

SUMMARY OF ANALYSIS (SAMPLE ID: SA2020-22395)

Testing Location: OKC 3680 E. I-240 Service Rd. Oklahoma City, OK 73135 License: LAAA-4Y4X-Z72Z	Customer ID: 62 SVT Enterprises/Caspers Oil 6878 Lakeside Circle Kingston, OK 74349 License: Hemp Client	Order ID: OR2020-7081 Lot Number: Not Entered Batch Number: Not Entered	Sample Type: Primary Matrix: Oil/Tincture Mass: 30g Date Collected: 02/11/2020 Date Received: 02/11/2020
Cultivar (Strain) or Sample Description: 400mg Full Spec			Date Completed: 02/18/2020

*This page is simply a summary of the analysis performed. For analytical details, please consult the individual Certificate(s) of Analysis for each of the specific test(s) performed.

*For Oklahoma, with the new OMMA rules to be effective April 1, 2020, limits on moisture are proposed at 15% and water activity at 0.65aw.

Moisture Content (%) Not Tested	PASS/FAIL N/A	Water Activity (aw) Not Tested	PASS/FAIL N/A
---	-------------------------	--	-------------------------

<u>Cannabinoids (Top 3)</u>	<u>(%)</u>	<u>mg/g</u>
CBD	1.41	14
Δ8-THC	0.0612	0.612
CBC	0.0412	0.412
TOTAL CBD	1.42	14
TOTAL THC	0.00348	0.0348
TOTAL CANNABINOIDS	1.53	15

<u>Terpenes (Top 5)</u>	<u>(%)</u>	<u>µg/g</u>
β-Caryophyllene	0.014	141
α-Bisabolol	0.011	108
Caryophyllene oxide	0.005	53
Guaiol	0.004	36
β-Myrcene	0.001	11
TOTAL TERPENES	0.0357	357

<u>Contaminants</u>	<u>PASS/FAIL</u>
Heavy Metals:	PASS
Microbiology:	PASS
Mycotoxins:	PASS
Pesticides:	PASS
Residual Solvents:	PASS
Visual Inspection:	PASS



Scan the QR code to verify results.

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.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Felling Analytical Services and Technology of Oklahoma City, LLC

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

CERTIFICATE OF ANALYSIS (SAMPLE ID: SA2020-22395)

Testing Location: OKC 3680 E. I-240 Service Rd. Oklahoma City, OK 73135 License: LAAA-4Y4X-Z72Z	Customer ID: 62 SVT Enterprises/Caspers Oil 6878 Lakeside Circle Kingston, OK 74349 License: Hemp Client	Order ID: OR2020-7081 Lot Number: Not Entered Batch Number: Not Entered	Sample Type: Primary Matrix: Oil/Tincture Mass: 30g Date Collected: 02/11/2020 Date Received: 02/11/2020
--	---	--	---

Cultivar (Strain) or Sample Description: 400mg Full Spec **Date Completed:** 02/18/2020

CANNABINOID (POTENCY) PROFILE

Analysis Date/Time: 02/13/2020 0941

Method: HPLC/DAD

Moisture Content (%): -

Analyst: JI

Instrument: Agilent 1100

Water Activity (aw): -

<u>Cannabinoid</u>	<u>Result (%)</u>	<u>Result (mg/g)</u>	<u>Reporting Limit (mg/g)</u>	<u>Result (mg/mL)</u>	<u>Per Unit (mg)</u>
CBD	1.41	14.1	0.00286	13.6	424
CBDa	0.00436	0.0436	0.00286	0.0418	1.31
CBDv	0.00615	0.0615	0.00286	0.059	1.84
Δ9-THC	0.00241	0.0241	0.00286	0.0231	0.722
Δ8-THC	0.0612	0.612	0.00286	0.588	18
THCa	0.00122	0.0122	0.00286	0.0117	0.366
THCv	-	-	0.00286	-	-
CBC	0.0412	0.412	0.00286	0.395	12
CBG	-	-	0.00286	-	-
CBGa	-	-	0.00286	-	-
CBN	0.00142	0.0142	0.00286	0.0136	0.426
TOTAL	1.53	15		14.7	459
TOTAL THC	0.00348	0.0348		0.0334	1.04
TOTAL CBD	1.42	14		13.6	425

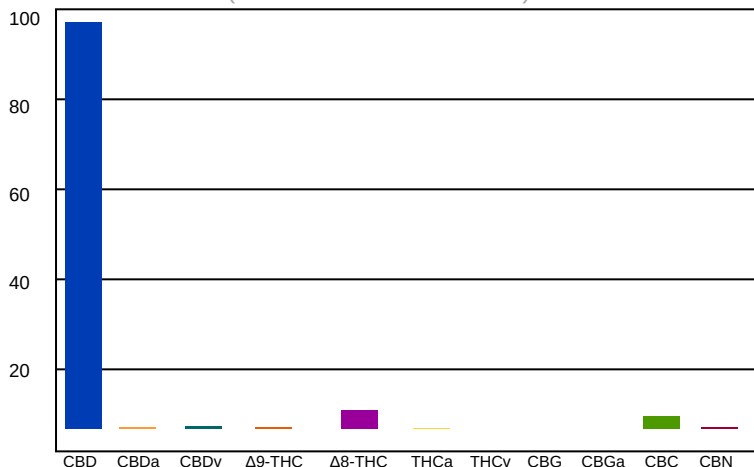


UNIT MASS (g): 30

"-" 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.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Felling Analytical Services and Technology of Oklahoma City, LLC

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

SUMMARY OF ANALYSIS (SAMPLE ID: SA2020-22395)

Testing Location: OKC 3680 E. I-240 Service Rd. Oklahoma City, OK 73135 License: LAAA-4Y4X-Z72Z	Customer ID: 62 SVT Enterprises/Caspers Oil 6878 Lakeside Circle Kingston, OK 74349 License: Hemp Client	Order ID: OR2020-7081 Lot Number: Not Entered Batch Number: Not Entered	Sample Type: Primary Matrix: Oil/Tincture Mass: 30g Date Collected: 02/11/2020 Date Received: 02/11/2020
Cultivar (Strain) or Sample Description: 400mg Full Spec			Date Completed: 02/18/2020

TERPENOID PROFILE

Analysis Date/Time: 02/13/2020 0941 **Method:** HS/GC/FID (Internal Method-002) **Deviations from SOP:**
Analyst: JS **Instrument:** Agilent 6890 None

<u>Terpene</u>	<u>Result (µg/g)</u>	<u>Result (%)</u>
α-Bisabolol	108	0.0108
Camphene	-	-
δ-3-Carene	-	-
β-Caryophyllene	141	0.0141
Caryophyllene oxide	53	0.00529
p-Cymene	-	-
Eucalyptol	-	-
Geraniol	-	-
Guaiol	36	0.0036
α-Humulene	-	-
Isopulegol	-	-
d-Limonene	4	0.000411
Linalool	4	0.0004
β-Myrcene	11	0.00113
cis-Nerolidol	-	-
trans-Nerolidol	-	-
α-Ocimene	-	-
β-Ocimene	-	-
α-Pinene	-	-
β-Pinene	-	-
α-Terpinene	-	-
γ-Terpinene	-	-
Terpinolene	-	-
TOTAL	357	0.0357



Abbreviations: HS - Headspace, GC - Gas Chromatography, MS - Mass Spectrometry, RL - Reporting Limit

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.

"-" Not detected above RL.

Reporting Limit (µg/g): 1.14

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Felling Analytical Services and Technology of Oklahoma City, LLC

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

SUMMARY OF ANALYSIS (SAMPLE ID: SA2020-22395)

Testing Location: OKC 3680 E. I-240 Service Rd. Oklahoma City, OK 73135 License: LAAA-4Y4X-Z72Z	Customer ID: 62 SVT Enterprises/Caspers Oil 6878 Lakeside Circle Kingston, OK 74349 License: Hemp Client	Order ID: OR2020-7081 Lot Number: Not Entered Batch Number: Not Entered	Sample Type: Primary Matrix: Oil/Tincture Mass: 30g Date Collected: 02/11/2020 Date Received: 02/11/2020
Cultivar (Strain) or Sample Description: 400mg Full Spec			Date Completed: 02/18/2020

RESIDUAL SOLVENT PROFILE

Analysis Date/Time: 02/13/2020 0941
Analyst: DJ

Method: USP <467>
Instrument: Agilent 6890

Deviations from SOP:
None

Solvent	Result (µg/g)	Action Level (µg/g)
Acetone (67-64-1)	-	1000
Benzene (71-43-2)	-	2
n-Butane (106-97-2)	-	1000
2,2-Dimethylbutane (75-83-2)	-	60
2,3-Dimethylbutane (79-29-8)	-	60
Ethyl benzene (100-41-4)	-	430
n-Heptane (142-82-5)	-	1000
n-Hexane (110-54-3)	-	60
Isobutane (75-28-5)	-	1000
Isopropanol (67-63-0)	-	1000
2-Methylbutane (78-78-4)	-	1000
2-Methylpentane (107-83-5)	-	60
3-Methylpentane (96-10-0)	-	60
n-Pentane (109-66-0)	-	1000
n-Propane (74-98-6)	-	1000
Toluene (108-88-3)	-	180
o-Xylene (95-47-6)	-	430
m,p-Xylene (108-38-3 or 106-42-3)	-	430
Xylenes* (1330-20-7)	-	430

Color Key

RESULT < 1/2 AL
1/2 AL < RESULT < AL
RESULT > AL

Reporting Limit (µg/g)
1/2 of AL

"-" not detected above reporting limit

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



Solvent	Synonym(s)	Solvent	Synonym(s)	Solvent	Synonym(s)
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

Disclaimer: 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.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Felling Analytical Services and Technology of Oklahoma City, LLC

SUMMARY OF ANALYSIS (SAMPLE ID: SA2020-22395)

Testing Location: OKC 3680 E. I-240 Service Rd. Oklahoma City, OK 73135 License: LAAA-4Y4X-Z72Z	Customer ID: 62 SVT Enterprises/Caspers Oil 6878 Lakeside Circle Kingston, OK 74349 License: Hemp Client	Order ID: OR2020-7081 Lot Number: Not Entered Batch Number: Not Entered	Sample Type: Primary Matrix: Oil/Tincture Mass: 30g Date Collected: 02/11/2020 Date Received: 02/11/2020
Cultivar (Strain) or Sample Description: 400mg Full Spec			Date Completed: 02/18/2020

PESTICIDES PROFILE

Analysis Date/Time: 02/13/2020 0941
Analyst: DJ

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

Deviations from SOP:
None

<u>Pesticide</u>	<u>Result (µg/g)</u>	<u>Action Level (µg/g)</u>
Abamectin (71751-41-2)	-	0.5
Azoxystrobin (131860-33-8)	-	0.5
Bifenazate* (149877-41-8)	-	0.5
Etoazazole (153233-91-1)	-	0.5
Imazalil (35554-44-0)	-	0.5
Imidacloprid (138261-41-3)	-	0.5
Malathion (121-75-5)	-	0.5
Myclobutanil (88671-89-0)	-	0.5
Permethrins* (52645-53-1)	-	0.5
Spinosad A (168316-95-8)	-	0.5
Spinosad D (168316-95-8)	-	0.5
Spiromesifen (283594-90-1)	-	0.5
Spirotetramat (203313-25-1)	-	0.5
Tebuconazole (80443-41-0)	-	0.5

Color Key

RESULT < 1/2 AL
1/2 AL < RESULT < AL
RESULT > AL

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.



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

<u>Pesticide</u>	<u>Synonym(s)</u>	<u>Pesticide</u>	<u>Synonym(s)</u>	<u>Pesticide</u>	<u>Synonym(s)</u>
Cyfluthrin	Baythroid	Myclobutanil	Sythane	Propiconazole	Tilt
DDVP	Dichlorvos	Naled	Dibrom	Propoxur	Baygon
Ethoprophos	Prophos	Phosmet	Imidan		

Disclaimer: 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.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Felling Analytical Services and Technology of Oklahoma City, LLC

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

SUMMARY OF ANALYSIS (SAMPLE ID: SA2020-22395)

Testing Location: OKC 3680 E. I-240 Service Rd. Oklahoma City, OK 73135 License: LAAA-4Y4X-Z72Z	Customer ID: 62 SVT Enterprises/Caspers Oil 6878 Lakeside Circle Kingston, OK 74349 License: Hemp Client	Order ID: OR2020-7081 Lot Number: Not Entered Batch Number: Not Entered	Sample Type: Primary Matrix: Oil/Tincture Mass: 30g Date Collected: 02/11/2020 Date Received: 02/11/2020
Cultivar (Strain) or Sample Description: 400mg Full Spec			Date Completed: 02/18/2020

MYCOTOXIN PROFILE

Analysis Date/Time: 02/13/2020 0941
Analyst: DJ

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

Deviations from SOP:
None

<u>Mycotoxin</u>	<u>Result</u> (µg/kg)	<u>Action Level</u> (µg/kg)
Aflatoxin B1	-	20
Aflatoxin B2	-	20
Aflatoxin G1	-	20
Aflatoxin G2	-	20
Ochratoxin A	-	20



Abbreviations: EC - Escherichia Coli, CFU - Colony-Forming Unit,
RL - Reporting Limit, AL - Action Level

Color Key

RESULT < 1/2 AL
1/2 AL < RESULT < AL
RESULT > AL

Reporting Limit (CFU/g)
1

"-" not detected above reporting limit

Disclaimer: 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.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of
Felling Analytical Services and Technology of Oklahoma City, LLC

SUMMARY OF ANALYSIS (SAMPLE ID: SA2020-22395)

Testing Location: OKC 3680 E. I-240 Service Rd. Oklahoma City, OK 73135 License: LAAA-4Y4X-Z72Z	Customer ID: 62 SVT Enterprises/Caspers Oil 6878 Lakeside Circle Kingston, OK 74349 License: Hemp Client	Order ID: OR2020-7081 Lot Number: Not Entered Batch Number: Not Entered	Sample Type: Primary Matrix: Oil/Tincture Mass: 30g Date Collected: 02/11/2020 Date Received: 02/11/2020
Cultivar (Strain) or Sample Description: 400mg Full Spec			Date Completed: 02/18/2020

HEAVY METAL PROFILE

Analysis Date/Time: 02/13/2020 0941 **Method:** ICP/MS **Deviations from SOP:**
Analyst: DJ **Instrument:** PerkinElmer Elan 9000 None

<u>Heavy Metal</u>	<u>Result (µg/kg)</u>	<u>Action Level (µg/kg)</u>
Arsenic (As)	-	400
Cadmium (Cd)	-	440
Lead (Pb)	-	1000
Mercury (Hg)	-	200



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

Color Key

RESULT < 1/2 AL
1/2 AL < RESULT < AL
RESULT > AL

Reporting Limit (µg/kg)
50

"-" not detected above reporting limit

Disclaimer: 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.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Felling Analytical Services and Technology of Oklahoma City, LLC

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

SUMMARY OF ANALYSIS (SAMPLE ID: SA2020-22395)

Testing Location: OKC 3680 E. I-240 Service Rd. Oklahoma City, OK 73135 License: LAAA-4Y4X-Z72Z	Customer ID: 62 SVT Enterprises/Caspers Oil 6878 Lakeside Circle Kingston, OK 74349 License: Hemp Client	Order ID: OR2020-7081 Lot Number: Not Entered Batch Number: Not Entered	Sample Type: Primary Matrix: Oil/Tincture Mass: 30g Date Collected: 02/11/2020 Date Received: 02/11/2020
Cultivar (Strain) or Sample Description: 400mg Full Spec			Date Completed: 02/18/2020

MICROBIOLOGICAL PROFILE

Analysis Date/Time: 02/13/2020 0941 **Method:** Hardy Diagnostics CompactDry **Deviations from SOP:**
Analyst: JD **Instrument:** Thermo Incubator None

<u>Bacteria/Microbe</u>	<u>Result (CFU/g)</u>	<u>Action Level (CFU/g)</u>
Aerobic Plate Count, Total	90	-
Escherichia Coli (E. Coli)	Absent	1
Mold	Absent	10000
Yeast	Absent	10000
Salmonella spp.	Absent	1



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

Color Key

RESULT < 1/2 AL
1/2 AL < RESULT < AL
RESULT > AL

Reporting Limit (CFU/g)
1

"-" not detected above reporting limit

Disclaimer: 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.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Felling Analytical Services and Technology of Oklahoma City, LLC

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