

SUMMARY OF ANALYSIS (SAMPLE ID: SA28672)

Testing Location:	Customer ID: 37	Order ID: OR8945	Sample Type: Primary
OKC	Can-Tek Labs	Lot Number:	Matrix: Concentrate
3680 E. I-240 Service Rd.	8107 S I-35 Service Rd	Not Entered	Mass: 2.75g
Oklahoma City, OK 73135	Oklahoma City, OK 73149	Batch Number:	Date Collected: 07/07/2020
License: LAAA-4Y4X-Z72Z	License: Not Entered or N/A	CTK-070620-01	Date Received: 07/07/2020
Cultivar (Strain) or Sample Description: 60% FsHO 2% CBG			Date Completed: 07/16/2020

*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.

*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

<u>Cannabinoids (Top 3)</u>	<u>(%)</u>	<u>mg/g</u>
CBD	60.8	608
CBG	1.68	17
CBDv	0.203	2
TOTAL CBD	60.8	608
TOTAL THC	-	-
TOTAL CANNABINOIDS	62.7	627

<u>Terpenes (Top 5)</u>	<u>(%)</u>	<u>µg/g</u>
β-Caryophyllene	0.022	219
α-Humulene	0.014	135
d-Limonene	0.008	76
α-Bisabolol	0.005	48
Linalool	0.004	41
TOTAL TERPENES	0.0675	675

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

Sample Picture Upon Receipt



Scan the QR code to verify results.

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www.FASTLaboratories.com

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



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA28672)

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CANNABINOID (POTENCY) PROFILE

Analysis Date/Time: 07/07/2020 1107

Analyst: KF

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	60.8	608	0.041	-	608
CBDa	-	-	0.041	-	-
CBDv	0.203	2.03	0.041	-	2
Δ9-THC	-	-	0.041	-	-
Δ8-THC	-	-	0.041	-	-
THCa	-	-	0.041	-	-
THCv	-	-	0.041	-	-
CBC	-	-	0.041	-	-
CBG	1.68	16.8	0.041	-	17
CBGa	-	-	0.041	-	-
CBN	-	-	0.041	-	-
TOTAL	62.7	627	-	-	627
TOTAL THC	-	-	-	-	-
TOTAL CBD	60.8	608	-	-	608

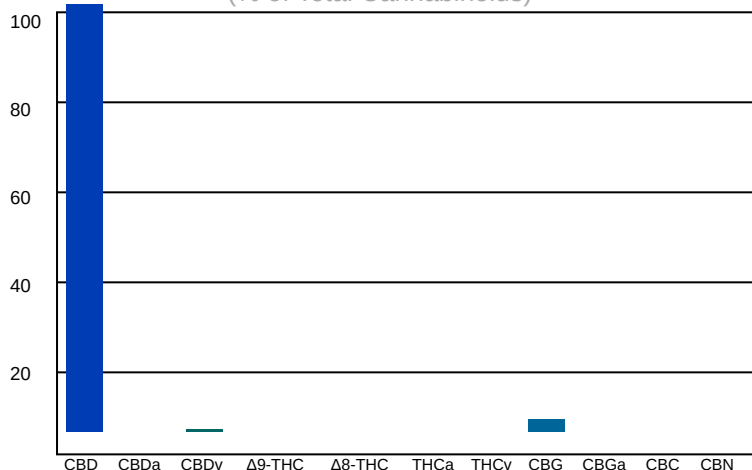


UNIT MASS (g): 1

"-" 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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TERPENOID PROFILE

Analysis Date/Time: 07/07/2020 1107

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

Deviations from SOP:

Analyst: KF

Instrument: Agilent 6890

None

<u>Terpene</u>	<u>Result</u> (µg/g)	<u>Result</u> (%)	
α-Bisabolol	48	0.00482	■
Camphene	2	0.00015	■
δ-3-Carene	-	-	
β-Caryophyllene	219	0.0219	■
Caryophyllene oxide	34	0.00338	■
p-Cymene	2	0.000209	■
Eucalyptol	2	0.000229	■
Geraniol	5	0.000547	■
Guaiol	-	-	
α-Humulene	135	0.0135	■
Isopulegol	-	-	
d-Limonene	76	0.00759	■
Linalool	41	0.00407	■
β-Myrcene	20	0.00203	■
cis-Nerolidol	-	-	
trans-Nerolidol	-	-	
α-Ocimene	4	0.000418	■
β-Ocimene	9	0.000911	■
α-Pinene	39	0.00392	■
β-Pinene	32	0.00322	■
α-Terpinene	-	-	
γ-Terpinene	-	-	
Terpinolene	7	0.000654	■
TOTAL	675	0.0675	



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

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"-" Not detected above RL.

Reporting Limit (µg/g): -

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RESIDUAL SOLVENT PROFILE

Analysis Date/Time: 07/07/2020 1107

Method: USP <467>

Deviations from SOP:

Analyst: KF

Instrument: Agilent 6890

None

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



<u>Solvent</u>	<u>Synonym(s)</u>	<u>Solvent</u>	<u>Synonym(s)</u>	<u>Solvent</u>	<u>Synonym(s)</u>
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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HEAVY METAL PROFILE

Analysis Date/Time: 07/07/2020 1107

Method: ICP/MS

Deviations from SOP:

Analyst: HL

Instrument: PerkinElmer Elan 9000

None

<u>Heavy Metal</u>	<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: 07/07/2020 1107	Method: Hardy Diagnostics CompactDry	Deviations from SOP:
Analyst: EF	Instrument: Thermo Incubator	None

Bacteria/Microbe	Result (CFU/g)	Action Level (CFU/g)
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

RESULT < 1/2 AL
1/2 AL < RESULT < AL
RESULT > AL

Reporting Limit (CFU/g)
1

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