

Sweetwater Hemp Company

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

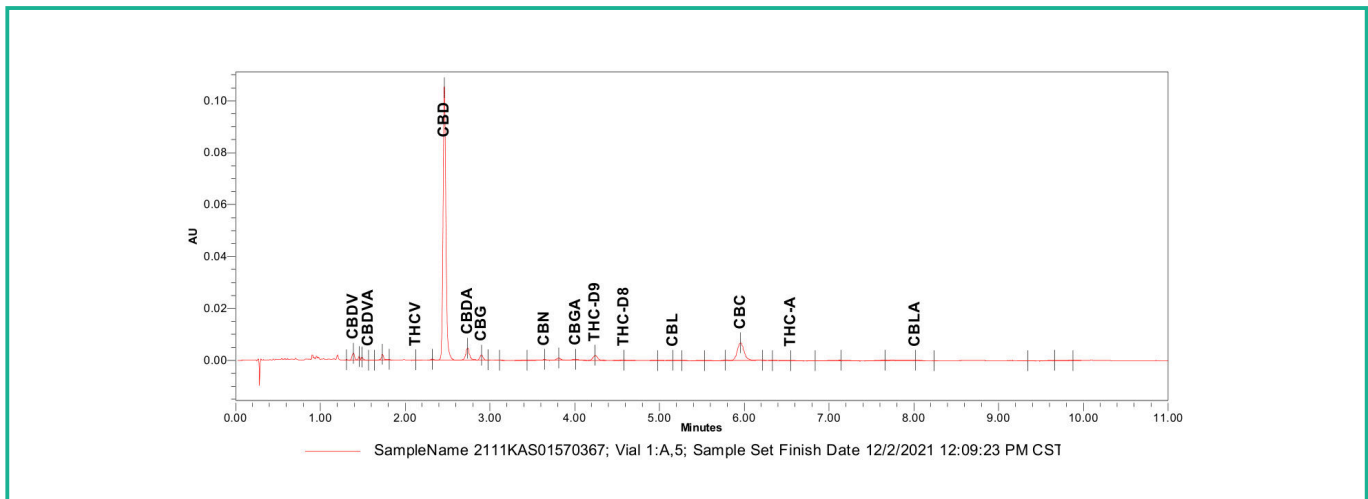
Lic. #31_0058, PH 0011

Sample: 2111KAS0157.0367

 Strain: Ivanka
 Batch#: Wild Ass Farms; Batch Size: g
 Sample Received: 12/01/2021; Report Created: 12/20/2021

Sampling: ; Environment:

Ivanka Oil

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


Cannabinoids


Uncertainty: %

0.1058% <i>Pass</i> Total THC	3.6271% Total CBD	4.0823% 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	0.0005	0.0091	0.091	0.0009	CBDV	0.0000	0.0001	0.0493	0.493	0.0046
Δ9-THC	0.0001	0.0005	0.0978	0.978	0.0088	CBN	0.0000	0.0001	ND	ND	
Δ8-THC	0.0001	0.0005	ND	ND		CBGa	0.0000	0.0005	0.0140	0.140	0.0013
THCVa			ND	ND		CBG	0.0001	0.0005	0.0485	0.485	0.0047
THCV			ND	ND		CBCa			ND	ND	
CBDa	0.0000	0.0001	0.0960	0.960	0.0088	CBC	0.0001	0.0005	0.2172	2.172	0.02
CBD	0.0001	0.0005	3.5429	35.429	0.3541	CBLa			0.0042	0.042	
CBDVa			ND	ND		CBL			0.0034	0.034	
						Total			4.0823	40.823	

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

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 Inga Krassovskaya
 Lab Director

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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
Arsenic	42	PPB	ND	Tested
Cadmium	2	PPB	ND	Tested
Lead	500	PPB	ND	Tested
Mercury	20	PPB	ND	Tested

Heavy metals analysis is subcontracted by KAS with the University of Nebraska Spectroscopy and Biophysics Core Facility.


Mycotoxins

Complete

Analyte	LOQ	Limit	Mass	Status
B1	0.00	PPM	ND	Tested
B2		PPM	ND	Tested
G1	0.00	PPM	ND	Tested
G2	0.01	PPM	ND	Tested
Ochratoxin A		PPM	NR	NT

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	Limit	Mass	Status	Analyte	LOQ	Limit	Mass	Status
	PPM	PPM	PPM			PPM	PPM	PPM	
Abamectin	0.022		ND	Tested	Kresoxim Methyl			ND	Tested
Acephate			ND	Tested	Malathion			ND	Tested
Acetamiprid			ND	Tested	Metalaxyl			ND	Tested
Aldicarb			ND	Tested	Methiocarb			ND	Tested
Azoxystrobin			ND	Tested	Methomyl	0.001		ND	Tested
Bifenazate			ND	Tested	Myclobutanil			NR	NT
Boscalid			ND	Tested	Naled			NR	NT
Carbaryl			ND	Tested	Oxamyl			ND	Tested
Carbofuran			ND	Tested	Pacllobutrazol			ND	Tested
Chlorantraniliprole			ND	Tested	Phosmet			ND	Tested
Cyfluthrin			NR	NT	Piperonyl Butoxide			ND	Tested
Daminozide			NR	NT	Prallethrin			ND	Tested
Diazinon	0.151		ND	Tested	Propiconazole			ND	Tested
Dichlorvos			NR	NT	Propoxur			ND	Tested
Dimethoate			ND	Tested	Pyrethrins			ND	Tested
Ethoprophos			ND	Tested	Spinosad			ND	Tested
Fenoxycarb			ND	Tested	Spirotetramat			ND	Tested
Fenpyroximate			ND	Tested	Spiroxamine			ND	Tested
Fipronil			ND	Tested	Tebuconazole	0.008		ND	Tested
Flonicamid			ND	Tested	Thiacloprid			ND	Tested
Fludioxonil			ND	Tested	Thiamethoxam			ND	Tested
Imazalil			NR	NT	Trifloxystrobin			NR	NT
Imidacloprid			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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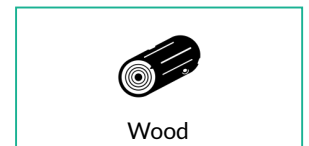
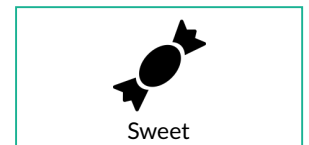
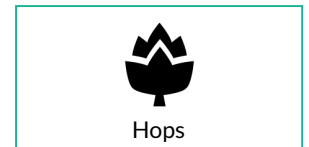
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 Harvest Process Lot: ; METRC Batch: ; METRC Sample:


Terpenes

Analyte	LOQ	Mass	Mass
	%	%	mg/g
α-Humulene		0.02	0.2
α-Pinene		0.01	0.1
α-Terpinene		NR	NR
β-Caryophyllene		0.05	0.5
β-Myrcene		0.02	0.2
Camphene		0.00	0.0
Camphor		NR	NR
Caryophyllene Oxide		0.02	0.2
δ-3-Carene		NR	NR
δ-Limonene		0.01	0.1
Eucalyptol		NR	NR
γ-Terpinene		NR	NR
Geraniol		NR	NR


Analyte	LOQ	Mass	Mass
	%	%	mg/g
Lavandulyl acetate		NR	NR
Linalool		0.01	0.1
Linalyl Acetate		NR	NR
Nerolidol		NR	NR
Ocimene		0.01	0.1
(-) -β-Pinene		0.00	0.0
(-) -α-Bisabolol		0.05	0.5
(-) -Guaiol		0.01	0.1
(-) -Isopulegol		NR	NR
p-Cymene		0.00	0.0
Terpinen-4-ol		NR	NR
Terpinolene		NR	NR

Primary Aromas



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

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



Acceptable Limits of Heavy Metal Contaminants in Cannabis (ppb)			
Heavy Metal	Respirable	Others	Iowa
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)	State of Iowa limit levels (ppm)	LOQ limit ppm
Abamectin	>0.5	>0.5		0.025
Acetate	>0.4	>0.4		0.05
Acetaminophen	>2	>2		0.05
Acetamiprid	>0.2	>0.2	>0.2	0.05
Aldicarb	>0.4	>0.4	>0.4	0.05
Azoxystrobin	>0.2	>0.2	>0.2	0.01
Bifenazate	>0.2	>0.2	>0.2	0.005
Bifenthrin	>0.2	>0.2		0.005
Boscalid	>0.4	>0.4	>0.4	0.05
Carbaryl	>0.2	>0.2	>0.5	0.1
Carbofuran	>0.2	>0.2	>0.2	0.05
Chlorantraniliprole	>0.2	>0.2	>0.2	0.1
Chlorfenapyr	>1	>0.2		0.05
Chlorpyrifos	>0.2	>0.2	>0.6	0.05
Clofentezine	>0.2	>0.2		0.05
Cyfluthrin (Baythroid)	>1	>1		0.005
Cypermethrin	>1	>1	>18	0.025
Dichlorvos/DDVP	>0.1	>1	>0.1	0.05
Daminozide	>1	>1		0.025
Diazinon	>0.2	>0.2	>2.6	0.05
Dimethoate	>0.2	>0.2		0.05
Ethoprophos	>0.2	>0.2	>0.4	0.05
Etofenprox	>0.4	>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	>1	0.05
Flonicamid	>1	>1	>1	0.05
Fludioxonil	>4	>4		0.01
Hexythiazox	>1	>1		0.05
Imazalil	>0.2	>0.2		0.005
Imidacloprid	>0.4	>0.4	>0.4	0.005
Kresoxim-Methyl	>0.4	>0.4		0.05
Malathion	>0.2	>0.2		0.025
Metalaxyl	>0.2	>0.2	>0.2	0.1
Methiocarb	>0.2	>0.2	>0.4	0.05
Methomyl	>0.4	>0.4	>0.4	0.2
Methyl parathion	>0.2	>0.2	>8.5	0.05
Myclobutanil (Eythane)	>0.2	>0.2	>0.3	0.005
PESTANAL, debrum, NALSD analytical	>0.5	>0.5		0.05
Oxamyl	>1	>1	>1	0.25
Paclobutrazol	>0.4	>0.4		0.025
Permethrin (mix of cis & trans)	>0.2	>0.2	>1.1	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 (Tilt)	>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	>0.2	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	>0.4	0.005
Thiacloprid	>0.2	>0.2	>0.2	0.05
Thiamethoxam	>0.2	>0.2	>0.2	0.025
Trifloxystrobin	>0.2	>0.2		0.005
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		

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