

Oklahoma City Location 3680 E I-240 Service Rd Oklahoma City, OK 73135 (405) 595-0344 **Tulsa Location** 14720 E Admiral Pl, Ste H Tulsa, OK 74108 (918) 340-7139

SUMMARY OF ANALYSIS (SAMPLE ID: SA26286)

Testing Location:Customer ID: 1967Order ID: OR8176Sample Type: PrimaryOKCNatural Reserve CBDLot Number:Matrix: Oil/Tincture

3680 E. I-240 Service Rd. 140 West Main Street 001 **Mass:** 30g

Oklahoma City, OK 73135 Lewisville , TX 75052 **Batch Number:** Date Collected: 04/27/2020 License: LAAA-4Y4X-Z72Z License: CBD Client Not Entered Date Received: 04/27/2020

Cultivar (Strain) or Sample Description: 600mg Hemp Tincture **Date Completed:** 05/04/2020

^{*}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 (%) | PASS/FAIL | Water Activity (aw) | PASS/FAIL |
|----------------------|-----------|---------------------|-----------|
| Not Tested | N/A | Not Tested | N/A |
| | | | |
| Cannabinoids (1 | Гор 3) | <u>(%)</u> | mg/g |
| CBD | | 1.45 | 14 |
| CBC | | 0.0666 | 0.666 |
| Δ9-ΤΗС | | 0.0662 | 0.662 |
| TOTAL CBI | D . | 1.46 | 15 |
| TOTAL THO | G | 0.0672 | 0.672 |
| TOTAL CANNAB | INOIDS | 1.64 | 16 |
| Terpenes (Top | o 5) | (%) | μg/g |
| α-Bisabolo | l | 0.007 | 67 |
| Linalool | | 0.006 | 55 |
| Geraniol | Geraniol | | 47 |
| β-Caryophylle | ene | 0.004 | 43 |
| Camphene | | 0.000 | 0 |
| TOTAL TERPE | NES | 0.0212 | 212 |

| Contaminants | PASS/FAIL |
|---------------------|-----------|
| 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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^{*}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.



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Date Completed: 05/04/2020

CERTIFICATE OF ANALYSIS (SAMPLE ID: SA26286)

Testing Location: Order ID: OR8176 Customer ID: 1967 Sample Type: Primary Matrix: Oil/Tincture OKC Natural Reserve CBD Lot Number:

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CANNABINOID (POTENCY) PROFILE

Analysis Date/Time: 04/27/2020 1629 Method: HPLC/DAD **Moisture Content (%): -Analyst: WW Instrument:** Agilent 1100 Water Activity (aw): -

| <u>Cannabinoid</u> | Result (%) | Result (mg/g) | Reporting Limit (mg/g) | Result (mg/mL) | Per Unit (mg) |
|--------------------|------------|------------------|------------------------|-------------------|---------------|
| CBD | 1.45 | 14.5 | 0.00292 | 13.9 | 434 |
| CBDa | 0.0147 | 0.147 | 0.00292 | 0.142 | 4 |
| CBDv | 0.00812 | 0.0812 | 0.00292 | 0.0779 | 2 |
| $\Delta 9$ -THC | 0.0662 | 0.662 | 0.00292 | 0.635 | 20 |
| $\Delta 8$ -THC | 0.000342 | 0.00342 | 0.00292 | 0.00328 | 0.103 |
| THCa | 0.00115 | 0.0115 | 0.00292 | 0.0111 | 0.346 |
| THCv | 0.000872 | 0.00872 | 0.00292 | 0.00838 | 0.262 |
| CBC | 0.0666 | 0.666 | 0.00292 | 0.639 | 20 |
| CBG | 0.025 | 0.25 | 0.00292 | 0.24 | 8 |
| CBGa | 0.00454 | 0.0454 | 0.00292 | 0.0436 | 1.36 |
| CBN | 0.00174 | 0.0174 | 0.00292 | 0.0167 | 0.521 |
| TOTAL | 1.64 | 16 | | 15.7 | 491 |
| TOTAL THC | 0.0672 | 0.672 | | 0.645 | 20 |
| TOTAL CBD | 1.46 | 15 | | 14 | 438 |

Cannabinoid Distribution

(% of Total Cannabinoids) 100 80 60 40 20 CBDa Δ9-ΤΗС CBDv Δ8-THC THCa THCv CBG

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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) + $\Delta 9$ -THC Total CBD = (CBDa \times 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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Cultivar (Strain) or Sample Description: 600mg Hemp Tincture

TERPENOID PROFILE

Analysis Date/Time: 04/27/2020 1629 Method: HS/GC/FID (Internal Method-002) Deviations from SOP:

Analyst: DJ Instrument: Agilent 6890 None

| <u>Terpene</u> | Result (µg/g) | Result (%) | |
|------------------------------|------------------|------------|---|
| α-Bisabolol | 67 | 0.00667 | |
| Camphene | - | - | |
| δ-3-Carene | - | - | Canada Cara Cara Cara Cara Cara Cara Cara C |
| β-Caryophyllene | 43 | 0.00433 | "HALL ACCIP" PAR SECTION ASSOCIA |
| Caryophyllene oxide | - | - | TINCTUE |
| p-Cymene | - | - | MATURAL SSERVE |
| Eucalyptol | - | - | Many Stratement Property The Commission of the C |
| Geraniol | 47 | 0.00473 | |
| Guaiol | - | - | Abbreviations: HS - Headspace, GC - |
| α-Humulene | - | - | Gas Chromatography, MS - Mass Spectrometry, RL - Reporting Limit |
| Isopulegol | - | - | This information is provided as a |
| d-Limonene | - | - | service and makes no claims of efficacy |
| Linalool | 55 | 0.00552 | and/or safety of this product. |
| β-Myrcene | - | - | Results are applicable only for the sample(s) analyzed and for the specific |
| cis-Nerolidol | - | - | analysis conducted. |
| trans-Nerolidol α-Ocimene | - | - | This report is for informational purposes only and should not be used to diagnose, treat, or prevent any |
| | - | - | medical-related symptoms. |
| β-Ocimene | - | - | The statements and results herein have |
| α-Pinene | - | - | not been approved and/or endorsed by the FDA. |
| β-Pinene | - | - | |
| α-Terpinene | - | - | |
| γ-Terpinene | - | - | |
| Terpinolene | | - | "-" Not detected above RL. |
| TOTAL | 212 | 0.0212 | Reporting Limit (μg/g): |







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RESIDUAL SOLVENT PROFILE

Analysis Date/Time: 04/27/2020 1629 Method: USP <467> Deviations from SOP:

Analyst: CC Instrument: Agilent 6890 None

| Solvent | <u>Result</u> (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 |

DMSO

Color Key



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) | <u>Solvent</u> | Synonym(s) |
|-----------------------|-----------------------------|-------------------|-----------------------------|------------------------|-----------------|
| Acetonitrile | Methyl Cyanide, ACN | 2-Ethoxyethanol | Cellosolve, Ethyl glycol | Methanol | Methyl alcohol |
| 1-Butanol | n-Butanol, Butyl | Ethyl ether | Diethyl ether, Ether | 2-Methylbutane | Isopentane |
| 1 Butanor | Alcohol | Ethyl acetate | EtOAc | Methylene chloride | Dichloromethane |
| 2-Butanol | sec-Butyl alcohol | Ethyl benzene | Phenylethane | 2-Methylpentane | Isohexane |
| 2-Butanone | Methyl ethyl ketone, MEK | Ethylene glycol | 1,2-Ethanediol | 1-Pentanol | n-Amyl alcohol |
| 1.2 Dimetheywethane | | Ethylene oxide | Oxirane | 1-Propanol | Propyl alcohol |
| 1,2-Dimethoxyethane | Monoglyme | Isobutane | 2-Methylpropane | Tetrahydrofuran | THF |
| 2,3-Dimethylbutane | Neohexane | | V 1 1 | 5 | Sulfolane |
| 2,3-Dimethylbutane | Diisopropyl | Isopropanol | 2-Propanol, IPA | Tetramethylene sulfone | |
| N.N-Dimethylformamide | DMF | Isopropyl Acetate | Acetic acid isopropyl ester | Xylene | Dimethylbenzene |
| N.N-Dimernyitormamide | DIVIE | | | | |

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

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Dimethysufoxide





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Oklahoma City, OK 73135 Lewisville , TX 75052 **Batch Number: Date Collected:** 04/27/2020 License: LAAA-4Y4X-Z72Z License: CBD Client Not Entered **Date Received:** 04/27/2020

Cultivar (Strain) or Sample Description: 600mg Hemp Tincture

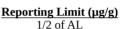
PESTICIDES PROFILE

Analysis Date/Time: 04/27/2020 1629 **Method:** LC/MS/MS **Deviations from SOP:**

Analyst: DJ Instrument: Waters Acquity/TQD None

| Pesticide | <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 |
| Etoxazole (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 |

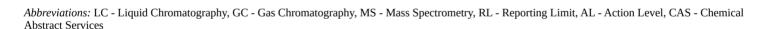




"-" not detected above reporting limit

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

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



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

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Date Completed: 05/04/2020

SUMMARY OF ANALYSIS (SAMPLE ID: SA26286)

| Testing Location: | Customer ID: 1967 | Order ID: OR8176 | Sample Type: Primary |
|-------------------|---------------------|------------------|----------------------|
| OKC | Natural Reserve CBD | Lot Number: | Matrix: Oil/Tincture |

3680 E. I-240 Service Rd. 140 West Main Street 001 **Mass:** 30g

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MYCOTOXIN PROFILE

Analysis Date/Time: 04/27/2020 1629 Method: LC/MS/MS Deviations from SOP:

Analyst: DJ Instrument: Waters Acquity/TQD None

| Mycotoxin | <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)

"-" not detected above reporting limit

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HEAVY METAL PROFILE

Analysis Date/Time: 04/27/2020 1629 **Method:** ICP/MS **Deviations from SOP:**

Analyst: CC Instrument: PerkinElmer Elan 9000 None

| Heavy Metal | <u>Result</u> (µg/kg) | <u>Action Level</u> (μg/kg) |
|--------------|--------------------------|--------------------------------|
| 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

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|-------------------|---------------------|------------------|----------------------|
| OKC | Natural Reserve CBD | Lot Number: | Matrix: Oil/Tincture |

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MICROBIOLOGICAL PROFILE

Analysis Date/Time: 04/27/2020 1629 Method: Hardy Diagnostics CompactDry **Deviations from SOP:**

Analyst: DJ **Instrument:** Thermo Incubator

| Bacteria/Microbe | Result (CFU/g) | Action Level (CFU/g) |
|----------------------------|-------------------|-------------------------|
| Aerobic Plate Count, Total | TNTC | - |
| 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

1/2 AL < RESULT < AL RESULT > AL

Reporting Limit (CFU/g)

"-" not detected above reporting limit

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