

SUMMARY OF ANALYSIS (SAMPLE ID: SA31935)

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	0405-21	Mass: 30g
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-071822-02-SAV	Date Received: 07/20/2022
Cultivar (Strain) or Sample Description: Sat A Vet Small Breed Pet Tincture 30ml			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	0.736	7.36
CBC	0.0346	0.346
CBGA	0.0166	0.166
TOTAL CBD	0.750	7.50
TOTAL THC	-	-
TOTAL CANNABINOIDS	0.819	8.19

Terpenes (Top 5)	(%)	µg/g
β-Caryophyllene	0.00551	55.1
Caryophyllene oxide	0.00541	54.1
α-Humulene	0.00204	20.4
d-Limonene	0.00113	11.3
α-Bisabolol	0.000	0.000
TOTAL TERPENES	0.0141	141

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



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA31935)

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

Analysis Date/Time: 7/26/2022 1508

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	0.0346	0.00485	0.346	0.0763	-	0.346	10.4
CBCA	-	-	-	0.0763	-	-	-
CBD	0.736	0.0662	7.36	0.0763	-	7.36	221
CBDV	0.0155	0.00155	0.155	0.0763	-	0.155	4.66
CBDVA	-	-	-	0.0763	-	-	-
CBG	0.0158	0.00206	0.158	0.0763	-	0.158	4.75
CBGA	0.0166	0.00183	0.166	0.0763	-	0.166	4.99
CBL	-	-	-	0.0763	-	-	-
CBN	-	-	-	0.0763	-	-	-
CBNA	-	-	-	0.0763	-	-	-
Δ9-THC	-	-	-	0.0763	-	-	-
Δ8-THC	-	-	-	0.0763	-	-	-
THCA	-	-	-	0.0763	-	-	-
THCV	-	-	-	0.0763	-	-	-
THCVA	-	-	-	0.0763	-	-	-
TOTAL	0.819	0.0765	8.19	-	-	8.19	246
TOTAL CBC	0.0346	0.00485	0.346	-	-	0.346	10.4
TOTAL CBD	0.750	0.0676	7.50	-	-	7.50	225
TOTAL CBDV	-	-	-	-	-	-	-
TOTAL CBG	0.0304	0.00366	0.304	-	-	0.304	9.13
TOTAL CBN	-	-	-	-	-	-	-
TOTAL THC	-	-	-	-	-	-	-
TOTAL THCVA	-	-	-	-	-	-	-



SERVING MASS (g): 1.00
SERVINGS/UNIT: 30

"-" 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 = (CBDV 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 0905

Method: GC/MS

Deviations from SOP:

Analyst: KF

Instrument: Agilent 7890/5975

None

<u>Terpene</u>	<u>Result</u> (µg/g)	<u>Result</u> (%)	
α-Bisabolol	-	-	
Camphene	-	-	
δ-3-Carene	-	-	
β-Caryophyllene	55.1	0.00551	
Caryophyllene oxide	54.1	0.00541	
p-Cymene	-	-	
Eucalyptol	-	-	
Geraniol	-	-	
Guaiol	-	-	
α-Humulene	20.4	0.00204	
Isopulegol	-	-	
d-Limonene	11.3	0.00113	
Linalool	-	-	
β-Myrcene	-	-	
cis-Nerolidol	-	-	
trans-Nerolidol	-	-	
α-Ocimene	-	-	
β-Ocimene	-	-	
α-Pinene	-	-	
β-Pinene	-	-	
α-Terpinene	-	-	
γ-Terpinene	-	-	
Terpinolene	-	-	
TOTAL	141	0.0141	



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

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"-" Not detected above RL.

Reporting Limit (µg/g): 11.1

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

Analysis Date/Time: 7/21/2022 1543	Method: HS/GC/MS	Deviations from SOP:
Analyst: KF	Instrument: Agilent 7890/5975	None

Solvent	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)	Solvent	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)
Acetone (67-64-1)	-	37.6	75.1	1000	n-Heptane (142-82-5)	-	37.6	75.1	1000
Acetonitrile (75-5-8)	-	37.6	75.1	-	n-Hexane (110-54-3)	-	13.1	26.3	60
Benzene (71-43-2)	-	0.376	0.751	2	Isobutane (75-28-5)	-	37.6	75.1	1000
n-Butane (106-97-2)	-	37.6	75.1	1000	Isopropanol (67-63-0)	-	37.6	75.1	1000
1-Butanol (71-36-3)	-	37.6	75.1	-	Isopropyl acetate (108-21-4)	-	37.6	75.1	-
2-Butanol (78-92-2)	-	37.6	75.1	-	Isopropyl benzene (98-82-8)	-	3.76	7.51	-
2-Butanone (78-93-3)	-	37.6	75.1	-	Methanol (67-56-1)	-	37.6	75.1	600
Cyclohexane (110-82-7)	-	37.6	75.1	-	2-Methylbutane (78-78-4)	-	37.6	75.1	-
1,2-Dimethoxyethane (110-71-4)	-	3.76	7.51	-	Methylene chloride (75-9-2)	-	37.6	75.1	-
N,N-Dimethylacetamide (127-19-5)	-	37.6	75.1	-	2-Methylpentane (107-83-5)	-	13.1	26.3	-
2,2-Dimethylbutane (75-83-2)	-	13.1	26.3	-	3-Methylpentane (96-10-0)	-	13.1	26.3	-
2,3-Dimethylbutane (79-29-8)	-	13.1	26.3	-	n-Pentane (109-66-0)	-	37.6	75.1	1000
N,N-Dimethylformamide (68-12-2)	-	37.6	75.1	-	1-Pentanol (71-41-0)	-	37.6	75.1	-
Dimethylsulfoxide (67-68-5)	-	37.6	75.1	-	n-Propane (74-98-6)	-	37.6	75.1	1000
1,4-Dioxane (123-91-1)	-	37.6	75.1	-	1-Propanol (71-23-8)	-	37.6	75.1	-
Ethanol (64-17-5)	-	37.6	75.1	-	Pyridine (110-86-1)	-	13.1	26.3	-
2-Ethoxyethanol (110-80-5)	-	13.1	26.3	-	Tetrahydrofuran (109-99-9)	-	37.6	75.1	-
Ethyl ether (60-29-7)	-	37.6	75.1	-	Tetramethylene sulfone (126-33-0)	-	13.1	26.3	-
Ethyl acetate (141-78-6)	-	37.6	75.1	1000	Toluene (108-88-3)	-	37.6	75.1	180
Ethyl benzene (100-41-4)	-	37.6	75.1	-	o-Xylene (95-47-6)	-	37.6	75.1	430
Ethylene glycol (107-21-1)	-	37.6	75.1	-	m,p-Xylene (108-38-3 or 106-42-3)	-	37.6	75.1	430
Ethylene oxide (75-21-8)	-	3.76	7.51	-	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.

Solvent	Synonym(s)	Solvent	Synonym(s)
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 1543

Method: LC/MS/MS

Deviations from SOP:

Analyst: KF

Instrument: Shimadzu LC-8050

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)	-	0.0111	0.0887	0.5	Kresoxim-methyl (143390-89-0)	-	0.0111	0.0887	-
Acephate (30560-19-1)	-	0.0111	0.0887	-	Malathion (121-75-5)	-	0.0111	0.0887	0.2
Acetaminophen (57960-19-7)	-	0.0111	0.0887	-	Metalaxyl (57837-19-1)	-	0.0111	0.0887	-
Acetamiprid (135410-20-7)	-	0.0111	0.0887	-	Methiocarb (2032-65-7)	-	0.0111	0.0887	-
Aldicarb (116-06-3)	-	0.0111	0.0887	-	Methomyl (16752-77-5)	-	0.0111	0.0887	-
Azoxystrobin (131860-33-8)	-	0.0111	0.0887	0.2	Methyl parathion (298-0-0)	-	0.0111	0.0887	-
Bifenazate (149877-41-8)	-	0.0111	0.0887	0.2	MGK 264 (113-48-4)	-	0.0111	0.0887	-
Bifenthrin (82657-04-3)	-	0.0111	0.0887	-	Myclobutanil (88671-89-0)	-	0.0111	0.0887	0.2
Boscalid (188425-85-6)	-	0.0111	0.0887	-	Naled (300-76-5)	-	0.0111	0.0887	-
Carbaryl (63-25-2)	-	0.0111	0.0887	-	Oxamyl (23135-22-0)	-	0.0111	0.0887	-
Carbofuran (1563-66-2)	-	0.0111	0.0887	-	Paclobutrazol (76738-62-0)	-	0.0111	0.0887	-
Chlorantraniliprole (800008-45-7)	-	0.0111	0.0887	-	Permethrins (52645-53-1)	-	0.0111	0.0887	0.2
Chlorfenapyr (122453-73-0)	-	0.0111	0.0887	-	Phosmet (732-11-6)	-	0.0111	0.0887	-
Chlorpyrifos (2921-88-2)	-	0.0111	0.0887	-	Piperonyl butoxide (51-03-6)	-	0.0111	0.0887	-
Clofentezine (74115-24-5)	-	0.0111	0.0887	-	Prallethrin (2331-36-9)	-	0.0111	0.0887	-
Cyfluthrin (68359-37-5)	-	0.0111	0.0887	-	Propiconazole (60207-90-1)	-	0.0111	0.0887	-
Cypermethrin (52315-07-8)	-	0.0111	0.0887	-	Propoxur (114-26-1)	-	0.0111	0.0887	-
Daminozide (1596-84-5)	-	0.0111	0.0887	-	Pyrethrins (8003-34-7)	-	0.0111	0.0887	-
DDVP (62-73-7)	-	0.0111	0.0887	-	Pyridaben (96489-71-3)	-	0.0111	0.0887	-
Diazinon (333-41-5)	-	0.0111	0.0887	-	Spinosad (168316-95-8)	-	0.0111	0.0887	0.2
Dimethoate (60-51-5)	-	0.0111	0.0887	-	Spiromesifen (283594-90-1)	-	0.0111	0.0887	0.2
Ethoprophos (13194-48-4)	-	0.0111	0.0887	-	Spirotetramat (203313-25-1)	-	0.0111	0.0887	0.2
Etofenprox (80844-07-1)	-	0.0111	0.0887	-	Spiroxamine (118134-30-8)	-	0.0111	0.0887	-
Etazoxole (153233-91-1)	-	0.0111	0.0887	0.2	Tebuconazole (80443-41-0)	-	0.0111	0.0887	0.4
Fenoxycarb (72490-01-8)	-	0.0111	0.0887	-	Thiacloprid (111988-49-9)	-	0.0111	0.0887	-
(E)-Fenpyroximate (134098-61-6)	-	0.0111	0.0887	-	Thiamethoxam (153719-23-4)	-	0.0111	0.0887	-
Fipronil (120068-37-3)	-	0.0111	0.0887	-	Trifloxystrobin (141517-21-7)	-	0.0111	0.0887	-
Flonicamid (158062-67-0)	-	0.0111	0.0887	-					
Fludioxinil (131341-86-1)	-	0.0111	0.0887	-					
Hexythiazox (78587-05-0)	-	0.0111	0.0887	-					
Imazalil (35554-44-0)	-	0.0111	0.0887	0.2					
Imidacloprid (138261-41-3)	-	0.0111	0.0887	0.4					



Color Key

RESULT < AL

RESULT > AL

"DET" detected less than LOQ

"-" not detected above
LOD

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
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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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Cultivar (Strain) or Sample Description: Sat A Vet Small Breed Pet Tincture 30ml			Date Completed: 07/26/2022

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

Analysis Date/Time: 07/22/2022 0940 (ICP/OES)	Method: ICP/OES	Deviations from SOP:
Analysis Date/Time: - (DMA)	Instrument: Agilent 720-ES	None
Analyst: KF		

<u>Heavy Metal</u>	<u>Result</u> (µg/kg)	<u>LOD</u> (µg/kg)	<u>LOQ</u> (µg/kg)	<u>Action Level</u> (µg/kg)
Arsenic (As)	-	58.5	92.7	1500
Cadmium (Cd)	-	58.5	92.7	500
Lead (Pb)	-	58.5	92.7	1000
Mercury (Hg)	-	58.5	92.7	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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www.FASTLaboratories.com

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



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA31935)

Testing Location:	Customer ID: 37	Sample ID: SA31935	Sample Type: Primary
Arkansas	Can-Tek Labs	Lot Number:	Matrix: Oil/Tincture
232 S. Broadview St.	8107 S I-35 Service Rd	0405-21	Mass: 30g
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-071822-02-SAV	Date Received: 07/20/2022
Cultivar (Strain) or Sample Description: Sat A Vet Small Breed Pet Tincture 30ml			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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