



Certificate of Analysis

Sample:GA20716002-003
Harvest/Lot ID: ORFCS162-2207-11828
Batch#: LPC-3L-050922-8
Cultivation Facility: Gainesville Cultivation
Processing Facility : Gainesville Processing
Seed to Sale# ORFCS162-2207-11828
Batch Date: 07/13/22
Sample Size Received: 16 gram
Total Batch Size: 916 units
Retail Product Size: 1 gram
Ordered : 07/16/22
Sampled : 07/16/22
Completed: 07/18/22
Sampling Method: SOP.T.20.010.FL

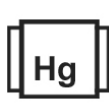
Jul 18, 2022 | Liberty Health Sciences, FL
18770 N CR 225
Gainesville, FL, 32609, US


PASSED

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PRODUCT IMAGE

SAFETY RESULTS

**Pesticides
PASSED**

**Heavy Metals
PASSED**

**Microbials
PASSED**

**Mycotoxins
PASSED**

**Residuals Solvents
PASSED**

**Filtration
PASSED**

**Water Activity
PASSED**

**Moisture
NOT TESTED**

**Terpenes
TESTED**
MISC.

Cannabinoid
PASSED

Total THC
69.616%
Total THC/Container : 696.16 mg

Total CBD
0.177%
Total CBD/Container : 1.77 mg

Total Cannabinoids
80.558%
Total Cannabinoids/Container : 805.58 mg

	D9-THC	THCA	CBD	CBDa	D8-THC	CBG	CBGA	CBN	THCV	CBDV	CBC
%	14.729	62.585	ND	0.202	ND	0.485	2.557	ND	ND	ND	ND
mg/unit	147.29	625.85	ND	2.02	ND	4.85	25.57	ND	ND	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, 3134, 2507, 3205, 2338

Weight:
0.1043g

Extraction date:
07/16/22 13:11:02

Extracted by:
3134

Analysis Method : SOP.T.40.031, SOP.T.30.031
Analytical Batch : GA046981POT
Instrument Used : GA-HPLC-003 2030C PDA
Running on : 07/16/22 15:48:57

Reviewed On : 07/17/22 15:37:56
Batch Date : 07/16/22 12:28:06

Dilution : 400
Reagent : 020322.R09; 010421.51; 060922.09; 013122.12; 070222.R04; 070222.R06
Consumables : 947.109; H20364; 9291.271; LLS-00-0005; 12455-202CD-202C; R0NB32898; 000000146137; 944C4 944; 209598; 206639
Pipette : GA-002; GA-006; GA-013; 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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Gainesville, FL, 32609, US
Telephone: (833) 254-4877
Email: Qualityassurance@libertyhealthsciences.com

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Sample Size Received : 16 gram
Total Batch Size : 916 units
Sampled : 07/16/22
Completed : 07/18/22 Expires: 07/18/23
Ordered : 07/16/22
Sample Method : SOP.T.20.010

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Terpenes

TESTED

Terpenes	LOD (%)	mg/unit	%	Result (%)	Terpenes	LOD (%)	mg/unit	%	Result (%)
TOTAL TERPENEOL	0.007	1.72	0.172		BORNEOL	0.013	0.46	0.046	
CAMPENE	0.007	ND	ND		GERANIOL	0.007	ND	ND	
BETA-MYRCENE	0.007	0.57	0.057		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	5.12	0.512	
OCIMENE	0.007	0.54	0.054		TRANS-NEROLIDOL	0.007	0.6	0.06	
EUCALYPTOL	0.007	ND	ND		GUAJOL	0.007	3.07	0.307	
LINALOOL	0.007	3.57	0.357						
FENCHONE	0.007	ND	ND		Analyzed by: 3404, 3134, 3303, 3205, 1541 Weight: 0.9648g Extraction date: 07/16/22 13:41:37 Extracted by: 3134				
ISOPULEGOL	0.007	<0.2	<0.02		Analysis Method: SOP.T.30.061A.FL, SOP.T.40.061A.FL Analytical Batch: GA046980TER Instrument Used: GA-GCMS-002 QP2010S Running on: 07/16/22 15:49:53 Reviewed On: 07/18/22 08:29:22 Batch Date: 07/16/22 12:27:24				
ISOBORNEOL	0.007	ND	ND		Dilution: 50 Reagent: 060922.R22; 062922.47; 010421.51 Consumables: 947.109; H20364; 9291.271; LLS-00-0005; 89012-780; RONB32898; 000000146137; 41064115C41158; 209598; 206639 Pipette: GA-002; GA-006; GA-013; 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	16.35	1.635						
VALENCENE	0.007	ND	ND						
CIS-NEROLIDOL	0.007	<0.2	<0.02						
CECROL	0.007	ND	ND						
CARYOPHYLLENE OXIDE	0.007	0.5	0.05						
FARNESENE	0	0.57	0.057						
ALPHA-BISABOLOL	0.007	3.4	0.34						
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	1.75	0.175						
GAMMA-TERPINENE	0.007	ND	ND						
TERPINOLENE	0.007	0.71	0.071						
SABINENE HYDRATE	0.007	ND	ND						
FENCHYL ALCOHOL	0.007	2	0.2						
CAMPOR	0.013	ND	ND						
Total (%)			4.093						



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Sample Method : SOP.T.20.010

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Pesticides

PASSED

Pesticide	LOD	Units	Action Level	Pass/Fail	Result	Pesticide	LOD	Units	Action Level	Pass/Fail	Result
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
ACEQUINOCYL	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	Analyzed by: 3404, 3134, 3303, 2338, 3298 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 Analytical Batch : GA046982PES Instrument Used : GA-LCMS-002 PES Running on : 07/16/22 15:57:11 Dilution : 10 Reagent : 070822.R34; 050621.01; 061922.R01; 061922.R03 Consumables : 947.109; H20364; 9291.271; LLS-00-0005; 89012-780; 29802917; 944C4 944; 209598; 206639 Pipette : GA-002; GA-006; GA-013; GA-210 Dispenser 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.					
DICHLORVOS	0.01	ppm	0.1	PASS	ND	Reviewed On : 07/17/22 14:55:57 Batch Date : 07/16/22 12:28:39					
DIMETHOATE	0.01	ppm	0.1	PASS	ND	Analyzed by: 3404, 3134, 3298, 2338 Weight: 1.0499g Extraction date: 07/16/22 13:14:24 Extracted by: 3134 Analysis Method : SOP.T.30.060, SOP.T.40.060 Analytical Batch : GA046986VOL Instrument Used : GA-GCMS-006 Running on : 07/16/22 17:14:46 Dilution : 100 Reagent : 070822.R34; 050621.01; 070822.R07 Consumables : 947.109; H20364; 9291.271; LLS-00-0005; 89012-780; 29802917; 944C4 944; 209598; 206639; 15144001 Pipette : GA-002; GA-006; GA-013; GA-210 Dispenser 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.					
ETHOPROPHOS	0.01	ppm	0.1	PASS	ND	Reviewed On : 07/17/22 15:17:07 Batch Date : 07/16/22 14:20:14					
ETOFENPROX	0.01	ppm	0.1	PASS	ND						
ETOXAZOLE	0.01	ppm	0.1	PASS	ND						
FENHEXAMID	0.01	ppm	0.1	PASS	ND						
FENOXYCARB	0.01	ppm	0.1	PASS	ND						
FENPYROXIMATE	0.01	ppm	0.1	PASS	ND						
FIPRONIL	0.01	ppm	0.1	PASS	ND						
FLONICAMID	0.01	ppm	0.1	PASS	ND						
FLUDIOXONIL	0.01	ppm	0.1	PASS	ND						
HEXYTHIAZOX	0.01	ppm	0.1	PASS	ND						
IMAZALIL	0.01	ppm	0.1	PASS	ND						
IMIDACLOPRID	0.01	ppm	0.4	PASS	ND						
KRESOXIM-METHYL	0.01	ppm	0.1	PASS	ND						
MALATHION	0.01	ppm	0.2	PASS	ND						
METALAXYL	0.01	ppm	0.1	PASS	ND						
METHIOCARB	0.01	ppm	0.1	PASS	ND						
METHOMYL	0.01	ppm	0.1	PASS	ND						
MEVINPHOS	0.01	ppm	0.1	PASS	ND						
MYCLOBUTANIL	0.01	ppm	0.1	PASS	ND						
NALED	0.01	ppm	0.25	PASS	ND						
OXAMYL	0.01	ppm	0.5	PASS	ND						
PACLOBUTRAZOL	0.01	ppm	0.1	PASS	ND						
PHOSMET	0.01	ppm	0.1	PASS	ND						
PIPERONYL BUTOXIDE	0.01	ppm	3	PASS	ND						
PRALLETHRIN	0.01	ppm	0.1	PASS	ND						
PROPICONAZOLE	0.01	ppm	0.1	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	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 : GA046977SOL

Instrument Used : GA-GCMS-001 Headspace Solvent

Running on : 07/16/22 14:03:56

Reviewed On : 07/18/22 08:06:50

Batch Date : 07/16/22 12:20:56

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.

Signed On _____



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PASSED

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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, 3192	Weight: 14.8g	Extraction date: 07/16/22 11:45:14	Extracted by: 3134
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Analysis Method : SOP.T.30.074, SOP.T.40.074

Analytical Batch : GA046974FIL

Instrument Used : GA-Filth/Foreign Material Microscope

Running on : N/A

Reviewed On : 07/18/22 08:19:33

Batch Date : 07/16/22 11:27:26

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	0.653	PASS	0.85

Analyzed by: 3404, 3571, 3192	Weight: 1.8769g	Extraction date: 07/16/22 14:13:37	Extracted by: 3571
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Analysis Method : SOP.T.40.019

Analytical Batch : GA046978WAT

Instrument Used : GA-203 Rotronic HygroPalm

Running on : N/A

Reviewed On : 07/18/22 08:24:17

Batch Date : 07/16/22 12:25:55

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.