

**SUMMARY OF ANALYSIS (SAMPLE ID: SA35800)**

<b>Testing Location:</b> Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADA 05_H273	<b>Customer ID:</b> 37 Can-Tek Labs 8107 S I-35 Service Rd Oklahoma City, OK 73149 License: Not Entered or N/A	<b>Order ID:</b> OR10564 <b>Lot Number:</b> 0208-19 <b>Batch Number:</b> CTK-080323-01	<b>Sample Type:</b> Primary <b>Matrix:</b> Oil/Tincture <b>Mass:</b> 30mL <b>Date Collected:</b> 08/08/2023 <b>Date Received:</b> 08/08/2023
<b>Cultivar (Strain) or Sample Description:</b> Emerald Tinture			<b>Date Completed:</b> 08/20/2023

\*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**

**PASS**

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

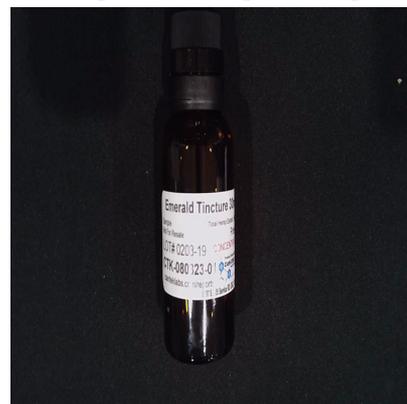
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

<b>Cannabinoids (Top 3)</b>	<b>(%)</b>	<b>mg/g</b>
CBD	5.34	53.4
CBG	0.387	3.87
CBN	0.0697	0.697
TOTAL CBD	5.34	53.4
TOTAL THC	-	-
TOTAL CANNABINOIDS	5.86	58.6

<b>Terpenes (Top 5)</b>	<b>(%)</b>	<b>µg/g</b>
cis-Nerolidol	0.352	3520
β-Caryophyllene	0.0986	986
Isopulegol	0.00611	61.1
α-Bisabolol		
Camphene		
TOTAL TERPENES	0.456	4560

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

**Sample Picture Upon Receipt**



Scan the QR code to verify results.

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**CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35800)**

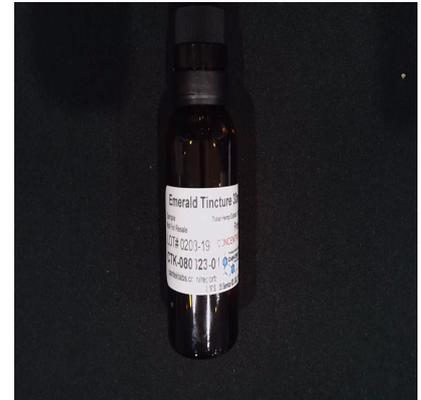
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**Cultivar (Strain) or Sample Description:** Emerald Tincture **Date Completed:** 08/20/2023

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

**Analysis Date/Time:** 08/08/2023 1652 **Method:** HPLC/DAD **Moisture Content (%):** -  
**Analyst:** PW **Instrument:** Agilent 1100 **Water Activity (aw):** -

<u>Cannabinoid</u>	<u>Result (%)</u>	<u>Result (mg/g)</u>	<u>LOD (mg/g)</u>	<u>LOQ (mg/g)</u>	<u>Result (mg/mL)</u>	<u>Per Serving (mg)</u>	<u>Per Unit (mg)</u>
CBC	0.0472	0.472	0.00487	0.0114	-	0.472	14.1
CBCA	ND	ND	0.0151	0.0353	-	-	-
CBD	5.34	53.4	0.0344	0.0802	-	53.4	1600
CBDa	ND	ND	0.0126	0.0295	-	-	-
CBDV	0.0139	0.139	0.00551	0.0129	-	0.139	4.16
CBDVA	ND	ND	0.0147	0.0343	-	-	-
CBG	0.387	3.87	0.0223	0.0521	-	3.87	116
CBGA	ND	ND	0.0316	0.0373	-	-	-
CBL	ND	ND	0.0258	0.0602	-	-	-
CBN	0.0697	0.697	0.0118	0.0276	-	0.697	20.9
CBNA	ND	ND	0.0128	0.0298	-	-	-
Δ9-THC	ND	ND	0.0142	0.0331	-	-	-
Δ8-THC	ND	ND	0.0221	0.0517	-	-	-
THCA	ND	ND	0.00769	0.0180	-	-	-
THCV	ND	ND	0.0185	0.0430	-	-	-
THCVA	ND	ND	0.00590	0.0137	-	-	-
<b>TOTAL</b>	5.86	58.6			-	58.6	1760
<b>TOTAL CBC</b>	0.0472	0.472			-	0.472	14.1
<b>TOTAL CBD</b>	5.34	53.4			-	53.4	1600
<b>TOTAL CBDV</b>	0.0139	0.139			-	0.139	4.16
<b>TOTAL CBG</b>	0.387	3.87			-	3.87	116
<b>TOTAL CBN</b>	0.0697	0.697			-	0.697	20.9
<b>TOTAL THC</b>	-	-			-	-	-
<b>TOTAL THCv</b>	-	-			-	-	-



**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 = (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 THCv = (THCVA x 0.867) + THCv

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 LOQ), LOD - Limit of Detection, LOQ - Limit of Quantitation, UM - Measurement Uncertainty

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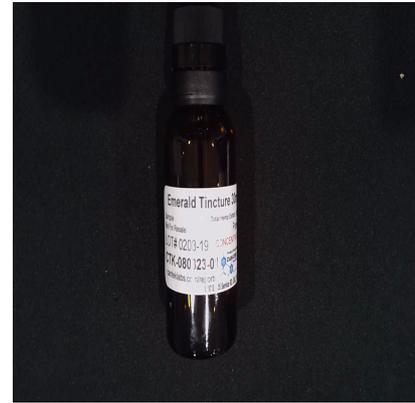
**TERPENOID PROFILE**

**Analysis Date/Time:** 08/17/2023 0255  
**Analyst:** KF

**Method:** GC/MS  
**Instrument:** Agilent 7890/5975

**Deviations from SOP:**  
None

<u>Terpene</u>	<u>Result (µg/g)</u>	<u>Result (%)</u>
α-Bisabolol	ND	-
Camphene	ND	-
δ-3-Carene	ND	-
β-Caryophyllene	986	0.0986
Caryophyllene oxide	ND	-
p-Cymene	<LOQ	-
Eucalyptol	ND	-
Geraniol	ND	-
Guaiol	ND	-
α-Humulene	ND	-
Isopulegol	61.1	0.00611
d-Limonene	ND	-
Linalool	ND	-
β-Myrcene	ND	-
cis-Nerolidol	3520	0.352
trans-Nerolidol	ND	-
α-Ocimene	ND	-
β-Ocimene	ND	-
α-Pinene	ND	-
β-Pinene	ND	-
α-Terpinene	ND	-
γ-Terpinene	ND	-
Terpinolene	ND	-
<b>TOTAL</b>	<b>4560</b>	<b>0.456</b>



*Abbreviations:* GC - Gas Chromatography, MS - Mass Spectrometry, RL - Reporting Limit  
*Abbreviations:* ND - Not Detected, LOD - Limit of Detection, LOQ - Limit of Quantitation

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**Reporting Limit (µg/g): 10.7**

"-" Not detected above LOD.

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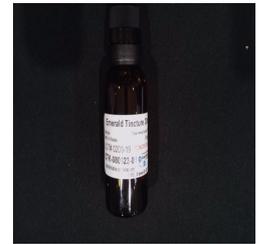
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**Cultivar (Strain) or Sample Description:** Emerald Tincture **Date Completed:** 08/20/2023

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

**Analysis Date/Time:** 08/17/2023 1003 **Method:** HS/GC/MS **Deviations from SOP:** None  
**Analyst:** KF **Instrument:** Agilent 7890/5975

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)	-	155	311	1000	n-Heptane (142-82-5)	-	155	311	1000
Acetonitrile (75-5-8)	-	155	311	-	n-Hexane (110-54-3)	-	54.4	109	60
Benzene (71-43-2)	-	1.55	3.11	2	Isobutane (75-28-5)	-	155	311	1000
n-Butane (106-97-2)	-	155	311	1000	Isopropanol (67-63-0)	-	155	311	1000
1-Butanol (71-36-3)	-	155	311	-	Isopropyl acetate (108-21-4)	-	155	311	-
2-Butanol (78-92-2)	-	155	311	-	Isopropyl benzene (98-82-8)	-	15.5	31.1	-
2-Butanone (78-93-3)	-	155	311	-	Methanol (67-56-1)	-	155	311	600
Cyclohexane (110-82-7)	-	155	311	-	2-Methylbutane (78-78-4)	-	155	311	-
1,2-Dimethoxyethane (110-71-4)	-	15.5	31.1	-	Methylene chloride (75-9-2)	-	155	311	-
N,N-Dimethylacetamide (127-19-5)	-	155	311	-	2-Methylpentane (107-83-5)	-	54.4	109	-
2,2-Dimethylbutane (75-83-2)	-	54.4	109	-	3-Methylpentane (96-10-0)	-	54.4	109	-
2,3-Dimethylbutane (79-29-8)	-	54.4	109	-	n-Pentane (109-66-0)	-	155	311	1000
N,N-Dimethylformamide (68-12-2)	-	155	311	-	1-Pentanol (71-41-0)	-	155	311	-
Dimethylsulfoxide (67-68-5)	-	155	311	-	n-Propane (74-98-6)	-	155	311	1000
1,4-Dioxane (123-91-1)	-	155	311	-	1-Propanol (71-23-8)	-	155	311	-
Ethanol (64-17-5)	-	155	311	-	Pyridine (110-86-1)	-	54.4	109	-
2-Ethoxyethanol (110-80-5)	-	54.4	109	-	Tetrahydrofuran (109-99-9)	-	155	311	-
Ethyl ether (60-29-7)	-	155	311	-	Tetramethylene sulfone (126-33-0)	-	54.4	109	-
Ethyl acetate (141-78-6)	-	155	311	1000	Toluene (108-88-3)	-	155	311	180
Ethyl benzene (100-41-4)	-	155	311	-	o-Xylene (95-47-6)	-	155	311	430
Ethylene glycol (107-21-1)	-	155	311	-	m,p-Xylene (108-38-3 or 106-42-3)	-	155	311	430
Ethylene oxide (75-21-8)	-	15.5	31.1	-	Xylenes* (1330-20-7)	-	43.3	86.7	430



**Color Key**

**RESULT < AL** (Green bar)  
**RESULT > AL** (Red bar)

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



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**Cultivar (Strain) or Sample Description:** Emerald Tincture **Date Completed:** 08/20/2023

**PESTICIDES PROFILE (SOP: SOP-PEST-001)**

**Analysis Date/Time:** 08/18/2023 1312  
**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)	-	0.0107	0.0853	0.5	Kresoxim-methyl (143390-89-0)	-	0.0107	0.0853	-
Acephate (30560-19-1)	-	0.0107	0.0853	-	Malathion (121-75-5)	-	0.0107	0.0853	0.2
Acetamiprid (135410-20-7)	-	0.0107	0.0853	-	Metalaxyl (57837-19-1)	-	0.0107	0.0853	-
Aldicarb (116-06-3)	-	0.0107	0.0853	-	Methiocarb (2032-65-7)	-	0.0107	0.0853	-
Azoxystrobin (131860-33-8)	-	0.0107	0.0853	0.2	Methomyl (16752-77-5)	-	0.0107	0.0853	-
Bifenazate (149877-41-8)	-	0.0107	0.0853	0.2	Methyl parathion (298-0-0)	-	0.0107	0.0853	-
Bifenthrin (82657-04-3)	-	0.0107	0.0853	-	MGK 264 (113-48-4)	-	0.0107	0.0853	-
Boscalid (188425-85-6)	-	0.0107	0.0853	-	Myclobutanil (88671-89-0)	-	0.0107	0.0853	0.2
Carbaryl (63-25-2)	-	0.0107	0.0853	-	Naled (300-76-5)	-	0.0107	0.0853	-
Carbofuran (1563-66-2)	-	0.0107	0.0853	-	Oxamyl (23135-22-0)	-	0.0107	0.0853	-
Chlorantraniliprole (800008-45-7)	-	0.0107	0.0853	-	Pacllobutrazol (76738-62-0)	-	0.0107	0.0853	-
Chlorfenapyr (122453-73-0)	-	0.0107	0.0853	-	Permethrins (52645-53-1)	-	0.0107	0.0853	0.2
Chlorpyrifos (2921-88-2)	-	0.0107	0.0853	-	Phosmet (732-11-6)	-	0.0107	0.0853	-
Clofentezine (74115-24-5)	-	0.0107	0.0853	-	Piperonyl butoxide (51-03-6)	-	0.0107	0.0853	-
Cyfluthrin (68359-37-5)	-	0.0107	0.0853	-	Prallethrins (2331-36-9)	-	0.0107	0.0853	-
Cypermethrin (52315-07-8)	-	0.0107	0.0853	-	Propiconazole (60207-90-1)	-	0.0107	0.0853	-
Daminozide (1596-84-5)	-	0.0107	0.0853	-	Propoxur (114-26-1)	-	0.0107	0.0853	-
DDVP (62-73-7)	-	0.0107	0.0853	-	Pyrethrins (8003-34-7)	-	0.0107	0.0853	-
Diazinon (333-41-5)	-	0.0107	0.0853	-	Pyridaben (96489-71-3)	-	0.0107	0.0853	-
Dimethoate (60-51-5)	-	0.0107	0.0853	-	Spinosad (168316-95-8)	-	0.0107	0.0853	0.2
Ethoprophos (13194-48-4)	-	0.0107	0.0853	-	Spiromesifen (283594-90-1)	-	0.0107	0.0853	0.2
Etofenprox (80844-07-1)	-	0.0107	0.0853	-	Spirotetramat (203313-25-1)	-	0.0107	0.0853	0.2
Etoxazole (153233-91-1)	-	0.0107	0.0853	0.2	Spiroxamine (118134-30-8)	-	0.0107	0.0853	-
Fenoxycarb (72490-01-8)	-	0.0107	0.0853	-	Tebuconazole (80443-41-0)	-	0.0107	0.0853	0.4
(E)-Fenpyroximate (134098-61-6)	-	0.0107	0.0853	-	Thiacloprid (111988-49-9)	-	0.0107	0.0853	-
Fipronil (120068-37-3)	-	0.0107	0.0853	-	Thiamethoxam (153719-23-4)	-	0.0107	0.0853	-
Fonicamid (158062-67-0)	-	0.0107	0.0853	-	Trifloxystrobin (141517-21-7)	-	0.0107	0.0853	-
Fludioxinil (131341-86-1)	-	0.0107	0.0853	-					
Hexythiazox (78587-05-0)	-	0.0107	0.0853	-					
Imazalil (35554-44-0)	-	0.0107	0.0853	0.2					
Imidacloprid (138261-41-3)	-	0.0107	0.0853	0.4					



**Color Key**

**RESULT < AL** (Green background)  
**RESULT > AL** (Red background)

"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.  
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Abbreviations: LC - Liquid Chromatography, MS - Mass Spectrometry, RL - Reporting Limit, AL - Action Level, CAS - Chemical Abstract Services, LOD - Limit of Detection, LOQ - Limit of Quantification

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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Laboratory Director

**CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35800)**

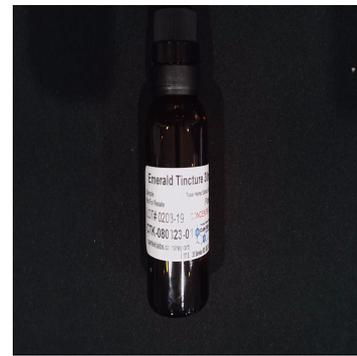
<b>Testing Location:</b> Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADA 05_H273	<b>Customer ID:</b> 37 Can-Tek Labs 8107 S I-35 Service Rd Oklahoma City, OK 73149 License: Not Entered or N/A	<b>Order ID:</b> OR10564 <b>Lot Number:</b> 0208-19 <b>Batch Number:</b> CTK-080323-01	<b>Sample Type:</b> Primary <b>Matrix:</b> Oil/Tincture <b>Mass:</b> 30mL <b>Date Collected:</b> 08/08/2023 <b>Date Received:</b> 08/08/2023
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**Cultivar (Strain) or Sample Description:** Emerald Tincture **Date Completed:** 08/20/2023

**HEAVY METAL PROFILE (SOP: SOP-ICP-200.6)**

<b>Analysis Date/Time:</b> 08/18/2023 1807 (ICP/OES)	<b>Method:</b> ICP/MS	<b>Deviations from SOP:</b>
<b>Analysis Date/Time:</b> - (DMA)	<b>Instrument:</b> Agilent 7500ce	None
<b>Analyst:</b> 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)	-	59.7	94.5	1500
Cadmium (Cd)	-	59.7	94.5	500
Lead (Pb)	-	59.7	94.5	1000
Mercury (Hg)	-	59.7	94.5	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**



"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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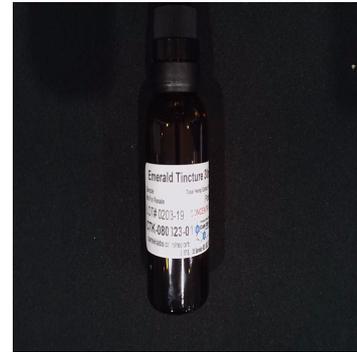
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<b>Cultivar (Strain) or Sample Description:</b> Emerald Tincture			<b>Date Completed:</b> 08/20/2023

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

**Analysis Date/Time:** 08/16/2023 0933      **Method:** Hardy Diagnostics CompactDry      **Deviations from SOP:**  
**Analyst:** PW      **Instrument:** Thermo Incubator      None

<b>Bacteria/Microbe</b>	<b>Result (CFU/g)</b>	<b>Action Level (CFU/g)</b>
Aerobic Plate Count	NT	-
Coliforms, Total	Absent	-
Escherichia Coli (E. Coli)	Absent	1
Mold/Yeast	Absent	10
Pseudomonas aeruginosa	NT	-
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**



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

