

Sweetwater Hemp Company

 27905 Sweetwater Rd
 Pleasanton, NE 68866
 rory@sweetwaterhempcompany.com

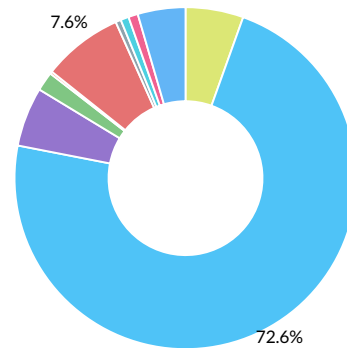
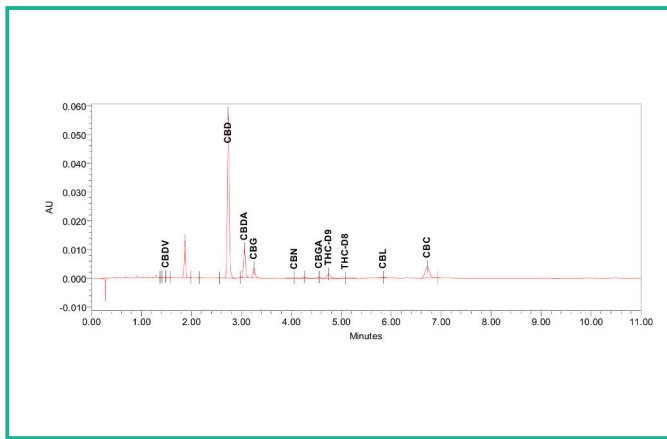
Lic. #31_0058, PH 0011

Sample: 2211KAS0159.0438

 Strain: Mixture
 Batch#: CBD-H-19-PK-4; Batch Size: g
 Sample Received: 11/07/2022; Report Created: 11/30/2022

Sampling: ; Environment:

Mixture CO

 Concentrates & Extracts, Full Extract Cannabis Oil, Ice/Water
 Harvest Process Lot: ; METRC Batch: ; METRC Sample:


Cannabinoids

Uncertainty: %

0.2643% Total THC	4.6454% Total CBD	5.8613% Total Cannabinoids	Complete
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Analyte	LOD	LOQ	Mass	Mass	Uncertainty	Analyte	LOD	LOQ	Mass	Mass	Uncertainty
	%	%	%	mg/g			%	%	%	mg/g	
THCa	0.0001	0.0002	ND	ND		CBDV	0.0000	0.0001	0.0299	0.299	0.0011
Δ9-THC	0.0000	0.0001	0.2643	2.643	0.0198	CBN	0.0000	0.0001	0.0132	0.132	0.0005
Δ8-THC	0.0000	0.0001	0.0526	0.526	0.004	CBGa	0.0000	0.0001	0.0452	0.452	0.0015
THCVa	0.0000	0.0000	ND	ND		CBG	0.0000	0.0001	0.3290	3.290	0.0194
THCV	0.0000	0.0001	ND	ND		CBCa	0.0000	0.0001	ND	ND	
THCo	0.0001	0.0002	ND	ND		CBC	0.0000	0.0001	0.3211	3.211	0.0243
CBDa	0.0000	0.0001	0.4457	4.457	0.0156	CBLa	0.0001	0.0003	ND	ND	
CBD	0.0000	0.0001	4.2546	42.546	0.2466	CBL	0.0001	0.0002	0.1058	1.058	0.0089
CBDVa	0.0000	0.0001	ND	ND		Total			5.8613	58.613	

Total THC = THCa * 0.877 + Δ9-THC
 Total CBD = CBDa * 0.877 + CBD
 Instrument: Waters ACQUITY UPLC™ H-Class PLUS System with UV detection.
 Water Activity Instrument: Rotronic HC2-Aw USB Set.
 Moisture Instrument: Mettler Toledo HE53 Halogen Moisture Analyzer

 Kennebec Analytical Services, LLC
 3800 S 6th St
 Lincoln, NE
 (402) 413-9796
 www.kennebecanalytical.com/
 Lic# RK0608793



 Inga Krassovskaya
 Lab Director

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ND=Not Detected; NR=Not Reported; LOD=Limit of Detection; LOQ=Limit of Quantitation. This product has been tested by Kennebec Analytical Services (KAS), using valid testing methods and a quality system as required by state law. The Certificate of Accreditation No. AT-2939 for cannabinoid potency may be found at www.ANAB.org. Values reported relate only to the product tested and batched under the batch number identified above. KAS makes no claims as to the efficacy, safety, or other risks for any detected or non-detected level of any compounds reported herein. This Certificate of Analysis must not be altered, and shall not be reproduced except in full, without the written approval of KAS.

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Safety

Complete Pesticides	Not Tested Microbials	Complete Mycotoxins
Not Tested Solvents	Complete Metals	Not Tested Foreign Matter

Microbials

Not Tested

Analyte	Limit	Mass	Status
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Residual Solvents

Not Tested

Analyte	LOQ	Limit	Mass	Status
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Heavy Metals

Complete

Analyte	LOQ	Limit	Mass	Status
	PPB	PPB	PPB	
Arsenic	0		ND	Tested
Cadmium	0		ND	Tested
Lead	0		ND	Tested
Mercury	1		20	Tested


Mycotoxins

Complete

Analyte	LOQ	Limit	Mass	Status
	PPM	PPM	PPM	
B1	0.00		ND	Tested
B2	0.00		ND	Tested
G1	0.00		ND	Tested
G2	0.00		ND	Tested
Ochratoxin A	0.00		ND	Tested

Instrument: Waters ACQUITY UPLC™ H-Class PLUS System with Xevo™ TQ-S micro Tandem Quadrupole Mass Spectrometer; Method: UPLC-MS/MS.

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Pesticides

Complete

Analyte	LOQ PPM	Limit PPM	Mass PPM	Status	Analyte	LOQ PPM	Limit PPM	Mass PPM	Status
Abamectin			ND	Tested	Hexythiazox			NR	NT
Acephate			ND	Tested	Imazalil			NR	NT
Acequinocyl			NR	NT	Imidacloprid			ND	Tested
Acetamiprid			NR	NT	Kresoxim Methyl			ND	Tested
Aldicarb			NR	NT	Malathion			ND	Tested
Azoxystrobin			ND	Tested	Metalaxyl			ND	Tested
Bifenazate			ND	Tested	Methiocarb			ND	Tested
Bifenthrin			NR	NT	Methomyl			ND	Tested
Boscalid			0.009	Tested	Methyl Parathion			NR	NT
Carbaryl			ND	Tested	Myclobutanil			ND	Tested
Carbofuran			ND	Tested	Naled			ND	Tested
Chlorantraniliprole			ND	Tested	Oxamyl			ND	Tested
Chlorfenapyr			ND	Tested	Paclobotrazol			ND	Tested
Chlorpyrifos			ND	Tested	Permethrin			NR	NT
Clofentezine			ND	Tested	Phosmet			NR	NT
Cyfluthrin			NR	NT	Piperonyl Butoxide			ND	Tested
Cypermethrin			NR	NT	Prallethrin			ND	Tested
Daminozide	0.192		0.196	Tested	Propiconazole			ND	Tested
Diazinon			ND	Tested	Propoxur			ND	Tested
Dichlorvos			NR	NT	Pyrethrins			ND	Tested
Dimethoate			ND	Tested	Pyridaben			NR	NT
Ethoprophos			NR	NT	Spinosad			ND	Tested
Etofenprox			ND	Tested	Spiromesifen			ND	Tested
Etoxazole			ND	Tested	Spirotetramat			ND	Tested
Fenoxycarb			ND	Tested	Spiroxamine			ND	Tested
Fenpyroximate			ND	Tested	Tebuconazole			ND	Tested
Fipronil	0.025		ND	Tested	Thiacloprid			ND	Tested
Flonicamid			ND	Tested	Thiamethoxam			ND	Tested
Fludioxonil			NR	NT	Trifloxystrobin			ND	Tested

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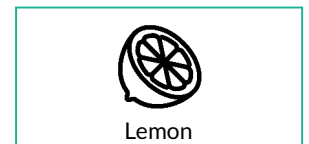
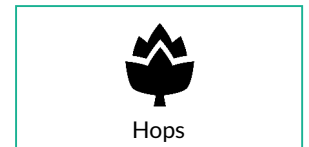
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Terpenes

Analyte	LOQ	Mass	Mass
	%	%	mg/g
α-Humulene	0.0004	0.0808	0.808
α-Pinene	0.0003	0.0212	0.212
α-Terpinene	0.0003	ND	ND
β-Caryophyllene	0.0005	0.2663	2.663
β-Myrcene	0.0003	0.3559	3.559
Camphene	0.0004	ND	ND
Caryophyllene Oxide	0.0005	0.0471	0.471
δ-3-Carene	0.0002	ND	ND
δ-Limonene	0.0002	0.0736	0.736
Eucalyptol	0.0002	ND	ND
γ-Terpinene	0.0002	ND	ND


Analyte	LOQ	Mass	Mass
	%	%	mg/g
Geraniol	0.0007	ND	ND
Linalool	0.0003	0.0028	0.028
Nerolidol	0.0008	ND	ND
Ocimene	0.0003	0.0333	0.333
(-) -β-Pinene	0.0002	0.0215	0.215
(-) -α-Bisabolol	0.0006	0.0640	0.640
(-) -Guaiol	0.0005	0.0293	0.293
(-) -Isopulegol	0.0004	ND	ND
p-Cymene	0.0002	ND	ND
Terpinolene	0.0003	ND	ND

Primary Aromas



Instrument: Agilent 6890GC- 5973 MSD; Method: GC-MS.

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Acceptable Limits of Heavy Metal Contaminants in Cannabis (ppb)			
Heavy Metal	Respirable	Others	lowa
Arsenic	200	1500	1500
Cadmium	200	500	300
Lead	500	500	1000
Mercury	100	3000	500



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Analyte	State of Oregon limit levels (ppm)	State of Missouri limit levels (ppm)	LOQ limit ppm(AOAC)
Abamectin	>0.5	>0.5	0.025
Acephate	>0.4	>0.4	0.05
Acequinocyl	>2	>2	0.05
Acetamiprid	>0.2	>0.2	0.05
Aldicarb	>0.4	>0.4	0.05
Azoxystrobin	>0.2	>0.2	0.01
Bifenazate	>0.2	>0.2	0.005
Bifenthrin	>0.2	>0.2	0.005
Boscalid	>0.4	>0.4	0.05
Carbaryl	>0.2	>0.2	0.1
Carbofuran	>0.2	>0.2	0.05
Chlorantraniliprole	>0.2	>0.2	0.1
Chlorfenspyr	>1	>0.2	0.05
Chlorpyrifos	>0.2	>0.2	0.05
Clofentazine	>0.2	>0.2	0.05
Cyfluthrin (Baythroid)	>1	>1	0.005
Cypermethrin	>1	>1	0.025
Dichlorvos/DDVP	>0.1	>1	0.05
Daminozide	>1	>1	0.025
Diazinon	>0.2	>0.2	0.05
Dimethoate	>0.2	>0.2	0.05
Ethoprophos	>0.2	>0.2	0.05
Etofenprox	>0.4	>0.4	0.05
Etoxazole	>0.2	>0.2	0.005
Fenoxycarb	>0.2	>0.2	0.05
Fenpyroximate	>0.4	>0.4	0.05
Fipronil	>0.4	>0.4	0.05
Fonicamid	>1	>1	0.05
Fludioxonil	>4	>4	0.01
Hexthiazox	>1	>1	0.05
Imazalil	>0.2	>0.2	0.005
Imidacloprid	>0.4	>0.4	0.005
Kresoxim-Methyl	>0.4	>0.4	0.05
Malathion	>0.2	>0.2	0.025
Metolachl	>0.2	>0.2	0.1
Methiocarb	>0.2	>0.2	0.05
Methomyl	>0.4	>0.4	0.2
Methyl parathion	>0.2	>0.2	0.05
Myclobutanil (Systhane)	>0.2	>0.2	0.005
PESTANAL, debrom, NALED analytical standard	>0.5	>0.5	0.05
Oxamyl	>1	>1	0.25
Permethrin	>0.4	>0.4	0.025
Permethrin (mix of cis & trans)	>0.2	>0.2	0.02
Phosmet (Imidan)	>0.2	>0.2	0.01
Piperonyl butoxide	>2	>2	0.5
Prallethrin (Isomer mix)	>0.2	>0.2	0.05
Propiconazole (Iflit)	>0.4	>0.4	0.05
Propoxur (Baygon)	>0.2	>0.2	0.05
Pyrethrins (mix of isomers)	>1	>1	0.02
Pyridaben	>0.2	>0.2	0.05
Spinosad A and D	>0.2	>0.2	0.03
Spiromesifen	>0.2	>0.2	0.005
Spirotetramat	>0.2	>0.2	0.01
Spiroxamine	>0.4	>0.4	0.05
Tebuconazole	>0.4	>0.4	0.005
Thiadioprid	>0.2	>0.2	0.05
Thiamethoxam	>0.2	>0.2	0.025
Trifloxystrobin	>0.2	>0.2	0.05
Aflatoxin B1 (from Aspergillus flavus)	>0.02	>0.02	
Aflatoxin B2	>0.02	>0.02	
Aflatoxin G1 (from Aspergillus flavus)	>0.02	>0.02	
Aflatoxin G2	>0.02	>0.02	
Ochratoxin A (from Petromyces albertensis)	>0.02	>0.02	

