

# CERTIFICATE OF ANALYSIS

\* FOR QUALITY ASSURANCE PURPOSES. NOT A CALIFORNIA COMPLIANCE CERTIFICATE.

PRODUCED: APR 21, 2023

SAMPLE: FULL SPECTRUM - CALM - LEMON RASPBERRY (TINCTURE) // CLIENT: CANNA RIVER // BATCH: PASS



**BATCH ID:** CRB231503-01  
**MATRIX:** TINCTURE  
**DENSITY:** 0.9628 g/ml  
**CATEGORY:** EDIBLE  
**SAMPLE ID:** 2RL-230418-069  
**COLLECTED ON:** APR 18, 2023  
**RECEIVED ON:** APR 18, 2023  
**BATCH/SAMPLE SIZE:** 150 UNITS / 1 UNITS  
**RECEIVED BY:** TIANA BEECHAM  
**SERVING/PACKAGE SIZE:** 1 ML / 60 ML

## CANNABINOID OVERVIEW

<b>TOTAL THC:</b>	<b>158 mg/pkg</b>
<b>TOTAL CBD:</b>	<b>5690 mg/pkg</b>
<b>TOTAL CANNABINOIDS:</b>	<b>8838.5 mg/pkg</b>
<b>SUM OF CANNABINOIDS:</b>	<b>8848.38 mg/pkg</b>

## BATCH RESULT: PASS

<b>POTENCY</b>	PASS	<b>MYCOTOXINS</b>	PASS
<b>FOREIGN</b>	PASS	<b>PESTICIDES</b>	PASS
<b>METALS</b>	PASS	<b>SOLVENTS</b>	PASS
<b>MICROBIAL</b>	PASS		

## M-024: POTENCY BY HPLC // APR 20, 2023

ANALYTE	LIMIT	AMT	AMT	LOD/LOQ (mg/ml)	PASS/FAIL	ANALYTE	LIMIT	AMT	AMT	LOD/LOQ (mg/ml)	PASS/FAIL
CBC	0.298 %	2.87 mg/ml	ND	0.0870/0.244	N/A	THCVA		ND	ND	0.0840/0.244	N/A
CBCA	ND	ND	ND	0.114/0.244	N/A	<b>TOTAL THC**</b>		0.273 %	2.63 mg/ml		N/A
CBD	9.85 %	94.8 mg/ml	ND	0.0992/0.244	N/A	<b>TOTAL CBD**</b>		9.85 %	94.8 mg/ml		N/A
CBDA	ND	ND	ND	0.0470/0.244	N/A	<b>CBD/SRV</b>		94.8 mg			N/A
CBDV	0.0561 %	0.540 mg/ml	ND	0.0560/0.244	N/A	<b>Δ<sup>9</sup>-THC/SRV</b>		2.63 mg			N/A
CBDVA	ND	ND	ND	0.0530/0.244	N/A	<b>TOTAL THC/SRV**</b>		2.63 mg			N/A
CBG	2.44 %	23.5 mg/ml	ND	0.104/0.244	N/A	<b>TOTAL CBD/SRV**</b>		94.8 mg			N/A
CBGA	ND	ND	ND	0.0900/0.244	N/A	<b>CBD/PKG</b>		5690 mg	(113.80 % OF LABEL)		N/A
CBN	2.40 %	23.1 mg/ml	ND	0.0290/0.244	N/A	<b>CBG/PKG</b>		1410 mg	(112.76 % OF LABEL)		N/A
Δ <sup>8</sup> -THC	ND	ND	ND	0.129/0.244	N/A	<b>CBN/PKG</b>		1390 mg	(110.91 % OF LABEL)		N/A
Δ <sup>9</sup> -THC	0.273 %	2.63 mg/ml	ND	0.0820/0.244	N/A	<b>Δ<sup>9</sup>-THC/PKG</b>	1100 mg	158 mg			PASS
THCA	ND	ND	ND	0.102/0.244	N/A	<b>TOTAL THC/PKG**</b>		158 mg			N/A
THCV	ND	ND	ND	0.0830/0.244	N/A	<b>TOTAL CBD/PKG**</b>		5690 mg			N/A

\*\* TOTAL THC = DELTA-8-THC + (DELTA-8-THCA X 0.877) + DELTA-9-THC + (THCA X 0.877)

\*\* TOTAL CBD = CBD + (CBDA X 0.877)



M-026A: PESTICIDES BY LC-MS/MS // APR 20, 2023

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL	ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
ABAMECTIN	0.3 µg/g	ND	0.0100/0.0400	PASS	FLUDIOXONIL	30 µg/g	ND	0.00400/0.0100	PASS
ACEPHATE	5 µg/g	ND	0.0100/0.0200	PASS	HEXYTHIAZOX	2 µg/g	ND	0.0100/0.0300	PASS
ACEQUINOCYL	4 µg/g	ND	0.0100/0.0200	PASS	IMAZALIL	Any amt	ND	0.0100/0.0200	PASS
ACETAMIPRID	5 µg/g	ND	0.0100/0.0300	PASS	IMIDACLOPRID	3 µg/g	ND	0.0100/0.0200	PASS
ALDICARB	Any amt	ND	0.0100/0.0400	PASS	KRESOXIM-METHYL	1 µg/g	ND	0.0100/0.0200	PASS
AZOXYSTROBIN	40 µg/g	ND	0.0100/0.0300	PASS	MALATHION	5 µg/g	ND	0.0100/0.0400	PASS
BIFENAZATE	5 µg/g	ND	0.0100/0.0300	PASS	METALAXYL	15 µg/g	ND	0.0100/0.0400	PASS
BIFENTHRIN	0.5 µg/g	ND	0.0100/0.0200	PASS	METHIOCARB	Any amt	ND	0.0100/0.0300	PASS
BOSCALID	10 µg/g	ND	0.0100/0.0300	PASS	METHOMYL	0.1 µg/g	ND	0.00500/0.0200	PASS
CAPTAN	5 µg/g	ND	0.700/0.230	PASS	METHYL PARATHION	Any amt	ND	0.0100/0.0400	PASS
CARBARYL	0.5 µg/g	ND	0.0100/0.0300	PASS	MEVINPHOS	Any amt	ND	0.0100/0.0300	PASS
CARBOFURAN	Any amt	ND	0.0100/0.0200	PASS	MYCLOBUTANIL	9 µg/g	ND	0.0100/0.0200	PASS
CHLORANTRANIL-IPROLE	40 µg/g	ND	0.0100/0.0400	PASS	NALED	0.5 µg/g	ND	0.0100/0.0300	PASS
CHLORDANE	Any amt	ND	0.0100/0.0400	PASS	OXAMYL	0.2 µg/g	ND	0.00400/0.0100	PASS
CHLORFENAPYR	Any amt	ND	0.0200/0.0500	PASS	PACLOBUTRAZOL	Any amt	ND	0.0100/0.0300	PASS
CHLORPYRIFOS	Any amt	ND	0.0100/0.0300	PASS	PENTACHLORONI-TROBENZENE	0.2 µg/g	ND	0.0100/0.0300	PASS
CLOFENTEZINE	0.5 µg/g	ND	0.0100/0.0300	PASS	PERMETHRIN	20 µg/g	ND	0.0100/0.0200	PASS
COUMAPHOS	Any amt	ND	0.0100/0.0200	PASS	PHOSMET	0.2 µg/g	ND	0.0100/0.0400	PASS
CYFLUTHRIN	1 µg/g	ND	0.0100/0.100	PASS	PIPERONYLBUTO-XIDE	8 µg/g	ND	0.0100/0.0200	PASS
CYPERMETHRIN	1 µg/g	ND	0.0100/0.0500	PASS	PRALLETHRIN	0.4 µg/g	ND	0.0100/0.0300	PASS
DAMINOZIDE	Any amt	ND	0.00300/0.0100	PASS	PROPICONAZOLE	20 µg/g	ND	0.0100/0.0200	PASS
DIAZINON	0.2 µg/g	ND	0.00500/0.0200	PASS	PROPOXUR	Any amt	ND	0.0100/0.0200	PASS
DICHLORVOS	Any amt	ND	0.0100/0.0200	PASS	PYRETHRINS	1 µg/g	ND	0.0100/0.0300	PASS
DIMETHOATE	Any amt	ND	0.0100/0.0300	PASS	PYRIDABEN	3 µg/g	ND	0.0100/0.0300	PASS
DIMETHOMORPH	20 µg/g	ND	0.0100/0.0300	PASS	SPINETORAM	3 µg/g	ND	0.0200/0.0700	PASS
ETHOPROPHOS	Any amt	ND	0.00400/0.0100	PASS	SPINOSAD	3 µg/g	ND	0.0100/0.0400	PASS
ETOFENPROX	Any amt	ND	0.0100/0.0200	PASS	SPIROMESIFEN	12 µg/g	ND	0.0100/0.0200	PASS
ETOXAZOLE	1.5 µg/g	ND	0.0100/0.0200	PASS	SPIROTETRAMAT	13 µg/g	ND	0.0100/0.0200	PASS
FENHEXAMID	10 µg/g	ND	0.0100/0.0200	PASS	SPIROXAMINE	Any amt	ND	0.0100/0.0400	PASS
FENOXYCARB	Any amt	ND	0.00400/0.0100	PASS	TEBUCONAZOLE	2 µg/g	ND	0.0100/0.0200	PASS
FENPYROXIMATE	2 µg/g	ND	0.0100/0.0300	PASS	THIACLOPRID	Any amt	ND	0.00400/0.0100	PASS
FIPRONIL	Any amt	ND	0.0100/0.0200	PASS	THIAMETHOXAM	4.5 µg/g	ND	0.00400/0.0100	PASS
FLONICAMID	2 µg/g	ND	0.00500/0.0100	PASS	TRIFLOXYSTROB-IN	30 µg/g	ND	0.0100/0.0400	PASS

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**M-055, M-056: MICROBIOLOGICAL CONTAMINANTS BY QPCR // APR 20, 2023**

ANALYTE	LIMIT	AMT (CFU)	PASS/FAIL
SALMONELLA SPP.	Any amt in 1 gram	ND	PASS

ANALYTE	LIMIT	AMT (CFU)	PASS/FAIL
SHIGA TOXIN-PRODUCING E. COLI	Any amt in 1 gram	ND	PASS

**M-026B: MYCOTOXINS BY LC-MS/MS // APR 20, 2023**

ANALYTE	LIMIT	AMT (µg/kg)	LOD/LOQ (µg/kg)	PASS/FAIL
AFLATOXIN B1		ND	2.00/10.0	N/A
AFLATOXIN B2		ND	4.00/10.0	N/A
AFLATOXIN G1		ND	5.00/10.0	N/A

ANALYTE	LIMIT	AMT (µg/kg)	LOD/LOQ (µg/kg)	PASS/FAIL
AFLATOXIN G2		ND	3.00/10.0	N/A
AFLATOXINS	20 µg/kg	ND		PASS
OCHRATOXIN A	20 µg/kg	ND	5.00/20.0	PASS

**M-053: HEAVY METALS BY ICP-MS // APR 20, 2023**

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
ARSENIC	1.5 µg/g	ND	0.0300/0.0900	PASS
CADMIUM	0.5 µg/g	ND	0.0300/0.0900	PASS

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
LEAD	0.5 µg/g	ND	0.0200/0.0700	PASS
MERCURY	3 µg/g	ND	0.0300/0.0900	PASS

**M-032: FOREIGN MATERIAL (VISUAL INSPECTION) // APR 19, 2023**

ANALYTE	LIMIT	AMT (%)	PASS/FAIL
IMBEDDED FOREIGN MATERIAL	25 %	ND	PASS
INSECT FRAGMENTS, HAIR, MAMMAL EXCREMENT	1 Unit	ND	PASS

ANALYTE	LIMIT	AMT (%)	PASS/FAIL
MOLD	25 %	ND	PASS
SAND, SOIL, CINDERS, DIRT	25 %	ND	PASS

**M-028: RESIDUAL SOLVENTS BY GC-MS // APR 20, 2023**

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
1,2-DICHLOROETHANE	1 µg/g	ND	0.230/0.700	PASS
ACETONE	5000 µg/g	ND	15.7/47.7	PASS
ACETONITRILE	410 µg/g	ND	36.3/110	PASS
BENZENE	1 µg/g	ND	0.120/0.370	PASS
BUTANE	5000 µg/g	ND	9.32/28.2	PASS
CHLOROFORM	1 µg/g	ND	0.190/0.570	PASS
ETHANOL	5000 µg/g	2200	30.8/93.4	PASS
ETHYL ACETATE	5000 µg/g	305	39.5/120	PASS
ETHYLENE OXIDE	1 µg/g	ND	0.0700/0.210	PASS
ETHYL ETHER	5000 µg/g	ND	25.0/75.8	PASS

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
HEPTANE	5000 µg/g	ND	55.6/169	PASS
HEXANE	290 µg/g	ND	45.2/137	PASS
ISOPROPYL ALCOHOL	5000 µg/g	ND	29.7/90.1	PASS
METHANOL	3000 µg/g	ND	19.3/58.4	PASS
METHYLENE CHLORIDE	1 µg/g	ND	0.0300/0.110	PASS
PENTANE	5000 µg/g	ND	10.9/33.1	PASS
PROPANE	5000 µg/g	ND	29.4/89.1	PASS
TOLUENE	890 µg/g	ND	89.4/271	PASS
TRICHLOROETHYLENE	1 µg/g	ND	0.0900/0.270	PASS
TOTAL XYLENES	2170 µg/g	ND	99.5/301	PASS



RESULTS CERTIFIED BY: LAB DIRECTOR  
AARON STANCIK, TWO RIVER LABS, INC  
APR 21, 2023

*Aaron Stanik*

ALL LQC SAMPLES REQUIRED BY SECTION 15730 OF CALIFORNIA CODE OF REGULATIONS TITLE 4 DIVISION 19 DEPARTMENT OF CANNABIS CONTROL WERE PERFORMED AND MET THE ACCEPTANCE CRITERIA. MEASUREMENT UNCERTAINTY IS NOT APPLIED TO ANALYTICAL RESULTS OR USED WHEN EVALUATING STATE ACTION LEVELS. THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF 2 RIVER LABS





ISO/IEC 17025:2017



**PJLA**  
Testing

Accreditation #105176

**ILAC ACCREDITED, PJLA ACCREDITED****M-026A: PESTICIDES BY LC-MS/MS**

ABAMECTIN, ACEPHATE, ACEQUINOCYL, ACETAMIPRID, ALDICARB, AZOXYSTROBIN, BIFENAZATE, BIFENTHRIN, BOSCALID, CAPTAN, CARBARYL, CARBOFURAN, CHLORANTRANILIPROLE, CHLORDANE, CHLORFENAPYR, CHLORPYRIFOS, CLOFENTEZINE, COUMAPHOS, CYFLUTHRIN, CYPERMETHRIN, DAMINOZIDE, DIAZINON, DICHLORVOS, DIMETHOATE, DIMETHOMORPH, ETHOPROPHOS, ETOFENPROX, ETOXAZOLE, FENHEXAMID, FENOXYCARB, FENPYROXIMATE, FIPRONIL, FLONICAMID, FLUDIOXONIL, HEXYTHIAZOX, IMAZALIL, IMIDACLOPRID, KRESOXIM-METHYL, MALATHION, METALAXYL, METHIOCARB, METHOMYL, METHYL PARATHION, MEVINPHOS, MYCLOBUTANIL, NALED, OXAMYL, PACLOBUTRAZOL, PENTACHLORONITROBENZENE, PERMETHRIN, PHOSMET, PIPERONYLBUTOXIDE, PRALLETHRIN, PROPICONAZOLE, PROPOXUR, PYRETHRINS, PYRETHRINS PYRETHRIN I, PYRETHRINS PYRETHRIN II, PYRIDABEN, SPINETORAM, SPINETORAM J, SPINETORAM L, SPINOSAD, SPINOSAD A, SPINOSAD D, SPIROMESIFEN, SPIROTETRAMAT, SPIROXAMINE, TEBUCONAZOLE, THIAACLOPRID, THIAMETHOXAM, TRIFLOXYSTROBIN

**M-028: RESIDUAL SOLVENTS BY GC-MS**

PROPANE, BUTANE, ETHYLENE OXIDE, METHANOL, PENTANE, ETHANOL, ETHYL ETHER, ACETONE, ISOPROPYL ALCOHOL, ACETONITRILE, METHYLENE CHLORIDE, HEXANE, ETHYL ACETATE, CHLOROFORM, BENZENE, 1,2-DICHLOROETHANE, HEPTANE, TRICHLOROETHYLENE, TOLUENE, O- AND P-XYLENE, M-XYLENE, TOTAL XYLENES

**M-032: FOREIGN MATERIAL (VISUAL INSPECTION)**

CINDERS, DIRT, IMBEDDED FOREIGN MATERIAL, INSECT FRAGMENTS, INSECT FRAGMENTS, HAIR, MAMMAL EXCREMENT, MAMMAL EXCREMENT, MOLD, RODENT HAIR, SAND, SAND, SOIL, CINDERS, DIRT, SOIL

**M-024: POTENCY BY HPLC**

CBDVA, CBDV, CBDA, CBGA, CBG, CBD, THCV, THCVA, CBN, CBNA, DELTA-9-THC, DELTA-8-THC, CBL, CBC, THCA, CBCA, CBLA, TOTAL THC, TOTAL CBD, THC: CBD RATIO

**M-026B: MYCOTOXINS BY LC-MS/MS**

AFLATOXINS, AFLATOXIN B1, AFLATOXIN B2, AFLATOXIN G1, AFLATOXIN G2, OCHRATOXIN A

**M-053: HEAVY METALS BY ICP-MS**

CADMIUM, LEAD, ARSENIC, MERCURY

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