

F.A.S.T.
LABORATORIES RESEARCH

Arkansas Location

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Oklahoma Location

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Remarks:

CANNABINOID (POTENCY) PROFILE

Analysis Date/Time: 04/17/2019 0602

Method: HPLC/DAD (Internal Method-001)

Moisture Content (%): 10.4874

Analyst: JI

Instrument: Agilent 1100

Water Activity (aw): -

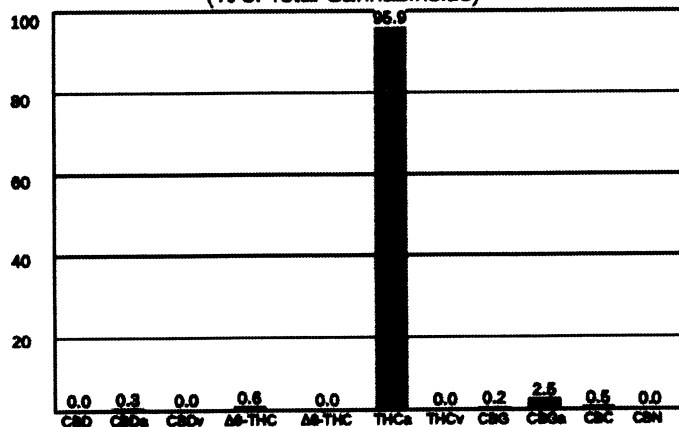
Cannabinoid	Result (%)	Result (mg/g)	Reporting Limit (mg/g)	Per Unit (mg)
CBD	-	-	0.0337	-
CBDa	0.0676	0.676	0.0337	0.676
CBDv	-	-	0.0337	-
Δ9-THC	0.138	1.38	0.0337	1.38
Δ8-THC	-	-	0.0337	-
THCa	21.2	212	0.0337	212
THCv	-	-	0.0337	-
CBC	0.0998	0.998	0.0337	0.998
CBG	0.0452	0.452	0.0337	0.452
CBGa	0.543	5.43	0.0337	5.43
CBN	-	-	0.0337	-
TOTAL	22.1	221		221
TOTAL THC	18.7	187		187
TOTAL CBD	0.0592	0.592		0.592



UNIT MASS (g): 1

"-" Not detected above RL.

Cannabinoid Distribution
(% of Total Cannabinoids)



Deviations from standard operating procedure: None

Recoveries for all analyte standards: 90-110%
 Replicate Uncertainties: <5% RSD, <20% RPD
 Sample/Reagent Blanks: <RL for all analytes

Values for plant matter are adjusted for moisture content.

Total THC = (THCa x 0.877) + Δ9-THC
 Total CBD = (CBDa x 0.877) + CBD

Percentage results are reported by mass.
 mg/g results are reported as mass component per mass material.

Abbreviations: UV - Ultraviolet, HPLC - High Pressure Liquid Chromatography, RL - Reporting Limit, RPD - Relative Percent Difference, RSD - Relative Standard Deviation

This information is provided as a service and makes no claims of efficacy and/or safety of this product. Results are applicable only for the sample(s) analyzed and for the specific analysis conducted.

This report is for informational purposes only and should not be used to diagnose, treat, or prevent any medical-related symptoms.

The statements and results herein have not been approved and/or endorsed by the FDA.



**Green
Country
Scientific**

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CERTIFICATE OF ANALYSIS

Sample ID: 1908GCS0051.0170

Customer Name: Sage Farms

Lab ID: OBN63698

Date Received: 08/13/2019

Sample Matrix: Flower

Date Completed:

08/15/2019

Cultivar(Strain): White Widdow

Analysis Date: 08-15-2019

MICROBIOLOGICAL PROFILE

Method: Hardy Diagnostics Compac tDry

Instrument: Platennucubation (35°C)

	<u>Count</u>	<u>Action Level</u>
	<u>(CFU/ml)</u>	<u>(CFU/ml)</u>
Coliforms. Total		100
Escherichia Coli (E. Coli)		1
Yeast		1000
Mold		1000

Color Key



Reporting Limit (CFU/ml)

***Absent not detected above
reporting value**

**Abbreviations EC - Escherichia Coli. CFU - Colony-Forming Unit
RL - Reporting Limit AL - Action Level**



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Sample Matrix: Flower

Date Completed:

08/15/2019

HEAVY METALS PROFILE

Cultivar(Strain): White Widdow

Method: ICP- MS/MS Agilent 7500



Heavy Metal

Arsenic (As)
Cadmium (Cd)
Lead (Pb)
Mercury (Hg)

Result
(ug/kg)



Action Level

(ug/kg)
200
200
100
500

Color Key



Reporting Limit (ug/kg)
50

"-" not detected above reporting limit

Abbreviation: ICP - Inductively Coupled Plasma, OES -
Optical Emission Spectroscopy, RL - Reporting Limit, AL - Action Level

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Pesticide	Result (ug/g)	Action Level (ug/g)
Abamectin		0.5
Acephate		0.4
Acequinocyl		2
Acetamiprid		0.2
Aldicarb		0.4
Azoxystrobin		0.2
Bifenazate		0.2
Bifenthrin		0.2
Boscalid		0.4
Carbaryl		0.2
Carbofuran		0.2
Chlorantraniliprole		1
Chlordane		0.2
Chlorfensapyr		0.2
Chlorpyrifos		1
Clofentazine		1
Cyfluthrin		1
Cypermethrin		0.2
Daminoside		0.2
DDVP (Dichlorvos)		1
Diazinon		1
Dimethoate		1
Ethoprophos		0.1
Etofenprox		0.2
Etoxazole		0.2

Instrument: Shimadzu LCMS 8080



Malathion	0.2
Metaxyl	0.4
Methiocarb	0.2
Methomyl	0.2
Methyl parathion	0.2
MGK-264	0.4
Myclobutanil	0.2
Naled	0.2
Oxamyl	0.2
Paclobutrazol	0.5
Permethrin	1
Phosmet	0.4
Piperonyl butoxide	0.2
Prallethrin	0.2
Propiconazole	2
Propoxur	0.2
Pyrethrin	0.4
Pyridaben	0.2
Spinosad A/D	1
Spiromesifen	0.2
Spirotetramat	0.2
Spiromamine	0.2
Tebuconazole	0.2
Thiacloprid	0.2
Thiamethoxam	0.4

Color Key



1/2 of AL

"-" not detected above reporting limit



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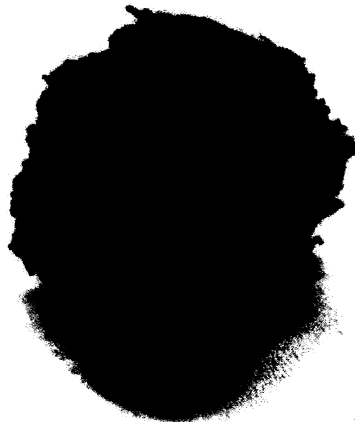
Analysis Date: 08-15-2019

TERPENOID PROFILE

Method: HS/GC /MS

Instrument: Shimadzu GC 2010

Terpene	Result (u/ug)	Result (% total terpenes)
a-Bisabolol	0	0.00%
Camphene	0	0.00%
6-3-Carene	7654	30.66%
B-Caryophyllene	0	0.00%
Caryophyllene oxide	0	-
o-Cymene	-	-
Eucalyptol	138	0.55%
Geraniol	-	-
Guaiol	-	-
a-Humulene	654	2.62%
Isopulegol	-	-
d-Limonene	8765	35.11%
Linalool	0	0.00%
B-Mircene	0	0.00%
ci s-Nerolidol	-	-
trans- erolidol	5678	22.75%
a-Ocimene	0	0.00%
B-Ocimene	0	0.00%
a-Pinene	0	0.00%
B-Pinene	0	0.00%
a-Terpinene	765	3.06%
y-Terpinene	432	1.73%
Terpinene	876	3.51%
Totals	24962	100.00%



Terpene Distribution %

