



Certificate of Analysis

Sample: GA20716002-004
Harvest/Lot ID: ORFCS162-2207-11912
Batch#: LPC-3L-050922-5-P2
Cultivation Facility: Gainesville Cultivation
Processing Facility: Gainesville Processing
Seed to Sale# ORFCS162-2207-11912
Batch Date: 07/13/22
Sample Size Received: 16 gram
Total Batch Size: 321 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								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

	Total THC 68.482% Total THC/Container : 684.82 mg		Total CBD 0.179% Total CBD/Container : 1.79 mg		Total Cannabinoids 80.283% Total Cannabinoids/Container : 802.83 mg
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	D9-THC	THCA	CBD	CBDA	D8-THC	CBG	CBGA	CBN	THCV	CBDV	CBC
%	8.162	68.78	ND	0.205	ND	0.408	2.728	ND	ND	ND	ND
mg/unit	81.62	687.8	ND	2.05	ND	4.08	27.28	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: 0.0926g	Extraction date: 07/16/22 13:18:14	Extracted by: 3134
Analysis Method : SOP.T.40.031, SOP.T.30.031		Reviewed On : 07/17/22 15:40:50	
Analytical Batch : GA046981POT		Batch Date : 07/16/22 12:28:06	
Instrument Used : GA-HPLC-003 2030C PDA			
Running on : 07/16/22 15:48:57			
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; RONB32898; 000000146137; 944C4 944J; 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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Harvest/Lot ID: ORFCS162-2207-11912

Batch# : LPC-3L-050922-5-P2
Sample Size Received : 16 gram
Total Batch Size : 321 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 TERPINEOL	0.007	1.8	0.18		BORNEOL	0.013	0.41	0.041	
CAMPHENE	0.007	ND	ND		GERANIOL	0.007	ND	ND	
BETA-MYRCENE	0.007	1.04	0.104		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	6.57	0.657	
OCIMENE	0.007	1.2	0.12		TRANS-NEROLIDOL	0.007	0.5	0.05	
EUCALYPTOL	0.007	0.23	0.023		GUAJOL	0.007	3.09	0.309	
LINALOOL	0.007	4.62	0.462						
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	22.32	2.232						
VALENCENE	0.007	ND	ND						
CIS-NEROLIDOL	0.007	ND	ND						
CEDROL	0.007	ND	ND						
CARYOPHYLLENE OXIDE	0.007	0.58	0.058						
FARNESENE	0	0.57	0.057						
ALPHA-BISABOLOL	0.007	3.48	0.348						
ALPHA-PINENE	0.007	ND	ND						
SABINENE	0.007	ND	ND						
BETA-PINENE	0.007	<0.2	<0.02						
ALPHA-TERPINENE	0.007	ND	ND						
LIMONENE	0.007	2.84	0.284						
GAMMA-TERPINENE	0.007	ND	ND						
TERPINOLENE	0.007	2.61	0.261						
SABINENE HYDRATE	0.007	<0.2	<0.02						
FENCHYL ALCOHOL	0.007	2.28	0.228						
CAMPHOR	0.013	ND	ND						
Total (%)				5.414					

Analyzed by: 3404, 3134, 3303, 3205, 1541
Weight: 1.0143g
Extraction date: 07/16/22 13:42:05
Extracted by: 3134
Analysis Method: SOP.T.30.051A.FL, SOP.T.40.061A.FL
Analytical Batch: GA046980TER
Instrument Used: GA-GCMS-002 QP20105
Running on: 07/16/22 15:49:53
Reviewed On: 07/18/22 08:29:23
Batch Date: 07/16/22 12:27:24
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
 Terpenoid testing is performed utilizing Gas Chromatography Mass Spectrometry.



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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						
DICHLORVOS	0.01	ppm	0.1	PASS	ND						
DIMETHOATE	0.01	ppm	0.1	PASS	ND						
ETHOPROPHOS	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						

Analyzed by: 3404, 3134, 3303, 2338, 3298
Weight: 0.8542g
Extraction date: 07/16/22 13:19:22
Extracted by: 3134

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

Reviewed On: 07/17/22 14:56:08
Batch Date: 07/16/22 12:28:39

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.

Analyzed by: 3404, 3134, 3298, 2338
Weight: 0.8542g
Extraction date: 07/16/22 13:19:22
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

Reviewed On: 07/17/22 15:17:10
Batch Date: 07/16/22 14:20:14

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.



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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	<2500
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
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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 08:06:51 Batch Date : 07/16/22 12:20:56
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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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Completed : 07/18/22 Expires: 07/18/23
Ordered : 07/16/22
Sample Method : SOP.T.20.010

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	Microbial	PASSED		Mycotoxins	PASSED
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Analyte	LOD	Units	Result	Pass / Fail	Action Level
ESCHERICHIA COLI SHIGELLA SPP			Not Present	PASS	
SALMONELLA SPECIFIC GENE			Not Present	PASS	
ASPERGILLUS FLAVUS			Not Present	PASS	
ASPERGILLUS FUMIGATUS			Not Present	PASS	
ASPERGILLUS TERREUS			Not Present	PASS	
ASPERGILLUS NIGER			Not Present	PASS	
TOTAL YEAST AND MOLD	10	CFU/g	<10	PASS	100000

Analyzed by: 3404, 2821, 1541
Weight: 0.99g
Extraction date: 07/17/22 13:00:49
Extracted by: 2821

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 : GA046984MIC
Instrument Used : GA-TYM-001 Tempo Filler and Reader
Running on : 07/17/22 13:01:08
Reviewed On : 07/18/22 17:29:35
Batch Date : 07/16/22 14:05:28

Dilution : 90
Reagent : 060122.05
Consumables : 2304270; 2304240; 2306070; 2305240; 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.

Analyzed by: N/A
Weight: N/A
Extraction date: N/A
Extracted by: N/A

Analysis Method : SOP.T.40.041
Analytical Batch : GA046985TYM
Instrument Used : GA-TYM-001 bioMérieux Tempo Filler and Reader
Running on : 07/17/22 12:58:31
Reviewed On : 07/18/22 17:30:00
Batch Date : 07/16/22 14:05:54

Dilution : 90
Reagent : 060122.05
Consumables : 2306070; 2305240; 61630-123C6-123E
Pipette : GA-154

Total yeast and mold testing is performed utilizing MPN and traditional culture based techniques in accordance with F.S. Rule 64ER20-39.

Analyte	LOD	Units	Result	Pass / Fail	Action Level
AFLATOXIN B2	0.002	ppm	ND	PASS	0.02
AFLATOXIN B1	0.002	ppm	ND	PASS	0.02
OCHRATOXIN A	0.002	ppm	ND	PASS	0.02
AFLATOXIN G1	0.002	ppm	ND	PASS	0.02
AFLATOXIN G2	0.002	ppm	ND	PASS	0.02

Analyzed by: 3404, 3134, 3303, 2338, 3298
Weight: 0.8542g
Extraction date: 07/16/22 13:19:22
Extracted by: 3134

Analysis Method : SOP.T.30.101.FL, SOP.T.40.101.FL, SOP.T.30.102.FL, SOP.T.40.102.FL
Analytical Batch : GA046987MYC
Instrument Used : GA-LCMS-002 MYC
Running on : 07/16/22 16:02:42
Reviewed On : 07/17/22 14:35:08
Batch Date : 07/16/22 14:20:17

Dilution : 10
Reagent : 070822.R34; 050621.01; 061922.R01; 061922.R03
Consumables : 947.109; H20364; 9291.271; LLS-00-0005; 89012-780; 29802917; 944C4 944J; 209598; 206639
Pipette : GA-002; GA-006; GA-013; GA-210 Dispenser

Mycotoxins testing utilizing Liquid Chromatography with Triple-Quadrupole Mass Spectrometry in accordance with F.S. Rule 64ER20-39.

	Heavy Metals	PASSED
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Metal	LOD	Units	Result	Pass / Fail	Action Level
ARSENIC	0.02	PPM	ND	PASS	0.2
CADMIUM	0.02	PPM	ND	PASS	0.2
MERCURY	0.02	PPM	ND	PASS	0.2
LEAD	0.05	PPM	ND	PASS	0.5

Analyzed by: 3404, 3571, 3317, 3298, 2338
Weight: 0.4945g
Extraction date: 07/16/22 13:22:17
Extracted by: 3571

Analysis Method : SOP.T.30.081.FL, SOP.T.30.082.FL, SOP.T.40.081.FL, SOP.T.40.082.FL
Analytical Batch : GA046979HEA
Instrument Used : GA-ICPMS-002
Running on : 07/16/22 17:36:04
Reviewed On : 07/17/22 09:19:19
Batch Date : 07/16/22 12:26:39

Dilution : 100
Reagent : 052422.R35; 070522.R18; 010421.51; 071522.04; 071522.R33; 051622.R03; 041722.R01; 042022.R45; 070622.R61
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, 3571, 3192	Weight: 15.2999g	Extraction date: 07/16/22 11:58:01	Extracted by: 3571
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Analysis Method : SOP.T.30.074, SOP.T.40.074
Analytical Batch : GA046976FIL
Instrument Used : GA-Filth/Foreign Material Microscope
Running on : N/A
Reviewed On : 07/18/22 08:20:22
Batch Date : 07/16/22 11:56:50

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	0.643	PASS	0.85

Analyzed by: 3404, 3571, 3192	Weight: 1.5489g	Extraction date: 07/16/22 14:14:40	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 08:24:21
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.