

SUMMARY OF ANALYSIS

Testing Location:	Customer ID: 37	Sample ID: SA2020-22330	Sample Type: Primary
OKC	Can-Tek Labs	Lot Number:	Matrix: Oil/Tincture
3680 E. I-240 Service Rd.	8107 S I-35 Service Rd	CTK-021020-01	Mass: 5g
Oklahoma City, OK 73135	Oklahoma City, OK 73149	Batch Number:	Date Collected: 02/10/2020
License: LAAA-4Y4X-Z72Z	License: Not Entered or N/A	Not Entered	Date Received: 02/10/2020
Cultivar (Strain) or Sample Description: 60% FSHO 2% CBG			Date Completed: 02/17/2020

*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.

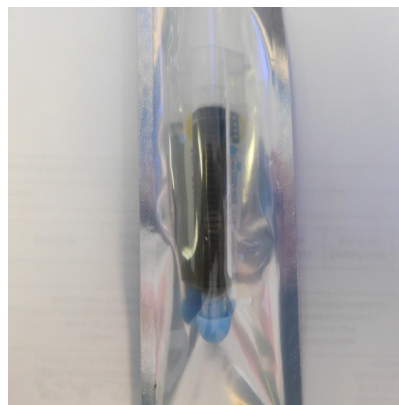
Moisture Content (%)	PASS/FAIL	Water Activity (aw)	PASS/FAIL
Not Tested	N/A	Not Tested	N/A

<u>Cannabinoids (Top 3)</u>	<u>(%)</u>	<u>mg/g</u>
CBD	69.5	695
CBG	1.68	16.8
CBDa	0	0
TOTAL CBD	69.5	695
TOTAL THC	-	-
TOTAL CANNABINOIDS	71.2	712

<u>Terpenes (Top 5)</u>	<u>(%)</u>	<u>µg/g</u>
β-Caryophyllene	1.156	11557
d-Limonene	0.765	7652
α-Pinene	0.364	3635
Linalool	0.334	3336
α-Bisabolol	0.299	2991
TOTAL TERPENES	4.06	40562

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

Sample Picture Upon Receipt



Scan the QR code to verify results.

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Kyle W. Felling, Ph.D.
Laboratory Director

CERTIFICATE OF ANALYSIS

Order Type: CBD

Order ID: OR2020-7064

Customer ID: 37

Customer Name: Can-Tek Labs

Harvest/Extract Lot: CTK-021020-01

Harvest/Extract Batch: None

Cultivar (Strain): 60% FSHO 2% CBG

Sample Date: 02/10/2020

Lab ID: SA2020-22330

Date Received: 02/10/2020

Sample Matrix: Oil/Tincture

Date Completed: 02/17/2020

Remarks:

CANNABINOID (POTENCY) PROFILE

Analysis Date/Time: 02/10/2020 1508

Analyst: JI

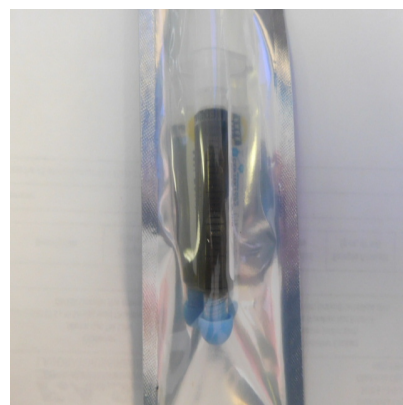
Method: HPLC/DAD

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	69.5	695	0.501	-	695
CBDa	-	-	0.501	-	-
CBDv	-	-	0.501	-	-
Δ9-THC	-	-	0.501	-	-
Δ8-THC	-	-	0.501	-	-
THCa	-	-	0.501	-	-
THCv	-	-	0.501	-	-
CBC	-	-	0.501	-	-
CBG	1.68	16.8	0.501	-	17
CBGa	-	-	0.501	-	-
CBN	-	-	0.501	-	-
TOTAL	71.2	712		-	712
TOTAL THC	-	-		-	-
TOTAL CBD	69.5	695		-	695

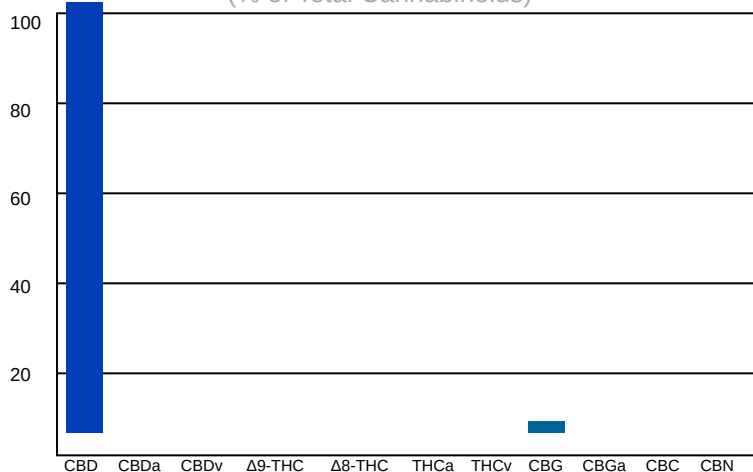


UNIT MASS (g): 1

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

www.FASTLaboratories.com

CERTIFICATE OF ANALYSIS

Order Type: CBD

Order ID: OR2020-7064

Customer ID: 37

Customer Name: Can-Tek Labs

Harvest/Extract Lot: CTK-021020-01

Harvest/Extract Batch: None

Cultivar (Strain): 60% FSHO 2% CBG

Sample Date: 02/10/2020

Lab ID: SA2020-22330

Date Received: 02/10/2020

Sample Matrix: Oil/Tincture

Date Completed: 02/17/2020

Remarks:

TERPENOID PROFILE

Analysis Date/Time: 02/10/2020 1508

Analyst: JS

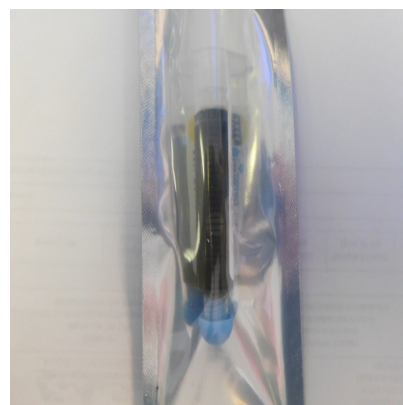
Method: HS/GC/FID (Internal Method-002)

Instrument: Agilent 6890

Deviations from SOP:

None

Terpene	Result (µg/g)	Result (%)	
α-Bisabolol	2991	0.299	■
Camphene	42	0.00418	■
δ-3-Carene	103	0.0103	■
β-Caryophyllene	11557	1.16	■
Caryophyllene oxide	1129	0.113	■
p-Cymene	-	-	
Eucalyptol	-	-	
Geraniol	-	-	
Guaiol	-	-	
α-Humulene	1584	0.158	■
Isopulegol	-	-	
d-Limonene	7652	0.765	■
Linalool	3336	0.334	■
β-Myrcene	2070	0.207	■
cis-Nerolidol	1019	0.102	■
trans-Nerolidol	1632	0.163	■
α-Ocimene	159	0.0159	■
β-Ocimene	687	0.0687	■
α-Pinene	3635	0.364	■
β-Pinene	2466	0.247	■
α-Terpinene	-	-	
γ-Terpinene	-	-	
Terpinolene	499	0.0499	■
TOTAL	40562	4.06	



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

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"-" Not detected above RL.

Reporting Limit (µg/g): 1.39

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Order ID: OR2020-7064	Customer Name: Can-Tek Labs	Harvest/Extract Batch: None

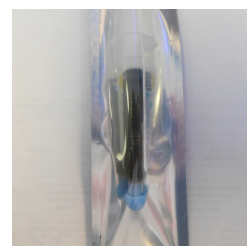
Cultivar (Strain): 60% FSHO 2% CBG	Lab ID: SA2020-22330	Sample Matrix: Oil/Tincture
Sample Date: 02/10/2020	Date Received: 02/10/2020	Date Completed: 02/17/2020

Remarks:

RESIDUAL SOLVENT PROFILE

Analysis Date/Time: 02/10/2020 1508	Method: USP <467>	Deviations from SOP:
Analyst: DJ	Instrument: Agilent 6890	None

Solvent	Result (µg/g)	Action Level (µg/g)	Color Key
Acetone (67-64-1)	-	1000	RESULT < 1/2 AL
Benzene (71-43-2)	-	2	1/2 AL < RESULT < AL
n-Butane (106-97-2)	-	1000	RESULT > AL
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	



"-" 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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CERTIFICATE OF ANALYSIS

Order Type: CBD	Customer ID: 37	Harvest/Extract Lot: CTK-021020-01
Order ID: OR2020-7064	Customer Name: Can-Tek Labs	Harvest/Extract Batch: None

Cultivar (Strain): 60% FSHO 2% CBG	Lab ID: SA2020-22330	Sample Matrix: Oil/Tincture
Sample Date: 02/10/2020	Date Received: 02/10/2020	Date Completed: 02/17/2020

Remarks:

PESTICIDES PROFILE

Analysis Date/Time: 02/10/2020 1508	Method: LC/MS/MS	Deviations from SOP:
Analyst: DJ	Instrument: Waters Acquity/TQD	None

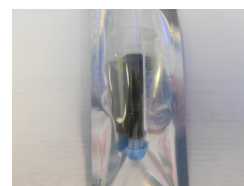
<u>Pesticide</u>	<u>Result</u> (µg/g)	<u>Action Level</u> (µg/g)	<u>Color Key</u>
Abamectin (71751-41-2)	-	0.5	RESULT < 1/2 AL
Azoxystrobin (131860-33-8)	-	0.5	1/2 AL < RESULT < AL
Bifenazate* (149877-41-8)	-	0.5	RESULT > AL
Etiozazole (153233-91-1)	-	0.5	
Imazalil (35554-44-0)	-	0.5	
Imidacloprid (138261-41-3)	-	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.



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	Systhane	Propiconazole	Tilt
DDVP	Dichlorvos	Naled	Dibrom	Propoxur	Baygon
Ethoprophos	Prophos	Phosmet	Imidan		

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Kyle W. Felling, Ph.D.
Laboratory Director

CERTIFICATE OF ANALYSIS**Order Type:** CBD**Order ID:** OR2020-7064**Customer ID:** 37**Customer Name:** Can-Tek Labs**Harvest/Extract Lot:** CTK-021020-01**Harvest/Extract Batch:** None**Cultivar (Strain):** 60% FSHO 2% CBG**Sample Date:** 02/10/2020**Lab ID:** SA2020-22330**Date Received:** 02/10/2020**Sample Matrix:** Oil/Tincture**Date Completed:** 02/17/2020**Remarks:****MYCOTOXIN PROFILE****Analysis Date/Time:** 02/10/2020 1508**Analyst:** DJ**Method:** LC/MS/MS**Instrument:** Waters Acquity/TQD**Deviations from SOP:**

None

Mycotoxin**Result**
(µg/kg)**Action Level**
(µg/kg)

Aflatoxin B1

-

20

Aflatoxin B2

-

20

Aflatoxin G1

-

20

Aflatoxin G2

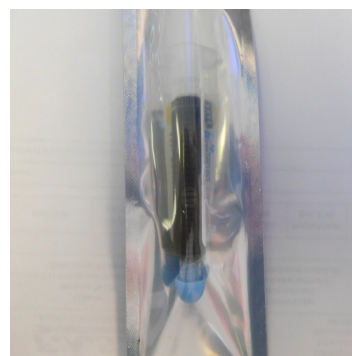
-

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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Order ID: OR2020-7064

Customer ID: 37

Customer Name: Can-Tek Labs

Harvest/Extract Lot: CTK-021020-01

Harvest/Extract Batch: None

Cultivar (Strain): 60% FSHO 2% CBG

Sample Date: 02/10/2020

Lab ID: SA2020-22330

Date Received: 02/10/2020

Sample Matrix: Oil/Tincture

Date Completed: 02/17/2020

Remarks:

HEAVY METAL PROFILE

Analysis Date/Time: 02/10/2020 1508

Analyst: CC

Method: ICP/MS

Instrument: PerkinElmer Elan 9000

Deviations from SOP:

None

Heavy Metal

Result
(µg/kg)

Action Level
(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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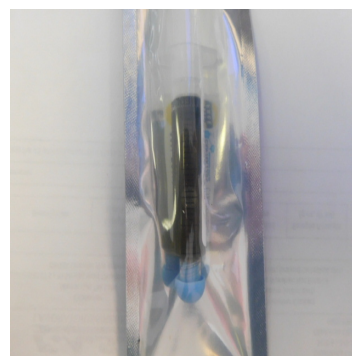
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None

<u>Bacteria/Microbe</u>	<u>Result</u> <u>(CFU/g)</u>	<u>Action Level</u> <u>(CFU/g)</u>
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)**

1

"- " not detected above
reporting limit

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