

SUMMARY OF ANALYSIS (SAMPLE ID: SA26490)

| | | | |
|--|--|---|--|
| Testing Location: OKC 3680 E. I-240 Service Rd. Oklahoma City, OK 73135 License: LAAA-4Y4X-Z72Z | Customer ID: 62 SVT Enterprises/Caspers Oil/ Heartland Vapes 6705 Highway 290 West Private Mail 50220 Austin, TX 78735 License: Hemp Client | Order ID: OR8253 Lot Number: Not Entered Batch Number: Not Entered | Sample Type: Primary Matrix: Oil/Tincture Mass: 30g Date Collected: 05/04/2020 Date Received: 05/04/2020 Date Completed: 05/06/2020 |
| Cultivar (Strain) or Sample Description: 1000mg Casper's Oil Original THC Free | | | |

*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 | 3.47 | 35 |
| CBDv | 0.0087 | 0.087 |
| CBDa | 0 | - |
| TOTAL CBD | 3.47 | 35 |
| TOTAL THC | - | - |
| TOTAL CANNABINOIDS | 3.48 | 35 |

| <u>Terpenes (Top 5)</u> | <u>(%)</u> | <u>µg/g</u> |
|-------------------------|------------|-------------|
| α-Bisabolol | 0.000 | 0 |
| Camphene | 0.000 | 0 |
| δ-3-Carene | 0.000 | 0 |
| β-Caryophyllene | 0.000 | 0 |
| Caryophyllene oxide | 0.000 | 0 |
| TOTAL TERPENES | - | - |

| <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.

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



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA26490)

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CANNABINOID (POTENCY) PROFILE

Analysis Date/Time: 05/04/2020 0843
Analyst: WW

Method: HPLC/DAD
Instrument: Agilent 1100

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

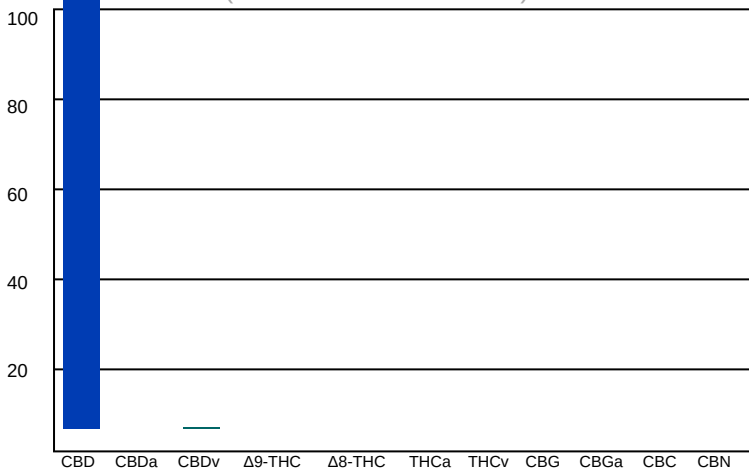
| <u>Cannabinoid</u> | <u>Result (%)</u> | <u>Result (mg/g)</u> | <u>Reporting Limit (mg/g)</u> | <u>Result (mg/mL)</u> | <u>Per Unit (mg)</u> |
|--------------------|-------------------|----------------------|-------------------------------|-----------------------|----------------------|
| CBD | 3.47 | 34.7 | 0.00294 | 33.3 | 1041 |
| CBDa | - | - | 0.00294 | - | - |
| CBDv | 0.0087 | 0.087 | 0.00294 | 0.0835 | 3 |
| Δ9-THC | - | - | 0.00294 | - | - |
| Δ8-THC | - | - | 0.00294 | - | - |
| THCa | - | - | 0.00294 | - | - |
| THCv | - | - | 0.00294 | - | - |
| CBC | - | - | 0.00294 | - | - |
| CBG | - | - | 0.00294 | - | - |
| CBGa | - | - | 0.00294 | - | - |
| CBN | - | - | 0.00294 | - | - |
| TOTAL | 3.48 | 35 | | 33.4 | 1043 |
| TOTAL THC | - | - | | - | - |
| TOTAL CBD | 3.47 | 35 | | 33.3 | 1041 |



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

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TERPENOID PROFILE

Analysis Date/Time: 05/04/2020 0843 **Method:** HS/GC/FID (Internal Method-002) **Deviations from SOP:**
Analyst: DJ **Instrument:** Agilent 6890 None

| <u>Terpene</u> | <u>Result</u> (µg/g) | <u>Result</u> (%) |
|---------------------|-------------------------|----------------------|
| α-Bisabolol | - | - |
| Camphene | - | - |
| δ-3-Carene | - | - |
| β-Caryophyllene | - | - |
| Caryophyllene oxide | - | - |
| p-Cymene | - | - |
| Eucalyptol | - | - |
| Geraniol | - | - |
| Guaiol | - | - |
| α-Humulene | - | - |
| Isopulegol | - | - |
| d-Limonene | - | - |
| Linalool | - | - |
| β-Myrcene | - | - |
| cis-Nerolidol | - | - |
| trans-Nerolidol | - | - |
| α-Ocimene | - | - |
| β-Ocimene | - | - |
| α-Pinene | - | - |
| β-Pinene | - | - |
| α-Terpinene | - | - |
| γ-Terpinene | - | - |
| Terpinolene | - | - |
| TOTAL | 0 | 0 |



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

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"-" Not detected above RL.

Reporting Limit (µg/g): 1.17

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RESIDUAL SOLVENT PROFILE

Analysis Date/Time: 05/04/2020 0843
Analyst: CC

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

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PESTICIDES PROFILE

Analysis Date/Time: 05/04/2020 0843
Analyst: DJ

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

Deviations from SOP:
None

| <u>Pesticide</u> | <u>Result</u> (µg/g) | <u>Action Level</u> (µg/g) |
|-----------------------------|-------------------------|-------------------------------|
| 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 | | |

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MYCOTOXIN PROFILE

Analysis Date/Time: 05/04/2020 0843 **Method:** LC/MS/MS **Deviations from SOP:**
Analyst: DJ **Instrument:** Waters Acquity/TQD 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

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HEAVY METAL PROFILE

Analysis Date/Time: 05/04/2020 0843 **Method:** ICP/MS **Deviations from SOP:**
Analyst: CC **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

| |
|----------------------|
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Reporting Limit (µg/kg)
50

"-" not detected above reporting limit

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MICROBIOLOGICAL PROFILE

Analysis Date/Time: 05/04/2020 0843 **Method:** Hardy Diagnostics CompactDry **Deviations from SOP:**
Analyst: DJ **Instrument:** Thermo Incubator None

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



Abbreviations: EC - Escherichia Coli, CFU - Colony-Forming Unit, RL - Reporting Limit, AL - Action Level, TNTC - Too Numerous To Count, NT - Not Tested
Absent - Not Detected Above RL, Present - Detected Above RL

Color Key

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1

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