



Certificate of Analysis

Sample:GA20618001-021
Harvest/Lot ID: ENFV104-2206-9852

Batch#: DF-MT-2206-9474

Cultivation Facility: Gainesville Cultivation

Processing Facility : Gainesville Processing

Seed to Sale# ENFV104-2206-9852

Batch Date: 06/14/22

Sample Size Received: 16 gram

Total Batch Size: 2544 gram

Retail Product Size: 1 gram

Ordered : 06/18/22

Sampled : 06/18/22

Completed: 06/21/22

Sampling Method: SOP.T.20.010.FL

PASSED

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Jun 21, 2022 | Liberty Health Sciences, FL

18770 N CR 225

Gainesville, FL, 32609, US



PRODUCT IMAGE

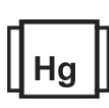


Plastic Box

SAFETY RESULTS



Pesticides
PASSED



Heavy Metals
PASSED



Microbials
PASSED



Mycotoxins
PASSED



Residuals Solvents
PASSED



Filth
PASSED



Water Activity
PASSED



Moisture
NOT TESTED



Terpenes
TESTED



Cannabinoid

PASSED



Total THC

82.402%

Total THC/Container : 824.02 mg



Total CBD

0%

Total CBD/Container : 0 mg



Total Cannabinoids

85.767%

Total Cannabinoids/Container : 857.67 mg

60

%

mg/g

LOD

%

D9-THC	THCA	CBD	CBDA	D8-THC	CBG	CBGA	CBN	THCV	CBDV	CBC
82.402	ND	ND	ND	ND	1.896	ND	0.356	0.519	ND	0.594
824.02	ND	ND	ND	ND	18.96	ND	3.56	5.19	ND	5.94
0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.001
%	%	%	%	%	%	%	%	%	%	%

Analyzed by:
3571, 3134, 3205, 2338

Weight:
0.0982g

Extraction date:
06/19/22 15:46:40

Extracted by:
3134

Analysis Method : SOP.T.40.031, SOP.T.30.031

Analytical Batch : GA045603POT

Instrument Used : GA-HPLC-001 2030C Plus

Running on : 06/19/22 18:57:57

Reviewed On : 06/20/22 15:35:15
Batch Date : 06/18/22 17:31:10

Dilution : 400

Reagent : 061122.R34; 061122.R30; 020322.R09; 060922.12

Consumables : 7711028; 947.217; 470228-424; 9291.197; 110921; R0NB32898; 00321396; GA-169; 12035-035CD-035C; 944C4 944J; 210268; 206639

Pipette : GA-005; GA-151; GA-153

Full Spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with UV detection in accordance with F.S. Rule 64ER20-39.



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 Telephone: (833) 254-4877
 Email: Qualityassurance@libertyhealthsciences.com

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Completed : 06/21/22 Expires: 06/21/23

Sample Method : SOP.T.20.010

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Terpenes

TESTED

Terpenes	LOD (%)	mg/g	%	Result (%)	Terpenes	LOD (%)	mg/g	%	Result (%)
TOTAL TERPINEOL	0.007	1.29	0.129		BORNEOL	0.013	ND	ND	
CAMPHENE	0.007	0.31	0.031		GERANIOL	0.007	ND	ND	
BETA-MYRCENE	0.007	8.25	0.825		PULEGONE	0.007	ND	ND	
3-CARENE	0.007	0.3	0.03		ALPHA-CEDRENE	0.007	ND	ND	
ALPHA-PHELLANDRENE	0.007	0.54	0.054		ALPHA-HUMULENE	0.007	1.14	0.114	
OCIMENE	0.007	ND	ND		TRANS-NEROLIDOL	0.007	ND	ND	
EUCALYPTOL	0.007	ND	ND		GUAIAL	0.007	ND	ND	
LINALOOL	0.007	2.79	0.279		Analized by:	Weight:	Extraction date:	Extracted by:	
FENCHONE	0.007	ND	ND		3571, 2507, 3205, 2338	0.934g	06/18/22 17:38:40	2507	
ISOPULEGOL	0.007	ND	ND		Analysis Method : SOP.T.30.061A.FL, SOP.T.40.061A.FL				
ISOBORNEOL	0.007	ND	ND		Analytical Batch : GA045571TER				
HEXAHYDROTHYMOL	0.007	ND	ND		Instrument Used : GA-GCMS-002 QP2010S				
NEROL	0.007	ND	ND		Running on : 06/18/22 19:24:36				
GERANYL ACETATE	0.007	ND	ND		Dilution : 50				
BETA-CARYOPHYLLENE	0.007	9.77	0.977		Reagent : 050322.49; 010421.48				
VALENCENE	0.007	ND	ND		Consumables : GA-211; 947.109; H20364; 9291.197; 110921; 210419634; RONB32898; 00321396; 944C4 944j; 210268; 206639				
CIS-NEROLIDOL	0.007	ND	ND		Pipette : GA-005; GA-011; GA-146				
CEDROL	0.007	ND	ND		Terpenoid testing is performed utilizing Gas Chromatography Mass Spectrometry.				
FARNESENE	0	<0.01	ND						
CARYOPHYLLENE OXIDE	0.007	0.31	0.031						
ALPHA-BISABOLOL	0.007	2.17	0.217						
ALPHA-PINENE	0.007	1.84	0.184						
SABINENE	0.007	ND	ND						
BETA-PINENE	0.007	2.24	0.224						
ALPHA-TERPINENE	0.007	ND	ND						
LIMONENE	0.007	10.79	1.079						
GAMMA-TERPINENE	0.007	ND	ND						
TERPINOLENE	0.007	1.69	0.169						
SABINENE HYDRATE	0.007	ND	ND						
FENCHYL ALCOHOL	0.007	1.8	0.18						
CAMPHOR	0.013	ND	ND						
Total (%)			4.523						



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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	TOTAL DIMETHOMORPH	0.01	PPM	0.2	PASS	ND
CARBOFURAN	0.01	ppm	0.1	PASS	ND	TOTAL PERMETHRIN	0.01	ppm	0.1	PASS	ND
CHLORANTRANILIPROLE	0.01	ppm	1	PASS	ND	TOTAL SPINETORAM	0.01	PPM	0.2	PASS	ND
CHLORMEQUAT CHLORIDE	0.01	ppm	1	PASS	ND	TOTAL SPINOSAD	0.01	ppm	0.1	PASS	ND
CHLORPYRIFOS	0.01	ppm	0.1	PASS	ND	TRIFLOXYSTROBIN	0.01	ppm	0.1	PASS	ND
CLOFENTEZINE	0.01	ppm	0.2	PASS	ND	PENTACHLORONITROBENZENE (PCNB) *	0.01	PPM	0.15	PASS	ND
COUMAPHOS	0.01	ppm	0.1	PASS	ND	PARATHION-METHYL *	0.01	PPM	0.1	PASS	ND
DAMINOZIDE	0.01	ppm	0.1	PASS	ND	CAPTAN *	0.07	PPM	0.7	PASS	ND
DIAZINON	0.01	ppm	0.1	PASS	ND	CHLORDANE *	0.01	PPM	0.1	PASS	ND
DICHLORVOS	0.01	ppm	0.1	PASS	ND	CHLORFENAPYR *	0.01	PPM	0.1	PASS	ND
DIMETHOATE	0.01	ppm	0.1	PASS	ND	CYFLUTHRIN *	0.05	PPM	0.5	PASS	ND
ETHOPROPHOS	0.01	ppm	0.1	PASS	ND	CYPERMETHRIN *	0.05	PPM	0.5	PASS	ND
ETOFENPROX	0.01	ppm	0.1	PASS	ND						
ETOXAZOLE	0.01	ppm	0.1	PASS	ND	Analyzed by:	Weight:	Extraction date:	Extracted by:		
FENHEXAMID	0.01	ppm	0.1	PASS	ND	3571, 3134, 2338, 3298	1.093g	06/19/22 11:26:31	3134		
FENOXYCARB	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					
FENPYROXIMATE	0.01	ppm	0.1	PASS	ND	Analytical Batch : GA045608PES		Reviewed On : 06/20/22 13:11:51			
FIPRONIL	0.01	ppm	0.1	PASS	ND	Instrument Used : GA-LCMS-001 PES		Batch Date : 06/18/22 19:27:09			
FLONICAMID	0.01	ppm	0.1	PASS	ND	Running on : 06/19/22 14:50:45					
FLUDIOXONIL	0.01	ppm	0.1	PASS	ND	Dilution : 10					
HEXYTHIAZOX	0.01	ppm	0.1	PASS	ND	Reagent : 060222.R23; 011122.06; 052322.R01; 060422.R35					
IMAZALIL	0.01	ppm	0.1	PASS	ND	Consumables : 947.271; 470228-424; 9291.271; 110921; 210419634; 296055173; 41064115C4115B; 209598; 206639					
IMIDACLOPRID	0.01	ppm	0.4	PASS	ND	Pipette : GA-002; GA-006; GA-013; GA-210 Dispenser					
KRESOXIM-METHYL	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.					
MALATHION	0.01	ppm	0.2	PASS	ND	Analyzed by:	Weight:	Extraction date:	Extracted by:		
METALAXYL	0.01	ppm	0.1	PASS	ND	NA	NA	NA	NA		
METHIOCARB	0.01	ppm	0.1	PASS	ND	Analysis Method : SOP.T.30.060, SOP.T.40.060					
METHOMYL	0.01	ppm	0.1	PASS	ND	Analytical Batch : GA045615VOL		Reviewed On : 06/20/22 13:15:33			
MEVINPHOS	0.01	ppm	0.1	PASS	ND	Instrument Used : GA-GCMS-006		Batch Date : 06/19/22 12:45:54			
MYCLOBUTANIL	0.01	ppm	0.1	PASS	ND	Running on : 06/20/22 09:56:19					
NALED	0.01	ppm	0.25	PASS	ND	Dilution : 100					
OXAMYL	0.01	ppm	0.5	PASS	ND	Reagent : 060222.R23; 011122.06; 061522.R52					
PACLOBUTRAZOL	0.01	ppm	0.1	PASS	ND	Consumables : 947.271; 470228-424; 9291.271; 110921; 210419634; 296055173; 41064115C4115B; 209598; 206639; 15024701					
PHOSMET	0.01	ppm	0.1	PASS	ND	Pipette : GA-002; GA-005; GA-013					
PIPERONYL BUTOXIDE	0.01	ppm	3	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.					
PRALLETHRIN	0.01	ppm	0.1	PASS	ND						



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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
TOTAL XYLENES	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

Analysis Method : SOP.T.40.041.FL

Analytical Batch : GA045586SOL

Instrument Used : GA-GCMS-001 Headspace Solvent

Running on : 06/18/22 17:39:55

Reviewed On : 06/19/22 15:14:07

Batch Date : 06/18/22 12:21:26

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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
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							
TOTAL YEAST AND MOLD	10	CFU/g	<10	PASS	100000						
Analyzed by: 3571, 2821, 1541 Weight: 1g Extraction date: 06/19/22 10:57:26 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 : GA045590MIC Instrument Used : GA-TYM-001 Tempo Filler and Reader Running on : 06/19/22 10:58:55 Dilution : 90 Reagent : 060122.12 Consumables : 2304090; 2304090; 61630-123C6-123E; 2303260; 2303190 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: 3571, 3134, 2338, 3298 Weight: 1.093g Extraction date: 06/19/22 11:26:31 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 : GA045618MYC Instrument Used : GA-LCMS-001 MYC Running on : 06/19/22 14:51:57 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.					
Analyzed by: NA Weight: NA Extraction date: NA Extracted by: NA Analysis Method : SOP.T.40.041 Analytical Batch : GA045591TYM Instrument Used : GA-TYM-001 bioMérieux Tempo Filler and Reader Running on : 06/19/22 10:58:59 Dilution : 90 Reagent : 060122.12 Consumables : 2304090; 2304090; 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.						Analyzed by: 3571, 3134, 2338, 3298 Weight: 0.4823g Extraction date: 06/19/22 17:16:16 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 : GA045609HEA Instrument Used : GA-ICPMS-002 Running on : 06/20/22 09:41:21 Dilution : 100 Reagent : 052422.R35; 061422.R22; 010421.51; 041622.R02; 051622.R03; 041722.R01; 042022.R45; 061621.03 Consumables : CGR0114; 12035-035CD-035C; 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.					
						 Heavy Metals PASSED					
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						



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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:	Weight:	Extraction date:	Extracted by:
3571, 3303	9.908g	06/18/22 14:43:13	3571

Analysis Method : SOP.T.30.074, SOP.T.40.074

Analytical Batch : GA045594FIL

Instrument Used : GA-Filth/Foreign Material Microscope

Running on :

Reviewed On : 06/18/22 14:59:51

Batch Date : 06/18/22 14:42:42

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	0.506	PASS	0.85

Analyzed by:	Weight:	Extraction date:	Extracted by:
3571, 3134	1.4058g	06/18/22 20:16:17	3571

Analysis Method : SOP.T.40.019

Analytical Batch : GA045606WAT

Instrument Used : GA-085 Rotronic HygroPalm

Running on :

Reviewed On : 06/20/22 15:29:45

Batch Date : 06/18/22 18:25:56

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.