



Certificate of Analysis

Sample:GA20701001-015
Harvest/Lot ID: ORFCW163-2206-11406
Batch#: RNTZ-3U-050122-3

Cultivation Facility: Gainesville Cultivation

Processing Facility : Gainesville Processing

Seed to Sale# ORFCW163-2206-11406

Batch Date: 06/28/22

Sample Size Received: 16 gram

Total Batch Size: 613 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

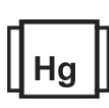
Gainesville, FL, 32609, US


PASSED

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PRODUCT IMAGE

SAFETY RESULTS

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
69.339%
Total THC/Container : 693.39 mg

Total CBD
0.176%
Total CBD/Container : 1.76 mg

Total Cannabinoids
77.917%
Total Cannabinoids/Container : 779.17 mg

	D9-THC	THCA	CBD	CBDa	D8-THC	CBG	CBGA	CBN	THCV	CBDV	CBC
%	21.699	54.322	ND	0.201	ND	0.416	1.11	ND	0.169	ND	ND
mg/unit	216.99	543.22	ND	2.01	ND	4.16	11.1	ND	1.69	ND	ND
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, 3134, 2507, 3303

Weight:
0.1013g

Extraction date:
07/01/22 15:45:49

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

Reviewed On : 07/02/22 11:56:52

Batch Date : 07/01/22 12:11:08

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 944; 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

Telephone: (833) 254-4877

Email: Qualityassurance@libertyhealthsciences.com

Sample : GA20701001-015

Harvest/Lot ID: ORFCW163-2206-11406

Batch# : RNTZ-3U-050122-3

Sampled : 07/01/22

Ordered : 07/01/22

Sample Size Received : 16 gram

Total Batch Size : 613 units

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

Sample Method : SOP.T.20.010

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Terpenes

TESTED

Terpenes	LOD (%)	mg/unit	%	Result (%)	Terpenes	LOD (%)	mg/unit	%	Result (%)
CAMPHENE	0.007	ND	ND		GERANIOL	0.007	ND	ND	
BETA-MYRCENE	0.007	0.52	0.052		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	4.17	0.417	
OCIMENE	0.007	<0.2	<0.02		TRANS-NEROLIDOL	0.007	1.34	0.134	
EUCALYPTOL	0.007	ND	ND		GUAIOL	0.007	0.94	0.094	
LINALOL	0.007	7.79	0.779		Analyzed by: 3404, 3599, 2155, 3205, 1541 Weight: 0.9273g Extraction date: 07/01/22 12:33:30 Extracted by: 3599 Analysis Method : SOP.T.30.061A.FL, SOP.T.40.061A.FL Analytical Batch : GA046287TER Instrument Used : GA-GCMS-002 QP20105 Running on : 07/02/22 17:34:18 Reviewed On : 07/03/22 19:31:27 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	13.39	1.339						
VALENCENE	0.007	ND	ND						
CIS-NEROLIDOL	0.007	ND	ND						
CEDROL	0.007	ND	ND						
FARNESENE	0	1.3	0.13						
CARYOPHYLLENE OXIDE	0.007	0.59	0.059						
ALPHA-BISABOLOL	0.007	1.23	0.123						
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	1.31	0.131						
GAMMA-TERPINENE	0.007	ND	ND						
TERPINOLENE	0.007	0.51	0.051						
SABINENE HYDRATE	0.007	ND	ND						
FENCHYL ALCOHOL	0.007	1.67	0.167						
CAMPHOR	0.013	ND	ND						
BORNEOL	0.013	<0.4	<0.04						
Total (%)			3.631						



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 Harvest/Lot ID: ORFCW163-2206-11406
 Batch# : RNTZ-3U-050122-3 Sample Size Received : 16 gram
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 Sample Method : SOP.T.20.010

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<div>  Pesticides </div>						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
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, 3571, 3303, 3317 Weight: 1.0164g Extraction date: 07/01/22 12:48:56 Extracted by: 3571 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 : GA046290PES Reviewed On : 07/02/22 17:50:45 Instrument Used : GA-LCMS-001 PES Batch Date : 07/01/22 12:12:39 Running on : 07/01/22 14:35:51 Dilution : 10 Reagent : 061222.R01; 011122.06; 061422.R02; 060422.R36 Consumables : GA-210; 947.109; H20364; 9291.271; LLS-00-0005; 210268; 210419634; 296055173 Pipette : GA-011					
DICHLORVOS	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.					
DIMETHOATE	0.01	ppm	0.1	PASS	ND	Analyzed by: N/A Weight: N/A Extraction date: N/A Extracted by: N/A Analysis Method : SOP.T.30.060, SOP.T.40.060 Analytical Batch : GA046293VOL Reviewed On : 07/02/22 11:40:20 Instrument Used : GA-GCMS-003 Batch Date : 07/01/22 13:31:39 Running on : 07/01/22 14:40:04 Dilution : 100 Reagent : 061222.R01; 011122.06; 061422.R02; 060422.R36; 061522.R52 Consumables : GA-210; 947.109; H20364; 9291.271; LLS-00-0005; 210268; 210419634; 296055173; 944C4 944; 206639; 15144001 Pipette : GA-004; GA-011; GA-146					
ETHOPROPHOS	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.					
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						



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Sample : GA20701001-015

Harvest/Lot ID: ORFCW163-2206-11406

Batch# : RNTZ-3U-050122-3

Sampled : 07/01/22

Ordered : 07/01/22

Sample Size Received : 16 gram

Total Batch Size : 613 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 15:00:28

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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 Sample : GA20701001-015
 Harvest/Lot ID: ORFCW163-2206-11406
 Batch# : RNTZ-3U-050122-3
 Sampled : 07/01/22
 Ordered : 07/01/22
 Sample Size Received : 16 gram
 Total Batch Size : 613 units
 Completed : 07/03/22 Expires: 07/03/23
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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, 3571, 3303, 3317	Weight: 1.0164g	Extraction date: 07/01/22 12:48:56		Extracted by: 3571			
Analyzed by: 3404, 1790, 2821, 1541						Analysis Method : SOP.T.30.101.FL, SOP.T.40.101.FL, SOP.T.30.102.FL, SOP.T.40.102.FL						Reviewed On : 07/02/22 18:24:16	
Weight: 1.16g						Analytical Batch : GA046294MYC						Batch Date : 07/01/22 13:31:52	
Extraction date: 07/01/22 19:22:36						Instrument Used : GA-LCMS-001 MYC							
Extracted by: 1790						Running on : 07/01/22 14:37:53							
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 17:20:22													
Batch Date : 07/01/22 12:02:20													
Instrument Used : GA-TYM-001 Tempo Filler and Reader													
Running on : 07/01/22 19:25:16													
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..													
Analyzed by: N/A						Metal							
Weight: N/A						ARSENIC						0.02	
Extraction date: N/A						CADMIUM						0.02	
Extracted by: N/A						MERCURY						0.02	
						LEAD						0.05	
Analysis Method : SOP.T.40.041						Analyzed by: 3404, 3575, 3317, 2338						Weight: 0.4845g	
Analytical Batch : GA046285TYM						Extraction date: 07/01/22 19:32:39							
Reviewed On : 07/03/22 17:21:57						Extracted by: 3575							
Batch Date : 07/01/22 12:03:15						Analysis Method : SOP.T.30.081.FL, SOP.T.30.082.FL, SOP.T.40.081.FL, SOP.T.40.082.FL							
Instrument Used : GA-TYM-001 bioMérieux Tempo Filler and Reader						Analytical Batch : GA046292HEA						Reviewed On : 07/03/22 10:07:05	
Running on : 07/01/22 19:27:54						Batch Date : 07/01/22 12:21:36							
Dilution : 90						Running on : N/A							
Reagent : 060122.01						Dilution : 100							
Consumables : 2304090; 2304090; 61630-123C6-123E						Reagent : 052422.R35; 062222.R63; 010421.48; 061621.03; 041622.R02; 051622.R03; 041722.R01; 042022.R45							
Pipette : GA-154; GA-213						Consumables : CGR0114; 12455-202CD-202C; L2019501							
Total yeast and mold testing is performed utilizing MPN and traditional culture based techniques in accordance with F.S. Rule 64ER20-39.						Pipette : GA-012; GA-183; GA - 194; GA-195; 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: 13.9826g	Extraction date: 07/01/22 11:58:08	Extracted by: 3571
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Analysis Method : SOP.T.30.074, SOP.T.40.074

Analytical Batch : GA046283FIL

Instrument Used : GA-Filth/Foreign Material Microscope

Running on : N/A

Reviewed On : 07/01/22 13:38:22

Batch Date : 07/01/22 11:57:25

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	0.627	PASS	0.85

Analyzed by: 3404, 3599, 1541	Weight: 0.6862g	Extraction date: 07/01/22 13:12:38	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 14:53:15

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.