



Certificate of Analysis

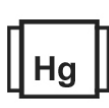
Sample:GA20625001-010
Harvest/Lot ID: HVFV120-2206-10560
Batch#: DF-HGSC-2206-9802
Cultivation Facility: Gainesville Cultivation
Processing Facility : Gainesville Processing
Seed to Sale# HVFV120-2206-10560
Batch Date: 06/22/22
Sample Size Received: 16 gram
Total Batch Size: 2196 gram
Retail Product Size: 1 gram
Ordered : 06/25/22
Sampled : 06/25/22
Completed: 06/28/22
Sampling Method: SOP.T.20.010.FL
PASSED

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Jun 28, 2022 | Liberty Health Sciences, FL
18770 N CR 225
Gainesville, FL, 32609, US

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
85.874%
Total THC/Container : 858.74 mg

Total CBD
0.266%
Total CBD/Container : 2.66 mg

Total Cannabinoids
90.813%
Total Cannabinoids/Container : 908.13 mg

	D9-THC	THCA	CBD	CBDA	D8-THC	CBG	CBGA	CBN	THCV	CBDV	CBC
%	85.874	ND	0.266	ND	ND	3.078	ND	0.429	0.505	ND	0.661
mg/g	858.74	ND	2.66	ND	ND	30.78	ND	4.29	5.05	ND	6.61
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, 2821, 3205, 2338

Weight:
0.0951g

Extraction date:
06/26/22 12:58:27

Extracted by:
2821

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

Analytical Batch : GA045954POT

Instrument Used : GA-HPLC-003 2030C PDA

Running on : 06/26/22 15:00:31

Reviewed On : 06/27/22 11:55:41

Batch Date : 06/25/22 08:19:39

Dilution : 400

Reagent : 020322.R09; 010421.48; 060922.11; 061122.R32; 061122.R29

Consumables : 947.271; 470228-424; 9291.271; LLS-00-0005; 12400-133CD-133C; R0NB32898; 000000146137; 41064115C4115B; 210268; 206639

Pipette : GA-005; GA-149; GA-153; 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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18770 N CR 225

Gainesville, FL, 32609, US

Telephone: (833) 254-4877

Email: Qualityassurance@libertyhealthsciences.com

Sample : GA20625001-010

Harvest/Lot ID: HVFV120-2206-10560

Batch# : DF-HGSC-2206-9802 Sample Size Received : 16 gram

Sampled : 06/25/22

Ordered : 06/25/22

Total Batch Size : 2196 gram

Completed : 06/28/22 Expires: 06/28/23

Sample Method : SOP.T.20.010

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Terpenes

TESTED

Terpenes	LOD (%)	mg/g	%	Result (%)	Terpenes	LOD (%)	mg/g	%	Result (%)
CAMPHENE	0.007	ND	ND		GERANIOL	0.007	ND	ND	
BETA-MYRCENE	0.007	1.23	0.123		PULEGONE	0.007	ND	ND	
3-CARENE	0.007	ND	ND		ALPHA-CEDRENE	0.007	<0.2	<0.02	
ALPHA-PHELLANDRENE	0.007	ND	ND		ALPHA-HUMULENE	0.007	3.43	0.343	
OCIMENE	0.007	ND	ND		TRANS-NEROLIDOL	0.007	2.95	0.295	
EUCALYPTOL	0.007	ND	ND		GUAJOL	0.007	0.71	0.071	
LINALOOL	0.007	4.7	0.47		Analyzed by: 3404, 3134, 3205, 2338				
FENCHONE	0.007	ND	ND		Weight: 0.8494g				
ISOPULEGOL	0.007	ND	ND		Extraction date: 06/26/22 10:16:46				
ISOBORNEOL	0.007	ND	ND		Extracted by: 3134				
HEXAHYDROTHYMOL	0.007	ND	ND		Analysis Method : SOP.T.30.061A.FL, SOP.T.40.061A.FL				
NEROL	0.007	ND	ND		Analytical Batch : GA045975TER				
GERANYL ACETATE	0.007	0.37	0.037		Instrument Used : GA-GCMS-002 QP2010S				
BETA-CARYOPHYLLENE	0.007	12.54	1.254		Running on : 06/26/22 12:30:28				
VALENCENE	0.007	1.38	0.138		Dilution : 50				
CIS-NEROLIDOL	0.007	0.75	0.075		Reagent : 060922.R22; 050322.49; 010421.51				
CEDROL	0.007	0.73	0.073		Consumables : 947.271; H20364; 9291.271; LLS-00-0005; 210419634; R0NB32898; 000000146137; 944C4 944j; 209598; 206639				
FARNESENE	0	0.87	0.087		Reviewed On : 06/27/22 12:03:20				
CARYOPHYLLENE OXIDE	0.007	0.65	0.065		Batch Date : 06/25/22 14:24:48				
ALPHA-BISABOLOL	0.007	1.66	0.166		Pipette : GA-002; GA-006; GA-013; GA-211 Dispenser				
ALPHA-PINENE	0.007	0.5	0.05		Terpenoid testing is performed utilizing Gas Chromatography Mass Spectrometry.				
SABINENE	0.007	ND	ND						
BETA-PINENE	0.007	0.72	0.072						
ALPHA-TERPINENE	0.007	ND	ND						
LIMONENE	0.007	6.25	0.625						
GAMMA-TERPINENE	0.007	ND	ND						
TERPINOLENE	0.007	ND	ND						
SABINENE HYDRATE	0.007	ND	ND						
FENCHYL ALCOHOL	0.007	0.91	0.091						
CAMPHOR	0.013	ND	ND						
BORNEOL	0.013	ND	ND						
Total (%)			4.122						



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 Sample : GA20625001-010
 Harvest/Lot ID: HVFV120-2206-10560
 Batch# : DF-HGSC-2206-9802 Sample Size Received : 16 gram
 Sampled : 06/25/22 Total Batch Size : 2196 gram
 Ordered : 06/25/22 Completed : 06/28/22 Expires: 06/28/23
 Sample Method : SOP.T.20.010

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<div>  Pesticides </div>						<div> PASSED </div>					
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	Analyzed by: 3404, 3134, 2338, 3298 Weight: 0.9675g Extraction date: 06/26/22 13:21:27 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 : GA045980PES Reviewed On : 06/27/22 10:59:30 Instrument Used : GA-LCMS-001 PES Batch Date : 06/25/22 14:44:21 Running on : 06/26/22 18:06:12 Dilution : 10 Reagent : 061222.R01; 050621.01; 060422.R38; 060422.R36 Consumables : 947.271; 470228-424; 9291.271; LLS-00-0005; 210419634; 296055173; 41064115C4115B; 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.					
DICHLORVOS	0.01	ppm	0.1	PASS	ND	Analyzed by: NA Weight: NA Extraction date: NA Extracted by: NA Analysis Method : SOP.T.30.060, SOP.T.40.060 Analytical Batch : GA046004VOL Reviewed On : 06/27/22 10:57:21 Instrument Used : GA-GCMS-006 Batch Date : 06/26/22 16:27:02 Running on : 06/26/22 18:10:22 Dilution : 100 Reagent : 061222.R01; 050621.01; 061522.R52 Consumables : 947.271; 470228-424; 9291.271; LLS-00-0005; 210419634; 296055173; 41064115C4115B; 209598; 206639; 15024701 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.					
DIMETHOATE	0.01	ppm	0.1	PASS	ND						
ETHOPROPHOS	0.01	ppm	0.1	PASS	ND						
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						
PROPICONAZOLE	0.01	ppm	0.1	PASS	ND						



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Sample : GA20625001-010

Harvest/Lot ID: HVFV120-2206-10560

Batch# : DF-HGSC-2206-9802 Sample Size Received : 16 gram

Sampled : 06/25/22

Ordered : 06/25/22

Total Batch Size : 2196 gram

Completed : 06/28/22 Expires: 06/28/23

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	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

Analysis Method : SOP.T.40.041.FL

Analytical Batch : GA045974SOL

Instrument Used : GA-GCMS-004 QP2020NX

Running on : 06/25/22 15:51:35

Reviewed On : 06/26/22 13:15:00

Batch Date : 06/25/22 14:04:02

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 : GA20625001-010
 Harvest/Lot ID: HVFV120-2206-10560
 Batch# : DF-HGSC-2206-9802
 Sampled : 06/25/22
 Ordered : 06/25/22
 Sample Size Received : 16 gram
 Total Batch Size : 2196 gram
 Completed : 06/28/22 Expires: 06/28/23
 Sample Method : SOP.T.20.010

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<div></div> <div>Microbial</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, 1790, 3574, 1541 Weight: 0.86g Extraction date: 06/25/22 17:21:15 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 : GA045976MIC Instrument Used : GA-TYM-001 Tempo Filler and Reader Running on : 06/25/22 17:21:44 Dilution : 90 Reagent : 052622.09 Consumables : 2303260; 2303190; 2304090; 2306070; 2304090; 2305240; 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: 3404, 3134, 2338, 3298 Weight: 0.9675g Extraction date: 06/26/22 13:21:27 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 : GA046005MYC Instrument Used : GA-LCMS-001 MYC Running on : 06/26/22 18:14:16 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 : GA045977TYM Instrument Used : GA-TYM-001 bioMérieux Tempo Filler and Reader Running on : 06/25/22 17:19:42 Dilution : 90 Reagent : 052622.09 Consumables : 2304090; 2306070; 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.						Analyzed by: 3404, 3134, 2338, 1541 Weight: 0.5217g Extraction date: 06/26/22 11:12:43 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 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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Sample : GA20625001-010

Harvest/Lot ID: HVFV120-2206-10560

Batch# : DF-HGSC-2206-9802 **Sample Size Received :** 16 gram

Sampled : 06/25/22

Ordered : 06/25/22

Total Batch Size : 2196 gram

Completed : 06/28/22 **Expires:** 06/28/23

Sample Method : SOP.T.20.010

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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, 3575, 1541	Weight: 5.8504g	Extraction date: 06/25/22 13:29:51	Extracted by: 3575
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Analysis Method : SOP.T.30.074, SOP.T.40.074

Analytical Batch : GA045971FIL

Instrument Used : GA-Filth/Foreign Material Microscope

Running on :
Reviewed On : 06/25/22 18:23:54

Batch Date : 06/25/22 13:29:24

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	0.581	PASS	0.85

Analyzed by: 3404, 3134, 3192	Weight: 0.5888g	Extraction date: 06/26/22 16:15:56	Extracted by: 3134
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Analysis Method : SOP.T.40.019

Analytical Batch : GA045978WAT

Instrument Used : GA-203 Rotronic HygroPalm

Running on :
Reviewed On : 06/27/22 13:02:48

Batch Date : 06/25/22 14:40:53

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.