

Sweetwater Hemp Company

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

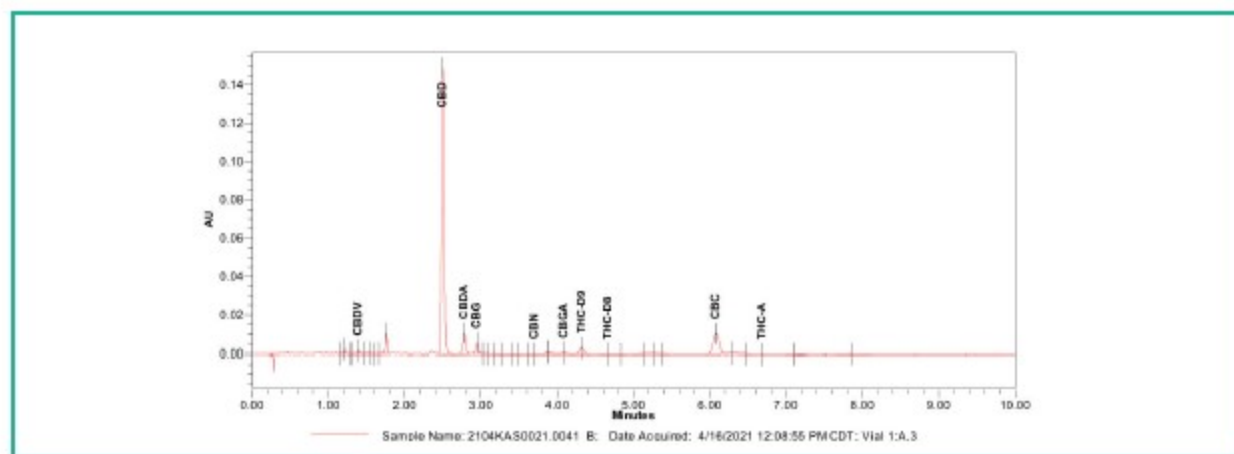
Sample: 2105KAS0023.0051

 Strain: Big Red
 Batch#: Big Red; Batch Size: g
 Sample Received: 05/04/2021; Report Created: 06/09/2021

Lic. #31_0058, PH 0011

Sampling: ; Environment:

Big Red

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

Cannabinoids

Uncertainty: %

0.1953%

Pass

Total THC
5.0443%
Total CBD
5.8825%
Total Cannabinoids
Complete

Analyte	LOD	LOQ	Mass	Mass	Uncertainty	Analyte	LOD	LOQ	Mass	Mass	Uncertainty
	%	%	%	mg/g			%	%	%	mg/g	
CBD	0.0001	0.0005	4.8383	48.383	0.4935	THCa	0.0001	0.0005	0.0010	0.010	0.0001
CBDa	0.0000	0.0001	0.2348	2.348	0.0221	CBDV	0.0000	0.0001	0.0424	0.424	0.0041
CBG	0.0001	0.0005	0.1904	1.904	0.019	CBC	0.0001	0.0005	0.3530	3.530	0.0635
CBGa	0.0000	0.0005	0.0243	0.243	0.0023	CBCa			NR	NR	
CBN	0.0000	0.0001	0.0038	0.038	0.0001	THCV			NR	NR	
Δ^9 -THC	0.0001	0.0005	0.1945	1.945	0.0179	CBL			NR	NR	
Δ^8 -THC	0.0001	0.0005	NR	NR		Total			5.8825	58.825	

 Total THC = THCa * 0.877 + Δ^9 -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 HES3 Halogen Moisture Analyzer

 Kennebec Analytical Services, LLC
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 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, using valid testing methodologies and a quality system as required by state law. Values reported relate only to the product tested and batched under the batch number identified above. Kennebec Analytical Services makes no claims as to the efficacy, safety, or other risks associated with any detected or non-detected level of any compounds reported herein. This Certificate must not be altered, and shall not be reproduced except in full, without the written approval of Kennebec Analytical Services.

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 Harvest Process Lot: ; METRC Batch: ; METRC Sample:


Safety

Complete Pesticides	Not Tested Microbials	Complete Mycotoxins
Not Tested Solvents	Not Tested 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

Not Tested

Analyte	LOQ	Limit	Mass	Status
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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.



Sweetwater Hemp Company

 27905 Sweetwater Rd
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Sample: 2105KAS0023.005 1

 Strain: Big Red
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 Sample Received: 05/04/2021; Report Created: 06/09/2021

Lic. #31_0058, PH 0011

Sampling: ; Environment:

Big Red

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


Pesticides

Complete

Analyte	LOQ	Limit	Mass	Status	Analyte	LOQ	Limit	Mass	Status
	PPM	PPM	PPM			PPM	PPM	PPM	
Abamectin	0.000		ND	Tested	Fludioxonil	0.000		ND	Tested
Acephate	0.000		ND	Tested	Hexythiazox			NR	NT
Acequinocyl			NR	NT	Imazalil	0.000		ND	Tested
Acetamiprid	0.000		ND	Tested	Imidacloprid	0.000		ND	Tested
Aldicarb	0.000		ND	Tested	Kresoxim Methyl	0.000		ND	Tested
Azoxystrobin	0.000		ND	Tested	Malathion	0.000		ND	Tested
Bifenazate	0.000		ND	Tested	Metalaxyl	0.000		ND	Tested
Bifenthrin			NR	NT	Methiocarb	0.000		ND	Tested
Boscalid	0.000		ND	Tested	Methomyl	0.000		ND	Tested
Captan			NR	NT	Methyl Parathion			NR	NT
Carbaryl	0.000		ND	Tested	Mevinphos			NR	NT
Carbofuran	0.000		ND	Tested	MGK-264	0.000		ND	Tested
Chlorantraniliprole	0.000		ND	Tested	Myclobutanil	0.000		ND	Tested
Chlordane			NR	NT	Oxamyl	0.000		ND	Tested
Chlorfenapyr			NR	NT	Pacllobutrazol	0.000		ND	Tested
Chloromequat			NR	NT	Pentachloronitrobenzene			NR	NT
Chlorpyrifos			NR	NT	Permethrin			NR	NT
Clofentezine			NR	NT	Phosmet	0.000		ND	Tested
Coumaphos			NR	NT	Piperonyl Butoxide			NR	NT
Cyfluthrin			NR	NT	Prallethrin	0.000		ND	Tested
Cypermethrin			NR	NT	Propiconazole	0.000		ND	Tested
Daminozide	0.000		ND	Tested	Propoxur	0.000		ND	Tested
Diazinon	0.000		ND	Tested	Pyrethrins			NR	NT
Dichlorvos	0.000		ND	Tested	Pyridaben			NR	NT
Dimethoate	0.000		ND	Tested	Spinetoram			NR	NT
Dimethomorph			NR	NT	Spinosad	0.000		ND	Tested
Ethoprophos	0.000		ND	Tested	Spiromesifen			NR	NT
Etofenprox			NR	NT	Spirotetramat	0.000		ND	Tested
Etoxazole			NR	NT	Spiroxamine	0.000		ND	Tested
Fenhexamid			NR	NT	Tebuconazole	0.000		ND	Tested
Fenoxycarb	0.000		ND	Tested	Thiadoprid	0.000		ND	Tested
Fenpyroximate			NR	NT	Thiamethoxam	0.000		ND	Tested
Fipronil	0.000		ND	Tested	Trifloxystrobin	0.000		ND	Tested
Flonicamid	0.000		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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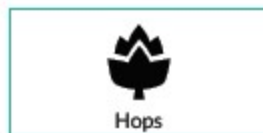
 Concentrates & Extracts, Full Extract Cannabis Oil, Ice/Water
 Harvest Process Lot: ; METRC Batch: ; METRC Sample:


Terpenes

Analyte	LOQ	Mass	Mass	
	mg/g	mg/g	%	
β-Caryophyllene	0.00	1.47	0.147	<div style="width: 100%; height: 10px; background-color: #008000;"></div>
β-Myrcene	0.00	0.83	0.083	<div style="width: 80%; height: 10px; background-color: #008000;"></div>
(-)-α-Bisabolol	0.00	0.54	0.054	<div style="width: 60%; height: 10px; background-color: #008000;"></div>
α-Humulene	0.00	0.52	0.052	<div style="width: 55%; height: 10px; background-color: #008000;"></div>
α-Pinene	0.00	0.51	0.051	<div style="width: 50%; height: 10px; background-color: #008000;"></div>
β-Pinene	0.00	0.26	0.026	<div style="width: 25%; height: 10px; background-color: #008000;"></div>
Ocimene	0.00	0.20	0.020	<div style="width: 20%; height: 10px; background-color: #008000;"></div>
Guaiol	0.00	0.20	0.020	<div style="width: 20%; height: 10px; background-color: #008000;"></div>
R(+)-Limonene	0.00	0.14	0.014	<div style="width: 15%; height: 10px; background-color: #008000;"></div>
Caryophyllene	0.00	0.14	0.014	<div style="width: 15%; height: 10px; background-color: #008000;"></div>
Oxide				<div style="width: 5%; height: 10px; background-color: #008000;"></div>
α-Terpinene	0.00	0.11	0.011	<div style="width: 10%; height: 10px; background-color: #008000;"></div>
Linalool	0.00	0.10	0.010	<div style="width: 10%; height: 10px; background-color: #008000;"></div>
Camphene	0.00	0.07	0.007	<div style="width: 7%; height: 10px; background-color: #008000;"></div>
Eucalyptol	0.00	0.07	0.007	<div style="width: 7%; height: 10px; background-color: #008000;"></div>
3-Carene	0.00	ND	ND	
α-Cedrene		NR	NR	
α-Phellandrene		NR	NR	
α-Terpineol		NR	NR	
Camphor		NR	NR	
Cedrol		NR	NR	
cis-Nerolidol	0.00	ND	ND	

Analyte	LOQ	Mass	Mass
	mg/g	mg/g	%
Endo-Fenchyl		NR	NR
Alcohol		NR	NR
Farnesene		NR	NR
Fenchone		NR	NR
γ-Terpinene	0.00	ND	ND
Geraniol		NR	NR
Geranyl Acetate		NR	NR
Hexahydro		NR	NR
Thymol		NR	NR
Isoborneol		NR	NR
L(-)-Fenchone		NR	NR
Nerol		NR	NR
(-)-Isopulegol	0.00	ND	ND
(1R)-(-)-Camphor		NR	NR
(1S)-(-)-Camphor		NR	NR
(-)-Borneol		NR	NR
(+)-Borneol		NR	NR
(+)-Pulegone		NR	NR
Sabinene		NR	NR
Sabinene Hydrate		NR	NR
Terpinolene	0.00	ND	ND
trans-Nerolidol	0.00	ND	ND
Valencene		NR	NR

Primary Aromas



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

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Analyte	State of Oregon limit levels	State of Missouri limit levels (ppm)	State of Iowa limit levels (ppm)	
Abamectin	>0.5	>0.5		reported
Acephate	>0.4	>0.4		reported
Acequinocyl	>2	>2		
Acetamiprid	>0.2	>0.2	>0.2	reported
Aldicarb	>0.4	>0.4	>0.4	reported
Azoxystrobin	>0.2	>0.2	>0.2	reported
Bifenazate	>0.2	>0.2	>0.2	reported
Bifenthrin	>0.2	>0.2		
Boscalid	>0.4	>0.4	>0.4	reported
Carbaryl	>0.2	>0.2	>0.5	reported
Carbofuran	>0.2	>0.2	>0.2	reported
Chlorantraniliprole	>0.2	>0.2	>0.2	reported
Chlorfenapyr	>1	>0.2		
Chlorpyrifos	>0.2	>0.2	>0.6	
Clofentezine	>0.2	>0.2		
Cyfluthrin (Baythroid)	>1	>1		
Cypermethrin	>1	>1	>18	
Dichlorvos/DDVP	>0.1	>1	>0.1	reported
Daminozide	>1	>1		reported
Diazinon	>0.2	>0.2	>2.6	reported
Dimethoate	>0.2	>0.2		reported
Ethoprophos	>0.2	>0.2	>0.4	reported
Etofenprox	>0.4	>0.4	>0.4	
Etoazole	>0.2	>0.2		
Fenoxycarb	>0.2	>0.2		reported
Fenpyroximate	>0.4	>0.4		
Fipronil	>0.4	>0.4	>1	reported
Flonicamid	>1	>1	>1	reported
Fludoxonil	>4	>4		reported
Hexythiazox	>1	>1		
Imazalil	>0.2	>0.2		reported
Imidacloprid	>0.4	>0.4	>0.4	reported
Kresoxim-Methyl	>0.4	>0.4		reported
Malathion	>0.2	>0.2		reported
Metalaxyl	>0.2	>0.2	>0.2	reported
Methiocarb	>0.2	>0.2	>0.4	reported
Methomyl	>0.4	>0.4	>0.4	reported
Methyl parathion	>0.2	>0.2	>8.5	
Myclobutanil (Systhane)	>0.2	>0.2	>0.3	reported
PESTANAL, debrom, NALED analytical	>0.5	>0.5		reported
Oxamyl	>1	>1	>1	reported
Paclobutrazol	>0.4	>0.4		reported
Permethrin (mix of cis & trans)	>0.2	>0.2	>1.1	
Phosmet (Imidan)	>0.2	>0.2		reported
Piperonyl butoxide	>2	>2		
Prallethrin (Isomer mix)	>0.2	>0.2		reported
Propiconazole (Tilt)	>0.4	>0.4		reported
Propoxur (Baygon)	>0.2	>0.2		reported
Pyrethrins (mix of isomers)	>1	>1		
Pyridaben	>0.2	>0.2	>0.2	
Spinosad A and D	>0.2	>0.2		reported
Spiromesifen	>0.2	>0.2		
Spirotetramat	>0.2	>0.2		reported
Spiroxamine	>0.4	>0.4	>2	reported
Tebuconazole	>0.4	>0.4	>0.4	reported
Thiacloprid	>0.2	>0.2	>0.2	reported
Thiamethoxam	>0.2	>0.2	>0.2	reported
Trifloxystrobin	>0.2	>0.2		reported
Aflatoxin B1 (from Aspergillus flavus)	>0.02	>0.02		reported
Aflatoxin B2	>0.02	>0.02		reported
Aflatoxin G1 (from Aspergillus flavus)	>0.02	>0.02		reported
Aflatoxin G2	>0.02	>0.02		reported
Ochratoxin A (from Petromyces albertensis)	>0.02	>0.02		reported

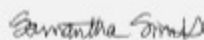
Big Red Crude Oil

Batch ID:	N/A	Test ID:	T000146344
Type:	Concentrate	Submitted:	06/14/2021 @ 01:38 PM
Test:	Metals	Started:	6/15/2021
Method:	TM19	Reported:	6/16/2021

HEAVY METALS

Analyte	Dynamic Range (ppm)	Result (ppm)
Arsenic	0.043 - 4.33	ND
Cadmium	0.046 - 4.64	ND
Mercury	0.045 - 4.54	ND
Lead	0.041 - 4.14	ND

* ND = None Detected (Defined by Dynamic Range of the method)

FINAL APPROVALRyan Weems
16-Jun-2021
1:20 PMSam Smith
16-Jun-2021
1:47 PM

PREPARED BY / DATE

APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC.