





### **SUMMARY OF ANALYSIS (SAMPLE ID: SA30467)**

Testing Location:Customer ID: 37Order ID: OR9618Sample Type: PrimaryArkansasCan-Tek LabsLot Number:Matrix: Oil/Tincture232 S. Broadview St.8107 S I-35 Service Rd1213-02Mass: 60g

Greenbrier, AR 72058 Oklahoma City, OK 73149 **Batch Number: Date Collected:** 12/13/2021 License: ADA 05\_H273 License: Not Entered or N/A CTK-121321-03-SAV **Date Received:** 12/15/2021

Cultivar (Strain) or Sample Description: Sat A Vet Large Breed Pet Tincture 60ml

Date Completed: 12/21/2021

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

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 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)	<u>(%)</u>	mg/g
CBD	0.829	8.29
CBG	0.0269	0.269
CBDa	0.0132	0.132
TOTAL CBD	0.841	8.41
TOTAL THC	-	-
TOTAL CANNABINOIDS	0.886	8.86
<u>Terpenes (Top 5)</u>	(%)	µg/g
β-Caryophyllene	0.0129	129.0
α-Humulene	0.00347	34.7
Caryophyllene oxide	0.00327	32.7
Isopulegol	0.00307	30.7
d-Limonene	0.00289	28.9
		295.0

<b>Contaminants</b>	PASS/FAIL
Heavy Metals:	PASS
Microbiology:	PASS
Mycotoxins:	PASS
Pesticides:	PASS
Residual Solvents:	PASS







Scan the QR code to verify results.

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.













### **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA30467)**

Testing Location:Customer ID: 37Order ID: OR9618Sample Type: PrimaryArkansasCan-Tek LabsLot Number:Matrix: Oil/Tincture

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 Oklahoma City, OK 73149
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License: ADA 05\_H273 License: Not Entered or N/A CTK-121321-03-SAV **Date Received:** 12/15/2021

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

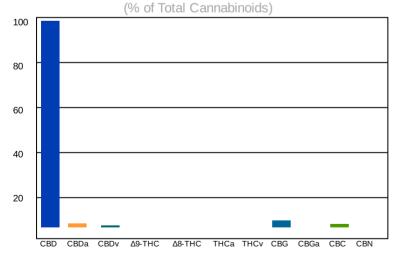
Analysis Date/Time: 12/16/2021 1125 Method: HPLC/DAD
Analyst: PW Instrument: Agilent 1100

Cultivar (Strain) or Sample Description: Sat A Vet Large Breed Pet Tincture 60ml

Cannabinoid Result Per Per Result Result Reporting Limit UM **Serving Unit** (mg/ (+/-%) (%) (mg/g)(mg/g)<u>mL)</u> <u>(mg)</u> <u>(mg)</u> **CBD** 0.829 0.0746 8.29 0.154 7.96 8.29 498.0 **CBDa** 0.0132 0.00132 0.132 0.0309 0.127 7.94 0.132 0.00570 0.000912 0.0570 **CBDv** 0.0570 0.0309 0.0547 3.42 Δ9-ΤΗС 0.0309 Δ8-ΤΗС 0.0309 **THCa** 0.0309

THCv 0.0309 CBC 0.0111 0.00156 0.107 0.111 0.0309 0.111 6.68 CBG 0.00350 0.269 0.258 0.269 0.0269 0.0309 16.1 **CBGa** DET DET 0.0309 **CBN** 0.0309 **TOTAL** 0.886 0.0819 8.86 8.51 8.86 532.0

**Cannabinoid Distribution** 



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Moisture Content (%): -Water Activity (aw): -



**Date Completed: 12/21/2021** 

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

"-" Not detected above RL.

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: DAD - Diode Array Detector, HPLC - High Pressure Liquid Chromatography, RL - Reporting Limit, RPD - Relative Percent Difference, RSD - Relative Standard Deviation, DET - Detected (less than RL)



TOTAL THC
TOTAL CBD



8.07

8.41

505.0





None



**Date Completed:** 12/21/2021

## **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA30467)**

 Testing Location:
 Customer ID: 37
 Order ID: OR9618
 Sample Type: Primary

 Arkansas
 Can-Tek Labs
 Lot Number:
 Matrix: Oil/Tincture

232 S. Broadview St. 8107 S I-35 Service Rd 1213-02 **Mass:** 60g
Greenbrier, AR 72058 Oklahoma City, OK 73149 **Batch Number: Date Collected:** 12/13/2021

License: ADA 05\_H273 License: Not Entered or N/A CTK-121321-03-SAV **Date Received:** 12/15/2021

**Cultivar (Strain) or Sample Description:** Sat A Vet Large Breed Pet Tincture 60ml

### TERPENOID PROFILE

Analysis Date/Time:12/17/2021 1258 Method: GC/MS Deviations from SOP:

Analyst: KF Instrument: Agilent 7890/5975

<u>Terpene</u>	<u>Result</u> (μg/g)	Result (%)
α-Bisabolol	27.0	0.00270
Camphene	-	-
δ-3-Carene	-	-
β-Caryophyllene	129.0	0.0129
Caryophyllene oxide	32.7	0.00327
p-Cymene	-	-
Eucalyptol	-	-
Geraniol	-	-
Guaiol	-	-
α-Humulene	34.7	0.00347
Isopulegol	30.7	0.00307
d-Limonene	28.9	0.00289
Linalool	-	-
β-Myrcene	-	-
cis-Nerolidol	-	-
trans-Nerolidol	11.3	0.00113
α-Ocimene	-	-
β-Ocimene	-	-
α-Pinene	-	-
β-Pinene	-	-
α-Terpinene	-	-
γ-Terpinene	-	-
Terpinolene	-	-
TOTAL	205.0	0.0295

TOTAL 295.0 0.0295 Reporting Limit (µg/g): 11.2











### **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA30467)**

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Greenbrier, AR 72058 Oklahoma City, OK 73149 **Batch Number: Date Collected:** 12/13/2021

License: ADA 05\_H273 License: Not Entered or N/A CTK-121321-03-SAV **Date Received:** 12/15/2021

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

Analysis Date/Time: 12/20/2021 1148 Method: HS/GC/MS Deviations from SOP:

Analyst: KF Instrument: Agilent 7890/5975 None

Cultivar (Strain) or Sample Description: Sat A Vet Large Breed Pet Tincture 60ml

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

Solvent	Synonym(s)	<u>Solvent</u>	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
Dimethysufoxide	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



**Date Completed:** 12/21/2021

Color Key

## RESULT < AL RESULT > AL

Reporting Limit (μg/g) 1/2 of AL (Regulated) 250 (Unregulated)

"-" not detected above reporting limit

"\*" - 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.

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









## **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA30467)**

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 8107 S I-35 Service Rd
 1213-02
 Mass: 60g

 Greenbrier, AR 72058
 Oklahoma City, OK 73149
 Batch Number:
 Date Collected: 12/13/2021

License: ADA 05\_H273 License: Not Entered or N/A CTK-121321-03-SAV **Date Received:** 12/15/2021

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 12/20/2021 1530 Method: LC/MS/MS Deviations from SOP:

Analyst: KF Instrument: Shimadzu LC-8050 None

Cultivar (Strain) or Sample Description: Sat A Vet Large Breed Pet Tincture 60ml

<u>Pesticide</u>	Result	Action Level	<u>Pesticide</u>	<u>Result</u> (μg/g)	<u>Action Level</u> (μg/g)
	(µg/g)	<u>πενεί</u> (μg/g)	Imazalil (35554-44-0)	1 <del>125</del> 5/	0.1
Abamectin (71751-41-2)	-	0.2	Imidacloprid (138261-41-3)		0.2
Acephate (30560-19-1)	-	-	Kresoxim-methyl (143390-89-0)	-	-
Acequinocyl (57960-19-7)	-	-	Malathion (121-75-5)	_	0.1
Acetamiprid (135410-20-7)	-	-	Metalaxyl (57837-19-1)	-	-
Aldicarb (116-06-3)	-	-	Methiocarb (2032-65-7)	_	_
Azoxystrobin (131860-33-8)	-	0.1	Methomyl (16752-77-5)	_	_
Bifenazate (149877-41-8)	-	0.1	Methyl parathion (298-0-0)	_	_
Bifenthrin (82657-04-3)	-	-	MGK 264 (113-48-4)	_	_
Boscalid (188425-85-6)	-	-	Myclobutanil (88671-89-0)	_	0.1
Carbaryl (63-25-2)	-	-	Naled (300-76-5)	-	-
Carbofuran (1563-66-2)	-	-	Oxamyl (23135-22-0)	_	_
Chlorantraniliprole (800008-45-7)	-	-	Paclobutrazol* (76738-62-0)	_	_
Chlorfenapyr (122453-73-0)	-	-	Permethrins (52645-53-1)	_	0.1
Chlorpyrifos (2921-88-2)	-	-	Phosmet (732-11-6)	-	-
Clofentezine (74115-24-5)	-	-	Piperonyl butoxide (51-03-6)	-	_
Cyfluthrin (68359-37-5)	-	-	Prallethrins (2331-36-9)	-	_
Cypermethrin (52315-07-8)	-	-	Propiconazole (60207-90-1))	-	_
Daminozide (1596-84-5)	-	-	Propoxur (114-26-1)	-	-
DDVP (62-73-7)	-	-	Pyrethrins (8003-34-7)	-	-
Diazinon (333-41-5)	-	-	Pyridaben (96489-71-3)	-	_
Dimethoate (60-51-5)	-	-	Spinosad (168316-95-8)	-	0.1
Ethoprophos (13194-48-4)	-	-	Spiromesifen (283594-90-1)	-	0.1
Etofenprox (80844-07-1)	-	-	Spirotetramat (203313-25-1)	_	0.1
Etoxazole (153233-91-1)	-	0.1	Spiroxamine (118134-30-8)	-	-
Fenoxycarb (72490-01-8)	-	-	Tebuconazole (80443-41-0)	-	0.2
(E)-Fenpyroximate (134098-61-6)	-	-	Thiacloprid (111988-49-9)	-	-
Fipronil (120068-37-3)	-	-	Thiamethoxam (153719-23-4)	-	_
Flonicamid (158062-67-0)	-	-	Trifloxystrobin (141517-21-7)	-	-
Fludioxinil (131341-86-1)	-	-	,		
Hexythiazox (78587-05-0)	-	-			



**Color Key** 

**Date Completed:** 12/21/2021

# RESULT < AL

Reporting Limit (μg/g)
1/2 of AL (Regulated)
1 (Unregulated)

"-" 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 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.

Abbreviations: LC - Liquid Chromatography, MS - Mass Spectrometry, RL - Reporting Limit, AL - Action Level, CAS - Chemical Abstract Services

<u>Pesticide</u>	Synonym(s)	<b>Pesticide</b>	Synonym(s)	<u>Pesticide</u>	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:** 12/13/2021 License: ADA 05\_H273 License: Not Entered or N/A CTK-121321-03-SAV **Date Received:** 12/15/2021

**Cultivar (Strain) or Sample Description:** Sat A Vet Large Breed Pet Tincture 60ml **Date Completed:** 12/21/2021

### **MYCOTOXIN PROFILE (SOP: SOP-MYCO-001)**

Analysis Date/Time: 12/20/2021 1734 Method: LC/MS/MS Deviations from SOP:

Analyst: KF Instrument: Shimadzu LC-8050 None

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



 $Abbreviations: \ LC\ -\ Liquid\ Chromatography,\ MS\ -\ Mass\ Spectrometry,\ RL\ -\ Reporting\ Limit,\ AL\ -\ Action\ Levelland Chromatography,\ MS\ -\ Mass\ Spectrometry,\ RL\ -\ Reporting\ Limit,\ AL\ -\ Action\ Levelland\ Leve$ 

**Color Key** 

RESULT < AL
RESULT > AL

Reporting Limit (μg/kg) 1/2 Action Level

"-" not detected above reporting limit

Action levels for mycotoxins 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.











### **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA30467)**

 Testing Location:
 Customer ID: 37
 Order ID: OR9618
 Sample Type: Primary

 Arkansas
 Can-Tek Labs
 Lot Number:
 Matrix: Oil/Tincture

232 S. Broadview St. 8107 S I-35 Service Rd 1213-02 **Mass:** 60g Greenbrier, AR 72058 Oklahoma City, OK 73149 **Batch Number: Date Colle** 

Greenbrier, AR 72058 Oklahoma City, OK 73149 **Batch Number:** Date Collected: 12/13/2021 License: ADA 05\_H273 License: Not Entered or N/A CTK-121321-03-SAV Date Received: 12/15/2021

Cultivar (Strain) or Sample Description: Sat A Vet Large Breed Pet Tincture 60ml

Date Completed: 12/21/2021

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

Analysis Date/Time: 12/21/2021 1151 (ICP/OES) Method: ICP/OES Deviations from SOP:

Analysis Date/Time: - (DMA) Instrument: Agilent 720-ES None

**Analyst:** KF

Heavy Metal	<u>Result</u> (µg/kg)	<u>Action Level</u> (μg/kg)
Arsenic (As)	-	1500
Cadmium (Cd)	-	500
Lead (Pb)	-	1000
Mercury (Hg)	-	1500



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

Color Key

RESULT > AL

Reporting Limit (μg/kg) 1/2 Action Level

"-" not detected above reporting limit

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











**Date Completed:** 12/21/2021

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### MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

**Analysis Date/Time:** 12/17/2021 1140 **Method:** Hardy Diagnostics CompactDry **Deviations from SOP:** 

Analyst: PW Instrument: Thermo Incubator None

Bacteria/Microbe	<u>Result</u> (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)

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.



