














Certificate of Analysis

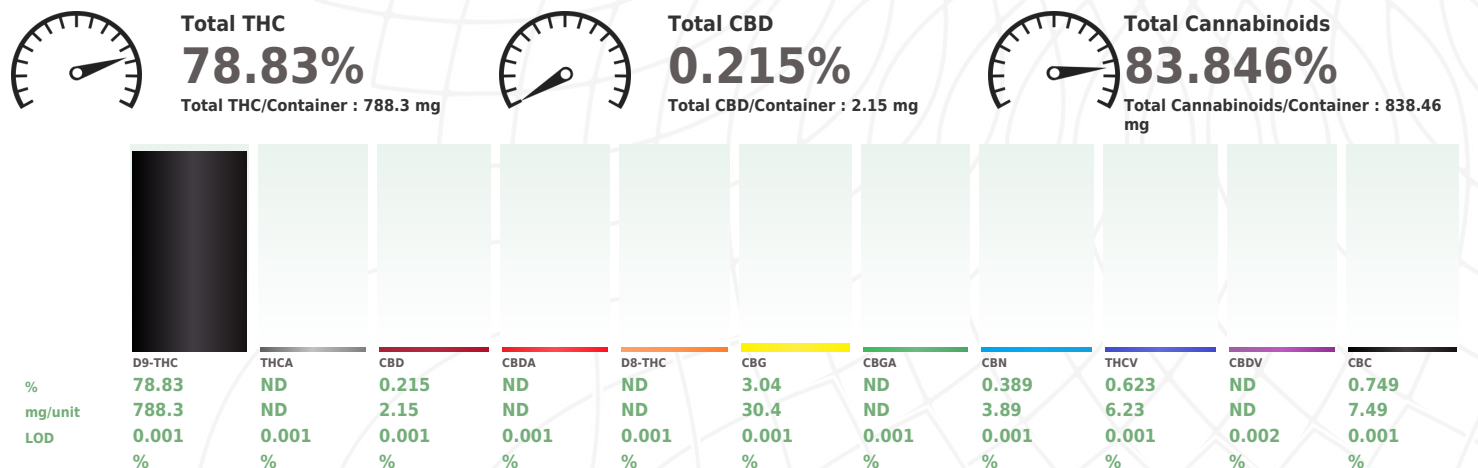
Sample:GA20628001-016
Harvest/Lot ID: ORFS162-2206-10822
Batch#: LPC-172L-040922
Cultivation Facility: Gainesville Cultivation
Processing Facility : Gainesville Processing
Seed to Sale# ORFS162-2206-10822
Batch Date: 06/24/22
Sample Size Received: 16 gram
Total Batch Size: 524 units
Retail Product Size: 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

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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, 3575, 2507, 3303 Analysis Method : SOP.T.40.031, SOP.T.30.031 Analytical Batch : GA046054POT 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	Weight: 0.1033g	Extraction date: 06/29/22 11:15:56	Extracted by: 3575
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Reviewed On : 06/30/22 11:01:52
Batch Date : 06/28/22 09:22:38

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 : GA20628001-016

Harvest/Lot ID: ORFS162-2206-10822

Batch# : LPC-172L-040922

Sampled : 06/28/22

Ordered : 06/28/22

Sample Size Received : 16 gram

Total Batch Size : 524 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 TERPINEOL	0.007	1.99	0.199		BORNEOL	0.013	<0.4	<0.04	
CAMPENE	0.007	ND	ND		GERANIOL	0.007	ND	ND	
BETA-MYRCENE	0.007	0.43	0.043		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	7.46	0.746	
OCIMENE	0.007	0.35	0.035		TRANS-NEROLIDOL	0.007	0.71	0.071	
EUCALYPTOL	0.007	0.21	0.021		GUAJOL	0.007	2.39	0.239	
LINALOOL	0.007	4.43	0.443						
FENCHONE	0.007	0.42	0.042						
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	24.92	2.492						
VALENCENE	0.007	ND	ND						
CIS-NEROLIDOL	0.007	ND	ND						
CEDROL	0.007	ND	ND						
FARNESENE	0	0.8	0.08						
CARYOPHYLLENE OXIDE	0.007	0.99	0.099						
ALPHA-BISABOLOL	0.007	4.03	0.403						
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	1.72	0.172						
GAMMA-TERPINENE	0.007	ND	ND						
TERPINOLENE	0.007	0.93	0.093						
SABINENE HYDRATE	0.007	ND	ND						
FENCHYL ALCOHOL	0.007	2.42	0.242						
CAMPHOR	0.013	ND	ND						
Total (%)			5.42						

Analyzed by: 3404, 3600, 3303, 2155 Analysis Method: SOP.T.30.061A.FL, SOP.T.40.061A.FL Analytical Batch: GA046099TER Instrument Used: GA-GCMS-002 QP2010S Running on: 06/29/22 16:19:54 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-005; GA-149; GA-153; GA-150; GA-211 Dispenser Terpenoid testing is performed utilizing Gas Chromatography Mass Spectrometry.	Weight: 1.0721g Extraction date: 06/28/22 18:05:24 Reviewed On: 06/30/22 12:28:53 Batch Date: 06/28/22 16:35:15	Extracted by: 3600
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 Sample : GA20628001-016
 Harvest/Lot ID: ORFS162-2206-10822
 Batch# : LPC-172L-040922
 Sample Size Received : 16 gram
 Total Batch Size : 524 units
 Sampled : 06/28/22
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 Sample Method : SOP.T.20.010

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<div>  Pesticides </div>						<div> PASSED </div>					
Pesticide	LOD	Units	Action Level	Pass/Fail	Result	Pesticide	LOD	Units	Action Level	Pass/Fail	Result
TOTAL CONTAMINANT LOAD (PESTICIDES)	0.01	PPM	30	PASS	ND	PROPICONAZOLE	0.01	ppm	1	PASS	ND
ABAMECTIN B1A	0.01	ppm	0.3	PASS	ND	PROPOXUR	0.01	ppm	0.1	PASS	ND
ACEPHATE	0.01	ppm	3	PASS	ND	PYRETHRINS	0.01	ppm	1	PASS	ND
ACEQUINOXYL	0.01	ppm	2	PASS	ND	PYRIDABEN	0.01	ppm	3	PASS	ND
ACETAMIPRID	0.01	ppm	3	PASS	ND	SPIROMESIFEN	0.01	ppm	3	PASS	ND
ALDICARB	0.01	ppm	0.1	PASS	ND	SPIROTETRAMAT	0.01	ppm	3	PASS	ND
AZOXYSTROBIN	0.01	ppm	3	PASS	ND	SPIROXAMINE	0.01	ppm	0.1	PASS	ND
BIFENAZATE	0.01	ppm	3	PASS	ND	TEBUCONAZOLE	0.01	ppm	1	PASS	ND
BIFENTHRIN	0.01	ppm	0.5	PASS	ND	THIACLOPRID	0.01	ppm	0.1	PASS	ND
BOSCALID	0.01	PPM	3	PASS	ND	THIAMETHOXAM	0.01	ppm	1	PASS	ND
CARBARYL	0.01	ppm	0.5	PASS	ND	TRIFLOXYSTROBIN	0.01	ppm	3	PASS	ND
CARBOFURAN	0.01	ppm	0.1	PASS	ND	PENTACHLORONITROBENZENE (PCNB) *	0.01	PPM	0.2	PASS	ND
CHLORANTRANILIPROLE	0.01	ppm	3	PASS	ND	PARATHION-METHYL *	0.01	PPM	0.1	PASS	ND
CHLORMEQUAT CHLORIDE	0.01	ppm	3	PASS	ND	CAPTAN *	0.07	PPM	3	PASS	ND
CHLORPYRIFOS	0.01	ppm	0.1	PASS	ND	CHLORDANE *	0.01	PPM	0.1	PASS	ND
CLOFENTZINE	0.01	ppm	0.5	PASS	ND	CHLORFENAPYR *	0.01	PPM	0.1	PASS	ND
COUMAPHOS	0.01	ppm	0.1	PASS	ND	CYFLUTHRIN *	0.05	PPM	1	PASS	ND
DAMINOZIDE	0.01	ppm	0.1	PASS	ND	CYPERMETHRIN *	0.05	PPM	1	PASS	ND
DIAZINON	0.01	ppm	3	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	1.0254g	06/29/22 11:21:17	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 10:28:21		
ETOXAZOLE	0.01	ppm	1.5	PASS	ND	Instrument Used : GA-LCMS-001 PES			Batch Date : 06/28/22 16:38:54		
FENHEXAMID	0.01	ppm	3	PASS	ND	Running on : 06/29/22 15:43:03					
FENOXYCARB	0.01	ppm	0.1	PASS	ND	Dilution : 10					
FENPYROXIMATE	0.01	ppm	2	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	2	PASS	ND	Pipette : GA-002; GA-210 Dispenser					
FLUDIOXONIL	0.01	ppm	3	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	2	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	1	PASS	ND	Analysis Method : SOP.T.30.060, SOP.T.40.060					
KRESOXIM-METHYL	0.01	ppm	1	PASS	ND	Analytical Batch : GA046154VOL			Reviewed On : 06/30/22 10:58:42		
MALATHION	0.01	ppm	2	PASS	ND	Instrument Used : GA-GCMS-006			Batch Date : 06/29/22 12:13:52		
METALAXYL	0.01	ppm	3	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	3	PASS	ND	Pipette : GA-146; GA-182					
NALED	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.					
OXAMYL	0.01	ppm	0.5	PASS	ND						
PACLOBUTRAZOL	0.01	ppm	0.1	PASS	ND						
PHOSMET	0.01	ppm	0.2	PASS	ND						
PIPERONYL BUTOXIDE	0.01	ppm	3	PASS	ND						
PRALLETHRIN	0.01	ppm	0.4	PASS	ND						



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Gainesville, FL, 32609, US

Telephone: (833) 254-4877

Email: Qualityassurance@libertyhealthsciences.com

Sample : GA20628001-016

Harvest/Lot ID: ORFS162-2206-10822

Batch# : LPC-172L-040922

Sampled : 06/28/22

Ordered : 06/28/22

Sample Size Received : 16 gram

Total Batch Size : 524 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		TESTED	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 14:25:13

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.



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
PASSED

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 Sample : GA20628001-016
 Harvest/Lot ID: ORFS162-2206-10822
 Batch# : LPC-172L-040922
 Sampled : 06/28/22
 Ordered : 06/28/22
 Sample Size Received : 16 gram
 Total Batch Size : 524 units
 Completed : 07/01/22 Expires: 07/01/23
 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							
TOTAL YEAST AND MOLD	10	CFU/g	<10	PASS	100000	Analyzed by: 3404, 3209, 3303, 3317	Weight: 1.0254g	Extraction date: 06/29/22 11:21:17	Extracted by: 3209		
Analyzed by: 3404, 1790, 1541 Weight: 1.08g Extraction date: 06/29/22 20:14:21 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 Analytical Batch : GA046153MYC Instrument Used : GA-LCMS-001 MYC Running on : 06/29/22 15:43:13 Reviewed On : 06/30/22 10:44:10 Batch Date : 06/29/22 12:13:43					
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 Reviewed On : 07/01/22 08:03:06 Batch Date : 06/28/22 18:41:27						Dilution : N/A Reagent : aflatoxin_b2; aflatoxin_b1; aflatoxin_g1; aflatoxin_g2 Consumables : 0.02; 0.02; 0.02; 0.02 Pipette : N/A					
Dilution : 90 Reagent : 052622.09 Consumables : 2303260; 2303190; 2304090; 2304090; 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..						<div></div> <div>Heavy Metals</div> <div>PASSED</div>					
Analyzed by:	Weight:	Extraction date:	Extracted by:			Metal	LOD	Units	Result	Pass / Fail	Action Level
N/A	N/A	N/A	N/A			ARSENIC	0.02	PPM	ND	PASS	1.5
Analysis Method : SOP.T.40.041						CADMIUM	0.02	PPM	ND	PASS	0.5
Analytical Batch : GA046114TYM						MERCURY	0.02	PPM	ND	PASS	3
Instrument Used : GA-TYM-001 bioMérieux Tempo Filler and Reader						LEAD	0.05	PPM	ND	PASS	0.5
Running on : 06/30/22 16:23:24						Analyzed by: 3404, 3317, 3571, 2155, 3303	Weight: 0.5852g	Extraction date: 06/29/22 10:56:39	Extracted by: 3571		
Dilution : 90						Analysis Method : SOP.T.30.081.FL, SOP.T.30.082.FL, SOP.T.40.081.FL, SOP.T.40.082.FL					
Reagent : 052622.09						Analytical Batch : GA046034HEA					
Consumables : 2304090; 2304090; GA-185; GA-213; 61630-123C6-123E						Instrument Used : GA-ICPMS-002					
Pipette : GA-154						Running on : 06/30/22 08:39:07					
Total yeast and mold testing is performed utilizing MPN and traditional culture based techniques in accordance with F.S. Rule 64ER20-39.						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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Total Batch Size : 524 units

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

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, 3575, 1541	Weight: 15.1g	Extraction date: 06/28/22 14:35:32	Extracted by: 3575
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Analysis Method : SOP.T.30.074, SOP.T.40.074

Analytical Batch : GA046089FIL

Instrument Used : GA-Filth/Foreign Material Microscope

Running on : N/A

Reviewed On : 06/28/22 16:31:02

Batch Date : 06/28/22 14:34:03

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	0.562	TESTED	

Analyzed by: 3404, 3575, 1541	Weight: 0.8976g	Extraction date: 06/28/22 18:25:50	Extracted by: 3575
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Analysis Method : SOP.T.40.019

Analytical Batch : GA046098WAT

Instrument Used : GA-203 Rotronic HygroPalm

Running on : N/A

Reviewed On : 06/30/22 08:20:26

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.