



Certificate of Analysis

Sample: GA20719001-020
Harvest/Lot ID: SOFS104-2207-11813

Batch#: DF-MIFR-2207-11788

Cultivation Facility: Gainesville Cultivation

Processing Facility : Gainesville Processing

Seed to Sale# SOFS104-2207-11813

Batch Date: 07/12/22

Sample Size Received: 16 gram

Total Batch Size: 2102 units

Retail Product Size: 1 gram

Ordered : 07/19/22

Sampled : 07/19/22












Completed: 07/22/22

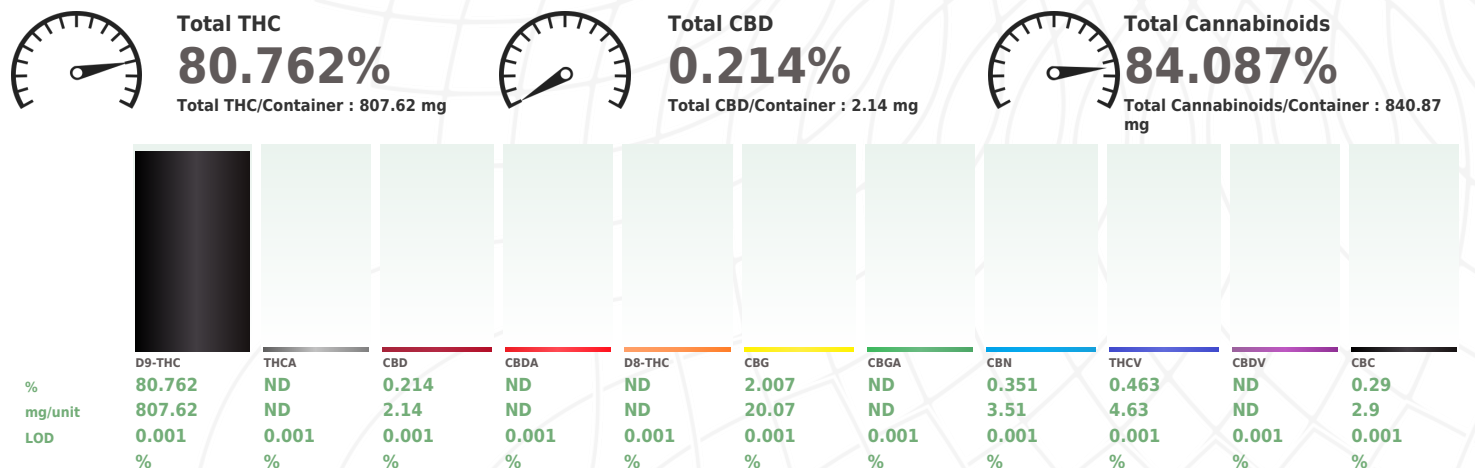
Sampling Method: SOP.T.20.010

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.
	 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 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	Weight: 0.101g	Extraction date: 07/21/22 08:44:42	Extracted by: 3192
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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; RONB32898; 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

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



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18770 N CR 225

Gainesville, FL, 32609, US

Telephone: (833) 254-4877

Email: Qualityassurance@libertyhealthsciences.com

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

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Terpenes

TESTED

Terpenes	LOD (%)	mg/unit	%	Result (%)	Terpenes	LOD (%)	mg/unit	%	Result (%)
TOTAL TERPENES	0.007	45.8	4.58		CAMPHOR	0.013	ND	ND	
TOTAL TERPINEOL	0.007	0.91	0.091		BORNEOL	0.013	ND	ND	
CAMPHENE	0.007	<0.2	<0.02		GERANIOL	0.007	<0.2	<0.02	
BETA-MYRCENE	0.007	5.4	0.54		PULEGONE	0.007	<0.2	<0.02	
3-CARENE	0.007	ND	ND		ALPHA-CEDRENE	0.007	0.39	0.039	
ALPHA-PHELLANDRENE	0.007	0.39	0.039		ALPHA-HUMULENE	0.007	2.78	0.278	
OCIMENE	0.007	1.09	0.109		TRANS-NEROLIDOL	0.007	0.93	0.093	
EUCALYPTOL	0.007	ND	ND		GUAIOL	0.007	ND	ND	
LINALOOL	0.007	4.88	0.488		Analyzed by: 3404, 3655, 3205, 3303, 2155 Weight: 1.0251g 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 12:29:05 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.				
FENCHONE	0.007	ND	ND						
ISOPULEGOL	0.007	ND	ND						
ISOBORNEOL	0.007	<0.2	<0.02						
HEXAHYDROTHYMOL	0.007	ND	ND						
NEROL	0.007	ND	ND						
GERANYL ACETATE	0.007	ND	ND						
BETA-CARYOPHYLLENE	0.007	12.3	1.23						
VALENCENE	0.007	ND	ND						
CIS-NEROLIDOL	0.007	ND	ND						
CEDROL	0.007	ND	ND						
CARYOPHYLLENE OXIDE	0.007	0.5	0.05						
FARNESENE	0	<0.01	ND						
ALPHA-BISABOLOL	0.007	0.93	0.093						
ALPHA-PINENE	0.007	2.49	0.249						
SABINENE	0.007	ND	ND						
BETA-PINENE	0.007	1.81	0.181						
ALPHA-TERPINENE	0.007	ND	ND						
LIMONENE	0.007	9.83	0.983						
GAMMA-TERPINENE	0.007	ND	ND						
TERPINOLENE	0.007	ND	ND						
SABINENE HYDRATE	0.007	ND	ND						
FENCHYL ALCOHOL	0.007	1.17	0.117						
Total (%)			4.58						



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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	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:	1.07075g	Extraction date:	07/20/22 15:48:45
DIMETHOATE	0.01	ppm	0.1	PASS	ND					Extracted by:	3317
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			Reviewed On :	07/22/22 09:29:34
ETOFENPROX	0.01	ppm	0.1	PASS	ND	Analytical Batch :	GA047094PES			Batch Date :	07/19/22 13:47:41
ETOXAZOLE	0.01	ppm	0.1	PASS	ND	Instrument Used :	GA-LCMS-001 PES				
FENHEXAMID	0.01	ppm	0.1	PASS	ND	Running on :	07/20/22 17:57:53				
FENOXYCARB	0.01	ppm	0.1	PASS	ND	Dilution :	10				
FENPYROXIMATE	0.01	ppm	0.1	PASS	ND	Reagent :	072022.R65; 050621.01; 061922.R02; 061922.R04				
FIPRONIL	0.01	ppm	0.1	PASS	ND	Consumables :	947.109; 470228-424; LLS-00-0005; 89012-780; 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:	3404, 3303, 3317	Weight:	1.07075g	Extraction date:	07/20/22 15:48:45
IMAZALIL	0.01	ppm	0.1	PASS	ND					Extracted by:	3317
IMIDACLOPRID	0.01	ppm	0.4	PASS	ND	Analysis Method :	SOP.T.30.060, SOP.T.40.060			Reviewed On :	07/22/22 09:23:37
KRESOXIM-METHYL	0.01	ppm	0.1	PASS	ND	Analytical Batch :	GA047173VOL			Batch Date :	07/20/22 17:21:32
MALATHION	0.01	ppm	0.2	PASS	ND	Instrument Used :	GA-GCMS-006				
METALAXYL	0.01	ppm	0.1	PASS	ND	Running on :	07/21/22 09:19:33				
METHIOCARB	0.01	ppm	0.1	PASS	ND	Dilution :	100				
METHOMYL	0.01	ppm	0.1	PASS	ND	Reagent :	072022.R65; 050621.01; 070822.R07				
MEVINPHOS	0.01	ppm	0.1	PASS	ND	Consumables :	947.109; 470228-424; LLS-00-0005; 89012-780; 296055173; 210268; 55447-U.15143701				
MYCLOBUTANIL	0.01	ppm	0.1	PASS	ND	Pipette :	GA-002; GA-210 Dispenser				
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						



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Sample : GA20719001-020

Harvest/Lot ID: SOFS104-2207-11813

Batch# : DF-MIFR-2207-11788 Sample Size Received : 16 gram

Sampled : 07/19/22

Ordered : 07/19/22

Total Batch Size : 2102 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	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
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 12:04:57

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.



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
PASSED

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 Sample : GA20719001-020
 Harvest/Lot ID: SOFS104-2207-11813
 Batch# : DF-MIFR-2207-11788 Sample Size Received : 16 gram
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 Microbial						 Mycotoxins					
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, 3209, 2821, 1541 Weight: 1g Extraction date: 07/19/22 14:18:28 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 : GA047096MIC Instrument Used : GA-TYM-001 Tempo Filler and Reader Running on : 07/19/22 15:53:29 Dilution : 90 Reagent : 060122.05; 032822.02 Consumables : 2303260; 2303190; 2304090; 2305240; 61630-123C6-123E Pipette : GA-154; GA-186; GA-213						Analyzed by: 3404, 3303, 3317 Weight: 1.07075g Extraction date: 07/20/22 15:48:45 Extracted by: 3317 Analysis Method : SOP.T.30.101.FL, SOP.T.40.101.FL, SOP.T.30.102.FL, SOP.T.40.102.FL Analytical Batch : GA047172MYC Instrument Used : GA-LCMS-001 MYC Running on : 07/20/22 17:58:41 Dilution : 10 Reagent : 072022.R65; 050621.01; 061922.R02; 061922.R04 Consumables : 947.109; 470228-424; LLS-00-0005; 89012-780; 296055173; 210268 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.					
 Heavy Metals						PASSED					
Metal	LOD	Units	Result	Pass / Fail	Action Level	Metal	LOD	Units	Result	Pass / Fail	Action Level
TOTAL CONTAMINANT LOAD METALS	0.11	PPM	ND	PASS	1.1	ARSENIC	0.02	PPM	ND	PASS	0.2
CADMIUM	0.02	PPM	ND	PASS	0.2	CADMIUM	0.02	PPM	ND	PASS	0.2
MERCURY	0.02	PPM	ND	PASS	0.2	MERCURY	0.02	PPM	ND	PASS	0.2
LEAD	0.05	PPM	ND	PASS	0.5	LEAD	0.05	PPM	ND	PASS	0.5
Analyzed by: 3404, 3571, 3317, 1541 Weight: 0.4207g Extraction date: 07/20/22 11:01:12 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 : GA047039HEA 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						Analyzed by: 3404, 3571, 3317, 1541 Weight: 0.4207g Extraction date: 07/20/22 11:01:12 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 : GA047039HEA 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					
Total yeast and mold testing is performed utilizing MPN and traditional culture based techniques in accordance with F.S. Rule 64ER20-39.						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, 3655, 1541	Weight: 14.1101g	Extraction date: 07/19/22 13:56:50	Extracted by: 3655
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Analysis Method : SOP.T.30.074, SOP.T.40.074

Analytical Batch : GA047089FIL

Instrument Used : GA-Filth/Foreign Material Microscope

Running on : N/A

Reviewed On : 07/19/22 15:53:09

Batch Date : 07/19/22 13:18:43

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	0.65	PASS	0.85

Analyzed by: 3404, 3655, 2507	Weight: 0.6016g	Extraction date: 07/20/22 10:16:58	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 12:22:41

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.