

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: SA2020-24186)

Testing Location:Customer ID: 37Order ID: OR2020-7590Sample Type: PrimaryOKCCan-Tek LabsLot Number:Matrix: Oil/Tincture

3680 E. I-240 Service Rd. 8107 S I-35 Service Rd Not Entered Mass: 30g

Oklahoma City, OK 73135 Oklahoma City, OK 73149 **Batch Number:** Date Collected: 03/16/2020 License: LAAA-4Y4X-Z72Z License: Not Entered or N/A 1854 Date Received: 03/16/2020

Cultivar (Strain) or Sample Description: CBD Ops Heroes Choice- 750mg **Date Completed:** 03/19/2020

^{*}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		2.54	25
CBG		0.0826	0.826
CBDa		0	-
TOTAL CBI	D	2.54	25
TOTAL THO	C	-	-
TOTAL CANNAB	INOIDS	2.62	26
Terpenes (Top	<u>o 5)</u>	(%)	μg/g
β-Caryophylle	ene	0.014	137
α-Humulene		0.009	93
d-Limonene		0.007	68
α-Pinene		0.003	30
Linalool		0.003	27
TOTAL TERPE	NES	0.0393	393

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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CANNABINOID (POTENCY) PROFILE

Analysis Date/Time: 03/17/2020 1025Method: HPLC/DADMoisture Content (%): -Analyst: WWInstrument: Agilent 1100Water Activity (aw): -

Cannabinoid	Result (%)	Result (mg/g)	Reporting Limit (mg/g)	Result (mg/mL)	Per Unit (mg)
CBD	2.54	25.4	0.00142	24.4	762
CBDa	-	-	0.00142	-	-
CBDv	-	-	0.00142	-	-
Δ9-ΤΗС	-	-	0.00142	-	-
Δ8-ΤΗС	-	-	0.00142	-	-
THCa	-	-	0.00142	-	-
THCv	-	-	0.00142	-	-
CBC	-	-	0.00142	-	-
CBG	0.0826	0.826	0.00142	0.793	25
CBGa	-	-	0.00142	-	-
CBN	-	-	0.00142	-	-
TOTAL	2.62	26		25.2	786
TOTAL THC	-	-		-	-
TOTAL CBD	2.54	25		24.4	762

Cannabinoid Distribution

(% of Total Cannabinoids)

80

40

CBD CBDa CBDv Δ9-THC Δ8-THC THCa THCv CBG CBGa CBC CBN

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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 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: 03/17/2020 1025 **Method:** HS/GC/FID (Internal Method-002) **Deviations from SOP:**

Analyst: DJ Instrument: Agilent 6890 None

<u>e</u>	<u>Result</u> (μg/g)	Result (%)	
abolol	-		
phene	-	-	
Carene	-	-	100% THC FREE
aryophyllene	137	0.0137	
ryophyllene ide	-	-	HEROES CHOICE
Cymene	-	-	
ıcalyptol	-	-	
eraniol	-	-	
uaiol	-	-	Abbreviations: HS - Headspace, GC -
Humulene	93	0.00929	Gas Chromatography, MS - Mass Spectrometry, RL - Reporting Limit
opulegol	-	-	This information is provided as a
Limonene	68	0.00676	service and makes no claims of efficacy
nalool	27	0.00271	and/or safety of this product.
Myrcene	10	0.00102	Results are applicable only for the sample(s) analyzed and for the specific
s-Nerolidol	-	-	analysis conducted.
ans-Nerolidol	-	-	This report is for informational purposes only and should not be used to
Ocimene	-	-	diagnose, treat, or prevent any
Ocimene	-	-	medical-related symptoms.
Pinene	30	0.00301	The statements and results herein have not been approved and/or endorsed by
Pinene	20	0.00201	the FDA.
Terpinene	-	-	
Гегріпепе	-	-	
erpinolene	7	0.000748	"-" Not detected above RL.
OTAL	393	0.0393	Reporting Limit (µg/

ΓΟΤΑL 393 0.0393 **Reporting Limit (μg/g):** 1.13





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RESIDUAL SOLVENT PROFILE

Analysis Date/Time: 03/17/2020 1025 Method: USP <467> **Deviations from SOP:**

Analyst: DJ **Instrument:** Agilent 6890

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

RESULT < 1/2 AI 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



<u>Solvent</u>	Synonym(s)	<u>Solvent</u>	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 Dumier	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-Dimethoxyethane		Ethylene oxide	Oxirane	1-Propanol	Propyl alcohol
,	Monoglyme	Isobutane	2-Methylpropane	Tetrahydrofuran	THF
2,3-Dimethylbutane	Neohexane	Isopropanol	2-Propanol, IPA	Tetramethylene sulfone	Sulfolane
2,3-Dimethylbutane	Diisopropyl	1 1	1 ,	3	
N,N-Dimethylformamide	DMF	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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Dimethysufoxide



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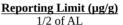
PESTICIDES PROFILE

Analysis Date/Time: 03/17/2020 1025 Method: LC/MS/MS Deviations from SOP:

Analyst: DJ Instrument: Waters Acquity/TQD 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
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.



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

<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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MYCOTOXIN PROFILE

Analysis Date/Time: 03/17/2020 1025 **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)

"-" not detected above reporting limit







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HEAVY METAL PROFILE

Analysis Date/Time: 03/17/2020 1025 **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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MICROBIOLOGICAL PROFILE

Analysis Date/Time: 03/17/2020 1025 Method: Hardy Diagnostics CompactDry Deviations from SOP:

Analyst: KB Instrument: Thermo Incubator None

Bacteria/Microbe	<u>Result</u> (CFU/g)	Action Level (CFU/g)
Aerobic Plate Count, Total	80	-
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)

"-" not detected above reporting limit



