SUMMARY OF ANALYSIS (SAMPLE ID: SA29478)

Testing Location:Customer ID: 37Order ID: OR9240Sample Type: PrimaryArkansasCan-Tek LabsLot Number:Matrix: Oil/Tincture

232 S. Broadview St. 8107 S I-35 Service Rd Not Entered Mass: 3g

Greenbrier, AR 72058 Oklahoma City, OK 73149 **Batch Number: Date Collected:** 01/04/2021 - License: Not Entered or N/A CTK-010421-01 **Date Received:** 01/07/2021

Cultivar (Strain) or Sample Description: 60% FSHO 2% CBG

Date Completed: 01/13/2021

*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 (%) Water Activity (aw) PASS/FAIL

Not Tested Not Tested N/A

Moisture content/water activity action levels are referenced from the State of Arkansas MMJ testing guidelines.

Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

Cannabinoids (Top 3)	<u>(%)</u>	mg/g
CBD	60.7	607
CBG	1.93	19
CBDv	0.236	2
TOTAL CBD	60.7	607
TOTAL THC	-	-
TOTAL CANNABINOIDS	62.9	629
Terpenes (Top 5)	<u>(%)</u>	µg/g
<u>Terpenes (Top 5)</u> d-Limonene	(%) 0.064	<u>µg/g</u> 643
d-Limonene	0.064	643
d-Limonene α-Ocimene	0.064 0.063	643 629
d-Limonene α-Ocimene β-Caryophyllene	0.064 0.063 0.055	643 629 552

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







Kyle W. Felling, Ph.D.

Scan the QR code to verify results.

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CERTIFICATE OF ANALYSIS (SAMPLE ID: SA29478)

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232 S. Broadview St. 8107 S I-35 Service Rd Not Entered **Mass:** 3g

Greenbrier, AR 72058 Oklahoma City, OK 73149 **Batch Number: Date Collected:** 01/04/2021

License: Not Entered or N/A CTK-010421-01 **Date Received:** 01/07/2021

Cultivar (Strain) or Sample Description: 60% FSHO 2% CBG

Date Completed: 01/13/2021

CANNABINOID (POTENCY) PROFILE

Analysis Date/Time: 1/11/2021 1236 Method: HPLC/DAD Moisture Content (%): Analyst: PW Instrument: Agilent 1100 Water Activity (aw): -

Cannabinoid	Result (%)	Result (mg/g)	Reporting Limit (mg/g)	Result (mg/mL)	Per Unit (mg)	
CBD	60.7	607	0.468	-	1822	
CBDa	_	_	0.468	_	_	
CBDv	0.236	2	0.468	_	7	
Δ9-ΤΗС	-	-	0.468	-	-	2 0 0 7 0 0 4
Δ8-ΤΗС	-	-	0.468	-	-	
THCa	-	-	0.468	-	-	
THCv	-	-	0.468	-	-	
CBC	-	-	0.468	-	-	
CBG	1.93	19	0.468	-	58	
CBGa	-	-	0.468	-	-	
CBN	-	-	0.468	-	-	
TOTAL	62.9	629		-	1887	UNIT MASS (g): 3
TOTAL THC	-	_		-	-	"-" Not detected above RL.
TOTAL CBD	60.7	607		-	1822	

Cannabinoid Distribution

(% of Total Cannabinoids)

80

60

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







SUMMARY OF ANALYSIS (SAMPLE ID: SA29478)

Testing Location:Customer ID: 37Order ID: OR9240Sample Type: PrimaryArkansasCan-Tek LabsLot Number:Matrix: Oil/Tincture

232 S. Broadview St. 8107 S I-35 Service Rd Not Entered **Mass:** 3g

Greenbrier, AR 72058 Oklahoma City, OK 73149 **Batch Number: Date Collected:** 01/04/2021

License: Not Entered or N/A CTK-010421-01 **Date Received:** 01/07/2021

Cultivar (Strain) or Sample Description: 60% FSHO 2% CBG

TERPENOID PROFILE

Analysis Date/Time: 01/08/2021 0833 **Method:** GC/MS (Internal Method-002) **Deviations from SOP:**

Analyst: KF Instrument: Agilent 7890/5975 None

<u>Terpene</u>	Result (µg/g)	Result (%)
α-Bisabolol	435	0.0435
Camphene	81	0.00806
δ-3-Carene	111	0.0111
β-Caryophyllene	552	0.0552
Caryophyllene oxide	413	0.0413
p-Cymene	-	-
Eucalyptol	-	-
Geraniol	-	-
Guaiol	129	0.0129
α-Humulene	388	0.0388
Isopulegol	-	-
d-Limonene	643	0.0643
Linalool	106	0.0106
β-Myrcene	169	0.0169
cis-Nerolidol	-	-
trans-Nerolidol	-	-
α-Ocimene	629	0.0629
β-Ocimene	128	0.0128
α-Pinene	212	0.0212
β-Pinene	208	0.0208
α-Terpinene	-	-
γ-Terpinene	-	-
Terpinolene	101	0.0101
TOTAL	4305	0.431





Date Completed: 01/13/2021



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA29478)

Testing Location:Customer ID: 37Sample ID: SA29478Sample Type: PrimaryArkansasCan-Tek LabsLot Number:Matrix: Oil/Tincture

232 S. Broadview St. 8107 S I-35 Service Rd Not Entered Mass: 3g

Greenbrier, AR 72058 Oklahoma City, OK 73149 **Batch Number: Date Collected:** 01/04/2021 ADH License: 113 License: Not Entered or N/A CTK-010421-01 **Date Received:** 01/07/2021

Cultivar (Strain) or Sample Description: 60% FSHO 2% CBG

Date Completed: 01/13/2021

RESIDUAL SOLVENT PROFILE

Analysis Date/Time: 1/9/2021 1614 **Method:** USP <467> **Deviations from SOP:**

Analyst: KF Instrument: Agilent 7890/5975 None

Solvent	Result (μg/g)	Action Level (μg/g)	Solvent	<u>Result</u> (μg/g)	Action Leve (μg/g)
Acetone (67-64-1)	-	5000	n-Heptane (142-82-5)	-	5000
Acetonitrile (75-5-8)	-	410	n-Hexane (110-54-3)	-	290
Benzene (71-43-2)	-	2	Isobutane (75-28-5)	-	5000
n-Butane (106-97-2)	-	5000	Isopropanol (67-63-0)	-	5000
1-Butanol (71-36-3)	-	5000	Isopropyl acetate (108-21-4)	-	5000
2-Butanol (78-92-2)	-	5000	Isopropyl benzene (98-82-8)	-	70
2-Butanone (78-93-3)	-	5000	Methanol (67-56-1)	-	3000
Cyclohexane (110-82-7)	-	3880	2-Methylbutane (78-78-4)	-	5000
1,2-Dimethoxyethane (110-71-4)	-	100	Methylene chloride (75-9-2)	-	600
N,N-Dimethylacetamide (127-19-5)	-	1090	2-Methylpentane (107-83-5)	-	290
2,2-Dimethylbutane (75-83-2)	-	290	3-Methylpentane (96-10-0)	-	290
2,3-Dimethylbutane (79-29-8)	-	290	n-Pentane (109-66-0)	-	5000
N,N-Dimethylformamide (68-12-2)	-	880	1-Pentanol (71-41-0)	-	5000
Dimethylsulfoxide (67-68-5)	-	5000	n-Propane (74-98-6)	-	5000
1,4-Dioxane (123-91-1)	-	380	1-Propanol (71-23-8)	-	5000
Ethanol (64-17-5)	-	5000	Pyridine (110-86-1)	-	200
2-Ethoxyethanol (110-80-5)	-	160	Tetrahydrofuran (109-99-9)	-	720
Ethyl ether (60-29-7)	-	5000	Tetramethylene sulfone (126-33-0)	-	160
Ethyl acetate (141-78-6)	-	5000	Toluene (108-88-3)	-	890
Ethyl benzene (100-41-4)	-	2170	o-Xylene (95-47-6)	-	2170
Ethylene glycol (107-21-1)	-	620	m,p-Xylene (108-38-3 or 106-42-3)		2170
Ethylene oxide (75-21-8)	-	620	Xylenes* (1330-20-7)	-	160



Color Key



Reporting Limit (μg/g) 1/2 of AL

- "-" not detected above reporting limit
- "*" o,m,p-Xylene and Ethylbenzene

Action levels are referenced from the State of Arkansas MMJ testing guidelines.

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 Dumioi	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		V 1 1	3	Sulfolane
2,3-Dimethylbutane	Diisopropyl	Isopropanol	2-Propanol, IPA	Tetramethylene sulfone	Suitolalle
N.N-Dimethylformamide	DMF	Isopropyl Acetate	Acetic acid isopropyl ester	Xylene	Dimethylbenzene

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

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DMSO

Dimethysufoxide





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232 S. Broadview St. 8107 S I-35 Service Rd Not Entered Mass: 3g

Greenbrier, AR 72058 Oklahoma City, OK 73149 **Batch Number: Date Collected:** 01/04/2021 License: Not Entered or N/A CTK-010421-01 **Date Received:** 01/07/2021

Cultivar (Strain) or Sample Description: 60% FSHO 2% CBG

Date Completed: 01/13/2021

PESTICIDES PROFILE

Analysis Date/Time: 1/9/2021 1312 **Method:** LC/MS/MS **Deviations from SOP:**

Analyst: KF Instrument: Shimadzu LC-8050 None

<u>Pesticide</u>	<u>Result</u> (μg/g)	Action Level (μg/g)	<u>Pesticide</u>	Result (μg/g)	Action Level (µg/g)
Abamectin (71751-41-2)	-	0.2	Imazalil (35554-44-0)	-	0.2
Acephate (30560-19-1)	-	0.4	Imidacloprid (138261-41-3)	-	0.4
Acequinocyl (57960-19-7)	-	2	Kresoxim-methyl (143390-89-0)	-	0.4
Acetamiprid (135410-20-7)	-	0.2	Malathion (121-75-5)	-	0.2
Aldicarb (116-06-3)	-	0.4	Metalaxyl (57837-19-1)	-	0.2
Azoxystrobin (131860-33-8)	-	0.2	Methiocarb (2032-65-7)	-	0.2
Bifenazate (149877-41-8)	-	0.2	Methomyl (16752-77-5)	-	0.4
Bifenthrin (82657-04-3)	-	0.2	Methyl parathion (298-0-0)	-	0.2
Boscalid (188425-85-6)	-	0.4	MGK 264 (113-48-4)	-	0.2
Carbaryl (63-25-2)	-	0.2	Myclobutanil (88671-89-0)	-	0.2
Carbofuran (1563-66-2)	-	0.2	Naled (300-76-5)	-	0.5
Chlorantraniliprole (800008-45-7)	-	0.2	Oxamyl (23135-22-0)	-	1
Chlorfenapyr (122453-73-0)	-	1	Paclobutrazol* (76738-62-0)	-	0.4
Chlorpyrifos (2921-88-2)	-	0.2	Permethrins (52645-53-1)	-	0.2
Clofentezine (74115-24-5)	-	0.2	Phosmet (732-11-6)	-	0.2
Cyfluthrin (68359-37-5)	-	1	Piperonyl butoxide (51-03-6)	-	2
Cypermethrin (52315-07-8)	-	1	Prallethrins (2331-36-9)	-	0.2
Daminozide (1596-84-5)	-	1	Propiconazole (60207-90-1))	-	0.4
DDVP (62-73-7)	-	0.1	Propoxur (114-26-1)	-	0.2
Diazinon (333-41-5)	-	0.2	Pyrethrins (8003-34-7)	-	1
Dimethoate (60-51-5)	-	0.2	Pyridaben (96489-71-3)	-	0.2
Ethoprophos (13194-48-4)	-	0.2	Spinosad (168316-95-8)	-	0.2
Etofenprox (80844-07-1)	-	0.4	Spiromesifen (283594-90-1)	-	0.2
Etoxazole (153233-91-1)	-	0.2	Spirotetramat (203313-25-1)	-	0.2
Fenoxycarb (72490-01-8)	-	0.2	Spiroxamine (118134-30-8)	-	0.4
(E)-Fenpyroximate (134098-61-6)	-	0.4	Tebuconazole (80443-41-0)	-	0.4
Fipronil (120068-37-3)	-	0.4	Thiacloprid (111988-49-9)	-	0.2
Flonicamid (158062-67-0)	-	1	Thiamethoxam (153719-23-4)	-	0.2
Fludioxinil (131341-86-1)	-	0.4	Trifloxystrobin (141517-21-7)	-	0.2
Hexythiazox (78587-05-0)	-	1			



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

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

Pyrethrins measured as the cumulative residue of the pyrethrin I, cinerin I, and jasmolin I isomers.

Action levels are referenced from the State of Arkansas MMJ testing guidelines.

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







CERTIFICATE OF ANALYSIS (SAMPLE ID: SA29478)

Testing Location:Customer ID: 37Sample ID: SA29478Sample Type: PrimaryArkansasCan-Tek LabsLot Number:Matrix: Oil/Tincture

232 S. Broadview St. 8107 S I-35 Service Rd Not Entered **Mass:** 3g

Greenbrier, AR 72058 Oklahoma City, OK 73149 **Batch Number: Date Collected:** 01/04/2021 License: Not Entered or N/A CTK-010421-01 **Date Received:** 01/07/2021

Cultivar (Strain) or Sample Description: 60% FSHO 2% CBG

MYCOTOXIN PROFILE

Analysis Date/Time: 01/08/2021 0833 Method: LC/MS/MS Deviations from SOP:

Analyst: KF Instrument: Shimadzu LC-8050 None

<u>Mycotoxin</u>	Result (µg/kg)	Action Level (μg/kg)
Aflatoxin B1	-	20
Aflatoxin B2	-	20
Aflatoxin G1	-	20
Aflatoxin G2	-	20
Ochratoxin A	-	20



Date Completed: 01/13/2021

Abbreviations: LC - Liquid Chromatography, MS - Mass Spectrometry, 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

Action levels for mycotoxins are referenced from the State of Oklahoma MMJ testing guidelines.







CERTIFICATE OF ANALYSIS (SAMPLE ID: SA29478)

Testing Location:Customer ID: 37Sample ID: SA29478Sample Type: PrimaryArkansasCan-Tek LabsLot Number:Matrix: Oil/Tincture

232 S. Broadview St. 8107 S I-35 Service Rd Not Entered Mass: 3g

Greenbrier, AR 72058 Oklahoma City, OK 73149 **Batch Number: Date Collected:** 01/04/2021 License: Not Entered or N/A CTK-010421-01 **Date Received:** 01/07/2021

Cultivar (Strain) or Sample Description: 60% FSHO 2% CBG

HEAVY METAL PROFILE

Analysis Date/Time: 1/9/2021 1217 (ICP/OES) Method: ICP/OES Deviations from SOP:

Analysis Date/Time: 1/9/2021 (DMA) Instrument: Agilent 720-ES/DMA-80 None

Analyst: KF

Heavy Metal	<u>Result</u> (μg/kg)	<u>Action Level</u> (μg/kg)
Arsenic (As)	-	200
Cadmium (Cd)	-	200
Lead (Pb)	-	500
Mercury (Hg)	-	100



Date Completed: 01/13/2021

Abbreviations: ICP - Inductively-Coupled Plasma, OES - Optical Emission Spectroscopy, DMA - Direct Mercury Analyzer, 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

Action levels for heavy metals are referenced from the State of Arkansas MMJ testing guidelines.







CERTIFICATE OF ANALYSIS (SAMPLE ID: SA29478)

Testing Location:

Arkansas 232 S. Broadview St. Greenbrier, AR 72058 Customer ID: 37
Can-Tek Labs
8107 S I-35 Service Rd
Oklahoma City, OK 73149
License: Not Entered or N/A

Sample ID: SA29478
Lot Number:
Not Entered
Batch Number:
CTK-010421-01

Sample Type: Primary **Matrix:** Oil/Tincture **Mass:** 3g

Date Collected: 01/04/2021 **Date Received:** 01/07/2021

Date Completed: 01/13/2021

Cultivar (Strain) or Sample Description: 60% FSHO 2% CBG

MICROBIOLOGICAL PROFILE

Analysis Date/Time: 1/12/2021 Method: Hardy Diagnostics CompactDry Deviations from SOP:

Analyst: PW Instrument: Thermo Incubator None

Bacteria/Microbe	<u>Result</u> (CFU/g)	Action Level (CFU/g)
Coliforms, Total	Absent	100
Escherichia Coli (E. Coli)	Absent	1
Mold/Yeast	Absent	10000
Salmonella spp.	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

RESULT < 1/2 AL

1/2 AL < RESULT < AL

RESULT > AL

Color Key

Reporting Limit (CFU/g)

Action levels for "Total Coliforms/Escherichia Coli" are referenced from the State of Arkansas MMJ testing guidelines. Action levels for "Mold/Yeast" and "Salmonella spp." are referenced from the State of Oklahoma MMJ testing guidelines.



