

SUMMARY OF ANALYSIS (SAMPLE ID: SA30848)

Testing Location:	Customer ID: 37	Order ID: OR9727	Sample Type: Primary
Arkansas	Can-Tek Labs	Lot Number:	Matrix: Oil/Tincture
232 S. Broadview St.	8107 S I-35 Service Rd	1213-18	Mass: 30g
Greenbrier, AR 72058	Oklahoma City, OK 73149	Batch Number:	Date Collected: 03/10/2022
License: ADA 05_H273	License: Not Entered or N/A	CTK-031022-03	Date Received: 03/14/2022
Cultivar (Strain) or Sample Description: PCRX Emerald Tincture 30ml			Date Completed: 03/17/2022

*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	N/A

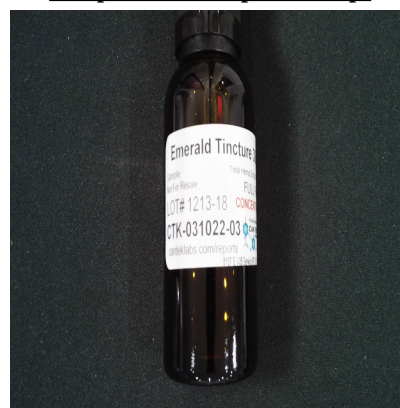
Moisture content/water activity action levels are referenced from the State of Oklahoma-Oral/Rectal/Vaginal MMJ testing guidelines.
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

Cannabinoids (Top 3)	(%)	mg/g
CBD	5.27	52.7
CBG	0.466	4.66
CBDV	0.0165	0.165
TOTAL CBD	5.27	52.7
TOTAL THC	-	-
TOTAL CANNABINOIDS	5.75	57.5

Terpenes (Top 5)	(%)	µg/g
β-Caryophyllene	0.0349	349
α-Humulene	0.0113	113
d-Limonene	0.0112	112
Terpinolene	0.00869	86.9
trans-Nerolidol	0.00552	55.2
TOTAL TERPENES	0.0716	716

Contaminants	PASS/FAIL
Heavy Metals:	PASS
Microbiology:	PASS
Mycotoxins:	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: SA30848)

Testing Location: Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADA 05_H273	Customer ID: 37 Can-Tek Labs 8107 S I-35 Service Rd Oklahoma City, OK 73149 License: Not Entered or N/A	Order ID: OR9727 Lot Number: 1213-18 Batch Number: CTK-031022-03	Sample Type: Primary Matrix: Oil/Tincture Mass: 30g Date Collected: 03/10/2022 Date Received: 03/14/2022
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Cultivar (Strain) or Sample Description: PCRX Emerald Tincture 30ml **Date Completed:** 03/17/2022

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

Analysis Date/Time: 3/15/2022 1331

Analyst: PW

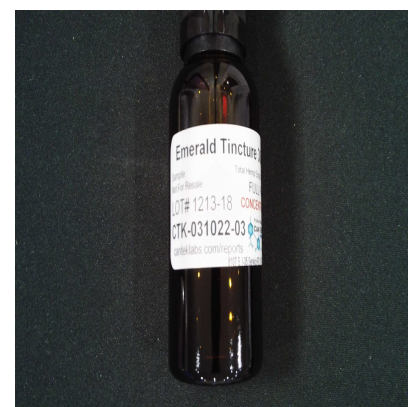
Method: HPLC/DAD

Instrument: Agilent 1100

Moisture Content (%): -

Water Activity (aw): -

Cannabinoid	Result (%)	UM (+/-%)	Result (mg/g)	LOQ (mg/g)	Result (mg/mL)	Per Serving (mg)	Per Unit (mg)
CBC	-	-	-	0.151	-	-	-
CBCA	-	-	-	0.151	-	-	-
CBD	5.27	0.474	52.7	1.51	50.6	52.7	1580
CBDa	-	-	-	0.151	-	-	-
CBDV	0.0165	0.00263	0.165	0.151	0.158	0.165	4.94
CBDVA	-	-	-	0.151	-	-	-
CBG	0.466	0.0606	4.66	0.151	4.48	4.66	140
CBGA	-	-	-	0.151	-	-	-
CBL	-	-	-	0.151	-	-	-
CBN	-	-	-	0.151	-	-	-
CBNA	-	-	-	0.151	-	-	-
Δ9-THC	-	-	-	0.151	-	-	-
Δ8-THC	-	-	-	0.151	-	-	-
THCA	-	-	-	0.151	-	-	-
THCV	-	-	-	0.151	-	-	-
THCVA	-	-	-	0.151	-	-	-
TOTAL	5.75	0.537	57.5		55.2	57.5	1730
TOTAL CBC	-	-	-		-	-	-
TOTAL CBD	5.27	0.474	52.7		50.6	52.7	1580
TOTAL CBDV	0.0165	0.00263	0.165		0.158	0.165	4.94
TOTAL CBG	0.466	0.0606	4.66		4.48	4.66	140
TOTAL CBN	-	-	-		-	-	-
TOTAL THC	-	-	-		-	-	-
TOTAL THCv	-	-	-		-	-	-



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.

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

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License: ADA 05_H273	License: Not Entered or N/A	CTK-031022-03	Date Received: 03/14/2022

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

Date Completed: 03/17/2022

TERPENOID PROFILE

Analysis Date/Time: 3/15/2022 1402

Method: GC/MS

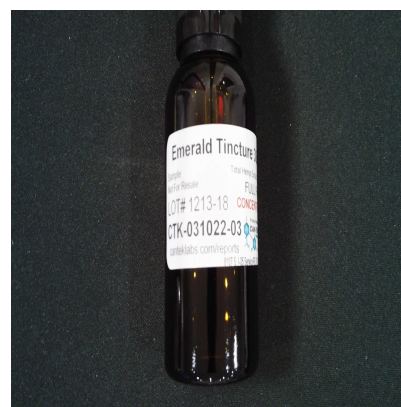
Deviations from SOP:

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	349	0.0349	
Caryophyllene oxide	-	-	
p-Cymene	-	-	
Eucalyptol	-	-	
Geraniol	-	-	
Guaiol	-	-	
α-Humulene	113	0.0113	
Isopulegol	-	-	
d-Limonene	112	0.0112	
Linalool	-	-	
β-Myrcene	-	-	
cis-Nerolidol	-	-	
trans-Nerolidol	55.2	0.00552	
α-Ocimene	-	-	
β-Ocimene	-	-	
α-Pinene	-	-	
β-Pinene	-	-	
α-Terpinene	-	-	
γ-Terpinene	-	-	
Terpinolene	86.9	0.00869	
TOTAL	716	0.0716	



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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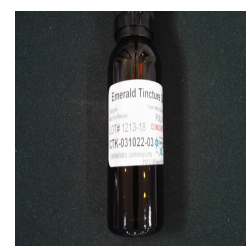
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License: ADA 05_H273	License: Not Entered or N/A	CTK-031022-03	Date Received: 03/14/2022

Cultivar (Strain) or Sample Description: PCRX Emerald Tincture 30ml **Date Completed:** 03/17/2022

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

Analysis Date/Time: 3/16/2022 1029	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)	-	40.0	79.9	1000	n-Heptane (142-82-5)	-	40.0	79.9	1000
Acetonitrile (75-5-8)	-	40.0	79.9	-	n-Hexane (110-54-3)	-	14.0	28.0	60
Benzene (71-43-2)	-	0.400	0.799	2	Isobutane (75-28-5)	-	40.0	79.9	1000
n-Butane (106-97-2)	-	40.0	79.9	1000	Isopropanol (67-63-0)	-	40.0	79.9	1000
1-Butanol (71-36-3)	-	40.0	79.9	-	Isopropyl acetate (108-21-4)	-	40.0	79.9	-
2-Butanol (78-92-2)	-	40.0	79.9	-	Isopropyl benzene (98-82-8)	DET	4.00	7.99	-
2-Butanone (78-93-3)	-	40.0	79.9	-	Methanol (67-56-1)	-	40.0	79.9	600
Cyclohexane (110-82-7)	-	40.0	79.9	-	2-Methylbutane (78-78-4)	-	40.0	79.9	-
1,2-Dimethoxyethane (110-71-4)	-	4.00	7.99	-	Methylene chloride (75-9-2)	-	40.0	79.9	-
N,N-Dimethylacetamide (127-19-5)	-	40.0	79.9	-	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)	-	40.0	79.9	1000
N,N-Dimethylformamide (68-12-2)	-	40.0	79.9	-	1-Pentanol (71-41-0)	-	40.0	79.9	-
Dimethylsulfoxide (67-68-5)	-	40.0	79.9	-	n-Propane (74-98-6)	-	40.0	79.9	1000
1,4-Dioxane (123-91-1)	-	40.0	79.9	-	1-Propanol (71-23-8)	-	40.0	79.9	-
Ethanol (64-17-5)	-	40.0	79.9	-	Pyridine (110-86-1)	-	14.0	28.0	-
2-Ethoxyethanol (110-80-5)	-	14.0	28.0	-	Tetrahydrofuran (109-99-9)	-	40.0	79.9	-
Ethyl ether (60-29-7)	-	40.0	79.9	-	Tetramethylene sulfone (126-33-0)	-	14.0	28.0	-
Ethyl acetate (141-78-6)	-	40.0	79.9	1000	Toluene (108-88-3)	-	40.0	79.9	180
Ethyl benzene (100-41-4)	-	40.0	79.9	-	o-Xylene (95-47-6)	-	40.0	79.9	430
Ethylene glycol (107-21-1)	-	40.0	79.9	-	m,p-Xylene (108-38-3 or 106-42-3)	-	40.0	79.9	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
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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Cultivar (Strain) or Sample Description: PCRX Emerald Tincture 30ml

Date Completed: 03/17/2022

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 3/15/2022 1405

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)	-	0.0110	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	-	Metalaxyl (57837-19-1)	-	0.0110	0.0878	-
Acetamiprid (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)	DET	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	-	Prallethrins (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

"-" 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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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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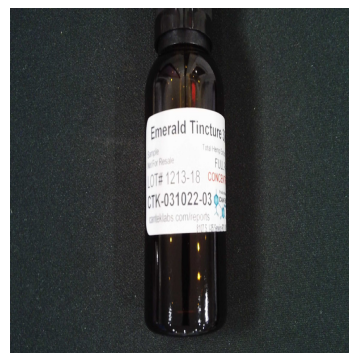
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232 S. Broadview St.	8107 S I-35 Service Rd	1213-18	Mass: 30g
Greenbrier, AR 72058	Oklahoma City, OK 73149	Batch Number:	Date Collected: 03/10/2022
License: ADA 05_H273	License: Not Entered or N/A	CTK-031022-03	Date Received: 03/14/2022
Cultivar (Strain) or Sample Description: PCRX Emerald Tincture 30ml			Date Completed: 03/17/2022

MYCOTOXIN PROFILE (SOP: SOP-MYCO-001)

Analysis Date/Time: 3/15/2022 2315	Method: LC/MS/MS	Deviations from SOP:
Analyst: KF	Instrument: Shimadzu LC-8050	None

<u>Mycotoxin</u>	<u>Result</u> <u>(µg/kg)</u>	<u>Action Level</u> <u>(µg/kg)</u>
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 Level

Color Key

RESULT < AL

RESULT > AL

Reporting Limit (µg/kg)
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.

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



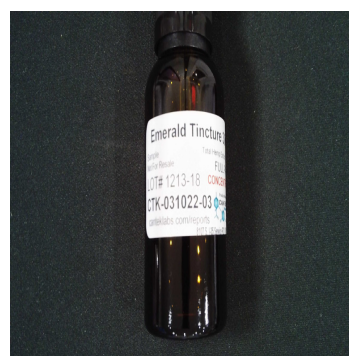
CERTIFICATE OF ANALYSIS (SAMPLE ID: SA30848)

Testing Location:	Customer ID: 37	Order ID: OR9727	Sample Type: Primary
Arkansas	Can-Tek Labs	Lot Number:	Matrix: Oil/Tincture
232 S. Broadview St.	8107 S I-35 Service Rd	1213-18	Mass: 30g
Greenbrier, AR 72058	Oklahoma City, OK 73149	Batch Number:	Date Collected: 03/10/2022
License: ADA 05_H273	License: Not Entered or N/A	CTK-031022-03	Date Received: 03/14/2022
Cultivar (Strain) or Sample Description: PCRX Emerald Tincture 30ml			Date Completed: 03/17/2022

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

Analysis Date/Time: 3/16/2022 1003 (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)	-	50.4	95.7	1500
Cadmium (Cd)	DET	50.4	95.7	500
Lead (Pb)	812	50.4	95.7	1000
Mercury (Hg)	-	50.4	95.7	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.

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Laboratory Director



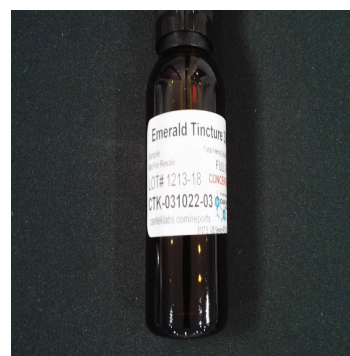
CERTIFICATE OF ANALYSIS (SAMPLE ID: SA30848)

Testing Location:	Customer ID: 37	Sample ID: SA30848	Sample Type: Primary
Arkansas	Can-Tek Labs	Lot Number:	Matrix: Oil/Tincture
232 S. Broadview St.	8107 S I-35 Service Rd	1213-18	Mass: 30g
Greenbrier, AR 72058	Oklahoma City, OK 73149	Batch Number:	Date Collected: 03/10/2022
License: ADA 05_H273	License: Not Entered or N/A	CTK-031022-03	Date Received: 03/14/2022
Cultivar (Strain) or Sample Description: PCRX Emerald Tincture 30ml			Date Completed: 03/17/2022

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 03/17/2022 0930	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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