

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

# **CERTIFICATE OF ANALYSIS**

Order Type: CBD

**Order ID:** OR2020-6480

Cultivar (Strain): CBD OPS Hero's

**Analysis Date/Time:** 01/13/2020 1137

Choice 750mg

Analyst: OL

Sample Date: 01/09/2020

Customer ID: 37

Customer Name: Can-Tek Labs

Lab ID: SA2020-20391

**Date Received:** 01/09/2020

Sample Matrix: Oil/Tincture

Harvest/Extract Lot: 1798

Harvest/Extract Batch: None

**Date Completed:** 01/16/2020

Remarks:

**CANNABINOID (POTENCY) PROFILE** 

**Method:** HPLC/DAD **Instrument:** Agilent 1100

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

Cannabinoid	Result (%)	Result (mg/g)	Reporting Limit (mg/g)	Result (mg/mL)	Per Unit (mg)
CBD	2.59	25.9	0.00124	24.9	777
CBDa	-	-	0.00124	-	-
CBDv	0.0188	0.188	0.00124	0.18	6
Δ9-ΤΗС	-	-	0.00124	-	-
Δ8-ΤΗС	-	-	0.00124	-	-
THCa	-	-	0.00124	-	-
THCv	-	-	0.00124	-	-
CBC	-	-	0.00124	-	-
CBG	0.0878	0.878	0.00124	0.843	26
CBGa	-	-	0.00124	-	-
CBN	-	-	0.00124	-	-
TOTAI	2.7	27		25.0	900



 TOTAL
 2.7
 27
 25.9
 809

 TOTAL THC

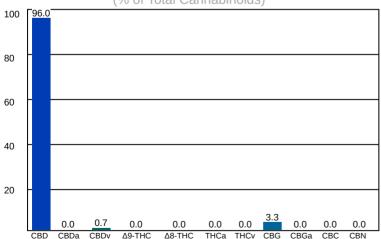
 TOTAL CBD
 2.59
 26
 24.9
 777

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) +  $\Delta 9$ -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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# **CERTIFICATE OF ANALYSIS**

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**Order ID:** OR2020-6480

Cultivar (Strain): CBD OPS Hero's

**Analysis Date/Time:** 01/13/2020 1137

Choice 750mg

Analyst: OL

**Sample Date:** 01/09/2020

Customer ID: 37

Customer Name: Can-Tek Labs

Lab ID: SA2020-20391

**Date Received:** 01/09/2020

Remarks:

Harvest/Extract Batch: None

Harvest/Extract Lot: 1798

**Sample Matrix:** Oil/Tincture

**Date Completed:** 01/16/2020

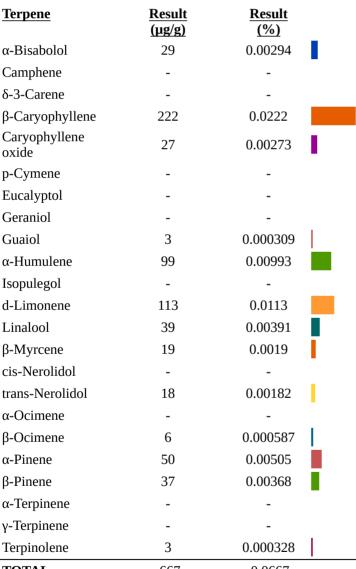
# TERPENOID PROFILE

Method: HS/GC/FID (Internal Method-002)

**Instrument:** Agilent 6890

**Deviations from SOP:** 

None





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

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"-" Not detected above RL.

**TOTAL** 667 0.0667 **Reporting Limit (μg/g):** 0.995





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# **CERTIFICATE OF ANALYSIS**

Order Type: CBDCustomer ID: 37Harvest/Extract Lot: 1798Order ID: OR2020-6480Customer Name: Can-Tek LabsHarvest/Extract Batch: None

Cultivar (Strain): CBD OPS Hero's

Choice 750mg

o-Xylene (95-47-6)

Xylenes\* (1330-20-7)

m,p-Xylene (108-38-3 or 106-42-3)

**Sample Date:** 01/09/2020

Lab ID: SA2020-20391

**Date Received:** 01/09/2020

Remarks:

Sample Matrix: Oil/Tincture

**Date Completed:** 01/16/2020

# RESIDUAL SOLVENT PROFILE

**Analysis Date/Time:** 01/13/2020 1137 **Method:** USP <467> **Deviations from SOP: Analyst:** OL **Instrument:** Agilent 6890 None

Allalyst: OL		
Solvent	Result (μg/g)	<u>Action Level</u> (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

**DMSO** 

# Color Key RESULT < 1/2 A)

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	Ethyl ether	Diethyl ether, Ether	2-Methylbutane	Isopentane
1 Battanor	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 Di		Ethylene oxide	Oxirane	1-Propanol	Propyl alcohol
1,2-Dimethoxyethane	Monoglyme	Isobutane	2-Methylpropane	Tetrahydrofuran	THF
2,3-Dimethylbutane	Neohexane		5 I I	,	Sulfolane
2,3-Dimethylbutane	Diisopropyl	Isopropanol	2-Propanol, IPA	Tetramethylene sulfone	Surrolane
, ,	1 10	Isopropyl Acetate	Acetic acid isopropyl ester	Xylene	Dimethylbenzene
N,N-Dimethylformamide	DMF				

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

430

430

430

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Dimethysufoxide



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Order Type: CBD Customer ID: 37 Harvest/Extract Lot: 1798
Order ID: OR2020-6480 Customer Name: Can-Tek Labs Harvest/Extract Batch: None

Cultivar (Strain): CBD OPS Hero's

Choice 750mg

**Sample Date:** 01/09/2020

Lab ID: SA2020-20391

**Date Received:** 01/09/2020

Remarks:

Sample Matrix: Oil/Tincture

**Date Completed:** 01/16/2020

#### **PESTICIDES PROFILE**

Analysis Date/Time: 01/13/2020 1137 Method: LC/MS/MS Deviations from SOP:

Analyst: OL 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



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.



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

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Abstract Services



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#### **CERTIFICATE OF ANALYSIS**

Order Type: CBD Customer ID: 37 Harvest/Extract Lot: 1798
Order ID: OR2020-6480 Customer Name: Can-Tek Labs Harvest/Extract Batch: None

Cultivar (Strain): CBD OPS Hero's

Choice 750mg

Remarks:

Sample Matrix: Oil/Tincture

**Date Completed:** 01/16/2020

#### **MYCOTOXIN PROFILE**

**Analysis Date/Time:** 01/13/2020 1137 **Method:** LC/MS/MS **Deviations from SOP:** 

Analyst: OL Instrument: Waters Acquity/TQD None

Lab ID: SA2020-20391

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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#### **CERTIFICATE OF ANALYSIS**

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Order ID: OR2020-6480 Customer Name: Can-Tek Labs Harvest/Extract Batch: None

Cultivar (Strain): CBD OPS Hero's

Choice 750mg

**Sample Date:** 01/09/2020 **Date I** 

**Lab ID:** SA2020-20391

**Date Received:** 01/09/2020

Remarks:

Sample Matrix: Oil/Tincture

**Date Completed:** 01/16/2020

#### **HEAVY METAL PROFILE**

**Analysis Date/Time:** 01/13/2020 1137 **Method:** ICP/MS **Deviations from SOP:** 

Analyst: CC Instrument: PerkinElmer Elan 9000 None

Heavy Metal	Result (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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Sample Matrix: Oil/Tincture

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Cultivar (Strain): CBD OPS Hero's

Choice 750mg

Lab ID: SA2020-20391

Remarks:

MICROBIOLOGICAL PROFILE

**Analysis Date/Time:** 01/13/2020 1137 **Method:** Hardy Diagnostics CompactDry **Deviations from SOP:** 

Analyst: JD Instrument: Thermo Incubator None

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

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