



Certificate of Analysis

Sample: GA20701001-013
Harvest/Lot ID: ORFCC163-2206-10964
Batch#: RNTZ-3U-050122-P2
Cultivation Facility: Gainesville Cultivation
Processing Facility : Gainesville Processing
Seed to Sale# ORFCC163-2206-10964
Batch Date: 06/24/22
Sample Size Received: 16 gram
Total Batch Size: 485 units
Retail Product Size: 1 gram
Ordered : 07/01/22
Sampled : 07/01/22
Completed: 07/03/22
Sampling Method: SOP.T.20.010.FL

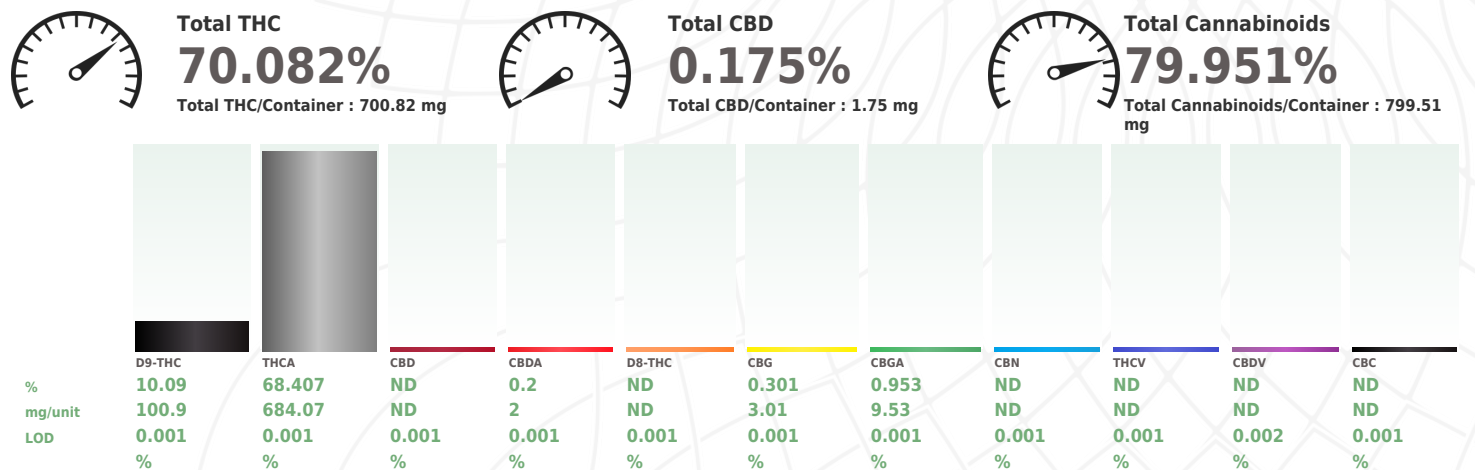
Jul 03, 2022 | Liberty Health Sciences, FL
 18770 N CR 225
 Gainesville, FL, 32609, US


PASSED

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PRODUCT IMAGE	SAFETY RESULTS								MISC.
	 Pesticides PASSED	 Heavy Metals PASSED	 Microbials PASSED	 Mycotoxins PASSED	 Residuals Solvents PASSED	 Filtth PASSED	 Water Activity PASSED	 Moisture NOT TESTED	 Terpenes TESTED

	Cannabinoid	PASSED
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Analyzed by: 3404, 3134, 2507, 3303
Weight: 0.1g
Extraction date: 07/01/22 13:34:34
Extracted by: 3134
Analysis Method : SOP.T.40.031, SOP.T.30.031
Analytical Batch : GA046289POT
Instrument Used : GA-HPLC-001 2030C Plus
Running on : 07/01/22 20:45:35
Dilution : 400
Reagent : 020322.R09; 010421.51; 062822.31; 061122.R33; 062122.R33
Consumables : 947.271; 470228-424; 9291.271; LLS-00-0005; 12455-202CD-202C; R0NB32898; 000000146137; 944C4 944J; 209598; 206639
Pipette : GA-002; GA-006; GA-013; 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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Gainesville, FL, 32609, US

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Email: Qualityassurance@libertyhealthsciences.com

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Sample Method : SOP.T.20.010

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Terpenes

TESTED

Terpenes	LOD (%)	mg/unit	%	Result (%)	Terpenes	LOD (%)	mg/unit	%	Result (%)
CAMPENE	0.007	ND	ND		GERANIOL	0.007	ND	ND	
BETA-MYRCENE	0.007	0.42	0.042		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	3.29	0.329	
OCIMENE	0.007	ND	ND		TRANS-NEROLIDOL	0.007	1.71	0.171	
EUCALYPTOL	0.007	ND	ND		GUAIOL	0.007	<0.2	<0.02	
LINALOOL	0.007	6.99	0.699		Analyzed by: 3404, 3599, 2155, 3205, 1541 Weight: 1.0556g Extraction date: 07/01/22 12:32:51 Extracted by: 3599 Analysis Method : SOP.T.30.061A.FL, SOP.T.40.061A.FL Analytical Batch : GA046287TER Instrument Used : GA-GCMS-002 QP2010S Running on : 07/02/22 17:34:18 Reviewed On : 07/03/22 19:31:17 Batch Date : 07/01/22 12:08:07 Dilution : 50 Reagent : 050322.48 Consumables : 947.109; 470228-424; 9291.271; LLS-00-0005; 210419634; RONB32898; 000000146137; 944C4 944; 210268 Pipette : GA-211 Dispenser Terpenoid testing is performed utilizing Gas Chromatography Mass Spectrometry.				
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	9.17	0.917						
VALENCENE	0.007	ND	ND						
CIS-NEROLIDOL	0.007	ND	ND						
CEDROL	0.007	ND	ND						
FARNESENE	0	1.31	0.131						
CARYOPHYLLENE OXIDE	0.007	0.31	0.031						
ALPHA-BISABOLOL	0.007	0.74	0.074						
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	0.8	0.08						
GAMMA-TERPINENE	0.007	ND	ND						
TERPINOLENE	0.007	0.29	0.029						
SABINENE HYDRATE	0.007	ND	ND						
FENCHYL ALCOHOL	0.007	1.49	0.149						
CAMPHOR	0.013	ND	ND						
BORNEOL	0.013	<0.4	<0.04						
Total (%)			2.804						



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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	5	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
CLOFENTHIZINE	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, 3571, 3303, 3317	1.0048g	07/01/22 12:50:21	3571		
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 : GA046290PES		Reviewed On : 07/02/22 17:48:50			
ETOXAZOLE	0.01	ppm	0.1	PASS	ND	Instrument Used : GA-LCMS-001 PES		Batch Date : 07/01/22 12:12:39			
FENHEXAMID	0.01	ppm	0.1	PASS	ND	Running on : 07/01/22 14:35:51					
FENOXYCARB	0.01	ppm	0.1	PASS	ND	Dilution : 10					
FENPYROXIMATE	0.01	ppm	0.1	PASS	ND	Reagent : 061222.R01; 011122.06; 061422.R02; 060422.R36					
FIPRONIL	0.01	ppm	0.1	PASS	ND	Consumables : GA-210; 947.109; H20364; 9291.271; LLS-00-0005; 210268; 210419634; 296055173					
FLONICAMID	0.01	ppm	0.1	PASS	ND	Pipette : GA-011					
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	N/A	N/A	N/A	N/A		
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 : GA046293VOL		Reviewed On : 07/02/22 11:39:39			
MALATHION	0.01	ppm	0.2	PASS	ND	Instrument Used : GA-GCMS-003		Batch Date : 07/01/22 13:31:39			
METALAXYL	0.01	ppm	0.1	PASS	ND	Running on : 07/01/22 14:40:04					
METHIOCARB	0.01	ppm	0.1	PASS	ND	Dilution : 100					
METHOMYL	0.01	ppm	0.1	PASS	ND	Reagent : 061222.R01; 011122.06; 061422.R02; 060422.R36; 061522.R52					
MEVINPHOS	0.01	ppm	0.1	PASS	ND	Consumables : GA-210; 947.109; H20364; 9291.271; LLS-00-0005; 210268; 210419634; 296055173;					
MYCLOBUTANIL	0.01	ppm	0.1	PASS	ND	944C4 944; 206639; 15144001					
NALED	0.01	ppm	0.25	PASS	ND	Pipette : GA-004; GA-011; GA-146					
OXAMYL	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.					
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						



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Batch# : RNTZ-3U-050122-P2

Sampled : 07/01/22

Ordered : 07/01/22

Sample Size Received : 16 gram

Total Batch Size : 485 units

Completed : 07/03/22 Expires: 07/03/23

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	<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
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 : GA046274SOL

Instrument Used : GA-GCMS-004 QP2020NX

Running on : 07/01/22 14:03:18

Reviewed On : 07/02/22 15:00:08

Batch Date : 07/01/22 11:17:45

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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
PASSED

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 Microbial PASSED						 Mycotoxins 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, 3571, 3303, 3317 Weight: 1.0048g Extraction date: 07/01/22 12:50:21 Extracted by: 3571					
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 : GA046294MYC Reviewed On : 07/02/22 18:24:12 Instrument Used : GA-LCMS-001 MYC Batch Date : 07/01/22 13:31:52 Running on : 07/01/22 14:37:53					
Analyzed by: 3404, 1790, 2821, 1541 Weight: 1.04g Extraction date: 07/01/22 19:22:28 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 : GA046284MIC Reviewed On : 07/03/22 17:20:19 Instrument Used : GA-TYM-001 Tempo Filler and Reader Batch Date : 07/01/22 12:02:20 Running on : 07/01/22 19:25:16						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.					
Dilution : 90 Reagent : 060122.01 Consumables : 2303260; 2303190; 2306070; 2305240; 61630-123C6-123E Pipette : GA-154; GA-213 Microbial testing is performed utilizing various technologies including: PCR, RTPCR, MPN, and traditional culture based techniques in accordance with F.S. Rule 64ER20-39.						 Heavy Metals PASSED					
Analyte	LOD	Units	Result	Pass / Fail	Action Level	Metal	LOD	Units	Result	Pass / Fail	Action Level
ANALYZED BY: N/A						ARSENIC	0.02	PPM	ND	PASS	0.2
ANALYSIS METHOD : SOP.T.40.041						CADMIUM	0.02	PPM	ND	PASS	0.2
ANALYTICAL BATCH : GA046285TYM						MERCURY	0.02	PPM	ND	PASS	0.2
INSTRUMENT USED : GA-TYM-001 bioMérieux Tempo Filler and Reader						LEAD	0.05	PPM	ND	PASS	0.5
RUNNING ON : 07/01/22 19:27:54						Analyzed by: 3404, 3575, 3317, 2338 Weight: 0.4938g Extraction date: 07/01/22 19:23:13 Extracted by: 3575 Analysis Method : SOP.T.30.081.FL, SOP.T.30.082.FL, SOP.T.40.081.FL, SOP.T.40.082.FL Analytical Batch : GA046292HEA Reviewed On : 07/03/22 10:06:54 Instrument Used : GA-ICPMS-002 Batch Date : 07/01/22 12:21:36 Running on : N/A Dilution : 100 Reagent : 052422.R35; 062222.R63; 010421.48; 061621.03; 041622.R02; 051622.R03; 041722.R01; 042022.R45 Consumables : CGR0114; 12455-202CD-202C; L2019501 Pipette : GA-012; GA-183; GA - 194; GA-195; GA-193					
Total yeast and mold testing is performed utilizing MPN and traditional culture based techniques in accordance with F.S. Rule 64ER20-39.						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: 16.1651g	Extraction date: 07/01/22 11:33:27	Extracted by: 3571
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Analysis Method : SOP.T.30.074, SOP.T.40.074

Analytical Batch : GA046277FIL

Instrument Used : GA-Filth/Foreign Material Microscope

Running on : N/A

Reviewed On : 07/01/22 13:41:51

Batch Date : 07/01/22 11:32:13

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	0.621	PASS	0.85

Analyzed by: 3404, 3599, 1541	Weight: 0.639g	Extraction date: 07/01/22 13:05:49	Extracted by: 3599
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Analysis Method : SOP.T.40.019

Analytical Batch : GA046286WAT

Instrument Used : GA-203 Rotronic HygroPalm

Running on : N/A

Reviewed On : 07/01/22 14:53:13

Batch Date : 07/01/22 12:06:06

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.