



# Certificate of Analysis

**Sample:** GA20625001-006  
**Harvest/Lot ID:** HVFV108-2206-10608

**Batch#:** DF-DUTR-2206-9784

**Cultivation Facility:** Gainesville Cultivation

**Processing Facility :** Gainesville Processing

**Seed to Sale#** HVFV108-2206-10608

**Batch Date:** 06/24/22

**Sample Size Received:** 16 gram

**Total Batch Size:** 2212 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

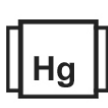
**PASSED**

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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**

Filtr  
**PASSED**

Water Activity  
**PASSED**

Moisture  
**NOT TESTED**

Terpenes  
**TESTED**
**MISC.**

**Cannabinoid**
**PASSED**

**Total THC**
**88.074%**

Total THC/Container : 880.74 mg


**Total CBD**
**0%**

Total CBD/Container : 0 mg


**Total Cannabinoids**
**92.513%**

Total Cannabinoids/Container : 925.13 mg

	D9-THC	THCA	CBD	CBDA	D8-THC	CBG	CBGA	CBN	THCV	CBDV	CBC
%	88.074	ND	ND	ND	ND	2.861	ND	0.394	0.602	ND	0.582
mg/g	880.74	ND	ND	ND	ND	28.61	ND	3.94	6.02	ND	5.82
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:  
0.0986g

Extraction date:  
06/26/22 12:51:18

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 11:54:55

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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Liberty Health Sciences, FL

 18770 N CR 225  
 Gainesville, FL, 32609, US  
**Telephone:** (833) 254-4877  
**Email:** Qualityassurance@libertyhealthsciences.com

**Sample :** GA20625001-006  
**Harvest/Lot ID:** HVFV108-2206-10608  
**Batch# :** DF-DUTR-2206-9784 **Sample Size Received :** 16 gram  
**Sampled :** 06/25/22 **Total Batch Size :** 2212 gram  
**Ordered :** 06/25/22 **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 (%)
CAMPENE	0.007	<0.2	<0.02		GERANIOL	0.007	ND	ND	
BETA-MYRCENE	0.007	6.33	0.633		PULEGONE	0.007	ND	ND	
3-CARENE	0.007	0.86	0.086		ALPHA-CEDRENE	0.007	ND	ND	
ALPHA-PHELLANDRENE	0.007	1.16	0.116		ALPHA-HUMULENE	0.007	0.7	0.07	
OCIMENE	0.007	0.21	0.021		TRANS-NEROLIDOL	0.007	ND	ND	
EUCALYPTOL	0.007	ND	ND		GUAJOL	0.007	0.31	0.031	
LINALOOL	0.007	1.28	0.128		Analyzed by: 3404, 3134, 3205, 2338      Weight: 0.9996g      Extraction date: 06/26/22 10:15:47      Extracted by: 3134				
FENCHONE	0.007	ND	ND		Analysis Method : SOP.T.30.061A.FL, SOP.T.40.061A.FL Analytical Batch : GA045975TER Instrument Used : GA-GCMS-002 QP2010S Running on : 06/26/22 12:30:28 Reviewed On : 06/27/22 12:03:10 Batch Date : 06/25/22 14:24:48				
ISOPULEGOL	0.007	ND	ND		Dilution : 50 Reagent : 060922.R22; 050322.49; 010421.51 Consumables : 947.271; H20364; 9291.271; LLS-00-0005; 210419634; R0NB32898; 000000146137; 944C4 944; 209598; 206639 Pipette : GA-002; GA-006; GA-013; GA-211 Dispenser				
ISOBORNEOL	0.007	ND	ND		Terpenoid testing is performed utilizing Gas Chromatography Mass Spectrometry.				
HEXAHYDROTHYMOL	0.007	ND	ND						
NEROL	0.007	ND	ND						
GERANYL ACETATE	0.007	ND	ND						
BETA-CARYOPHYLLENE	0.007	3.4	0.34						
VALENCENE	0.007	1.28	0.128						
CIS-NEROLIDOL	0.007	ND	ND						
CEDROL	0.007	ND	ND						
FARNESENE	0	0.26	0.026						
CARYOPHYLLENE OXIDE	0.007	0.47	0.047						
ALPHA-BISABOLOL	0.007	1.11	0.111						
ALPHA-PINENE	0.007	1.38	0.138						
SABINENE	0.007	ND	ND						
BETA-PINENE	0.007	0.77	0.077						
ALPHA-TERPINENE	0.007	0.28	0.028						
LIMONENE	0.007	4.07	0.407						
GAMMA-TERPINENE	0.007	<0.2	<0.02						
TERPINOLENE	0.007	14.46	1.446						
SABINENE HYDRATE	0.007	ND	ND						
FENCHYL ALCOHOL	0.007	0.7	0.07						
CAMPHOR	0.013	ND	ND						
BORNEOL	0.013	ND	ND						
Total (%)				3.963					



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 Sample : GA20625001-006  
 Harvest/Lot ID: HVFV108-2206-10608  
 Batch# : DF-DUTR-2206-9784 Sample Size Received : 16 gram  
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 Ordered : 06/25/22 Completed : 06/28/22 Expires: 06/28/23  
 Sample Method : SOP.T.20.010

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<div>  <b>Pesticides</b> </div>						<b>PASSED</b>					
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: 1.0477g Extraction date: 06/26/22 13:15:27 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 10:58:53 Instrument Used : GA-LCMS-001 PES Batch Date : 06/25/22 14:44:21 Running on : 06/26/22 18:06:12					
DICHLORVOS	0.01	ppm	0.1	PASS	ND	Dilution : 10 Reagent : 061222.R01; 050621.01; 060422.R38; 060422.R36 Consumables : 947.271; 470228-424; 9291.271; LLS-00-0005; 210419634; 296055173; 41064115C41158; 209598; 206639 Pipette : GA-002; GA-006; GA-013; GA-210 Dispenser					
DIMETHOATE	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.					
ETHOPROPHOS	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 10:57:13 Instrument Used : GA-GCMS-006 Batch Date : 06/26/22 16:27:02 Running on : 06/26/22 18:10:22					
ETOFENPROX	0.01	ppm	0.1	PASS	ND	Dilution : 100 Reagent : 061222.R01; 050621.01; 061522.R52 Consumables : 947.271; 470228-424; 9291.271; LLS-00-0005; 210419634; 296055173; 41064115C41158; 209598; 206639; 15024701 Pipette : GA-002; GA-006; GA-013; GA-210 Dispenser					
ETOXAZOLE	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.					
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 : GA20625001-006

Harvest/Lot ID: HVFV108-2206-10608

Batch# : DF-DUTR-2206-9784 Sample Size Received : 16 gram

Sampled : 06/25/22

Ordered : 06/25/22

Total Batch Size : 2212 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	<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:  
 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 13:14:23

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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
**PASSED**

Liberty Health Sciences, FL

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 Gainesville, FL, 32609, US  
 Telephone: (833) 254-4877  
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 Sample : GA20625001-006  
 Harvest/Lot ID: HVFV108-2206-10608  
 Batch# : DF-DUTR-2206-9784  
 Sampled : 06/25/22  
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 Sample Method : SOP.T.20.010

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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		Analyzed by: 3404, 3134, 2338, 3298Weight: 1.0477gExtraction date: 06/26/22 13:15:27Extracted by: 3134					
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 : GA046005MYCReviewed On : 06/27/22 11:01:05 Instrument Used : GA-LCMS-001 MYCBatch Date : 06/26/22 16:27:06 Running on : 06/26/22 18:14:16					
Analyzed by: 3404, 1790, 3574, 1541Weight: 1.02gExtraction date: 06/25/22 17:20:40Extracted 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 : GA045976MICReviewed On : 06/28/22 15:12:41 Instrument Used : GA-TYM-001 Tempo Filler and ReaderBatch Date : 06/25/22 14:36:23 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						Mycotoxins testing utilizing Liquid Chromatography with Triple-Quadrupole Mass Spectrometry in accordance with F.S. Rule 64ER20-39.					
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: NAAWeight: NAEExtraction date: NAEExtracted by: NAE Analysis Method : SOP.T.40.041 Analytical Batch : GA045977TYMReviewed On : 06/28/22 15:13:13 Instrument Used : GA-TYM-001 bioMérieux Tempo Filler and ReaderBatch Date : 06/25/22 14:36:40 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.											
						<div></div> <div>Heavy Metals</div> <div>PASSED</div>					
Metal	LOD	Units	Result	Pass / Fail	Action Level	Metal	LOD	Units	Result	Pass / Fail	Action Level
ARSENIC	0.02	PPM	ND	PASS	0.2	ARSENIC	0.02	PPM	ND	PASS	0.2
CADMIUM	0.02	PPM	ND	PASS	0.2	CADMIUM	0.02	PPM	ND	PASS	0.2
MERCURY	0.02	PPM	ND	PASS	0.2	MERCURY	0.02	PPM	ND	PASS	0.2
LEAD	0.05	PPM	ND	PASS	0.5	LEAD	0.05	PPM	ND	PASS	0.5
Analyzed by: 3404, 3134, 2338, 1541Weight: 0.5574gExtraction date: 06/26/22 11:04:24Extracted 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 : GA045979HEAReviewed On : 06/26/22 17:35:15 Instrument Used : GA-ICPMS-002Batch 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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Batch# : DF-DUTR-2206-9784

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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, 3209, 1541	Weight: 11.7g	Extraction date: 06/25/22 14:16:07	Extracted by: 3209
----------------------------------	------------------	---------------------------------------	-----------------------

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

Analytical Batch : GA045964FIL

Instrument Used : GA-Filth/Foreign Material Microscope

Running on :

Reviewed On : 06/25/22 18:23:51

Batch Date : 06/25/22 12:34:18

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: 1.0881g	Extraction date: 06/26/22 16:11:36	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 13:02:21

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.