



Certificate of Analysis

Sample:GA20629001-006

Harvest/Lot ID: DPFV109-2206-11113

Batch#: DF-MBER-2206-10824

Cultivation Facility: Gainesville Cultivation

Processing Facility : Gainesville Processing

Seed to Sale# DPFV109-2206-11113

Batch Date: 06/27/22

Sample Size Received: 16 gram

Total Batch Size: 1964 units

Retail Product Size: 1 gram

Ordered : 06/29/22

Sampled : 06/29/22

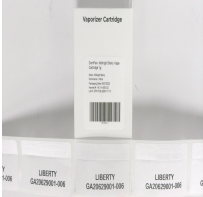

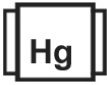








Completed: 07/01/22

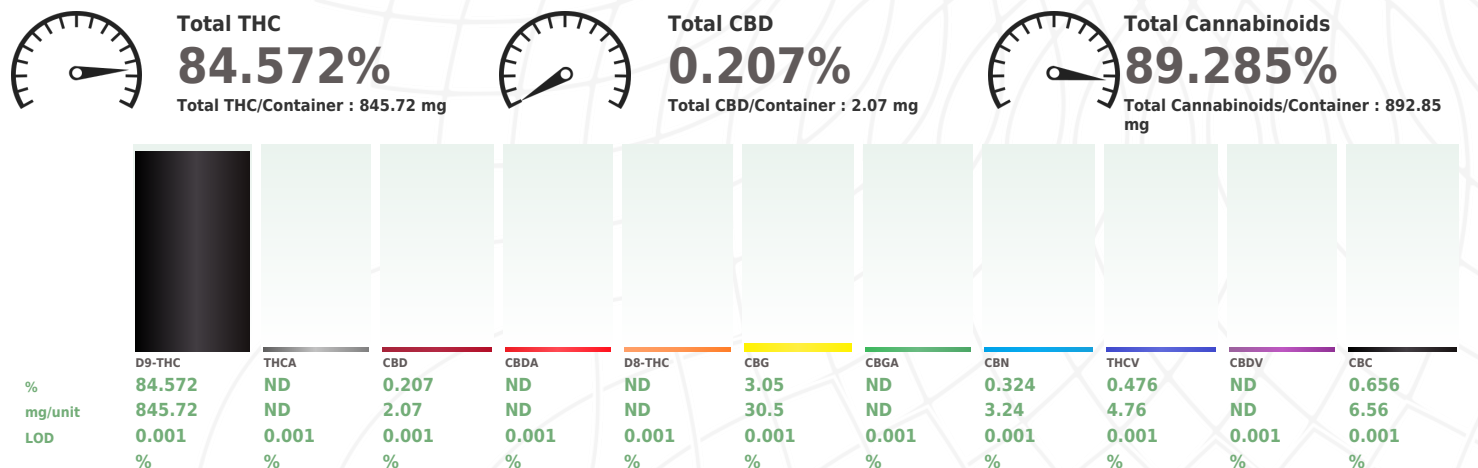
Sampling Method: SOP.T.20.010.FL

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

PASSED

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



Analyzed by: 3404, 3600, 2507, 1541 Analysis Method : SOP.T.40.031, SOP.T.30.031 Analytical Batch : GA046100POT Instrument Used : GA-HPLC-002 2040C Running on : 06/29/22 17:58:34 Dilution : 400 Reagent : 020322.R09; 010421.48; 060922.11; 092920.12; 061621.03; 060422.R40; 060822.R51 Consumables : 947.271; H20364; 9291.271; LLS-00-0005; 12455-202CD-202C; RONB32898; 000000146137; 944C4 944; 210268; 206639 Pipette : GA-001; GA-002; GA-004; GA-011; GA-169 (Dispenser); GA-196; GA-209 Dispenser	Weight: 0.1093g	Extraction date: 06/29/22 15:52:30	Extracted by: 3600
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Reviewed On : 07/01/22 16:34:46
Batch Date : 06/28/22 16:37:56

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

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 Harvest/Lot ID: DPFV109-2206-11113
 Batch# : DF-
 MBER-2206-10824
 Sampled : 06/29/22
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 Sample Size Received : 16 gram
 Total Batch Size : 1964 units
 Completed : 07/01/22 Expires: 07/01/23
 Sample Method : SOP.T.20.010

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Terpenes

TESTED

Terpenes	LOD (%)	mg/unit	%	Result (%)	Terpenes	LOD (%)	mg/unit	%	Result (%)
TOTAL TERPENEOL	0.007	1.28	0.128		BORNEOL	0.013	ND	ND	
CAMPENE	0.007	0.43	0.043		GERANIOL	0.007	<0.2	<0.02	
BETA-MYRCENE	0.007	8.98	0.898		PULEGONE	0.007	ND	ND	
3-CARENE	0.007	ND	ND		ALPHA-CEDRENE	0.007	<0.2	<0.02	
ALPHA-PHELLANDRENE	0.007	0.56	0.056		ALPHA-HUMULENE	0.007	1.07	0.107	
OCIMENE	0.007	<0.2	<0.02		TRANS-NEROLIDOL	0.007	ND	ND	
EUCALYPTOL	0.007	ND	ND		GUAIOL	0.007	ND	ND	
LINALOOL	0.007	3.43	0.343		Analyzed by: 3404, 3600, 3303, 2155 Weight: 1.0328g Extraction date: 06/30/22 10:54:46 Extracted by: 3600 Analysis Method: SOP.T.30.061A.FL, SOP.T.40.061A.FL Analytical Batch: GA046163TER Instrument Used: GA-GCMS-002 QP2010S Running on: 06/30/22 12:12:57 Reviewed On: 07/01/22 14:47:57 Batch Date: 06/29/22 14:01:31 Dilution: 50 Reagent: 060922.R22; 050322.49; 010421.48 Consumables: 947.271; H20364; 9291.271; LLS-00-0005; 89012-780; RONB32898; 000000146137; 944C4 944; 210268; 206639 Pipette: GA-002; GA-004; GA-005; GA-152; GA-211 Dispenser Terpenoid testing is performed utilizing Gas Chromatography Mass Spectrometry.				
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	9.33	0.933						
VALENCENE	0.007	ND	ND						
CIS-NEROLIDOL	0.007	ND	ND						
CECROL	0.007	ND	ND						
FARNESENE	0	<0.01	ND						
CARYOPHYLLENE OXIDE	0.007	0.45	0.045						
ALPHA-BISABOLOL	0.007	1.54	0.154						
ALPHA-PINENE	0.007	1.61	0.161						
SABINENE	0.007	ND	ND						
BETA-PINENE	0.007	2.56	0.256						
ALPHA-TERPINENE	0.007	ND	ND						
LIMONENE	0.007	14.74	1.474						
GAMMA-TERPINENE	0.007	ND	ND						
TERPINOLENE	0.007	0.48	0.048						
SABINENE HYDRATE	0.007	ND	ND						
FENCHYL ALCOHOL	0.007	1.4	0.14						
CAMPOR	0.013	ND	ND						
Total (%)				4.786					



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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	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
CLOFENTHIZINE	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, 3575, 3303, 1541	0.9273g	06/30/22 14:57:13	3575		
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 : GA046102PES			Reviewed On : 07/01/22 11:43:40		
ETOXAZOLE	0.01	ppm	0.1	PASS	ND	Instrument Used : GA-LCMS-001 PES			Batch Date : 06/28/22 16:39:40		
FENHEXAMID	0.01	ppm	0.1	PASS	ND	Running on : 06/30/22 17:06:11					
FENOXYCARB	0.01	ppm	0.1	PASS	ND	Dilution : 10					
FENPYROXIMATE	0.01	ppm	0.1	PASS	ND	Reagent : 060422.R38; 060422.R36; 061222.R01; 011122.06					
FIPRONIL	0.01	ppm	0.1	PASS	ND	Consumables : 947.271; 470228-424; 9291.271; LLS-00-0005; 89012-780; 296055173; 210268					
FLONICAMID	0.01	ppm	0.1	PASS	ND	Pipette : GA-150; 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 : GA046225VOL			Reviewed On : 07/01/22 09:55:55		
MALATHION	0.01	ppm	0.2	PASS	ND	Instrument Used : GA-GCMS-006			Batch Date : 06/30/22 15:35:00		
METALAXYL	0.01	ppm	0.1	PASS	ND	Running on : 07/01/22 08:13:31					
METHIOCARB	0.01	ppm	0.1	PASS	ND	Dilution : 100					
METHOMYL	0.01	ppm	0.1	PASS	ND	Reagent : 060422.R38; 060422.R36; 061222.R01; 011122.06; 061522.R52					
MEVINPHOS	0.01	ppm	0.1	PASS	ND	Consumables : 947.271; 470228-424; 9291.271; LLS-00-0005; 89012-780; 296055173; 210268;					
MYCLOBUTANIL	0.01	ppm	0.1	PASS	ND	15144001; 944C4 944J; 206639					
NALED	0.01	ppm	0.25	PASS	ND	Pipette : GA-004; GA-146; GA-150; GA-210 Dispenser					
OXAMYL	0.01	ppm	0.5	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.					
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						



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Gainesville, FL, 32609, US

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Sample : GA20629001-006

Harvest/Lot ID: DPFV109-2206-11113

 Batch# : DF-
 MBER-2206-10824

Sampled : 06/29/22

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Sample Size Received : 16 gram

Total Batch Size : 1964 units

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

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:
 N/A

 Weight:
 N/A

 Extraction date:
 N/A

 Extracted by:
 N/A

Analysis Method : SOP.T.40.041.FL

Analytical Batch : GA046152SOL

Instrument Used : GA-GCMS-004 QP2020NX

Running on : 06/29/22 12:45:24

Reviewed On : 06/30/22 10:49:09

Batch Date : 06/29/22 11:02:49

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




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 Sample Method : SOP.T.20.010

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 Microbial						 Mycotoxins						 Heavy Metals					
PASSED						PASSED						PASSED					
Analyte	LOD	Units	Result	Pass / Fail	Action Level	Analyte	LOD	Units	Result	Pass / Fail	Action Level	Metal	LOD	Units	Result	Pass / Fail	Action Level
ESCHERICHIA COLI SHIGELLA SPP			Not Present	PASS		AFLATOXIN B2	0.002	ppm	ND	PASS	0.02	ARSENIC	0.02	PPM	ND	PASS	0.2
SALMONELLA SPECIFIC GENE			Not Present	PASS		AFLATOXIN B1	0.002	ppm	ND	PASS	0.02	CADMIUM	0.02	PPM	ND	PASS	0.2
ASPERGILLUS FLAVUS			Not Present	PASS		OCHRATOXIN A	0.002	ppm	ND	PASS	0.02	MERCURY	0.02	PPM	ND	PASS	0.2
ASPERGILLUS FUMIGATUS			Not Present	PASS		AFLATOXIN G1	0.002	ppm	ND	PASS	0.02	LEAD	0.05	PPM	ND	PASS	0.5
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, 3575, 3303, 1541 Weight: 0.9273g Extraction date: 06/30/22 14:57:13 Extracted by: 3575						Analyzed by: 3404, 3571, 3317, 1541 Weight: 0.4105g Extraction date: 06/30/22 11:11:27 Extracted by: 3571					
Analyzed by: 3404, 3209, 1790, 1541 Weight: 1.1658g Extraction date: 06/29/22 20:17:27 Extracted by: 3209 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 : GA046180MIC Instrument Used : GA-TYM-001 Tempo Filler and Reader Running on : 06/30/22 16:27:15 Dilution : 90 Reagent : 052622.09 Consumables : 2303260; 2303190; 2306070; 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.						Analysis Method : SOP.T.30.101.FL, SOP.T.40.101.FL, SOP.T.30.102.FL, SOP.T.40.102.FL Analytical Batch : GA046224MYC Instrument Used : GA-LCMS-001 MYC Running on : 06/30/22 17:06:01 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.						Analysis Method : SOP.T.30.081.FL, SOP.T.30.082.FL, SOP.T.40.081.FL, SOP.T.40.082.FL Analytical Batch : GA046164HEA Instrument Used : GA-ICPMS-002 Running on : N/A 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.					
Analyzed by: N/A Weight: N/A Extraction date: N/A Extracted by: N/A Analysis Method : SOP.T.40.041 Analytical Batch : GA046181TYM Instrument Used : GA-TYM-001 bioMérieux Tempo Filler and Reader Running on : 06/30/22 16:24:45 Dilution : 90 Reagent : 052622.09 Consumables : 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, 3571, 3317, 1541 Weight: 0.4105g Extraction date: 06/30/22 11:11:27 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 : GA046164HEA Instrument Used : GA-ICPMS-002 Running on : N/A 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.						Analyzed by: 3404, 3571, 3317, 1541 Weight: 0.4105g Extraction date: 06/30/22 11:11:27 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 : GA046164HEA Instrument Used : GA-ICPMS-002 Running on : N/A 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.					



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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, 3571, 1541	Weight: 12.2668g	Extraction date: 06/29/22 12:59:00	Extracted by: 3571
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Analysis Method : SOP.T.30.074, SOP.T.40.074

Analytical Batch : GA046158FIL

Instrument Used : GA-Filth/Foreign Material Microscope

Running on : N/A

Reviewed On : 06/30/22 08:18:30

Batch Date : 06/29/22 12:58:24

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	0.581	PASS	0.85

Analyzed by: 3404, 3599, 1541	Weight: 0.5279g	Extraction date: 06/29/22 15:46:32	Extracted by: 3599
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Analysis Method : SOP.T.40.019

Analytical Batch : GA046163WAT

Instrument Used : N/A

Running on : N/A

Reviewed On : 06/30/22 15:52:43

Batch Date : 06/29/22 14:00:33

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.