



# Certificate of Analysis

Groove Solventless

Sample: 2408FID4235.27744

Strain: Swampwater Fumez

Batch #: A; Lot #:

METRC Batch: 1A408010000E4E9000001965; METRC Sample: 1A4080100013EC1000004112

Analysis Initiated: 08/16/2024; Report Created: 08/20/2024

Sampling SOP: SOP-0050

## Swampwater Fumez Solventless Hand-Pressed Hash (HB70)

Concentrates & Extracts, Hash - Hard, Ice/Water  
Harvest/Production Date: 08/06/2024



	<b>73.35%</b> Total Potential Psychoactive THC	<b>0.22%</b> Total CBD	<b>Pass</b> Foreign Matter
	<b>83.55%</b> Total Raw THC	<b>86.72%</b> Total Cannabinoids	<b>Complete</b> NR Moisture

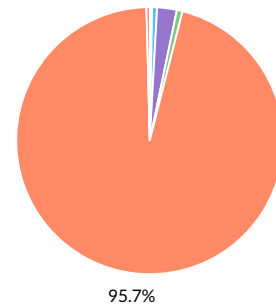
## Cannabinoids

Pass

Analytical Calibration Batch: Cannabinoids AF 07092024

Analyte	LOQ	Mass	Mass
	%	%	mg/g
THCa	0.09	82.95	829.5
Δ9-THC	0.09	0.59	5.9
Δ8-THC	0.09	ND	ND
THCVa	0.09	0.34	3.4
THCV	0.09	ND	ND
CBDa	0.09	0.25	2.5
CBD	0.09	ND	ND
CBN	0.09	ND	ND
CBGa	0.09	2.07	20.7
CBG	0.09	0.52	5.2
CBC	0.09	ND	ND
<b>Total</b>		<b>86.72</b>	<b>867.2</b>

■ CBDa 
 ■ CBG 
 ■ CBGa 
 ■ Δ9-THC  
■ THCa 
 ■ THCVa



Total Potential Psychoactive THC = THCa \* 0.877 + d9-THC | Total CBD = CBDa \* 0.877 + CBD

LOQ = Limit of Quantitation; NT = Not Tested; NR = Not Reported; ND = None Detected.

SOP-0041: Full spectrum cannabinoid analysis by High Performance Liquid Chromatography with UV detection (HPLC-UV). Reported result is based on sample dry weight. SOP-0035: Foreign matter inspection includes but is not limited to hair, insects, stems, seeds, and feces. SOP-0036: Moisture analysis. Testing listed above may not be included in our current PJLA scope of accreditation. Please consult PJLA Certificate# 102722 for a list of current accredited tests.



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Accreditation #: 102722

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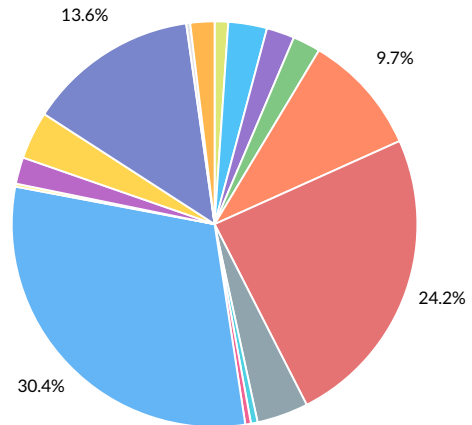
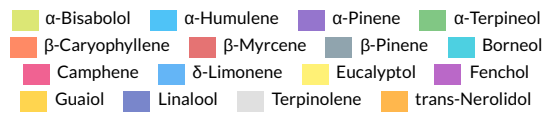
Concentrates & Extracts, Hash - Hard, Ice/Water  
Harvest/Production Date: 08/06/2024



## Terpenes

Analytical Calibration Batch: Terpenes 07/26/2024

Analyte	LOQ	Result	Result
	%	%	mg/g
δ-Limonene	0.008	1.880	18.80
β-Myrcene	0.008	1.498	14.98
Linalool	0.008	0.843	8.43
β-Caryophyllene	0.008	0.598	5.98
β-Pinene	0.008	0.254	2.54
Guaiol	0.008	0.235	2.35
α-Humulene	0.008	0.191	1.91
α-Pinene	0.008	0.138	1.38
α-Terpineol	0.005	0.137	1.37
Fenchol	0.003	0.131	1.31
trans-Nerolidol	0.008	0.119	1.19
α-Bisabolol	0.008	0.067	0.67
Borneol	0.003	0.033	0.33
Camphene	0.008	0.028	0.28
Terpinolene	0.008	0.020	0.20
Eucalyptol	0.008	0.015	0.15
α-Phellandrene	0.003	ND	ND
α-Terpinene	0.008	ND	ND
Caryophyllene Oxide	0.008	ND	ND
cis-Nerolidol	0.008	ND	ND
δ-3-Carene	0.008	ND	ND
γ-Terpinene	0.008	ND	ND
Geraniol	0.008	ND	ND
Geranyl Acetate	0.003	ND	ND
Isopulegol	0.008	ND	ND
Ocimene	0.008	ND	ND
p-Cymene	0.008	ND	ND
<b>Total</b>		<b>6.186</b>	<b>61.86</b>



## Primary Aromas



Lemon



Hops



Lavender



Cinnamon



Pine

LOQ = Limit of Quantitation; NT = Not Tested; NR = Not Reported; ND = None Detected. Results based on dry weight. SOP-0037; GC-FID Analysis of Terpenes in Cannabis and Cannabis Products. Testing listed above may not be included in our current PJLA scope of accreditation. Please consult PJLA Certificate# 102722 for a list of current accredited tests.



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Concentrates & Extracts, Hash - Hard, Ice/Water

Harvest/Production Date: 08/06/2024



### Residual Solvents

Pass

Analytical Calibration Batch: 08/12/2024 R.S.

Analyte	LOQ	State Limits	Mass	Status	Analyte	LOQ	State Limits	Mass	Status
	PPM	PPM	PPM			PPM	PPM	PPM	
Acetone	400	5000	ND	Pass	Hexanes	20	290	ND	Pass
Benzene	2	2	ND	Pass	Isopropanol	400	5000	<LOQ	Pass
Butanes	40	5000	ND	Pass	Methanol	400	3000	<LOQ	Pass
Chloroform	2	2	ND	Pass	Pentanes	20	5000	ND	Pass
Cyclohexane	20	3880	ND	Pass	Propane	40	5000	ND	Pass
Dichloromethane	20	5000	ND	Pass	Toluene	20	890	ND	Pass
Ethyl-Acetate	20	5000	ND	Pass	Xylenes	20	2170	ND	Pass
Heptanes	20	5000	ND	Pass					

LOQ = Limit of Quantitation; NT = Not Tested; NR = Not Reported; ND = None Detected. PPM = Parts per Million. SOP-0060; A mass spectrum analysis of Residual Solvents using Gas Chromatography Mass Spectrometry (Thermo Scientific ISQ7000 GCMS).

### Mycotoxins

Pass

Analytical Calibration Batch: 08/18/2024

Analyte	LOQ	State Limit	Mass	Status
	PPB	PPB	PPB	
Ochratoxin A	12	20	ND	Pass
Total Aflatoxins	20	20	ND	Pass

LOQ = Limit of Quantitation; NT = Not Tested; NR = Not Reported; ND = None Detected. PPB = Parts per Billion. SOP-0042; Pesticide & Mycotoxin screening is performed using Sciex 6500+ LCMSMS with Exion XR front HPLC.

### Microbials

Pass

Analyte	Limit	Mass	Status
	CFU/g	CFU/g	
Mold	10000	NR	NT
Aspergillus flavus	Not Detected in 1.0g	ND	Pass
Aspergillus fumigatus	Not Detected in 1.0g	ND	Pass
Aspergillus niger	Not Detected in 1.0g	ND	Pass
Aspergillus terreus	Not Detected in 1.0g	ND	Pass
Salmonella	Not Detected in 1.0g	ND	Pass
STEC	Not Detected in 1.0g	ND	Pass

NT = Not Tested; NR = Not Reported; ND = None Detected. TNTC = Too Numerous to Count; SOP-0058: STEC and Salmonella analysis on AriaDX qPCR using Medicinal Genomics validated methods. SOP-0063: Aspergillus species specific analysis on AriaDX qPCR using Medicinal Genomics validated methods. SOP-0061: Mold enumeration using Hardy Diagnostics media.



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Concentrates & Extracts, Hash - Hard, Ice/Water  
Harvest/Production Date: 08/06/2024



## Pesticides

Analytical Calibration Batch: 08/18/2024

Pass

Analyte	LOQ	State Limit	Expanded Limit	Mass	Status
	PPM	PPM	PPM	PPM	
Abamectin	0.30	2.5	2.5	ND	Pass
Acequinocyl	0.30	10	10	ND	Pass
Bifenazate	0.30	1	1	ND	Pass
Bifenthrin	0.30	1	1	ND	Pass
Chloromequat chloride	0.30	5	5	ND	Pass
Cyfluthrin	0.30	5	5	ND	Pass
Daminozide	0.30	5	5	ND	Pass
Etoxazole	0.30	1	1	ND	Pass
Fenoxycarb	0.30	1	1	ND	Pass
Imazalil	0.30	1	1	ND	Pass
Imidacloprid	0.30	2	2	ND	Pass
Myclobutanil	0.30	0.6	0.6	ND	Pass
Paclobutrazol	0.30	2	2	ND	Pass
Pyrethrins	0.30	5	5	ND	Pass
Spinosad	0.30	1	1	ND	Pass
Spirotetramat	0.30	1	1	ND	Pass
Trifloxystrobin	0.30	1	1	ND	Pass

LOQ = Limit of Quantitation; NT = Not Tested; NR = Not Reported; ND = None Detected. PPM = Parts per Million. SOP-0042; Pesticide & Mycotoxin screening is performed using Sciex 6500+ LCMSMS with Exion XR front HPLC.



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