.01	ppm	0.1	PASS	ND	3404, 3209, 3303, 3317	0.9636g	06/29/22 11:17:28	3209		
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 : GA046101PES			Reviewed On : 06/30/22 10:28:10		
ETOXAZOLE	0.01	ppm	1.5	PASS	ND	Instrument Used : GA-LCMS-001 PES			Batch Date : 06/28/22 16:38:54		
FENHEXAMID	0.01	ppm	3	PASS	ND	Running on : 06/29/22 15:43:03					
FENOXYCARB	0.01	ppm	0.1	PASS	ND	Dilution : 10					
FENPYROXIMATE	0.01	ppm	2	PASS	ND	Reagent : 060422.R38; 060422.R36; 062122.R09; 062922.R34					
FIPRONIL	0.01	ppm	0.1	PASS	ND	Consumables : 947.271; H20364; 9291.271; LLS-00-0005; 210419634; 296055173; 210268					
FLONICAMID	0.01	ppm	2	PASS	ND	Pipette : GA-002; GA-210 Dispenser					
FLUDIOXONIL	0.01	ppm	3	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	2	PASS	ND	Analyzed by:	Weight:	Extraction date:	Extracted by:		
IMAZALIL	0.01	ppm	0.1	PASS	ND	N/A	N/A	N/A	N/A		
IMIDACLOPRID	0.01	ppm	1	PASS	ND	Analysis Method : SOP.T.30.060, SOP.T.40.060					
KRESOXIM-METHYL	0.01	ppm	1	PASS	ND	Analytical Batch : GA046154VOL			Reviewed On : 06/30/22 10:59:30		
MALATHION	0.01	ppm	2	PASS	ND	Instrument Used : GA-GCMS-006			Batch Date : 06/29/22 12:13:52		
METALAXYL	0.01	ppm	3	PASS	ND	Running on : 06/29/22 16:51:08					
METHIOCARB	0.01	ppm	0.1	PASS	ND	Dilution : 100					
METHOMYL	0.01	ppm	0.1	PASS	ND	Reagent : 060422.R38; 060422.R36; 062122.R09; 062922.R34; 061522.R52					
MEVINPHOS	0.01	ppm	0.1	PASS	ND	Consumables : 947.271; H20364; 9291.271; LLS-00-0005; 210419634; 296055173; 210268; 15144001; 944C4 944; 206639					
MYCLOBUTANIL	0.01	ppm	3	PASS	ND	Pipette : GA-146; GA-182					
NALED	0.01	ppm	0.5	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						
PACLOBUTRAZOL	0.01	ppm	0.1	PASS	ND						
PHOSMET	0.01	ppm	0.2	PASS	ND						
PIPERONYL BUTOXIDE	0.01	ppm	3	PASS	ND						
PRALLETHRIN	0.01	ppm	0.4	PASS	ND						



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Residual Solvents

PASSED

Solvents	LOD	Units	Action Level	Pass/Fail	Result
METHANOL	25	ppm	250	PASS	ND
ETHANOL	500	ppm		TESTED	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	<200
BENZENE	0.1	ppm	1	PASS	ND
HEPTANE	500	ppm	5000	PASS	ND
TOLUENE	15	ppm	150	PASS	ND
PROPANE	500	ppm	5000	PASS	ND
CHLOROFORM	0.2	ppm	2	PASS	ND
1,2-DICHLOROETHANE	0.2	ppm	2	PASS	ND
BUTANES (N-BUTANE)	500	ppm	5000	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 : GA046083SOL

Instrument Used : GA-GCMS-004 QP2020NX

Running on : 06/28/22 14:52:05

Reviewed On : 06/29/22 14:25:10

Batch Date : 06/28/22 11:31:43

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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<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
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							
TOTAL YEAST AND MOLD	10	CFU/g	<10	PASS	100000	Analyzed by: 3404, 3209, 3303, 3317	Weight: 0.9636g	Extraction date: 06/29/22 11:17:28	Extracted by: 3209		
Analyzed by: 3404, 1790, 1541 Weight: 0.86g Extraction date: 06/29/22 20:14:13 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 : GA046113MIC Instrument Used : GA-TYM-001 Tempo Filler and Reader Running on : 06/29/22 20:17:43 Dilution : 90 Reagent : 052622.09 Consumables : 2303260; 2303190; 2304090; 2304090; GA-185; GA-213; 61630-123C6-123E Pipette : GA-154 Microbial testing is performed utilizing various technologies including: PCR, RTPCR, MPN, and traditional culture based techniques in accordance with F.S. Rule 64ER20-39..						Analysis Method : SOP.T.30.101.FL, SOP.T.40.101.FL, SOP.T.30.102.FL, SOP.T.40.102.FL Analytical Batch : GA046153MYC Instrument Used : GA-LCMS-001 MYC Running on : 06/29/22 15:43:13 Dilution : N/A Reagent : aflatoxin_b2; aflatoxin_b1; aflatoxin_g1; aflatoxin_g2 Consumables : 0.02; 0.02; 0.02; 0.02 Pipette : N/A Mycotoxins testing utilizing Liquid Chromatography with Triple-Quadrupole Mass Spectrometry in accordance with F.S. Rule 64ER20-39.					
Reviewed On : 07/01/22 08:01:15 Batch Date : 06/28/22 18:41:27											



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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: 11.2g	Extraction date: 06/28/22 14:59:21	Extracted by: 2821
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Analysis Method : SOP.T.30.074, SOP.T.40.074

Analytical Batch : GA046090FIL

Instrument Used : GA-Filth/Foreign Material Microscope

Running on : N/A

Reviewed On : 06/28/22 16:30:59

Batch Date : 06/28/22 14:57:37

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	0.568	TESTED	

Analyzed by: 3404, 3575, 1541	Weight: 0.7455g	Extraction date: 06/28/22 18:19:56	Extracted by: 3575
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Analysis Method : SOP.T.40.019

Analytical Batch : GA046098WAT

Instrument Used : GA-203 Rotronic HygroPalm

Running on : N/A

Reviewed On : 06/30/22 08:20:23

Batch Date : 06/28/22 16:33:41

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.