F.A.S.T. LABORATORIES/RESEARCH

ACCREDITED CERTIFICATE #4473.01

ASA PFC Laboratory

SUMMARY OF ANALYSIS (SAMPLE ID: SA33564)

Testing Location:	**Customer ID:** 37	**Order ID:** OR10195	**Sample Type:** Primary
Arkansas	Can-Tek Labs	**Lot Number:**	**Matrix:** Oil/Tincture
232 S. Broadview St.	8107 S I-35 Service Rd	0816-24	**Mass:** 30g
Greenbrier, AR 72058	Oklahoma City, OK 73149	**Batch Number:**	**Date Collected:** 11/28/2022
License: ADA 05_H273	License: Not Entered or N/A	CTK-112822-04	**Date Received:** 12/01/2022
Cultivar (Strain) or Sample Description: PCRX Emerald Tincture 30ml			**Date Completed:** 12/09/2022

*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 (%)	Water Activity (aw)	PASS/FAIL
Not Tested	Not Tested	PASS

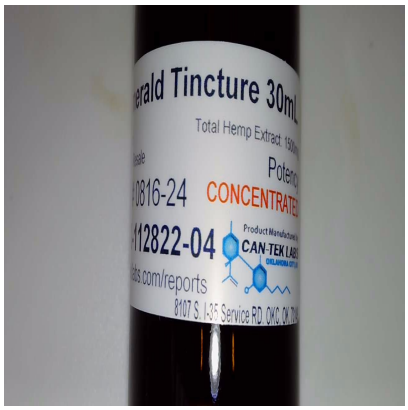
Moisture content/water activity action levels are referenced from the State of Oklahoma-Oral/Rectal/Vaginal MMJ testing guidelines.
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

Cannabinoids (Top 3)	(%)	mg/g
CBD	4.62	46.2
CBG	0.438	4.38
CBC	0.102	1.02
TOTAL CBD	4.68	46.8
TOTAL THC	-	-
TOTAL CANNABINOIDS	5.37	53.7

Terpenes (Top 5)	(%)	µg/g
β-Caryophyllene	0.0154	154
d-Limonene	0.00861	86.1
Linalool	0.00655	65.5
β-Pinene	0.00539	53.9
β-Myrcene	0.00503	50.3
TOTAL TERPENES	0.0584	584

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, Ph.D.
Laboratory Director

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CERTIFICATE OF ANALYSIS (SAMPLE ID: SA33564)

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License: ADA 05_H273	License: Not Entered or N/A	CTK-112822-04	**Date Received:** 12/01/2022

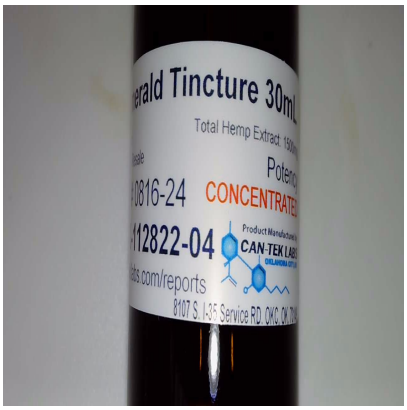
Cultivar (Strain) or Sample Description: PCRX Emerald Tincture 30ml — **Date Completed:** 12/09/2022

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

Analysis Date/Time: 12/1/2022 1631 — **Method:** HPLC/DAD — **Moisture Content (%):** -

Analyst: PW — **Instrument:** Agilent 1100 — **Water Activity (aw):** -

Cannabinoid	Result (%)	UM (+/-%)	Result (mg/g)	LOQ (mg/g)	Result (mg/mL)	Per Serving (mg)	Per Unit (mg)
CBC	0.102	0.00917	1.02	0.235	-	1.02	30.6
CBCA	-	-	-	0.235	-	-	-
CBD	4.62	0.416	46.2	0.235	-	46.2	1390
CBDA	0.0646	0.00581	0.646	0.235	-	0.646	19.4
CBDV	-	-	-	0.235	-	-	-
CBDVA	-	-	-	0.235	-	-	-
CBG	0.438	0.0394	4.38	0.235	-	4.38	131
CBGA	0.0704	0.00634	0.704	0.235	-	0.704	21.1
CBL	-	-	-	0.235	-	-	-
CBN	0.0736	0.00662	0.736	0.235	-	0.736	22.1
CBNA	-	-	-	0.235	-	-	-
Δ9-THC	-	-	-	0.235	-	-	-
Δ8-THC	-	-	-	0.235	-	-	-
THCA	-	-	-	0.235	-	-	-
THCV	-	-	-	0.235	-	-	-
THCVA	-	-	-	0.235	-	-	-
TOTAL	5.37	0.483	53.7		-	53.7	1610
TOTAL CBC	0.102	0.00917	1.02		-	1.02	30.6
TOTAL CBD	4.68	0.421	46.8		-	46.8	1400
TOTAL CBDV	-	-	-		-	-	-
TOTAL CBG	0.499	0.0450	4.99		-	4.99	150
TOTAL CBN	0.0736	0.00662	0.736		-	0.736	22.1
TOTAL THC	-	-	-		-	-	-
TOTAL THCV	-	-	-		-	-	-



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

* 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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"-" 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.

Kyle W. Felling, Ph.D.
Laboratory Director

www.FASTLaboratories.com

F.A.S.T. LABORATORIES/RESEARCH

ACCREDITED CERTIFICATE #4473.01

ASA PFC Laboratory

CERTIFICATE OF ANALYSIS (SAMPLE ID: SA33564)

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License: ADA 05_H273	License: Not Entered or N/A	CTK-112822-04	**Date Received:** 12/01/2022

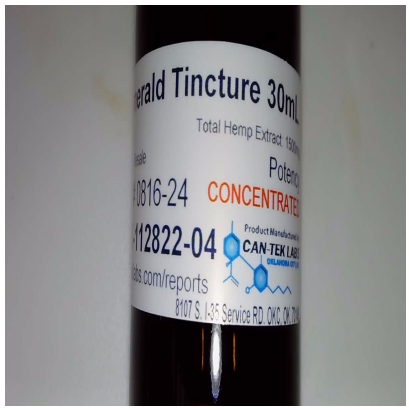
Cultivar (Strain) or Sample Description: PCRX Emerald Tincture 30ml **Date Completed:** 12/09/2022

TERPENOID PROFILE

Analysis Date/Time:12/08/2022 2111 **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	154	0.0154
Caryophyllene oxide	21.2	0.00212
p-Cymene	-	-
Eucalyptol	-	-
Geraniol	-	-
Guaiol	-	-
α-Humulene	38.5	0.00385
Isopulegol	-	-
d-Limonene	86.1	0.00861
Linalool	65.5	0.00655
β-Myrcene	50.3	0.00503
cis-Nerolidol	-	-
trans-Nerolidol	-	-
α-Ocimene	-	-
β-Ocimene	42.9	0.00429
α-Pinene	25.3	0.00253
β-Pinene	53.9	0.00539
α-Terpinene	-	-
γ-Terpinene	-	-
Terpinolene	46.4	0.00464
TOTAL	584	0.0584



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

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"-" Not detected above RL.

Reporting Limit (µg/g): 12.3

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License: ADA 05_H273	License: Not Entered or N/A	CTK-112822-04	**Date Received:** 12/01/2022

Cultivar (Strain) or Sample Description: PCRX Emerald Tincture 30ml — **Date Completed:** 12/09/2022

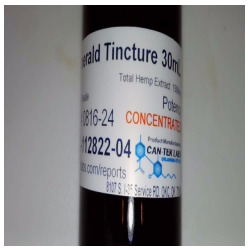
RESIDUAL SOLVENT PROFILE (SOP: SOP-RS-001)

Analysis Date/Time: 12/7/2022 1006 — **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)
Acetone (67-64-1)	-	40.0	80.0	1000
Acetonitrile (75-5-8)	-	40.0	80.0	-
Benzene (71-43-2)	-	0.400	0.800	2
n-Butane (106-97-2)	-	40.0	80.0	1000
1-Butanol (71-36-3)	-	40.0	80.0	-
2-Butanol (78-92-2)	-	40.0	80.0	-
2-Butanone (78-93-3)	-	40.0	80.0	-
Cyclohexane (110-82-7)	-	40.0	80.0	-
1,2-Dimethoxyethane (110-71-4)	-	4.00	8.00	-
N,N-Dimethylacetamide (127-19-5)	-	40.0	80.0	-
2,2-Dimethylbutane (75-83-2)	-	14.0	28.0	-
2,3-Dimethylbutane (79-29-8)	-	14.0	28.0	-
N,N-Dimethylformamide (68-12-2)	-	40.0	80.0	-
Dimethylsulfoxide (67-68-5)	-	40.0	80.0	-
1,4-Dioxane (123-91-1)	-	40.0	80.0	-
Ethanol (64-17-5)	-	40.0	80.0	-
2-Ethoxyethanol (110-80-5)	-	14.0	28.0	-
Ethyl ether (60-29-7)	-	40.0	80.0	-
Ethyl acetate (141-78-6)	-	40.0	80.0	1000
Ethyl benzene (100-41-4)	-	40.0	80.0	-
Ethylene glycol (107-21-1)	-	40.0	80.0	-
Ethylene oxide (75-21-8)	-	4.00	8.00	-

Solvent	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)
n-Heptane (142-82-5)	-	40.0	80.0	1000
n-Hexane (110-54-3)	-	14.0	28.0	60
Isobutane (75-28-5)	-	40.0	80.0	1000
Isopropanol (67-63-0)	-	40.0	80.0	1000
Isopropyl acetate (108-21-4)	-	40.0	80.0	-
Isopropyl benzene (98-82-8)	-	4.00	8.00	-
Methanol (67-56-1)	-	40.0	80.0	600
2-Methylbutane (78-78-4)	-	40.0	80.0	-
Methylene chloride (75-9-2)	-	40.0	80.0	-
2-Methylpentane (107-83-5)	-	14.0	28.0	-
3-Methylpentane (96-10-0)	-	14.0	28.0	-
n-Pentane (109-66-0)	-	40.0	80.0	1000
1-Pentanol (71-41-0)	-	40.0	80.0	-
n-Propane (74-98-6)	-	40.0	80.0	1000
1-Propanol (71-23-8)	-	40.0	80.0	-
Pyridine (110-86-1)	-	14.0	28.0	-
Tetrahydrofuran (109-99-9)	-	40.0	80.0	-
Tetramethylene sulfone (126-33-0)	-	14.0	28.0	-
Toluene (108-88-3)	-	40.0	80.0	180
o-Xylene (95-47-6)	-	40.0	80.0	430
m,p-Xylene (108-38-3 or 106-42-3)	-	40.0	80.0	430
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
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

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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Date Received: 12/01/2022

Cultivar (Strain) or Sample Description: PCRX Emerald Tincture 30ml

Date Completed: 12/09/2022

PESTICIDES PROFILE (SOP: SOP-PEST-001)

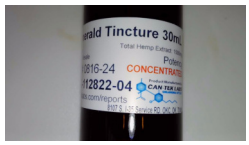
Analysis Date/Time: 12/08/2022 2052
Analyst: KF

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)
Abamectin (71751-41-2)	-	0.0195	0.156	0.5
Acephate (30560-19-1)	-	0.0195	0.156	-
Acequinocyl (57960-19-7)	-	0.0195	0.156	-
Acetamiprid (135410-20-7)	-	0.0195	0.156	-
Aldicarb (116-06-3)	-	0.0195	0.156	-
Azoxystrobin (131860-33-8)	-	0.0195	0.156	0.2
Bifenazate (149877-41-8)	-	0.0195	0.156	0.2
Bifenthrin (82657-04-3)	-	0.0195	0.156	-
Boscalid (188425-85-6)	-	0.0195	0.156	-
Carbaryl (63-25-2)	-	0.0195	0.156	-
Carbofuran (1563-66-2)	-	0.0195	0.156	-
Chlorantraniliprole (800008-45-7)	-	0.0195	0.156	-
Chlorfenapyr (122453-73-0)	-	0.0195	0.156	-
Chlorpyrifos (2921-88-2)	-	0.0195	0.156	-
Clofentezine (74115-24-5)	-	0.0195	0.156	-
Cyfluthrin (68359-37-5)	-	0.0195	0.156	-
Cypermethrin (52315-07-8)	-	0.0195	0.156	-
Daminozide (1596-84-5)	-	0.0195	0.156	-
DDVP (62-73-7)	-	0.0195	0.156	-
Diazinon (333-41-5)	-	0.0195	0.156	-
Dimethoate (60-51-5)	-	0.0195	0.156	-
Ethoprophos (13194-48-4)	-	0.0195	0.156	-
Etofenprox (80844-07-1)	-	0.0195	0.156	-
Etoxazole (153233-91-1)	-	0.0195	0.156	0.2
Fenoxycarb (72490-01-8)	-	0.0195	0.156	-
(E)-Fenpyroximate (134098-61-6)	-	0.0195	0.156	-
Fipronil (120068-37-3)	-	0.0195	0.156	-
Flonicamid (158062-67-0)	-	0.0195	0.156	-
Fludioxinil (131341-86-1)	-	0.0195	0.156	-
Hexythiazox (78587-05-0)	-	0.0195	0.156	-
Imazalil (35554-44-0)	-	0.0195	0.156	0.2
Imidacloprid (138261-41-3)	-	0.0195	0.156	0.4

Pesticide	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)
Kresoxim-methyl (143390-89-0)	-	0.0195	0.156	-
Malathion (121-75-5)	-	0.0195	0.156	0.2
Metalaxyl (57837-19-1)	-	0.0195	0.156	-
Methiocarb (2032-65-7)	-	0.0195	0.156	-
Methomyl (16752-77-5)	-	0.0195	0.156	-
Methyl parathion (298-0-0)	-	0.0195	0.156	-
MGK 264 (113-48-4)	-	0.0195	0.156	-
Myclobutanil (88671-89-0)	-	0.0195	0.156	0.2
Naled (300-76-5)	-	0.0195	0.156	-
Oxamyl (23135-22-0)	-	0.0195	0.156	-
Paclobutrazol (76738-62-0)	-	0.0195	0.156	-
Permethrins (52645-53-1)	-	0.0195	0.156	0.2
Phosmet (732-11-6)	-	0.0195	0.156	-
Piperonyl butoxide (51-03-6)	-	0.0195	0.156	-
Prallethrins (2331-36-9)	-	0.0195	0.156	-
Propiconazole (60207-90-1))	-	0.0195	0.156	-
Propoxur (114-26-1)	-	0.0195	0.156	-
Pyrethrins (8003-34-7)	-	0.0195	0.156	-
Pyridaben (96489-71-3)	-	0.0195	0.156	-
Spinosad (168316-95-8)	-	0.0195	0.156	0.2
Spiromesifen (283594-90-1)	-	0.0195	0.156	0.2
Spirotetramat (203313-25-1)	-	0.0195	0.156	0.2
Spiroxamine (118134-30-8)	-	0.0195	0.156	-
Tebuconazole (80443-41-0)	-	0.0195	0.156	0.4
Thiacloprid (111988-49-9)	-	0.0195	0.156	-
Thiamethoxam (153719-23-4)	-	0.0195	0.156	-
Trifloxystrobin (141517-21-7)	-	0.0195	0.156	-



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.

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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		

Kyle W. Felling, Ph.D.
Laboratory Director

F.A.S.T. LABORATORIES/RESEARCH

ACCREDITED CERTIFICATE #4473.01

ASA PFC Laboratory

CERTIFICATE OF ANALYSIS (SAMPLE ID: SA33564)

Testing Location:	**Customer ID:** 37	**Order ID:** OR10195	**Sample Type:** Primary
Arkansas	Can-Tek Labs	**Lot Number:**	**Matrix:** Oil/Tincture
232 S. Broadview St.	8107 S I-35 Service Rd	0816-24	**Mass:** 30g
Greenbrier, AR 72058	Oklahoma City, OK 73149	**Batch Number:**	**Date Collected:** 11/28/2022
License: ADA 05_H273	License: Not Entered or N/A	CTK-112822-04	**Date Received:** 12/01/2022
Cultivar (Strain) or Sample Description: PCRX Emerald Tincture 30ml			**Date Completed:** 12/09/2022

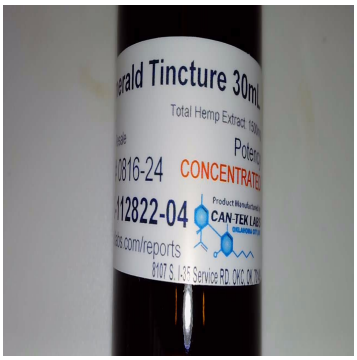
HEAVY METAL PROFILE (SOP: SOP-ICP-200.7)

Analysis Date/Time: 12/8/2022 2057 (ICP/OES)
Analysis Date/Time: - (DMA)
Analyst: KF

Method: ICP/OES
Instrument: Agilent 720-ES

Deviations from SOP:
None

Heavy Metal	Result (µg/kg)	LOD (µg/kg)	LOQ (µg/kg)	Action Level (µg/kg)
Arsenic (As)	-	58.5	92.6	1500
Cadmium (Cd)	-	58.5	92.6	500
Lead (Pb)	-	58.5	92.6	1000
Mercury (Hg)	-	58.5	92.6	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.

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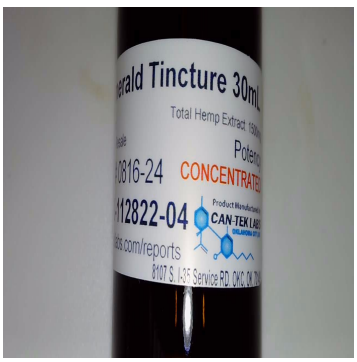
CERTIFICATE OF ANALYSIS (SAMPLE ID: SA33564)

Testing Location:	**Customer ID:** 37	**Sample ID:** SA33564	**Sample Type:** Primary
Arkansas	Can-Tek Labs	**Lot Number:**	**Matrix:** Oil/Tincture
232 S. Broadview St.	8107 S I-35 Service Rd	0816-24	**Mass:** 30g
Greenbrier, AR 72058	Oklahoma City, OK 73149	**Batch Number:**	**Date Collected:** 11/28/2022
License: ADA 05_H273	License: Not Entered or N/A	CTK-112822-04	**Date Received:** 12/01/2022
Cultivar (Strain) or Sample Description: PCRX Emerald Tincture 30ml			**Date Completed:** 12/09/2022

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 20221208 1341
Analyst: PW
Method: Hardy Diagnostics CompactDry
Instrument: Thermo Incubator
Deviations from SOP: 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
Pseudomonas aeruginosa	NT	1
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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