

SUMMARY OF ANALYSIS (SAMPLE ID: SA31934)

Testing Location:	Customer ID: 37	Order ID: OR9928	Sample Type: Primary
Arkansas	Can-Tek Labs	Lot Number:	Matrix: Oil/Tincture
232 S. Broadview St.	8107 S I-35 Service Rd	0405-20	Mass: 60g
Greenbrier, AR 72058	Oklahoma City, OK 73149	Batch Number:	Date Collected: 07/18/2022
License: ADA 05_H273	License: Not Entered or N/A	CTK-071822-01-SAV	Date Received: 07/20/2022
Cultivar (Strain) or Sample Description: Sat A Vet Large Breed Pet Tincture 60mL			Date Completed: 07/26/2022

*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. All contaminant action levels are referenced from the State of Oklahoma-Oral/Rectal/Vaginal MMJ testing guidelines.

Moisture Content (%)

Not Tested

Water Activity (aw)

Not Tested

PASS/FAIL

N/A

Moisture content/water activity action levels are referenced from the State of Oklahoma-Oral/Rectal/Vaginal MMJ testing guidelines.

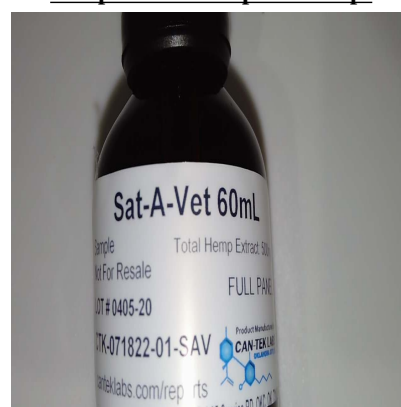
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

Cannabinoids (Top 3)	(%)	mg/g
CBD	0.742	7.42
CBC	0.0329	0.329
CBGA	0.0170	0.170
TOTAL CBD	0.757	7.57
TOTAL THC	-	-
TOTAL CANNABINOIDS	0.823	8.23

Terpenes (Top 5)	(%)	µg/g
β-Caryophyllene	0.00643	64.3
Caryophyllene oxide	0.00589	58.9
α-Humulene	0.00250	25.0
d-Limonene	0.00112	11.2
α-Bisabolol	0.000	0.000
TOTAL TERPENES	0.0159	159

Contaminants	PASS/FAIL
Heavy Metals:	PASS
Microbiology:	PASS
Pesticides:	PASS
Residual Solvents:	PASS

Sample Picture Upon Receipt



Scan the QR code to verify results.

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Felling Analytical Services and Technology (F.A.S.T.), LLC

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

www.FASTLaboratories.com



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CANNABINOID (POTENCY) PROFILE (SOP: SOP-CANN-001)

Analysis Date/Time: 7/26/2022 1443

Method: HPLC/DAD

Moisture Content (%): -

Analyst: PW

Instrument: Agilent 1100

Water Activity (aw): -

<u>Cannabinoid</u>	<u>Result</u> (%)	<u>UM</u> (+/-%)	<u>Result</u> (mg/g)	<u>LOQ</u> (mg/g)	<u>Result</u> (mg/mL)	<u>Per</u> <u>Serving</u> (mg)	<u>Per</u> <u>Unit</u> (mg)
CBC	0.0329	0.00461	0.329	0.0755	-	0.329	19.8
CBCA	-	-	-	0.0755	-	-	-
CBD	0.742	0.0668	7.42	0.0755	-	7.42	445
CBDA	0.0166	0.00166	0.166	0.0755	-	0.166	9.94
CBDV	-	-	-	0.0755	-	-	-
CBDVA	-	-	-	0.0755	-	-	-
CBG	0.0147	0.00191	0.147	0.0755	-	0.147	8.81
CBGA	0.0170	0.00186	0.170	0.0755	-	0.170	10.2
CBL	-	-	-	0.0755	-	-	-
CBN	-	-	-	0.0755	-	-	-
CBNA	-	-	-	0.0755	-	-	-
Δ9-THC	-	-	-	0.0755	-	-	-
Δ8-THC	-	-	-	0.0755	-	-	-
THCA	-	-	-	0.0755	-	-	-
THCV	-	-	-	0.0755	-	-	-
THCVA	-	-	-	0.0755	-	-	-
TOTAL	0.823	0.0768	8.23	-	-	8.23	494
TOTAL CBC	0.0329	0.00461	0.329	-	-	0.329	19.8
TOTAL CBD	0.757	0.0683	7.57	-	-	7.57	454
TOTAL CBDV	-	-	-	-	-	-	-
TOTAL CBG	0.0296	0.00355	0.296	-	-	0.296	17.7
TOTAL CBN	-	-	-	-	-	-	-
TOTAL THC	-	-	-	-	-	-	-
TOTAL THCVA	-	-	-	-	-	-	-



SERVING MASS (g): 1.00
SERVINGS/UNIT: 60

"-" Not detected above LOD.

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 CBC = (CBCA x 0.877) + CBC
Total CBD = (CBDA x 0.877) + CBD
Total CBDV = (CBDVA x 0.867) + CBDV
Total CBG = (CBGA x 0.878) + CBG
Total CBN = (CBNA x 0.876) + CBN
Total THC = (THCA x 0.877) + Δ9-THC
Total THCVA = (THCVA x 0.867) + THCVA

Percentage results are reported by mass.

mg/g results are reported as mass component per mass material.

* CBCA, CBDVA, CBL, CBNA, and THCVA are in process of being added to our accreditation scope.

Abbreviations: DAD - Diode Array Detector, HPLC - High Pressure Liquid Chromatography,
RL - Reporting Limit, RPD - Relative Percent Difference, RSD - Relative Standard Deviation,
DET - Detected (less than LOQ), LOD - Limit of Detection, LOQ - Limit of Quantitation,
UM - Measurement Uncertainty

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TERPENOID PROFILE

Analysis Date/Time: 7/22/2022 0841

Method: GC/MS

Deviations from SOP:

Analyst: KF

Instrument: Agilent 7890/5975

None

Terpene	Result (µg/g)	Result (%)	
α-Bisabolol	-	-	
Camphene	-	-	
δ-3-Carene	-	-	
β-Caryophyllene	64.3	0.00643	
Caryophyllene oxide	58.9	0.00589	
p-Cymene	-	-	
Eucalyptol	-	-	
Geraniol	-	-	
Guaiol	-	-	
α-Humulene	25.0	0.00250	
Isopulegol	-	-	
d-Limonene	11.2	0.00112	
Linalool	-	-	
β-Myrcene	-	-	
cis-Nerolidol	-	-	
trans-Nerolidol	-	-	
α-Ocimene	-	-	
β-Ocimene	-	-	
α-Pinene	-	-	
β-Pinene	-	-	
α-Terpinene	-	-	
γ-Terpinene	-	-	
Terpinolene	-	-	
TOTAL	159	0.0159	



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

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"-" Not detected above RL.

Reporting Limit (µg/g): 11.0

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RESIDUAL SOLVENT PROFILE (SOP: SOP-RS-001)

Analysis Date/Time: 7/21/2022 1454	Method: HS/GC/MS	Deviations from SOP:
Analyst: KF	Instrument: Agilent 7890/5975	None

<u>Solvent</u>	<u>Result</u> (µg/g)	<u>LOD</u> (µg/g)	<u>LOQ</u> (µg/g)	<u>Action</u> <u>Level</u> (µg/g)	<u>Solvent</u>	<u>Result</u> (µg/g)	<u>LOD</u> (µg/g)	<u>LOQ</u> (µg/g)	<u>Action</u> <u>Level</u> (µg/g)
Acetone (67-64-1)	-	40.1	80.1	1000	n-Heptane (142-82-5)	-	40.1	80.1	1000
Acetonitrile (75-5-8)	-	40.1	80.1	-	n-Hexane (110-54-3)	-	14.0	28.0	60
Benzene (71-43-2)	-	0.401	0.801	2	Isobutane (75-28-5)	-	40.1	80.1	1000
n-Butane (106-97-2)	-	40.1	80.1	1000	Isopropanol (67-63-0)	-	40.1	80.1	1000
1-Butanol (71-36-3)	-	40.1	80.1	-	Isopropyl acetate (108-21-4)	-	40.1	80.1	-
2-Butanol (78-92-2)	-	40.1	80.1	-	Isopropyl benzene (98-82-8)	-	4.01	8.01	-
2-Butanone (78-93-3)	-	40.1	80.1	-	Methanol (67-56-1)	-	40.1	80.1	600
Cyclohexane (110-82-7)	-	40.1	80.1	-	2-Methylbutane (78-78-4)	-	40.1	80.1	-
1,2-Dimethoxyethane (110-71-4)	-	4.01	8.01	-	Methylene chloride (75-9-2)	-	40.1	80.1	-
N,N-Dimethylacetamide (127-19-5)	-	40.1	80.1	-	2-Methylpentane (107-83-5)	-	14.0	28.0	-
2,2-Dimethylbutane (75-83-2)	-	14.0	28.0	-	3-Methylpentane (96-10-0)	-	14.0	28.0	-
2,3-Dimethylbutane (79-29-8)	-	14.0	28.0	-	n-Pentane (109-66-0)	-	40.1	80.1	1000
N,N-Dimethylformamide (68-12-2)	-	40.1	80.1	-	1-Pentanol (71-41-0)	-	40.1	80.1	-
Dimethylsulfoxide (67-68-5)	-	40.1	80.1	-	n-Propane (74-98-6)	-	40.1	80.1	1000
1,4-Dioxane (123-91-1)	-	40.1	80.1	-	1-Propanol (71-23-8)	-	40.1	80.1	-
Ethanol (64-17-5)	-	40.1	80.1	-	Pyridine (110-86-1)	-	14.0	28.0	-
2-Ethoxyethanol (110-80-5)	-	14.0	28.0	-	Tetrahydrofuran (109-99-9)	-	40.1	80.1	-
Ethyl ether (60-29-7)	-	40.1	80.1	-	Tetramethylene sulfone (126-33-0)	-	14.0	28.0	-
Ethyl acetate (141-78-6)	-	40.1	80.1	1000	Toluene (108-88-3)	-	40.1	80.1	180
Ethyl benzene (100-41-4)	-	40.1	80.1	-	o-Xylene (95-47-6)	-	40.1	80.1	430
Ethylene glycol (107-21-1)	-	40.1	80.1	-	m,p-Xylene (108-38-3 or 106-42-3)	-	40.1	80.1	430
Ethylene oxide (75-21-8)	-	4.01	8.01	-	Xylenes* (1330-20-7)	-	43.3	86.7	430



Color Key

RESULT < AL

RESULT > AL

"DET" detected less than LOQ

"-" not detected above LOD

"*" - o,m,p-Xylene and Ethylbenzene

Action levels are referenced from the State of Oklahoma-Oral/Rectal/Vaginal MMJ testing guidelines.

A value of "-" for the action level means that analyte is not currently regulated by the regulations referenced above.

<u>Solvent</u>	<u>Synonym(s)</u>	<u>Solvent</u>	<u>Synonym(s)</u>
Acetonitrile	Methyl Cyanide, ACN	Ethylene glycol	1,2-Ethanediol
1-Butanol	n-Butanol, Butyl Alcohol	Isobutane	2-Methylpropane
2-Butanol	sec-Butyl alcohol	Isopropanol	2-Propanol, IPA
2-Butanone	Methyl ethyl ketone, MEK	Isopropyl Acetate	Acetic acid isopropyl ester
1,2-Dimethoxyethane	Monoglyme	Methanol	Methyl alcohol
2,3-Dimethylbutane	Neohexane	2-Methylbutane	Isopentane
2,3-Dimethylbutane	Diisopropyl	Methylene chloride	Dichloromethane
N,N-Dimethylformamide	DMF	2-Methylpentane	Isohexane
Dimethylsulfoxide	DMSO	1-Pentanol	n-Amyl alcohol
2-Ethoxyethanol	Cellosolve, Ethyl glycol	1-Propanol	Propyl alcohol
Ethyl ether	Diethyl ether, Ether	Tetrahydrofuran	THF
Ethyl acetate	EtOAc	Tetramethylene sulfone	Sulfolane
Ethyl benzene	Phenylethane	Xylene	Dimethylbenzene

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

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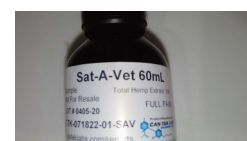
PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 7/21/2022 1528
Analyst: KF

Method: LC/MS/MS
Instrument: Shimadzu LC-8050

Deviations from SOP:
None

Pesticide	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)	Pesticide	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)
Abamectin (71751-41-2)	-	0.0110	0.0878	0.5	Kresoxim-methyl (143390-89-0)	-	0.0110	0.0878	-
Acephate (30560-19-1)	-	0.0110	0.0878	-	Malathion (121-75-5)	-	0.0110	0.0878	0.2
Acetaminophen (57960-19-7)	-	0.0110	0.0878	-	Metolachlor (57837-19-1)	-	0.0110	0.0878	-
Acetaminophen (135410-20-7)	-	0.0110	0.0878	-	Methiocarb (2032-65-7)	-	0.0110	0.0878	-
Aldicarb (116-06-3)	-	0.0110	0.0878	-	Methomyl (16752-77-5)	-	0.0110	0.0878	-
Azoxystrobin (131860-33-8)	-	0.0110	0.0878	0.2	Methyl parathion (298-0-0)	-	0.0110	0.0878	-
Bifenazate (149877-41-8)	-	0.0110	0.0878	0.2	MGK 264 (113-48-4)	-	0.0110	0.0878	-
Bifenthrin (82657-04-3)	-	0.0110	0.0878	-	Myclobutanil (88671-89-0)	-	0.0110	0.0878	0.2
Boscalid (188425-85-6)	-	0.0110	0.0878	-	Naled (300-76-5)	-	0.0110	0.0878	-
Carbaryl (63-25-2)	-	0.0110	0.0878	-	Oxamyl (23135-22-0)	-	0.0110	0.0878	-
Carbofuran (1563-66-2)	-	0.0110	0.0878	-	Paclobutrazol (76738-62-0)	-	0.0110	0.0878	-
Chlorantraniliprole (800008-45-7)	-	0.0110	0.0878	-	Permethrins (52645-53-1)	-	0.0110	0.0878	0.2
Chlorfenapyr (122453-73-0)	-	0.0110	0.0878	-	Phosmet (732-11-6)	-	0.0110	0.0878	-
Chlorpyrifos (2921-88-2)	-	0.0110	0.0878	-	Piperonyl butoxide (51-03-6)	-	0.0110	0.0878	-
Clofentezine (74115-24-5)	-	0.0110	0.0878	-	Prallethrin (2331-36-9)	-	0.0110	0.0878	-
Cyfluthrin (68359-37-5)	-	0.0110	0.0878	-	Propiconazole (60207-90-1)	-	0.0110	0.0878	-
Cypermethrin (52315-07-8)	-	0.0110	0.0878	-	Propoxur (114-26-1)	-	0.0110	0.0878	-
Daminozide (1596-84-5)	-	0.0110	0.0878	-	Pyrethrins (8003-34-7)	-	0.0110	0.0878	-
DDVP (62-73-7)	-	0.0110	0.0878	-	Pyridaben (96489-71-3)	-	0.0110	0.0878	-
Diazinon (333-41-5)	-	0.0110	0.0878	-	Spinosad (168316-95-8)	-	0.0110	0.0878	0.2
Dimethoate (60-51-5)	-	0.0110	0.0878	-	Spiromesifen (283594-90-1)	-	0.0110	0.0878	0.2
Ethoprophos (13194-48-4)	-	0.0110	0.0878	-	Spirotetramat (203313-25-1)	-	0.0110	0.0878	0.2
Etofenprox (80844-07-1)	-	0.0110	0.0878	-	Spiroxamine (118134-30-8)	-	0.0110	0.0878	-
Etazoxole (153233-91-1)	-	0.0110	0.0878	0.2	Tebuconazole (80443-41-0)	-	0.0110	0.0878	0.4
Fenoxycarb (72490-01-8)	-	0.0110	0.0878	-	Thiacloprid (111988-49-9)	-	0.0110	0.0878	-
(E)-Fenpyroximate (134098-61-6)	-	0.0110	0.0878	-	Thiamethoxam (153719-23-4)	-	0.0110	0.0878	-
Fipronil (120068-37-3)	-	0.0110	0.0878	-	Trifloxystrobin (141517-21-7)	-	0.0110	0.0878	-
Flonicamid (158062-67-0)	-	0.0110	0.0878	-					
Fludioxinil (131341-86-1)	-	0.0110	0.0878	-					
Hexythiazox (78587-05-0)	-	0.0110	0.0878	-					
Imazalil (35554-44-0)	-	0.0110	0.0878	0.2					
Imidacloprid (138261-41-3)	-	0.0110	0.0878	0.4					



Color Key

RESULT < AL

RESULT > AL

"DET" detected less than LOQ

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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.

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

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Greenbrier, AR 72058	Oklahoma City, OK 73149	Batch Number:	Date Collected: 07/18/2022
License: ADA 05_H273	License: Not Entered or N/A	CTK-071822-01-SAV	Date Received: 07/20/2022
Cultivar (Strain) or Sample Description: Sat A Vet Large Breed Pet Tincture 60ml			Date Completed: 07/26/2022

HEAVY METAL PROFILE (SOP: SOP-ICP-200.7)

Analysis Date/Time: 07/22/2022 0937 (ICP/OES)	Method: ICP/OES	Deviations from SOP:
Analysis Date/Time: - (DMA)	Instrument: Agilent 720-ES	None
Analyst: KF		

Heavy Metal	Result (µg/kg)	LOD (µg/kg)	LOQ (µg/kg)	Action Level (µg/kg)
Arsenic (As)	-	56.6	89.6	1500
Cadmium (Cd)	-	56.6	89.6	500
Lead (Pb)	-	56.6	89.6	1000
Mercury (Hg)	-	56.6	89.6	1500



Abbreviations: ICP - Inductively-Coupled Plasma, OES - Optical Emission Spectroscopy,
DMA - Direct Mercury Analyzer, RL - Reporting Limit, AL - Action Level, LOD - Limit of Detection, LOQ - Limit of Quantitation

Color Key

RESULT < AL
RESULT > AL

"DET" detected less than LOQ

"-" not detected above LOD

Action levels for heavy metals are referenced from the State of Oklahoma-Oral/Rectal/Vaginal MMJ testing guidelines.

Disclaimer: This information is provided as a service and makes no claims of efficacy and/or safety of this product. Results are applicable only for the sample(s) analyzed and for the specific analysis conducted. This report is for informational purposes only and should not be used to diagnose, treat, or prevent any medical-related symptoms. The statements and results herein have not been approved and/or endorsed by the FDA.

REPORT OF LABORATORY ANALYSIS

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



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA31934)

Testing Location:	Customer ID: 37	Sample ID: SA31934	Sample Type: Primary
Arkansas	Can-Tek Labs	Lot Number:	Matrix: Oil/Tincture
232 S. Broadview St.	8107 S I-35 Service Rd	0405-20	Mass: 60g
Greenbrier, AR 72058	Oklahoma City, OK 73149	Batch Number:	Date Collected: 07/18/2022
License: ADA 05_H273	License: Not Entered or N/A	CTK-071822-01-SAV	Date Received: 07/20/2022
Cultivar (Strain) or Sample Description: Sat A Vet Large Breed Pet Tincture 60ml			Date Completed: 07/26/2022

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 07/21/2022 1108	Method: Hardy Diagnostics CompactDry	Deviations from SOP:
Analyst: PW	Instrument: Thermo Incubator	None

Bacteria/Microbe	Result (CFU/g)	Action Level (CFU/g)
Aerobic Plate Count	NT	-
Coliforms, Total	Absent	-
Escherichia Coli (E. Coli)	Absent	1
Mold/Yeast	Absent	10
Salmonella spp.	Absent	1
Staphylococcus aureus	Absent	-



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 < AL

RESULT > AL

Reporting Limit (CFU/g)

1

Action levels for microbiology are referenced from the State of Oklahoma-Oral/Rectal/Vaginal MMJ testing guidelines.
A value of "-" for the action level means that analyte is not currently regulated by the regulations referenced above.

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