



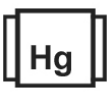










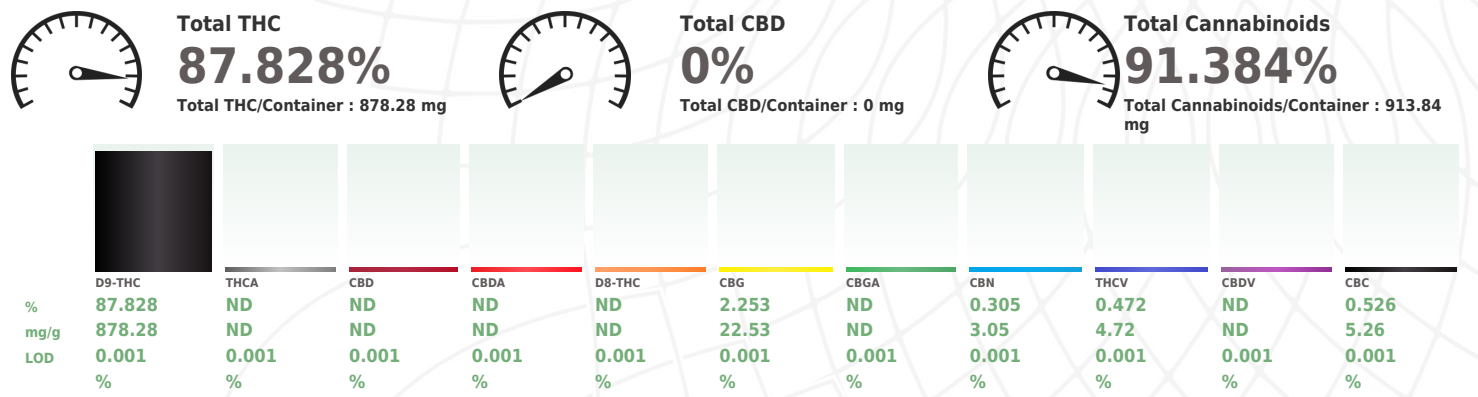
# Certificate of Analysis

**Sample:GA20625001-009**
**Harvest/Lot ID: ENFV102-2206-10524**
**Batch#: DF-TOG-2206-9653**
**Cultivation Facility: Gainesville Cultivation**
**Processing Facility : Gainesville Processing**
**Seed to Sale# ENFV102-2206-10524**
**Batch Date: 06/21/22**
**Sample Size Received: 16 gram**
**Total Batch Size: 1364 gram**
**Retail Product Size: 1 gram**
**Ordered : 06/25/22**
**Sampled : 06/25/22**
**Completed: 06/28/22**
**Sampling Method: SOP.T.20.010.FL**
**PASSED**

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Jun 28, 2022 | Liberty Health Sciences, FL  
18770 N CR 225  
Gainesville, FL, 32609, US


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



<b>Analyzed by:</b> 3404, 2821, 3205, 2338 <b>Weight:</b> 0.1059g	<b>Extraction date:</b> 06/26/22 12:57:25 <b>Reviewed On:</b> 06/27/22 11:55:33 <b>Batch Date:</b> 06/25/22 08:19:39	<b>Extracted by:</b> 2821
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**Analysis Method :** SOP.T.40.031, SOP.T.30.031  
**Analytical Batch :** GA045954POT  
**Instrument Used :** GA-HPLC-003 2030C PDA  
**Running on :** 06/26/22 15:00:31

**Dilution :** 400  
**Reagent :** 020322.R09; 010421.48; 060922.11; 061122.R32; 061122.R29  
**Consumables :** 947.271; 470228-424; 9291.271; LLS-00-0005; 12400-133CD-133C; R0NB32898; 000000146137; 41064115C4115B; 210268; 206639  
**Pipette :** GA-005; GA-149; GA-153; GA-169 (Dispenser)

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



# Certificate of Analysis

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 18770 N CR 225  
 Gainesville, FL, 32609, US  
 Telephone: (833) 254-4877  
 Email: Qualityassurance@libertyhealthsciences.com

 Sample : GA20625001-009  
 Harvest/Lot ID: ENFV102-2206-10524

 Batch# : DF-TOG-2206-9653 Sample Size Received : 16 gram  
 Sampled : 06/25/22 Total Batch Size : 1364 gram  
 Ordered : 06/25/22 Completed : 06/28/22 Expires: 06/28/23  
 Sample Method : SOP.T.20.010

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## Terpenes

**TESTED**

Terpenes	LOD (%)	mg/g	%	Result (%)	Terpenes	LOD (%)	mg/g	%	Result (%)
CAMPHENE	0.007	0.42	0.042		GERANIOL	0.007	ND	ND	
BETA-MYRCENE	0.007	5.58	0.558		PULEGONE	0.007	ND	ND	
3-CARENE	0.007	ND	ND		ALPHA-CEDRENE	0.007	ND	ND	
ALPHA-PHELLANDRENE	0.007	0.24	0.024		ALPHA-HUMULENE	0.007	2.37	0.237	
OCIMENE	0.007	ND	ND		TRANS-NEROLIDOL	0.007	<0.2	<0.02	
EUCALYPTOL	0.007	0.81	0.081		GUAJOL	0.007	ND	ND	
LINALOOL	0.007	3.02	0.302		Analysis Method : SOP.T.30.061A.FL, SOP.T.40.061A.FL	Weight:	0.8286g	Extraction date:	06/26/22 10:16:32
FENCHONE	0.007	ND	ND		Analytical Batch : GA045975TER	Running on :	06/26/22 12:30:28	Reviewed On :	06/27/22 12:03:18
ISOPULEGOL	0.007	ND	ND		Instrument Used : GA-GCMS-002 QP2010S	Batch Date :	06/25/22 14:24:48		
ISOBORNEOL	0.007	<0.2	<0.02		Dilution : 50				
HEXAHYDROTHYMOL	0.007	ND	ND		Reagent : 060922.R22; 050322.49; 010421.51				
NEROL	0.007	ND	ND		Consumables : 947.271; H20364; 9291.271; LLS-00-0005; 210419634; R0NB32898; 000000146137; 944C4 944j; 209598; 206639				
GERANYL ACETATE	0.007	ND	ND		Pipette : GA-002; GA-006; GA-013; GA-211 Dispenser				
BETA-CARYOPHYLLENE	0.007	10.36	1.036		Terpenoid testing is performed utilizing Gas Chromatography Mass Spectrometry.				
VALENCENE	0.007	ND	ND						
CIS-NEROLIDOL	0.007	ND	ND						
CEDROL	0.007	ND	ND						
FARNESENE	0	<0.01	ND						
CARYOPHYLLENE OXIDE	0.007	ND	ND						
ALPHA-BISABOLOL	0.007	0.36	0.036						
ALPHA-PINENE	0.007	1.81	0.181						
SABINENE	0.007	ND	ND						
BETA-PINENE	0.007	2.86	0.286						
ALPHA-TERPINENE	0.007	ND	ND						
LIMONENE	0.007	15.75	1.575						
GAMMA-TERPINENE	0.007	ND	ND						
TERPINOLENE	0.007	ND	ND						
SABINENE HYDRATE	0.007	ND	ND						
FENCHYL ALCOHOL	0.007	1.64	0.164						
CAMPHOR	0.013	ND	ND						
BORNEOL	0.013	ND	ND						
Total (%)			4.543						



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Sample : GA20625001-009

Harvest/Lot ID: ENFV102-2206-10524

Batch# : DF-TOG-2206-9653

Sampled : 06/25/22

Ordered : 06/25/22

Sample Size Received : 16 gram

Total Batch Size : 1364 gram

Completed : 06/28/22 Expires: 06/28/23

Sample Method : SOP.T.20.010

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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	0.1	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
ACEQUINOCYL	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
CLOFENTZINE	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, 3134, 2338, 3298	1.1475g	06/26/22 13:20:03	3134		
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 : GA045980PES		Reviewed On : 06/27/22 10:59:20			
ETOXAZOLE	0.01	ppm	0.1	PASS	ND	Instrument Used : GA-LCMS-001 PES		Batch Date : 06/25/22 14:44:21			
FENHEXAMID	0.01	ppm	0.1	PASS	ND	Running on : 06/26/22 18:06:12					
FENOXYCARB	0.01	ppm	0.1	PASS	ND	Dilution : 10					
FENPYROXIMATE	0.01	ppm	0.1	PASS	ND	Reagent : 061222.R01; 050621.01; 060422.R38; 060422.R36					
FIPRONIL	0.01	ppm	0.1	PASS	ND	Consumables : 947.271; 470228-424; 9291.271; LLS-00-0005; 210419634; 296055173; 41064115C4115B; 209598; 206639					
FLONICAMID	0.01	ppm	0.1	PASS	ND	Pipette : GA-002; GA-006; GA-013; 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	NA	NA	NA	NA		
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 : GA046004VOL		Reviewed On : 06/27/22 10:57:19			
MALATHION	0.01	ppm	0.2	PASS	ND	Instrument Used : GA-GCMS-006		Batch Date : 06/26/22 16:27:02			
METALAXYL	0.01	ppm	0.1	PASS	ND	Running on : 06/26/22 18:10:22					
METHIOCARB	0.01	ppm	0.1	PASS	ND	Dilution : 100					
METHOMYL	0.01	ppm	0.1	PASS	ND	Reagent : 061222.R01; 050621.01; 061522.R52					
MEVINPHOS	0.01	ppm	0.1	PASS	ND	Consumables : 947.271; 470228-424; 9291.271; LLS-00-0005; 210419634; 296055173; 41064115C4115B; 209598; 206639; 15024701					
MYCLOBUTANIL	0.01	ppm	0.1	PASS	ND	Pipette : GA-002; GA-006; GA-013; 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						
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						
PROPICONAZOLE	0.01	ppm	0.1	PASS	ND						





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Gainesville, FL, 32609, US

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Sample : GA20625001-009

Harvest/Lot ID: ENFV102-2206-10524

Batch# : DF-TOG-2206-9653

Sampled : 06/25/22

Ordered : 06/25/22

Sample Size Received : 16 gram

Total Batch Size : 1364 gram

Completed : 06/28/22 Expires: 06/28/23

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:  
 NA

Weight:

 Extraction date:  
 NA

 Extracted by:  
 NA

Analysis Method : SOP.T.40.041.FL

Analytical Batch : GA045974SOL

Instrument Used : GA-GCMS-004 QP2020NX

Running on : 06/25/22 15:51:35

Reviewed On : 06/26/22 13:14:51

Batch Date : 06/25/22 14:04:02

Dilution : 1

Reagent :

Consumables : 27296; 854996

Pipette :

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



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 Sample : GA20625001-009  
 Harvest/Lot ID: ENFV102-2206-10524  
 Batch# : DF-TOG-2206-9653  
 Sample Size Received : 16 gram  
 Total Batch Size : 1364 gram  
 Sampled : 06/25/22  
 Completed : 06/28/22 Expires: 06/28/23  
 Ordered : 06/25/22  
 Sample Method : SOP.T.20.010

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<div> Microbial</div>						<div><div>PASSED</div></div>					
Analyte	LOD	Units	Result	Pass / Fail	Action Level						
ESCHERICHIA COLI SHIGELLA SPP			Not Present	PASS							
SALMONELLA SPECIFIC GENE			Not Present	PASS							
ASPERGILLUS FLAVUS			Not Present	PASS							
ASPERGILLUS FUMIGATUS			Not Present	PASS							
ASPERGILLUS TERREUS			Not Present	PASS							
ASPERGILLUS NIGER			Not Present	PASS							
TOTAL YEAST AND MOLD	10	CFU/g	<10	PASS	100000						
Analyzed by: 3404, 1790, 3574, 1541	Weight: 0.93g	Extraction date: 06/25/22 17:21:06	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 : GA045976MIC			Reviewed On : 06/28/22 15:12:45								
Instrument Used : GA-TYM-001 Tempo Filler and Reader			Batch Date : 06/25/22 14:36:23								
Running on : 06/25/22 17:21:44											
Dilution : 90											
Reagent : 052622.09											
Consumables : 2303260; 2303190; 2304090; 2306070; 2304090; 2305240; 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..											

<div> Mycotoxins</div>						<div><div>PASSED</div></div>					
Analyte	LOD	Units	Result	Pass / Fail	Action Level						
AFLATOXIN B2	0.002	ppm	ND	PASS	0.02						
AFLATOXIN B1	0.002	ppm	ND	PASS	0.02						
OCHRATOXIN A	0.002	ppm	ND	PASS	0.02						
AFLATOXIN G1	0.002	ppm	ND	PASS	0.02						
AFLATOXIN G2	0.002	ppm	ND	PASS	0.02						
Analyzed by: 3404, 3134, 2338, 3298	Weight: 1.1475g	Extraction date: 06/26/22 13:20:03	Extracted by: 3134								
Analysis Method : SOP.T.30.101.FL, SOP.T.40.101.FL, SOP.T.30.102.FL, SOP.T.40.102.FL											
Analytical Batch : GA046005MYC			Reviewed On : 06/27/22 11:01:12								
Instrument Used : GA-LCMS-001 MYC			Batch Date : 06/26/22 16:27:06								
Running on : 06/26/22 18:14:16											
Dilution :											
Reagent : aflatoxin_b2; aflatoxin_b1; aflatoxin_g1; aflatoxin_g2											
Consumables : 0.02; 0.02; 0.02; 0.02											
Pipette :											
Mycotoxins testing utilizing Liquid Chromatography with Triple-Quadrupole Mass Spectrometry in accordance with F.S. Rule 64ER20-39.											

<div><div>Hg</div></div>						<div><div>Heavy Metals</div></div>						<div><div>PASSED</div></div>					
Metal	LOD	Units	Result	Pass / Fail	Action Level												
ARSENIC	0.02	PPM	ND	PASS	0.2												
CADMIUM	0.02	PPM	ND	PASS	0.2												
MERCURY	0.02	PPM	ND	PASS	0.2												
LEAD	0.05	PPM	ND	PASS	0.5												
Analyzed by: 3404, 3134, 2338, 1541	Weight: 0.5136g	Extraction date: 06/26/22 11:10:40	Extracted by: 3134														
Analysis Method : SOP.T.30.081.FL, SOP.T.30.082.FL, SOP.T.40.081.FL, SOP.T.40.082.FL																	
Analytical Batch : GA045979HEA			Reviewed On : 06/26/22 17:35:18														
Instrument Used : GA-ICPMS-002			Batch Date : 06/25/22 14:43:04														
Running on :																	
Dilution : 100																	
Reagent : 052422.R35; 062222.R63; 010421.51; 061621.03; 041622.R02; 051622.R03; 041722.R01; 042022.R45																	
Consumables : CGR0114; 12400-133CD-133C; 209598; L2019501																	
Pipette : GA-012; GA-183; GA - 194; GA-195; 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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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, 3575, 1541	Weight: 9.0567g	Extraction date: 06/25/22 12:54:01	Extracted by: 3575
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Analysis Method : SOP.T.30.074, SOP.T.40.074

Analytical Batch : GA045966FIL

Instrument Used : GA-Filth/Foreign Material Microscope

Running on :

Reviewed On : 06/25/22 18:23:53

Batch Date : 06/25/22 12:53:31

Dilution : 1

Reagent :

Consumables :

Pipette :

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, 3134, 3192	Weight: 1.0639g	Extraction date: 06/26/22 16:14:56	Extracted by: 3134
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Analysis Method : SOP.T.40.019

Analytical Batch : GA045978WAT

Instrument Used : GA-203 Rotronic HygroPalm

Running on :

Reviewed On : 06/27/22 13:02:33

Batch Date : 06/25/22 14:40:53

Dilution : 1

Reagent :

Consumables : 107264

Pipette :

Water Activity is performed using a Rotronic HygroPalm HP 23-AW in accordance with F.S. Rule 64ER20-39.