



Certificate of Analysis

COMPLIANCE FOR RETAIL

Sample: GA10416002-006
Harvest/Lot ID: LGT101F-210412-01
Batch#: OSF-1C3T-LG-040121
Seed to Sale# LGT101F-210412-01
Batch Date: 04/12/21
Sample Size Received: 88.2 gram
Total Amount: 479 gram
Retail Product Size: 29.4
Ordered : 04/16/21
Sampled : 04/16/21
Completed: 04/22/21
Sampling Method: SOP.T.20.010

PASSED

Apr 22, 2021 | Liberty Health Sciences, FL

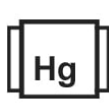
18770 N CR 225
Gainesville, FL, 32609, US


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PRODUCT IMAGE


Glass Dropper Bottle

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
0%

/Container : 650.4 mg


Total CBD
0%

/Container : 242.692 mg


Total Cannabinoids
0%

Total Cannabinoids/Container : 948.726 mg

	CBDV	CBDA	CBGA	CBG	CBD	THCV	CBN	D9-THC	D8-THC	CBC	THCA
%	0.006	0.037	0	0.088	0.792	0.015	0.031	2.197	0	0.046	0.017
mg/g											
LOD	0.001	0.001	0.001	0.001		0.001	0.001		0.001	0.001	0.001
%											

Analyzed by:
2338

Weight:
3.0002g

Extraction date:
04/19/21 12:04:18

Extracted by:
2206

Analysis Method : SOP.T.40.031, SOP.T.30.031
Analytical Batch : GA025129POT
Instrument Used : GA-HPLC-001 2030C Plus (Carl)
Analyzed Date : 04/19/21 17:03:16

Reviewed On : 04/22/21 09:13:11
Batch Date : 04/19/21 08:08:58

Dilution : 40
Reagent : 010421.50; 021821.04; 041221.R15; 041221.R14
Consumables : 282066106; VAV-09-1020 Lot# 947.077; 6970145500298; 190624060; 16466-042
Pipette : N/A

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



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Terpenes

TESTED

Terpenes	LOD (%)	mg/g	%	Result (%)	Terpenes	LOD (%)	mg/g	%	Result (%)
CAMPENE	0.007	0			TERPINEOL	0.007	0.03	0.003	
BETA-MYRCENE	0.007	0.031			GERANIOL	0.007	0.49	0.049	
ALPHA-PHELLANDRENE	0.007	0			PULEGONE	0.007	0	0	
3-CARENE	0.007	0			ALPHA-CEDRENE	0.007	0	0	
OCIMENE	0.007	0.044			ALPHA-HUMULENE	0.007	0.16	0.016	
EUCALYPTOL	0.007	0			TRANS-NEROLIDOL	0.007	0.02	0.002	
LINALOOL	0.007	0			GUAJOL	0.007	0.01	0.001	
FENCHONE	0.007	0			Analyzed by: 2155	Weight: 1.0028g	Extraction date: 04/16/21 05:04:47	Extracted by: 2206	
ISOPULEGOL	0.007	0			Analysis Method : SOP.T.30.061A.FL, SOP.T.40.061A.FL				
ISOBORNEOL	0.007	0			Analytical Batch : GA025120TER				
HEXAHYDROTHYMOL	0.007	0			Instrument Used : GA-GCMS-005 QP2020NX				
NEROL	0.007	0.039			Reviewed On : 04/20/21 15:12:22				
GERANYL ACETATE	0.007	0.04			Batch Date : 04/16/21 16:19:10				
BETA-CARYOPHYLLENE	0.007	0.203			Dilution : 10				
VALENCENE	0.007	0.033			Reagent : 010421.36; 010421.50; 021121.36				
CIS-NEROLIDOL	0.007	0			Consumables : 282066106; VAV-09-1020 Lot# 947.077; 6970145500298; 190624060; 16466-042				
CARYOPHYLLENE OXIDE	0.007	0			Pipette : N/A				
CEDROL	0.007	0			Terpenoid testing is performed utilizing Gas Chromatography Mass Spectrometry. For all Flower samples, the Total Terpenes % is dry-weight corrected.				
FARNESENE	0.007	0							
ALPHA-BISABOLOL	0.007	0.005							
ALPHA-PINENE	0.007	0							
SABINENE	0.007	0							
BETA-PINENE	0.007	0							
ALPHA-TERPINENE	0.007	0							
LIMONENE	0.007	0.019							
GAMMA-TERPINENE	0.007	0							
TERPINOLENE	0.007	0.19							
SABINENE HYDRATE	0.007	0							
FENCHYL ALCOHOL	0.007	0							
CAMPHOR	0.013	0							
BORNEOL	0.013	0							
Total (%)									



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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	0.3		0	PROPOXUR	0.01	ppm	0.1		0
ACEPHATE	0.01	ppm	3		0	PYRETHRINS	0.05	ppm	1		0
ACEQUINOCYL	0.01	ppm	2		0	PYRIDABEN	0.02	ppm	3		0
ACETAMIPRID	0.01	ppm	3		0	SPIROMESIFEN	0.01	ppm	3		0
ALDICARB	0.01	ppm	0.1		0	SPIROTETRAMAT	0.01	ppm	3		0
AZOXYSTROBIN	0.01	ppm	3		0	SPIROXAMINE	0.01	ppm	0.1		0
BIFENAZATE	0.01	ppm	3		0	TEBUCONAZOLE	0.01	ppm	1		0
BIFENTHRIN	0.01	ppm	0.5		0	THIACLOPRID	0.01	ppm	0.1		0
BOSCALID	0.01	PPM	3		0	THIAMETHOXAM	0.05	ppm	1		0
CARBARYL	0.05	ppm	0.5		0	TOTAL CONTAMINANT LOAD (PESTICIDES)	0.05	PPM	20		0
CARBOFURAN	0.01	ppm	0.1		0	TOTAL DIMETHOMORPH	0.02	PPM	3		0
CHLORANTRANILIPROLE	0.1	ppm	3		0	TOTAL PERMETHRIN	0.01	ppm	1		0
CHLORMEQUAT CHLORIDE	0.1	ppm	3		0	TOTAL SPINETORAM	0.02	PPM	3		0
CHLORPYRIFOS	0.01	ppm	0.1		0	TOTAL SPINOSAD	0.01	ppm	3		0
CLOFENTEZINE	0.02	ppm	0.5		0	TRIFLOXYSTROBIN	0.01	ppm	3		0
COUMAPHOS	0.01	ppm	0.1		0	PENTACHLORONITROBENZENE (PCNB) *	0.01	PPM	0.2		0
DAMINOZIDE	0.01	ppm	0.1		0	PARATHION-METHYL *	0.01	PPM	0.1		0
DIAZINON	0.01	ppm		TESTED	0	CAPTAN *	0.025	PPM	3		0
DICHLORVOS	0.01	ppm	0.1		0	CHLORDANE *	0.01	PPM	0.1		0
DIMETHOATE	0.01	ppm	0.1		0	CHLORFENAPYR *	0.01	PPM	0.1		0
ETHOPROPHOS	0.01	ppm	0.1		0	CYFLUTHRIN *	0.01	PPM	1		0
ETOFENPROX	0.01	ppm	0.1		0	CYPERMETHRIN *	0.01	PPM	1		0
ETOXAZOLE	0.01	ppm	1.5		0						
FENHEXAMID	0.01	ppm	3		0	Analyzed by: 1850	Weight: 1.0015g	Extraction date: 04/19/21 03:04:04	Extracted by: 1791		
FENOXYCARB	0.01	ppm	0.1		0	Analysis Method : SOP.T.30.101.FL (Gainesville), SOP.T.30.102.FL (Davie), SOP.T.40.101.FL (Gainesville), SOP.T.40.102.FL (Davie)					
FENPYROXIMATE	0.01	ppm	2		0	Analytical Batch : GA02S133PES					
FIPRONIL	0.01	ppm	0.1		0	Instrument Used : GA-LCMS-001 Pes					
FLONICAMID	0.01	ppm	2		0	Analyzed Date : 04/20/21 16:21:05					
FLUDIOXONIL	0.01	ppm	3		0	Dilution : 10					
HEXYTHIAZOX	0.01	ppm	2		0	Reagent : 040821.R13; 091520.07; 041921.R02; 041921.R01					
IMAZALIL	0.01	ppm	0.1		0	Consumables : 282066106; VAV-09-1020 Lot# 947.077; 6970145500298; VAV-09-1020 (947.077) / ALK-09-1412 (9291.179); P734631 / P7411895; 16466-042					
IMIDACLOPRID	0.04	ppm	3		0	Pipette : N/A					
KRESOXIM-METHYL	0.01	ppm	1		0	Testing for agricultural agents is performed utilizing Liquid Chromatography Triple-Quadrupole Mass Spectrometry in accordance with F.S. Rule 64ER20-39.					
MALATHION	0.02	ppm	2		0	Analyzed by:	Weight:	Extraction date:	Extracted by:		
METALAXYL	0.01	ppm	3		0	Analysis Method : SOP.T.30.151.FL (Gainesville), SOP.T.30.151A.FL (Davie), SOP.T.40.151.FL					
METHIOCARB	0.01	ppm	0.1		0	Analytical Batch : GA02S184VOL					
METHOMYL	0.01	ppm	0.1		0	Instrument Used : GA-GCMS-003 Triple Quad Pest (Indica)					
MEVINPHOS	0.01	ppm	0.1		0	Reviewed On : 04/21/21 11:37:09					
MYCLOBUTANIL	0.01	ppm	3		0	Batch Date : 04/19/21 13:35:03					
NALED	0.025	ppm	0.5		0	Analyzed Date : 04/20/21 15:03:09					
OXAMYL	0.05	ppm	0.5		0	Testing for agricultural agents is performed utilizing Gas Chromatography Triple-Quadrupole Mass Spectrometry in accordance with F.S. Rule 64ER20-39.					
PACLOBUTRAZOL	0.01	ppm	0.1		0						
PHOSMET	0.01	ppm	0.2		0						
PIPERONYL BUTOXIDE	0.3	ppm	3		0						
PRALLETHRIN	0.01	ppm	0.4		0						
PROPICONAZOLE	0.01	ppm	1		0						



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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	TESTED	0
ETHANOL	500	ppm			9.438
PENTANES (N-PENTANE)	75	ppm	750		0
ETHYL ETHER	50	ppm	500		0
ACETONE	75	ppm	750		9.325
2-PROPANOL	50	ppm	500		0
ACETONITRILE	6	ppm	60		0
DICHLOROMETHANE	12.5	ppm	125		0
N-HEXANE	25	ppm	250		0
ETHYL ACETATE	40	ppm	400		0
BENZENE	0.1	ppm	1		0
HEPTANE	500	ppm	5000		0
TOLUENE	15	ppm	150		1.017
TOTAL XYLENES	15	ppm	150		0
PROPANE	500	ppm	5000		0
CHLOROFORM	0.2	ppm	2		0
1,2-DICHLOROETHANE	0.2	ppm	2		0
BUTANES (N-BUTANE)	500	ppm	5000		0
ETHYLENE OXIDE	0.5	ppm	5		0
1,1-DICHLOROETHENE	0.8	ppm	8		0
TRICHLOROETHYLENE	2.5	ppm	25		0

 Analyzed by:
 2155

 Weight:
 0.0243g

 Extraction date:
 04/20/21 02:04:58

 Extracted by:
 2155

Analysis Method : SOP.T.40.041.FL

Analytical Batch : GA02519050L

Instrument Used : GA-GCMS-004 QP2020NX

Analyzed Date : 04/20/21 14:46:46

Reviewed On : 04/21/21 16:17:54

Batch Date : 04/20/21 07:52:02

Dilution : N/A

Reagent : N/A

Consumables : 24154107; ach-20-1720

Pipette : N/A

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



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	Microbial	PASSED		Mycotoxins	PASSED
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Analyte	LOD	Units	Result	Pass / Fail	Action Level	Analyte	LOD	Units	Result	Pass / Fail	Action Level
ESCHERICHIA COLI SHIGELLA SPP	1726	RFU	0		1726	AFLATOXIN B1	0.002	ppm	0		0.02
SALMONELLA SPECIFIC GENE	10000	RFU	0		10000	AFLATOXIN B2	0.002	ppm	0		0.02
ASPERGILLUS FLAVUS	10000	RFU	0		10000	AFLATOXIN G1	0.002	ppm	0		0.02
ASPERGILLUS FUMIGATUS	10000	RFU	0		10000	AFLATOXIN G2	0.002	ppm	0		0.02
ASPERGILLUS TERREUS	10000	RFU	0		10000	Analyzed by: 1850 Weight: 1.0015g Extraction date: 04/20/21 02:04:39 Extracted by: 1850 Analysis Method : SOP.T.30.101.FL (Gainesville), SOP.T.40.101.FL (Gainesville), SOP.T.30.102.FL (Davie), SOP.T.40.102.FL (Davie) Analytical Batch : GA025189MYC Instrument Used : GA-LCMS-001 MYC Analyzed Date : 04/20/21 16:21:13 Dilution : ND; ND; ND; ND; ND Reagent : Aflatoxin G2; Aflatoxin G1; Aflatoxin B2; Aflatoxin B1; Ochratoxin A Consumables : 0.02; 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.					
ASPERGILLUS NIGER	10000	RFU	0		10000						
TOTAL YEAST AND MOLD	10	CFU	<10		100000						
Analyzed by: 1828	Weight: 0.88g	Extraction date: 04/16/21 07:04:15	Extracted by: 2119								
Analysis Method : SOP.T.40.056C, SOP.T.40.058.FL, SOP.T.40.209.FL											
Analytical Batch : GA025116MIC			Reviewed On : 04/19/21 16:10:55								
Instrument Used : GA-093 PathogenDx Scanner (MIC)			Batch Date : 04/16/21 15:55:27								
Analyzed Date : N/A											
Dilution : 10											
Reagent : 020121.41; 091520.07											
Consumables : 001001; 002005; 003006											
Pipette : N/A											

Analyzed by: N/A	Weight: N/A	Extraction date: N/A	Extracted by: N/A	<div><div>Hg</div></div>	<div>Heavy Metals</div>		<div>PASSED</div>		
Analysis Method : SOP.T.40.208 (Gainesville), SOP.T.40.209.FL									
Analytical Batch : GA025117TYM									
Instrument Used : GA-093 PathogenDx Scanner (QUANT)									
Analyzed Date : N/A									
Reviewed On : 04/19/21 16:13:35				Metal	LOD	Units	Result	Pass / Fail	Action Level
Batch Date : 04/16/21 15:55:35									
				ARSENIC	0.02	BPM	0.003	1.5	

Total yeast and mold testing is performed utilizing MPN and traditional culture based techniques in accordance with F.S. Rule 64ER20-39.

Metal	LOD	Units	Result	Pass / Fail	Action Level
ARSENIC	0.02	PPM	0.001		1.5
CADMIUM	0.02	PPM	0		0.5
MERCURY	0.02	PPM	0.007		3
LEAD	0.05	PPM	0.001		0.5
Analyzed by: 650	Weight: 0.5015g	Extraction date: 04/20/21 11:04:32	Extracted by: 2206		
Analysis Method : SOP.T.30.082.FL, SOP.T.40.082.FL					
Analytical Batch : GA025136HEA			Reviewed On : 04/21/21 17:22:05		
Instrument Used : GA-ICPMS-001-DER (Ice Princess)			Batch Date : 04/19/21 08:15:23		
Analyzed Date : N/A					
Dilution : 50					
Reagent : 010821.13; 041321.R10; 040721.R15; 041621.R02; 010421.50; 081420.12; 031521.R36; 041621.R14					
Consumables : 190624060; 106557-04-091619					
Pipette : N/A					

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	0.1	%	0		5

Analyzed by:	Weight:	Extraction date:	Extracted by:
Analysis Method : SOP.T.40.090 Analytical Batch : GA025109FIL Instrument Used : GA-Filth/Foreign Material Microscope Analyzed Date : N/A			

Analysis Method : SOP.T.40.090 Analytical Batch : GA025109FIL Instrument Used : GA-Filth/Foreign Material Microscope Analyzed Date : N/A	Reviewed On : 04/19/21 08:39:53 Batch Date : 04/16/21 12:24:18
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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	0.01	aw	0.468		0.85

Analyzed by:	Weight:	Extraction date:	Extracted by:
Analysis Method : SOP.T.40.019 Analytical Batch : GA025102WAT Instrument Used : GA-085 Rotronic HygroPalm Analyzed Date : N/A			

Analysis Method : SOP.T.40.019 Analytical Batch : GA025102WAT Instrument Used : GA-085 Rotronic HygroPalm Analyzed Date : N/A	Reviewed On : 04/20/21 12:21:40 Batch Date : 04/16/21 10:56:25
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Water Activity is performed using a Rotronic HygroPalm HP 23-AW in accordance with F.S. Rule 64ER20-39.