














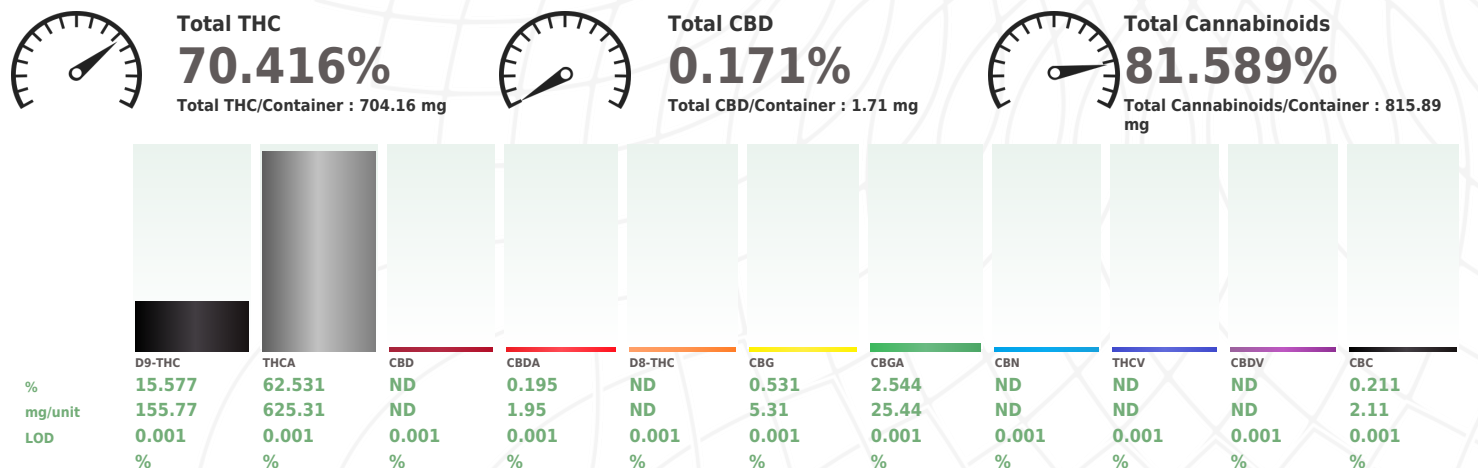
Certificate of Analysis

Sample: GA20719001-018
Harvest/Lot ID: ORFCW162-2207-11802
Batch#: LPC-3L-050922-4
Cultivation Facility: Gainesville Cultivation
Processing Facility : Gainesville Processing
Seed to Sale# ORFCW162-2207-11802
Batch Date: 07/08/22
Sample Size Received: 16 gram
Total Batch Size: 428 units
Retail Product Size: 1 gram
Ordered : 07/19/22
Sampled : 07/19/22
Completed: 07/22/22
Sampling Method: SOP.T.20.010
PASSED

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Jul 22, 2022 | Liberty Health Sciences, FL
18770 N CR 225
Gainesville, FL, 32609, US


PRODUCT IMAGE	SAFETY RESULTS								MISC.
									
LIBERTY GA20719001-018 LIBERTY GA20719001-018 LIBERTY GA20719001-018	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, 3192, 2507, 3303
Weight: 0.1063g
Extraction date: 07/21/22 08:48:12
Extracted by: 3192

Analysis Method : SOP.T.40.031, SOP.T.30.031
Analytical Batch : GA047092POT
Instrument Used : GA-HPLC-003 2030C PDA
Running on : 07/21/22 13:07:16

Dilution : 400
Reagent : 013122.12; 020322.R09; 010421.48; 060922.09; 071522.04; 070222.R03; 062122.R33
Consumables : 947.109; H20364; 9291.271; LLS-00-0005; 12455-202CD-202C; R0NB32898; 000000146137; 210268; 944C4 944J; 209598; 212516; SLGNM25NS
Pipette : GA-005; GA-011; GA-149; GA-153; GA-150; GA-169 (Dispenser); GA-196; GA-209 Dispenser

Reviewed On : 07/22/22 09:31:55
Batch Date : 07/19/22 13:46:00

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 : GA20719001-018
Harvest/Lot ID: ORFCW162-2207-11802

Batch# : LPC-3L-050922-4

Sampled : 07/19/22

Ordered : 07/19/22

Sample Size Received : 16 gram

Total Batch Size : 428 units

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

Sample Method : SOP.T.20.010

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Terpenes

TESTED

Terpenes	LOD (%)	mg/unit	%	Result (%)	Terpenes	LOD (%)	mg/unit	%	Result (%)
TOTAL TERPENES	0.007	45.15	4.515		CAMPHOR	0.013	ND	ND	
TOTAL TERPINEOL	0.007	1.77	0.177		BORNEOL	0.013	0.5	0.05	
CAMPENE	0.007	ND	ND		GERANIOL	0.007	ND	ND	
BETA-MYRCENE	0.007	0.67	0.067		PULEGONE	0.007	ND	ND	
3-CARENE	0.007	ND	ND		ALPHA-CEDRENE	0.007	ND	ND	
ALPHA-PHELLANDRENE	0.007	ND	ND		ALPHA-HUMULENE	0.007	5.54	0.554	
OCIMENE	0.007	0.3	0.03		TRANS-NEROLIDOL	0.007	0.56	0.056	
EUCALYPTOL	0.007	0.22	0.022		GUAJOL	0.007	3.07	0.307	
LINALOOL	0.007	4.39	0.439						
FENCHONE	0.007	0.22	0.022						
ISOPULEGOL	0.007	<0.2	<0.02						
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	18.93	1.893						
VALENCENE	0.007	ND	ND						
CIS-NEROLIDOL	0.007	ND	ND						
CEDROL	0.007	ND	ND						
CARYOPHYLLENE OXIDE	0.007	0.45	0.045						
FARNESENE	0	0.39	0.039						
ALPHA-BISABOLOL	0.007	3.82	0.382						
ALPHA-PINENE	0.007	ND	ND						
SABINENE	0.007	ND	ND						
BETA-PINENE	0.007	ND	ND						
ALPHA-TERPINENE	0.007	ND	ND						
LIMONENE	0.007	1.61	0.161						
GAMMA-TERPINENE	0.007	ND	ND						
TERPINOLENE	0.007	0.43	0.043						
SABINENE HYDRATE	0.007	ND	ND						
FENCHYL ALCOHOL	0.007	2.28	0.228						
Total (%)			4.515						

Analyzed by: 3404, 3655, 3205, 3303, 2155

Weight: 0.99g

Extraction date: 07/19/22 15:00:23

Extracted by: 3655

Analysis Method : SOP.T.30.061A.FL, SOP.T.40.061A.FL

Analytical Batch : GA047040TER

Instrument Used : GA-GCMS-002 QP2010S

Running on : 07/19/22 16:49:24

Reviewed On : 07/20/22 12:29:02

Batch Date : 07/18/22 17:13:52

Dilution : 50

Reagent : 060922.R22; 050322.48; 010421.48

Consumables : 947.109; H20364; 9291.271; LLS-00-0005; 89012-780; RONB32898; 000000146137; 210268; 212516

Pipette : GA-005; GA-011; GA-146; GA-151

Terpenoid testing is performed utilizing Gas Chromatography Mass Spectrometry.



Certificate of Analysis

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 Gainesville, FL, 32609, US
 Telephone: (833) 254-4877
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 Sample : GA20719001-018
 Harvest/Lot ID: ORFCW162-2207-11802

 Batch# : LPC-3L-050922-4
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 Total Batch Size : 428 units
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 Completed : 07/22/22 Expires: 07/22/23
 Ordered : 07/19/22
 Sample Method : SOP.T.20.010

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<div>  Pesticides </div>						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	PACLOBUTRAZOL	0.01	ppm	0.1	PASS	ND
TOTAL DIMETHOMORPH	0.01	PPM	0.2	PASS	ND	PHOSMET	0.01	ppm	0.1	PASS	ND
TOTAL PERMETHRIN	0.01	ppm	0.1	PASS	ND	PIPERONYL BUTOXIDE	0.01	ppm	3	PASS	ND
TOTAL SPINETORAM	0.01	PPM	0.2	PASS	ND	PRALLETHRIN	0.01	ppm	0.1	PASS	ND
TOTAL SPINOSAD	0.01	ppm	0.1	PASS	ND	PROCONAZOLE	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	<0.05	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:	3404, 3317, 3303	Weight:	1.02787g	Extraction date:	07/20/22 15:48:44
DIMETHOATE	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	Extracted by:	3317		
ETHOPROPHOS	0.01	ppm	0.1	PASS	ND	Analytical Batch:	GA047094PES	Reviewed On:	07/22/22 09:28:51		
ETOFENPROX	0.01	ppm	0.1	PASS	ND	Instrument Used:	GA-LCMS-001 PES	Batch Date:	07/19/22 13:47:41		
ETOXAZOLE	0.01	ppm	0.1	PASS	ND	Running on:	07/20/22 17:57:53				
FENHEXAMID	0.01	ppm	0.1	PASS	ND	Dilution:	10				
FENOXYCARB	0.01	ppm	0.1	PASS	ND	Reagent:	072022.R65; 050621.01; 061922.R02; 061922.R04				
FENPYROXIMATE	0.01	ppm	0.1	PASS	ND	Consumables:	947.109; 470228-424; LLS-00-0005; 89012-780; 296055173; 210268				
FIPRONIL	0.01	ppm	0.1	PASS	ND	Pipette:	GA-002; GA-210 Dispenser				
FLONICAMID	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.					
FLUDIOXONIL	0.01	ppm	0.1	PASS	ND	Analyzed by:	3404, 3303, 3571, 3317	Weight:	1.02787g	Extraction date:	07/20/22 15:48:44
HEXYTHIAZOX	0.01	ppm	0.1	PASS	ND	Analysis Method:	SOP.T.30.060, SOP.T.40.060	Extracted by:	3317		
IMAZALIL	0.01	ppm	0.1	PASS	ND	Analytical Batch:	GA047173VOL	Reviewed On:	07/22/22 09:23:32		
IMIDACLOPRID	0.01	ppm	0.4	PASS	ND	Instrument Used:	GA-GCMS-006	Batch Date:	07/20/22 17:21:32		
KRESOXIM-METHYL	0.01	ppm	0.1	PASS	ND	Running on:	07/21/22 09:19:33				
MALATHION	0.01	ppm	0.2	PASS	ND	Dilution:	100				
METALAXYL	0.01	ppm	0.1	PASS	ND	Reagent:	072022.R65; 050621.01; 070822.R07				
METHIOCARB	0.01	ppm	0.1	PASS	ND	Consumables:	947.109; 470228-424; LLS-00-0005; 89012-780; 296055173; 210268; 55447-U.15143701				
METHOMYL	0.01	ppm	0.1	PASS	ND	Pipette:	GA-002; GA-210 Dispenser				
MEVINPHOS	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.					
MYCLOBUTANIL	0.01	ppm	0.1	PASS	ND						
NALED	0.01	ppm	0.25	PASS	ND						
OXAMYL	0.01	ppm	0.5	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 : GA20719001-018

Harvest/Lot ID: ORFCW162-2207-11802

Batch# : LPC-3L-050922-4

Sampled : 07/19/22

Ordered : 07/19/22

Sample Size Received : 16 gram

Total Batch Size : 428 units

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

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
TOTAL XYLENES	15	ppm	150	PASS	ND
PROPANE	500	ppm	5000	PASS	ND
CHLOROFORM	0.2	ppm	2	PASS	ND
BUTANES (N-BUTANE)	500	ppm	5000	PASS	ND
1,2-DICHLOROETHANE	0.2	ppm	2	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 : GA04707450L

Instrument Used : GA-GCMS-004 QP2020NX

Running on : 07/19/22 12:57:15

Reviewed On : 07/20/22 12:04:53

Batch Date : 07/19/22 10:33:06

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

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

 Sample : GA20719001-018
 Harvest/Lot ID: ORFCW162-2207-11802

 Batch# : LPC-3L-050922-4
 Sampled : 07/19/22
 Ordered : 07/19/22
 Sample Size Received : 16 gram
 Total Batch Size : 428 units
 Completed : 07/22/22 Expires: 07/22/23
 Sample Method : SOP.T.20.010

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<div></div> <div>Microbial</div>						<div><div>PASSED</div></div>						<div></div> <div>Mycotoxins</div>						<div><div>PASSED</div></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, 3303, 3317						Weight: 1.02787g	Extraction date: 07/20/22 15:48:44	Extracted by: 3317								
Analyzed by: 3404, 1790, 3209, 2821, 1541						Weight: 0.99g	Extraction date: 07/19/22 14:17:52	Extracted by: 1790			Analysis Method : SOP.T.30.101.FL, SOP.T.40.101.FL, SOP.T.30.102.FL, SOP.T.40.102.FL						Reviewed On : 07/21/22 16:48:35										
Analytical Batch : GA047096MIC						Reviewed On : 07/22/22 08:11:59				Analytical Batch : GA047172MYC						Batch Date : 07/21/22 17:18:28											
Instrument Used : GA-TYM-001 Tempo Filler and Reader						Batch Date : 07/19/22 14:08:28				Instrument Used : GA-LCMS-001 MYC																	
Running on : 07/19/22 15:53:29										Running on : 07/20/22 17:58:41																	
Dilution : 90										Dilution : 10																	
Reagent : 060122.05; 032822.02										Reagent : 072022.R65; 050621.01; 061922.R02; 061922.R04																	
Consumables : 2303260; 2303190; 2304090; 2305240; 61630-123C6-123E										Consumables : 947.109; 470228-424; LLS-00-0005; 89012-780; 296055173; 210268																	
Pipette : GA-154; GA-186; GA-213										Pipette : GA-002; GA-210 Dispenser																	
Microbial testing is performed utilizing various technologies including: PCR, RTPCR, MPN, and traditional culture based techniques in accordance with F.S. Rule 64ER20-39..										Mycotoxins testing utilizing Liquid Chromatography with Triple-Quadrupole Mass Spectrometry in accordance with F.S. Rule 64ER20-39.																	
										<div><div>Hg</div></div>						Heavy Metals						<div><div>PASSED</div></div>					
Analyzed by: 3404, 1790, 3209, 2821, 1541						Weight: 0.99g	Extraction date: 07/19/22 14:17:52	Extracted by: 1790			Metal						LOD	Units	Result	Pass / Fail	Action Level						
Analysis Method : SOP.T.40.041										TOTAL CONTAMINANT LOAD METALS						0.11	PPM	ND	PASS	1.1							
Analytical Batch : GA047097TYM						Reviewed On : 07/22/22 08:12:44				ARSENIC						0.02	PPM	ND	PASS	0.2							
Instrument Used : GA-TYM-001 bioMérieux Tempo Filler and Reader						Batch Date : 07/19/22 14:26:01				CADMIUM						0.02	PPM	ND	PASS	0.2							
Running on : 07/19/22 15:53:31										MERCURY						0.02	PPM	ND	PASS	0.2							
Dilution : 90										LEAD						0.05	PPM	ND	PASS	0.5							
Reagent : 060122.05										Analyzed by: 3404, 3571, 3317, 1541						Weight: 0.4404g	Extraction date: 07/20/22 10:54:45	Extracted by: 3571									
Consumables : 2303260; 2303190; 2304090; 2305240										Analysis Method : SOP.T.30.081.FL, SOP.T.30.082.FL, SOP.T.40.081.FL, SOP.T.40.082.FL						Reviewed On : 07/21/22 11:05:24											
Pipette : GA-154; GA-213										Analytical Batch : GA047039HEA						Batch Date : 07/18/22 17:13:28											
Total yeast and mold testing is performed utilizing MPN and traditional culture based techniques in accordance with F.S. Rule 64ER20-39.										Instrument Used : GA-ICPMS-002						Running on : N/A											
										Dilution : 100																	
										Reagent : 052422.R35; 070522.R18; 010421.51; 071522.04; 071522.R33; 071922.R23; 071922.R24; 042022.R45																	
										Consumables : GA-194; GA-195; CGR0114; 12455-202CD-202C; 210268; L2019501																	
										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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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, 3192, 1541	Weight: 16.3g	Extraction date: 07/19/22 13:17:23	Extracted by: 3192
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Analysis Method : SOP.T.30.074, SOP.T.40.074

Analytical Batch : GA047084FIL

Instrument Used : GA-Filth/Foreign Material Microscope

Running on : N/A

Reviewed On : 07/19/22 15:53:08

Batch Date : 07/19/22 11:50:42

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	0.655	PASS	0.85

Analyzed by: 3404, 3655, 2507	Weight: 0.8516g	Extraction date: 07/20/22 10:12:23	Extracted by: 3655
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Analysis Method : SOP.T.40.019

Analytical Batch : GA047095WAT

Instrument Used : GA-085 Rotronic HygroPalm

Running on : N/A

Reviewed On : 07/20/22 12:21:53

Batch Date : 07/19/22 13:48:02

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.