



# Certificate of Analysis

**Sample:**GA20628001-017

**Harvest/Lot ID:** HVFV106-2206-10549

**Batch#:** DF-LECO-2206-9742

**Cultivation Facility:** Gainesville Cultivation

**Processing Facility :** Gainesville Processing

**Seed to Sale#** HVFV106-2206-10549

**Batch Date:** 06/21/22

**Sample Size Received:** 16 gram

**Total Batch Size:** 2550 units

**Retail Product Size:** 1 gram

**Ordered :** 06/28/22

**Sampled :** 06/28/22



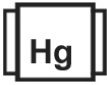







**Completed:** 07/01/22

**Sampling Method:** SOP.T.20.010.FL


Jul 01, 2022 | Liberty Health Sciences, FL  
18770 N CR 225  
Gainesville, FL, 32609, US

**PASSED**

Page 1 of 6

PRODUCT IMAGE	SAFETY RESULTS								MISC.
									
	Pesticides <b>PASSED</b>	Heavy Metals <b>PASSED</b>	Microbials <b>PASSED</b>	Mycotoxins <b>PASSED</b>	Residuals Solvents <b>PASSED</b>	Filtration <b>PASSED</b>	Water Activity <b>PASSED</b>	Moisture <b>NOT TESTED</b>	Terpenes <b>TESTED</b>

	<b>Cannabinoid</b>	<b>PASSED</b>
--	--------------------	---------------

	<b>Total THC</b> <b>81.117%</b> Total THC/Container : 811.17 mg		<b>Total CBD</b> <b>0.202%</b> Total CBD/Container : 2.02 mg		<b>Total Cannabinoids</b> <b>86.367%</b> Total Cannabinoids/Container : 863.67 mg
--	---	---	--	---	---

	D9-THC	THCA	CBD	CBDA	D8-THC	CBG	CBGA	CBN	THCV	CBDV	CBC
%	81.117	ND	0.202	ND	ND	2.672	ND	0.593	0.767	ND	1.016
mg/unit	811.17	ND	2.02	ND	ND	26.72	ND	5.93	7.67	ND	10.16
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, 3575, 2507, 3303	Weight: 0.1024g	Extraction date: 06/29/22 11:18:17	Extracted by: 3575
--	--------------------	---------------------------------------	-----------------------

Analysis Method : SOP.T.40.031, SOP.T.30.031	Reviewed On : 06/30/22 11:01:55
Analytical Batch : GA046054POT	Batch Date : 06/28/22 09:22:38
Instrument Used : GA-HPLC-001 2030C Plus	
Running on : 06/29/22 13:50:25	

Dilution : 400	
Reagent : 020322.R09; 010421.48; 062822.31; 061122.R33; 062122.R33	
Consumables : 947.271; H20364; 9291.271; LLS-00-0005; 12455-202CD-202C; R0NB32898; 000000146137; 944C4 944J; 210268; 212938; 206639	
Pipette : GA-011; GA-146; GA-182	

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



# Certificate of Analysis

**PASSED**

Liberty Health Sciences, FL

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

Sample : GA20628001-017  
Harvest/Lot ID: HVFV106-2206-10549  
Batch# : DF-LECO-2206-9742 Sample Size Received : 16 gram  
Sampled : 06/28/22 Total Batch Size : 2550 units  
Ordered : 06/28/22 Completed : 07/01/22 Expires: 07/01/23  
Sample Method : SOP.T.20.010

Page 2 of 6



## Terpenes

**TESTED**

Terpenes	LOD (%)	mg/unit	%	Result (%)	Terpenes	LOD (%)	mg/unit	%	Result (%)
TOTAL TERPINEOL	0.007	0.59	0.059		BORNEOL	0.013	ND	ND	
CAMPENE	0.007	ND	ND		GERANIOL	0.007	ND	ND	
BETA-MYRCENE	0.007	1.68	0.168		PULEGONE	0.007	ND	ND	
3-CARENE	0.007	0.63	0.063		ALPHA-CEDRENE	0.007	ND	ND	
ALPHA-PHELLANDRENE	0.007	0.76	0.076		ALPHA-HUMULENE	0.007	2.23	0.223	
OCIMENE	0.007	ND	ND		TRANS-NEROLIDOL	0.007	ND	ND	
EUCALYPTOL	0.007	ND	ND		GUAJOL	0.007	ND	ND	
LINALOL	0.007	0.73	0.073						
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	11.37	1.137						
VALENCENE	0.007	0.67	0.067						
CIS-NEROLIDOL	0.007	ND	ND						
CEDROL	0.007	ND	ND						
FARNESENE	0	1.69	0.169						
CARYOPHYLLENE OXIDE	0.007	0.58	0.058						
ALPHA-BISABOLOL	0.007	1.03	0.103						
ALPHA-PINENE	0.007	0.87	0.087						
SABINENE	0.007	ND	ND						
BETA-PINENE	0.007	1.49	0.149						
ALPHA-TERPINENE	0.007	0.35	0.035						
LIMONENE	0.007	2.16	0.216						
GAMMA-TERPINENE	0.007	<0.2	<0.02						
TERPINOLENE	0.007	13.85	1.385						
SABINENE HYDRATE	0.007	ND	ND						
FENCHYL ALCOHOL	0.007	0.57	0.057						
CAMPOR	0.013	ND	ND						
<b>Total (%)</b>			<b>4.125</b>						

<b>Analysis Method:</b> SOP.T.30.061A.FL, SOP.T.40.061A.FL <b>Analytical Batch:</b> GA046099TER <b>Instrument Used:</b> GA-GCMS-002 QP2010S <b>Running on:</b> 06/29/22 16:19:54 <b>Dilution:</b> 50 <b>Reagent:</b> 060922.R22; 050322.49; 010421.48 <b>Consumables:</b> 947.271; H20364; 9291.271; LLS-00-0005; 89012-780; RONB32898; 000000146137; 944C4 944J; 210268; 206639 <b>Pipette:</b> GA-005; GA-149; GA-153; GA-150; GA-211 Dispenser Terpenoid testing is performed utilizing Gas Chromatography Mass Spectrometry.	<b>Weight:</b> 1.0052g <b>Extraction date:</b> 06/28/22 18:05:47 <b>Extracted by:</b> 3600 <b>Reviewed On:</b> 06/30/22 12:28:55 <b>Batch Date:</b> 06/28/22 16:35:15
--	---



# Certificate of Analysis


**PASSED**

Liberty Health Sciences, FL

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

 Sample : GA20628001-017  
 Harvest/Lot ID: HVFV106-2206-10549  
 Batch# : DF-LECO-2206-9742 Sample Size Received : 16 gram  
 Sampled : 06/28/22 Total Batch Size : 2550 units  
 Ordered : 06/28/22 Completed : 07/01/22 Expires: 07/01/23  
 Sample Method : SOP.T.20.010

Page 3 of 6

<div>  <b>Pesticides</b> </div>						<div> <b>PASSED</b> </div>					
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
CLOFENTHINE	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	Analyzed by:	Weight:	Extraction date:	Extracted by:		
DIMETHOATE	0.01	ppm	0.1	PASS	ND	3404, 3209, 3303, 3317	0.9947g	06/29/22 11:23:42	3209		
ETHOPROPHOS	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					
ETOFENPROX	0.01	ppm	0.1	PASS	ND	Analytical Batch : GA046101PES		Reviewed On : 06/30/22 10:28:26			
ETOXAZOLE	0.01	ppm	0.1	PASS	ND	Instrument Used : GA-LCMS-001 PES		Batch Date : 06/28/22 16:38:54			
FENHEXAMID	0.01	ppm	0.1	PASS	ND	Running on : 06/29/22 15:43:03					
FENOXYCARB	0.01	ppm	0.1	PASS	ND	Dilution : 10					
FENPYROXIMATE	0.01	ppm	0.1	PASS	ND	Reagent : 060422.R38; 060422.R36; 062122.R09; 062922.R34					
FIPRONIL	0.01	ppm	0.1	PASS	ND	Consumables : 947.271; H20364; 9291.271; LLS-00-0005; 210419634; 296055173; 210268					
FLONICAMID	0.01	ppm	0.1	PASS	ND	Pipette : GA-002; GA-210 Dispenser					
FLUDIOXONIL	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.					
HEXYTHIAZOX	0.01	ppm	0.1	PASS	ND	Analyzed by:	Weight:	Extraction date:	Extracted by:		
IMAZALIL	0.01	ppm	0.1	PASS	ND	N/A	N/A	N/A	N/A		
IMIDACLOPRID	0.01	ppm	0.4	PASS	ND	Analysis Method : SOP.T.30.060, SOP.T.40.060					
KRESOXIM-METHYL	0.01	ppm	0.1	PASS	ND	Analytical Batch : GA046154VOL		Reviewed On : 06/30/22 10:58:44			
MALATHION	0.01	ppm	0.2	PASS	ND	Instrument Used : GA-GCMS-006		Batch Date : 06/29/22 12:13:52			
METALAXYL	0.01	ppm	0.1	PASS	ND	Running on : 06/29/22 16:51:08					
METHIOCARB	0.01	ppm	0.1	PASS	ND	Dilution : 100					
METHOMYL	0.01	ppm	0.1	PASS	ND	Reagent : 060422.R38; 060422.R36; 062122.R09; 062922.R34; 061522.R52					
MEVINPHOS	0.01	ppm	0.1	PASS	ND	Consumables : 947.271; H20364; 9291.271; LLS-00-0005; 210419634; 296055173; 210268; 15144001; 944C4 944; 206639					
MYCLOBUTANIL	0.01	ppm	0.1	PASS	ND	Pipette : GA-146; GA-182					
NALED	0.01	ppm	0.25	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.					
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						





# Certificate of Analysis

**PASSED**

Liberty Health Sciences, FL

18770 N CR 225

Gainesville, FL, 32609, US

Telephone: (833) 254-4877

Email: Qualityassurance@libertyhealthsciences.com

Sample : GA20628001-017

Harvest/Lot ID: HVFV106-2206-10549

Batch# : DF-LECO-2206-9742

Sampled : 06/28/22

Ordered : 06/28/22

Sample Size Received : 16 gram

Total Batch Size : 2550 units

Completed : 07/01/22 Expires: 07/01/23

Sample Method : SOP.T.20.010

Page 4 of 6



## 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:  
 N/A

 Weight:  
 N/A

 Extraction date:  
 N/A

 Extracted by:  
 N/A

Analysis Method : SOP.T.40.041.FL

Analytical Batch : GA046083SOL

Instrument Used : GA-GCMS-004 QP2020NX

Running on : 06/28/22 14:52:05

Reviewed On : 06/29/22 14:25:16

Batch Date : 06/28/22 11:31:43

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.



# Certificate of Analysis



**PASSED**

Liberty Health Sciences, FL

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

 Sample : GA20628001-017  
 Harvest/Lot ID: HVFV106-2206-10549  
 Batch# : DF-LECO-2206-9742  
 Sample Size Received : 16 gram  
 Total Batch Size : 2550 units  
 Sampled : 06/28/22  
 Completed : 07/01/22 Expires: 07/01/23  
 Ordered : 06/28/22  
 Sample Method : SOP.T.20.010

Page 5 of 6

 <b>Microbial</b>						 <b>Mycotoxins</b>						<b>PASSED</b>					
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, 1541 Weight: 0.88g Extraction date: 06/29/22 20:14:31 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 : GA046113MIC Instrument Used : GA-TYM-001 Tempo Filler and Reader Running on : 06/29/22 20:17:43 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: 3404, 3209, 3303, 3317 Weight: 0.9947g Extraction date: 06/29/22 11:23:42 Extracted by: 3209 Analysis Method : SOP.T.30.101.FL, SOP.T.40.101.FL, SOP.T.30.102.FL, SOP.T.40.102.FL Analytical Batch : GA046153MYC Instrument Used : GA-LCMS-001 MYC Running on : 06/29/22 15:43:13 Dilution : N/A Reagent : aflatoxin_b2; aflatoxin_b1; aflatoxin_g1; aflatoxin_g2 Consumables : 0.02; 0.02; 0.02; 0.02 Pipette : N/A Mycotoxins testing utilizing Liquid Chromatography with Triple-Quadrupole Mass Spectrometry in accordance with F.S. Rule 64ER20-39.											
<b>Heavy Metals</b>						<b>PASSED</b>											
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, 3571, 2155, 3303 Weight: 0.4398g Extraction date: 06/29/22 10:58:56 Extracted by: 3571 Analysis Method : SOP.T.30.081.FL, SOP.T.30.082.FL, SOP.T.40.081.FL, SOP.T.40.082.FL Analytical Batch : GA046034HEA Instrument Used : GA-ICPMS-002 Running on : 06/30/22 08:39:07 Dilution : 100 Reagent : 041622.R02; 051622.R03; 041722.R01; 042022.R45; 061621.03; 052422.R35; 062222.R63; 010421.48 Consumables : L2019501; GA-194; GA-195; CGR0114; 12455-202CD-202C Pipette : GA-012; GA-183; GA-193 Heavy Metals analysis is performed using Inductively Coupled Plasma Mass Spectrometry in accordance with F.S. Rule 64ER20-39.																	



# Certificate of Analysis

**PASSED**

Liberty Health Sciences, FL

18770 N CR 225

Gainesville, FL, 32609, US

Telephone: (833) 254-4877

Email: Qualityassurance@libertyhealthsciences.com

Sample : GA20628001-017

Harvest/Lot ID: HVFV106-2206-10549

Batch# : DF-LECO-2206-9742

Sampled : 06/28/22

Ordered : 06/28/22

Sample Size Received : 16 gram

Total Batch Size : 2550 units

Completed : 07/01/22 Expires: 07/01/23

Sample Method : SOP.T.20.010

Page 6 of 6


**Filth/Foreign  
Material**
**PASSED**

Analyte	LOD	Units	Result	P/F	Action Level
Filth and Foreign Material	1	%	ND	PASS	5

Analyzed by: 3404, 3600, 1541	Weight: 9.4809g	Extraction date: 06/28/22 16:03:27	Extracted by: 3600
----------------------------------	--------------------	---------------------------------------	-----------------------

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

Analytical Batch : GA046095FIL

Instrument Used : GA-Filth/Foreign Material Microscope

Running on : N/A

Reviewed On : 06/28/22 16:31:04

Batch Date : 06/28/22 16:03:07

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	0.571	PASS	0.85

Analyzed by: 3404, 3575, 1541	Weight: 0.5679g	Extraction date: 06/28/22 18:30:50	Extracted by: 3575
----------------------------------	--------------------	---------------------------------------	-----------------------

Analysis Method : SOP.T.40.019

Analytical Batch : GA046098WAT

Instrument Used : GA-203 Rotronic HygroPalm

Running on : N/A

Reviewed On : 06/30/22 08:20:47

Batch Date : 06/28/22 16:33:41

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.