

CERTIFICATE OF ANALYSIS

SUCKERS

Order Type: Medical Cannabis
 Order ID: OR2019-1536

Customer ID: 61
 Customer Name: Harris Watts Wellness Group
 Harvest/Extract Lot: None
 Harvest/Extract Batch: None

Cultivar (Strain): Distillate
 Sample Date: 05/15/2019

Lab ID: SA2019-5303
 Date Received: 05/15/2019

Sample Matrix: Concentrate
 Date Completed: 05/21/2019

Remarks:

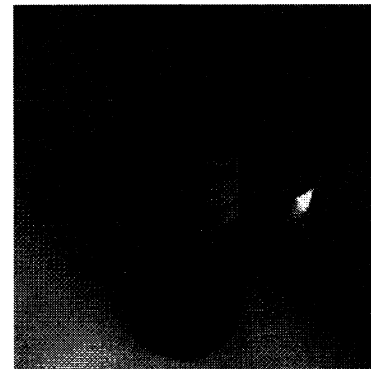
CANNABINOID (POTENCY) PROFILE

Analysis Date/Time: 05/15/2019 1819
 Analyst: OL

Method: HPLC/DAD (Internal Method-001)
 Instrument: Agilent 1100

Moisture Content (%): -
 Water Activity (aw): -

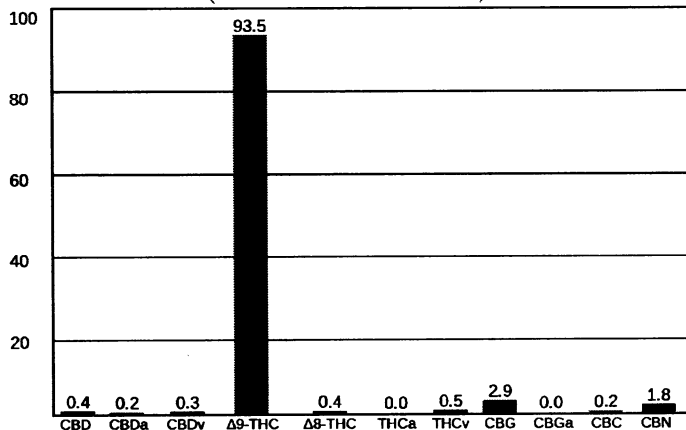
Cannabinoid	Result (%)	Result (mg/g)	Reporting Limit (mg/g)	Per Unit (mg)
CBD	0.403	4.03	0.616	4
CBDa	0.168	1.68	0.616	1.68
CBDv	0.232	2.32	0.616	2
Δ9-THC	86.1	861	0.616	861
Δ8-THC	0.329	3.29	0.616	3
THCa	-	-	0.616	-
THCv	0.415	4.15	0.616	4
CBC	0.214	2.14	0.616	2
CBG	2.65	26.5	0.616	27
CBGa	-	-	0.616	-
CBN	1.62	16.2	0.616	16
TOTAL	92.1	921		921
TOTAL THC	86.1	861		861
TOTAL CBD	0.551	5.51		6



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

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REPORT OF LABORATORY ANALYSIS

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Kyle W. Felling
 Kyle W. Felling, Ph.D.
 Laboratory Director

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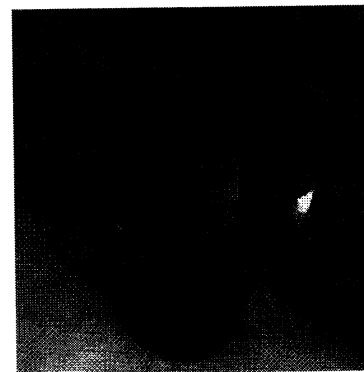
TERPENOID PROFILE

Analysis Date/Time: 05/15/2019 1819
Analyst: OL

Method: HS/GC/FID (Internal Method-002)
Instrument: Agilent 6890

Deviations from SOP:
None

<u>Terpene</u>	<u>Result</u> <u>(µg/g)</u>	<u>Result</u> <u>(%)</u>
α-Bisabolol	-	-
Camphene	-	-
δ-3-Carene	-	-
β-Caryophyllene	-	-
Caryophyllene oxide	-	-
p-Cymene	-	-
Eucalyptol	-	-
Geraniol	-	-
Guaiol	-	-
Humulene	-	-



Abbreviations: HS - Headspace, GC -
Gas Chromatography, MS - Mass

cis-Nerolidol	-	-
trans-Nerolidol	-	-
α -Ocimene	-	-
β -Ocimene	-	-
α -Pinene	-	-
β -Pinene	-	-
α -Terpinene	-	-
γ -Terpinene	-	-
Terpinolene	-	-
TOTAL	0	0

analysis conducted.

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"-" Not detected above RL.

Reporting Limit ($\mu\text{g/g}$): 14.1

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www.FASTLaboratories.com

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Remarks:

RESIDUAL SOLVENT PROFILE

Analysis Date/Time: 05/15/2019 1819

Method: USP <467>

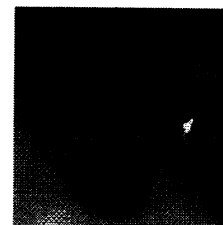
Deviations from SOP:

Analyst: OL

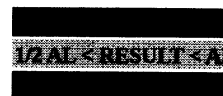
Instrument: Agilent 6890

None

<u>Solvent</u>	<u>Result</u> (<u>µg/g</u>)	<u>Action Level</u> (<u>µg/g</u>)	<u>Solvent</u>	<u>Result</u> (<u>µg/g</u>)	<u>Action Level</u> (<u>µg/g</u>)
Acetone (67-64-1)		5000	n-Heptane (142-82-5)		5000
Acetonitrile (75-5-8)		410	n-Hexane (110-54-3)		290
Benzene (71-43-2)		2	Isobutane (75-28-5)		5000
n-Butane (106-97-2)		5000	Isopropanol (67-63-0)		5000
1-Butanol (71-36-3)		5000	Isopropyl acetate (108-21-4)		5000
2-Butanol (78-92-2)		5000	Isopropyl benzene (98-82-8)		70
2-Butanone (78-93-3)		5000	Methanol (67-56-1)		3000
Cyclohexane (110-82-7)		3880	2-Methylbutane (78-78-4)		5000
1,2-Dimethoxyethane (110-71-4)		100	Methylene chloride (75-9-2)		600
N,N-Dimethylacetamide (127-19-5)		1090	2-Methylpentane (107-83-5)		290
2,2-Dimethylbutane (75-83-2)		290	3-Methylpentane (96-10-0)		290
2,3-Dimethylbutane (79-29-8)		290	n-Pentane (109-66-0)		5000
N,N-Dimethylformamide (68-12-2)		880	1-Pentanol (71-41-0)		5000
Dimethylsulfoxide (67-68-5)		5000	n-Propanol (74-98-6)		5000
1,4-Dioxane (123-91-1)		380	1-Propanol (71-23-8)		5000
Ethanol (64-17-5)		5000	Pyridine (110-86-1)		200
2-Ethoxyethanol (110-80-5)		160	Tetrahydrofuran (109-99-9)		720
Ethyl ether (60-29-7)		5000	Tetramethylene sulfone (126-33-0)		160
Ethyl acetate (141-78-6)		5000	Toluene (108-88-3)		890
Ethyl benzene (100-41-4)		217	o-Xylene (95-47-6)		2170
Ethylene glycol (107-21-1)		620	m,p-Xylene (108-38-3 or 106-42-3)		2170
Ethylene oxide (75-21-8)		50	Xylenes* (1330-20-7)		2170



Color Key



Reporting Limit (µg/g)
1/2 of AL

"-" not detected above reporting limit

"*" - o,m,p-Xylene and Ethylbenzene

<u>Solvent</u>	<u>Synonym(s)</u>	<u>Solvent</u>	<u>Synonym(s)</u>	<u>Solvent</u>	<u>Synonym(s)</u>
Acetonitrile	Methyl Cyanide, ACN	2-Ethoxyethanol	Cellosolve, Ethyl glycol	Methanol	Methyl alcohol
1-Butanol	n-Butanol, Butyl Alcohol	Ethyl ether	Diethyl ether, Ether	2-Methylbutane	Isopentane
2-Butanol	sec-Butyl alcohol	Ethyl acetate	EtOAc	Methylene chloride	Dichloromethane
2-Butanone	Methyl ethyl ketone, MEK	Ethyl benzene	Phenylethane	2-Methylpentane	Isohexane
1,2-Dimethoxyethane	Monoglyme	Ethylene glycol	1,2-Ethanediol	1-Pentanol	n-Amyl alcohol
2,3-Dimethylbutane	Neohexane	Ethylene oxide	Oxirane	1-Propanol	Propyl alcohol
2,3-Dimethylbutane	Diisopropyl	Isobutane	2-Methylpropane	Tetrahydrofuran	THF
N,N-Dimethylformamide	DMF	Isopropanol	2-Propanol, IPA	Tetramethylene sulfone	Sulfolane
Dimethylsulfoxide	DMSO	Isopropyl Acetate	Acetic acid isopropyl ester	Xylene	Dimethylbenzene

Abbreviations: HS-Headspace, GC-Gas Chromatography, MS-Mass Spectrometry, RL-Reporting Limit, AL-Action Level
CAS-Chemical Abstract Services

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Kyle W. Felling, Ph.D.
Laboratory Director

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Harvest/Extract Batch: None

Cultivar (Strain): Distillate
Sample Date: 05/15/2019

Lab ID: SA2019-5303
Date Received: 05/15/2019

Sample Matrix: Concentrate
Date Completed: 05/21/2019

Remarks:

PESTICIDES PROFILE

Analysis Date/Time: 05/15/2019 1819
Analyst: OL

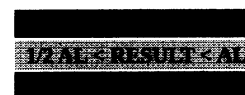
Method: LC/MS/MS and GC/MS
Instrument: Waters Acquity/TQD

Deviations from SOP:
 None

Pesticide	Result (µg/g)	Action Level (µg/g)	Pesticide	Result (µg/g)	Action Level (µg/g)
Abamectin (71751-41-2)		0.5	Imazalil (35554-44-0)		0.2
Acephate (30560-19-1)		0.4	Imidacloprid (138261-41-3)		0.4
Acequinocyl (57960-19-7)		2	Kresoxim-methyl* (143390-89-0)		0.4
Acetamiprid (135410-20-7)		0.2	Malathion (121-75-5)		0.2
Aldicarb (116-06-3)		0.4	Metalaxyl* (57837-19-1)		0.2
Azoxystrobin (131860-33-8)		0.2	Methiocarb (2032-65-7)		0.2
Bifenazate* (149877-41-8)		0.2	Methomyl (16752-77-5)		0.4
Bifenthrin* (82657-04-3)		0.2	Methyl parathion* (298-0-0)		0.2
Boscalid* (188425-85-6)		0.4	MGK 264* (113-48-4)		0.2
Carbaryl (63-25-2)		0.2	Myclobutanil (88671-89-0)		0.2
Carbofuran (1563-66-2)		0.2	Naled (300-76-5)		0.5
Chlorantraniliprole (800008-45-7)		0.2	Oxamyl (23135-22-0)		1
Chlorfenapyr* (122453-73-0)		1	Paclobotrazol* (76738-62-0)		0.4
Chlorpyrifos* (2921-88-2)		0.2	Permethrins* (52645-53-1)		0.2
Clofentezine (74115-24-5)		0.2	Phosmet* (732-11-6)		0.2
Cyfluthrin* (68359-37-5)		1	Piperonyl butoxide* (51-03-6)		2
Cypermethrin* (52315-07-8)		1	Prallethrin* (2331-36-9)		0.2
Daminozide (1596-84-5)		1	Propiconazole (60207-90-1)		0.4
DDVP (62-73-7)		0.1	Propoxur* (114-26-1)		0.2
Diazinon* (333-41-5)		0.2	Pyrethrins* (8003-34-7)		1
Dimethoate (60-51-5)		0.2	Pyridaben* (96489-71-3)		0.2
Ethoprophos* (13194-48-4)		0.2	Spinosad A (168316-95-8)		0.2
Etofenprox (80844-07-1)		0.4	Spinosad D (168316-95-8)		0.2
Etoxazole (153233-91-1)		0.2	Spiromesifen (283594-90-1)		0.2
Fenoxycarb (72490-01-8)		0.2	Spirotetramat (203313-25-1)		0.2
(E)-Fenpyroximate (134098-61-6)		0.4	Spiroxamine (118134-30-8)		0.4
Fipronil* (120068-37-3)		0.4	Tebuconazole (80443-41-0)		0.4
Flonicamid (158062-67-0)		1	Thiacloprid (111988-49-9)		0.2
Fludioxinil (131341-86-1)		0.4	Thiamethoxam (153719-23-4)		0.2
Hexythiazox (78587-05-0)		1	Trifloxystrobin* (141517-21-7)		0.2



Color Key



Reporting Limit (µg/g)
 1/2 of AL

"-" not detected above reporting limit

"*" analyzed by GC/MS (all others analyzed by LC/MS/MS)

Permethrins measured as the cumulative residue of the *cis*- and *trans*-permethrin isomers.

Pyrethrin measures as the cumulative residue of pyrethrin I, cinerin I, and jasmolin I.

Abbreviations: LC - Liquid Chromatography, GC - Gas Chromatography, MS - Mass Spectrometry, RK - Reporting Limit, AL - Action Level, CAS - Chemical Abstract Services

Pesticide	Synonym(s)	Pesticide	Synonym(s)	Pesticide	Synonym(s)
Cyfluthrin	Baythroid	Myclobutanil	Systhane	Propiconazole	Tilt
DDVP	Dichlorvos	Naled	Dibrom	Propoxur	Baygon
Ethoprophos	Prophos	Phosmet	Imidan		

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Arkansas Location

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Telephone: (501) 679-2616

Oklahoma Location

Laboratory Address: 3680 E. Interstate 240 Service Rd.
Oklahoma City, OK 73135
Telephone: (405) 595-0344
Email Address: Info@FASTLaboratories.com

CERTIFICATE OF ANALYSIS

Customer ID: 61

Harvest/Extract Lot: None

HEAVY METAL PROFILE

Analysis Date/Time: 05/15/2019 1819

Analyst: OL

Method: ICP/MS

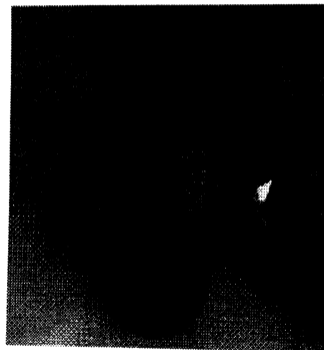
Instrument: PerkinElmer Elan 9000

Deviations from

None

Heavy Metal

	<u>Result</u> <u>($\mu\text{g}/\text{kg}$)</u>	<u>Action Level</u> <u>($\mu\text{g}/\text{kg}$)</u>
Arsenic (As)	[REDACTED]	200
Cadmium (Cd)	[REDACTED]	200
Lead (Pb)	[REDACTED]	100
Mercury (Hg)	[REDACTED]	500



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

Color Key

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Remarks:

MICROBIOLOGICAL PROFILE

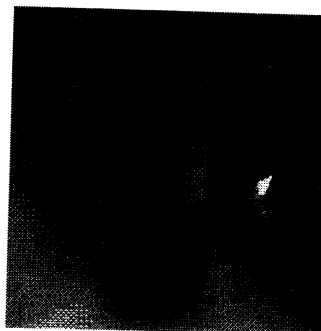
Analysis Date/Time: 05/15/2019 1819
 Analyst: OL

Method: Hardy Diagnostics CompactDry
 Instrument:

Deviations from SOP:
 None

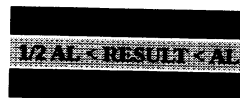
Bacteria/Microbe

<u>Bacteria/Microbe</u>	<u>Result (CFU/g)</u>	<u>Action Level (CFU/g)</u>
Aerobic Plate Count, Total		100
Coliforms, Total		100
Escherichia Coli (E. Coli)		1
Mold		10000
Yeast		10000
Salmonella spp.		1



Abbreviations: EC - Escherichia Coli, CFU - Colony-Forming Unit,
 RL - Reporting Limit, AL - Action Level, NT - Not Tested

Color Key



Reporting Limit (CFU/g)
 1

"-" not detected above reporting limit

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