



Certificate of Analysis

Sample: GA20624001-018
Harvest/Lot ID: HVFV102-2206-10338
Batch#: DF-GRCR-2206-9799
Cultivation Facility: Gainesville Cultivation
Processing Facility: Gainesville Processing
Seed to Sale# HVFV102-2206-10338
Batch Date: 06/20/22
Sample Size Received: 16 gram
Total Batch Size: 2368 gram
Retail Product Size: 1 gram
Ordered: 06/24/22
Sampled: 06/24/22
Completed: 06/27/22
Sampling Method: SOP.T.20.010.FL

Jun 27, 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
81.544%
Total THC/Container : 815.44 mg



Total CBD
0%
Total CBD/Container : 0 mg



Total Cannabinoids
84.828%
Total Cannabinoids/Container : 848.28 mg

	D9-THC	THCA	CBD	CBDA	D8-THC	CBG	CBGA	CBN	THCV	CBDV	CBC
%	81.544	ND	ND	ND	ND	2.142	ND	0.244	0.411	ND	0.487
mg/g	815.44	ND	ND	ND	ND	21.42	ND	2.44	4.11	ND	4.87
LOD	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
%	%	%	%	%	%	%	%	%	%	%	%

<p>Analyzed by: 3404, 3134, 3571, 2507, 3303</p>	<p>Weight: 0.1023g</p>	<p>Extraction date: 06/24/22 15:24:19</p>
<p>Analysis Method: SOP.T.40.031, SOP.T.30.031 Analytical Batch: GA045928POT Instrument Used: GA-HPLC-002 2040C Running on: 06/25/22 10:52:55</p>	<p>Reviewed On: 06/25/22 11:52:19 Batch Date: 06/24/22 12:55:49</p>	
<p>Dilution: 400 Reagent: 020322.R09; 010421.48; 060922.11; 060422.R40; 060822.R51 Consumables: GA-169; 947.271; H20364; 9291.271; LLS-00-0005; 7711028; RONB32898; 000000146137; 944C4 944J; 210268; 206639 Pipette: GA-004; GA-011; GA-146</p>		

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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Terpenes

TESTED

Terpenes	LOD (%)	mg/g	%	Result (%)	Terpenes	LOD (%)	mg/g	%	Result (%)
CAMPHENE	0.007	<0.2	<0.02		GERANIOL	0.007	ND	ND	
BETA-MYRCENE	0.007	12.27	1.227		PULEGONE	0.007	ND	ND	
3-CARENE	0.007	<0.2	<0.02		ALPHA-CEDRENE	0.007	ND	ND	
ALPHA-PHELLANDRENE	0.007	0.91	0.091		ALPHA-HUMULENE	0.007	3.42	0.342	
OCIMENE	0.007	6.42	0.642		TRANS-NEROLIDOL	0.007	ND	ND	
EUCALYPTOL	0.007	ND	ND		GUAIOL	0.007	ND	ND	
LINALOOL	0.007	1.89	0.189						
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	7.28	0.728						
VALENCENE	0.007	5.49	0.549						
CIS-NEROLIDOL	0.007	ND	ND						
CEDROL	0.007	ND	ND						
FARNESENE	0	0.15	0.015						
CARYOPHYLLENE OXIDE	0.007	0.65	0.065						
ALPHA-BISABOLOL	0.007	2.34	0.234						
ALPHA-PINENE	0.007	3.13	0.313						
SABINENE	0.007	ND	ND						
BETA-PINENE	0.007	1.54	0.154						
ALPHA-TERPINENE	0.007	ND	ND						
LIMONENE	0.007	3.98	0.398						
GAMMA-TERPINENE	0.007	ND	ND						
TERPINOLENE	0.007	<0.2	<0.02						
SABINENE HYDRATE	0.007	ND	ND						
FENCHYL ALCOHOL	0.007	0.43	0.043						
CAMPHOR	0.013	ND	ND						
BORNEOL	0.013	ND	ND						
Total (%)			5.031						

Analyzed by: 3404, 3303, 3575, 3209, 3205, 2338, 1541 Weight: 1.02114g Extraction date: 06/24/22 Extracted by: 17:00:443303

Analysis Method : SOP.T.30.061A.FL, SOP.T.40.061A.FL
Analytical Batch : GA045927TER Reviewed On : 06/27/22 08:12:51
Instrument Used : GA-GCMS-002 QP2010S Batch Date : 06/24/22 12:55:24
Running on : 06/25/22 10:21:45

Dilution : 50
Reagent : 060922.R22; 050322.49; 010421.48
Consumables : 947.271; H20364; 9291.271; 210419634; 000000146137; 210268; 944C4 944; 209598
Pipette : DA-146; DA-211; GA-151; GA-182

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						
ETOXYPROX	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, 2338, 1541	Weight: 0.9938g	Extraction date: 06/24/22 16:26:14	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: GA045931PES		Reviewed On: 06/26/22 18:13:04	
Instrument Used: GA-LCMS-001 PES		Batch Date: 06/24/22 12:57:06	
Running on: 06/25/22 10:41:10			

Dilution: 10
Reagent: 060422.R38; 060422.R36; 061222.R01; 011122.06
Consumables: 947.271; 470228-424; 9291.271; LLS-00-0005; 210419634; 296055173; 41064115C41158; 209598; 206639
Pipette: GA-002; GA-005; 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: NA	Weight: NA	Extraction date: NA	Extracted by: NA
Analysis Method: SOP.T.30.060, SOP.T.40.060			
Analytical Batch: GA045948VOL		Reviewed On: 06/26/22 13:05:28	
Instrument Used: GA-GCMS-006		Batch Date: 06/24/22 18:27:09	
Running on: 06/25/22 11:04:48			

Dilution: 100
Reagent: 061222.R01; 011122.06; 061522.R52
Consumables: 947.271; 470228-424; 9291.271; LLS-00-0005; 210419634; 296055173; 41064115C41158; 209598; 206639; 15024701
Pipette: GA-002; GA-005; 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	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
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: NA	Weight:	Extraction date: NA	Extracted by: NA
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Analysis Method : SOP.T.40.041.FL Analytical Batch : GA045934SOL Instrument Used : GA-GCMS-004 QP2020NX Running on : 06/24/22 16:48:30	Reviewed On : 06/25/22 14:02:23 Batch Date : 06/24/22 13:13:50
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Dilution : 1
 Reagent :
 Consumables : 27296; 854996
 Pipette :

Residual solvents analysis is performed utilizing Gas Chromatography Mass Spectrometry in accordance with with F.S. Rule 64ER20-39.



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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, 1790, 3574, 2821, 1541
Weight: 1.01g
Extraction date: 06/24/22 18:14:27
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 : GA045929MIC
Instrument Used : GA-TYM-001 Tempo Filler and Reader
Reviewed On : 06/27/22 13:30:37
Batch Date : 06/24/22 12:55:52

Running on : 06/24/22 18:15:12

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.

Analyzed by: NA
Weight: NA
Extraction date: NA
Extracted by: NA

Analysis Method : SOP.T.40.041
Analytical Batch : GA045930TYM
Instrument Used : GA-TYM-001 bioMérieux Tempo Filler and Reader
Reviewed On : 06/27/22 12:24:23
Batch Date : 06/24/22 12:56:17

Running on : 06/24/22 18:27:15

Dilution : 90
Reagent : 052622.09
Consumables : 2304090; 2304090; GA-185; GA-213; 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, 2338, 1541
Weight: 0.9938g
Extraction date: 06/24/22 16:26:14
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 : GA045949MYC
Instrument Used : GA-LCMS-001 MYC
Reviewed On : 06/27/22 08:15:52
Batch Date : 06/24/22 18:27:15

Running on : 06/25/22 10:41:49

Dilution :
Reagent : aflatoxin_b2; aflatoxin_b1; aflatoxin_g1; aflatoxin_g2
Consumables : 0.02; 0.02; 0.02; 0.02
Pipette :

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, 3317, 3209, 3134, 2338, 1541
Weight: 0.5304g
Extraction date: 06/26/22 11:16:11
Extracted by: 3134

Analysis Method : SOP.T.30.081.FL, SOP.T.30.082.FL, SOP.T.40.081.FL, SOP.T.40.082.FL
Analytical Batch : GA045979HEA
Instrument Used : GA-ICPMS-002
Reviewed On : 06/26/22 17:34:54
Batch Date : 06/25/22 14:43:04

Running on :

Dilution : 100
Reagent : 052422.R35; 062222.R63; 010421.51; 061621.03; 041622.R02; 051622.R03; 041722.R01; 042022.R45

Consumables : CGR0114; 12400-133CD-133C; 209598; L2019501
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, 3209, 1541	Weight: 13.1g	Extraction date: 06/24/22 13:46:17	Extracted by: 3209
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Analysis Method : SOP.T.30.074, SOP.T.40.074
Analytical Batch : GA045925FIL
Instrument Used : GA-Filth/Foreign Material Microscope
Running on :
Reviewed On : 06/24/22 16:07:47
Batch Date : 06/24/22 12:43:14

Dilution : 1
Reagent :
Consumables :
Pipette :

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	0.595	PASS	0.85

Analyzed by: 3404, 3575, 1541	Weight: 0.8497g	Extraction date: 06/25/22 09:13:26	Extracted by: 3575
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Analysis Method : SOP.T.40.019
Analytical Batch : GA045932WAT
Instrument Used : GA-203 Rotronic HygroPalm
Running on :
Reviewed On : 06/25/22 10:27:11
Batch Date : 06/24/22 12:58:24

Dilution : 1
Reagent :
Consumables : 107264
Pipette :

Water Activity is performed using a Rotronic HygroPalm HP 23-AW in accordance with F.S. Rule 64ER20-39.