

## CERTIFICATE OF ANALYSIS

PRODUCED: DEC 13, 2021

SAMPLE: BLACK LIME RESERVE-HASH PRE-ROLL - 0.7G - BK (CONCENTRATE) // CLIENT: LUME / ATTITUDE WELLNESS // BATCH: PASS



**BATCH NO.:** 1A4050300009A4D000019385  
**TEST PKG:** 1A4050300009A4D000019433  
**SRC PKG:** 1A4050300009A4D000019385  
**MATRIX:** CONCENTRATE  
**SAMPLE ID:** CAM-211207-059  
**COLLECTED ON:** DEC 07, 2021  
**RECEIVED ON:** DEC 07, 2021  
**BATCH/SAMPLE SIZE:** 431 UNITS / 14 UNITS  
**SAMPLED BY:** CURTIS BRENGMAN  
**RECEIVED BY:** CURTIS BRENGMAN

## CANNABINOID OVERVIEW

THCA:	26.8 %
CBGA:	1.61 %
TOTAL CANNABINOIDS:	29 %

## MANUFACTURER INFO

**MANUFACTURER**  
LUME

**LICENSE**  
AU-P-000122  
ADULT-USE - MARIHUANA PROCESSOR

## BATCH RESULT: PASS

POTENCY	PASS	PESTICIDES	PASS
FOREIGN	PASS	TERPENES	TESTED
METALS	PASS	WATER	TESTED
MICROBIAL	PASS		

## POT-01: CANNABINOID POTENCY ANALYSIS BY HPLC-DAD // DEC 08, 2021

ANALYTE	LIMIT	AMT (%)	LOD/LOQ (µg/g)	PASS/FAIL	ANALYTE	LIMIT	AMT (%)	LOD/LOQ (µg/g)	PASS/FAIL
CBC		ND	0.0517/0.172	N/A	Δ <sup>8</sup> -THC	10 %	ND	0.0578/0.193	PASS
CBD		ND	0.109/0.363	N/A	Δ <sup>9</sup> -THC		0.590 %	0.102/0.34	N/A
CBDA		ND	0.142/0.474	N/A	THCA		26.8 %	0.0883/0.294	N/A
CBDV		ND	0.0673/0.224	N/A	THCV		ND	0.0699/0.233	N/A
CBG		ND	0.0576/0.192	N/A	TOTAL THC **		24.1 %		N/A
CBGA	1.61 %		0.0328/0.109	N/A	TOTAL CBD **		ND		N/A
CBN		ND	0.0848/0.283	N/A					

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

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

## TRP-013: TERPENE ANALYSIS BY GC-MS // DEC 12, 2021

ANALYTE	AMT (%)	LOD/LOQ (µg/g)	PASS/FAIL	ANALYTE	AMT (%)	LOD/LOQ (µg/g)	PASS/FAIL
TOTAL TERPENES *	1.418 %		N/A	SABINENE	0.013 %	0.5/1	N/A
TRANS-CARYOPHYLLENE	0.364 %	0.5/1	N/A	CARYOPHYLLENE OXIDE	0.012 %	0.5/1	N/A
LINALOOL *	0.151 %	0.5/1	N/A	α-TERPINENE	0.012 %	0.5/1	N/A
α-PINENE	0.115 %	0.5/1	N/A	CIS-β-OCIMENE	0.011 %	0.5/1	N/A
α-HUMULENE	0.103 %	0.5/1	N/A	α-PHELLANDRENE	0.008 %	0.5/1	N/A
LIMONENE	0.230 %	0.5/1	N/A	PULEGONE	ND	0.5/1	N/A
β-PINENE	0.089 %	0.5/1	N/A	TRANS-β-OCIMENE	ND	0.5/1	N/A
ISOBORNEOL	0.078 %	0.5/1	N/A	(+)-FENCHONE	ND	0.5/1	N/A
(1R)-ENDO-(+)-FENCHYL ALCOHOL	0.050 %	0.5/1	N/A	ISOPULEGOL	ND	0.5/1	N/A
TRANS-NEROLIDOL	0.044 %	0.5/1	N/A	GERANYL ACETATE	ND	0.5/1	N/A
TERPINOLENE	0.031 %	0.5/1	N/A	EUCALYPTOL	ND	0.5/1	N/A
β-MYRCENE	0.028 %	0.5/1	N/A	CIS-NEROLIDOL	ND	0.5/1	N/A
GUAJOL	0.023 %	0.5/1	N/A	CEDROL	ND	0.5/1	N/A
CAMPHENE	0.015 %	0.5/1	N/A	CAMPHOR	ND	0.5/1	N/A
γ-TERPINENE	0.014 %	0.5/1	N/A	α-CEDRENE	ND	0.5/1	N/A
Δ <sup>3</sup> -CARENE	0.014 %	0.5/1	N/A	α-BISABOLOL	ND	0.5/1	N/A
SABINENE HYDRATE	0.013 %	0.5/1	N/A	VALENCENE	ND	0.5/1	N/A

\* BEYOND SCOPE OF ACCREDITATION

THIS REPORT MAY NOT BE REPRODUCED EXCEPT IN FULL WITHOUT APPROVAL FROM CAMBIUM ANALYTICA. THE RESULTS HEREIN RELATE ONLY TO THE SAMPLE &amp; BATCH IDENTIFIED IN THIS REPORT.

SAMPLED IN ACCORDANCE TO SMP-SOP-001 // SAMPLING PROCEDURE.

# REGULATORY COMPLIANCE TESTING



RESULTS CERTIFIED BY: XIN YAN  
LABORATORY DIRECTOR, CAMBIUM ANALYTICA  
DEC 13, 2021

*Xin Yan*

RESULTS CERTIFIED BY: DOUGLAS SMITH  
CHIEF SCIENTIST, CAMBIUM ANALYTICA  
DEC 13, 2021

*D. Smith*



## PLC-02: CHEMICAL RESIDUE ANALYSIS BY LC-MS/MS // DEC 08, 2021

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/kg)	PASS/FAIL
ABAMECTIN	0.5 µg/g	ND	73.5/245	PASS
ACEPHATE	0.4 µg/g	ND	17.3/57.7	PASS
ACEQUINOCYL	2 µg/g	ND	30/99.9	PASS
ACETAMIPRID	0.2 µg/g	ND	15.4/51.3	PASS
ALDICARB	0.4 µg/g	ND	45.1/1150	PASS
AZOXYSTROBIN	0.2 µg/g	ND	11.1/37.1	PASS
BIFENAZATE	0.2 µg/g	ND	26.7/88.9	PASS
BIFENTHRIN	0.2 µg/g	ND	15.5/51.6	PASS
BOSCALID	0.4 µg/g	ND	13.6/44.4	PASS
CARBARYL	0.2 µg/g	ND	12.8/42.8	PASS
CARBOFURAN	0.2 µg/g	ND	11.4/37.9	PASS
CHLORANTRANIL-IPROLE	0.2 µg/g	ND	26.2/87.2	PASS
CHLORFENAPYR	1 µg/g	ND	12.8/42.9	PASS
CHLORPYRIFOS	0.2 µg/g	ND	26.3/87.6	PASS
CLOFENTEZINE	0.2 µg/g	ND	21.5/71.5	PASS
CYFLUTHRIN	1 µg/g	ND	41.2/137	PASS
CYPERMETHRIN	1 µg/g	ND	29.5/98.3	PASS
DAMINOZIDE	1 µg/g	ND	25.4/84.8	PASS
DIAZINON	0.2 µg/g	ND	19.8/66	PASS
DICHLORVOS	1 µg/g	ND	13.4/44.6	PASS
DIMETHOATE	0.2 µg/g	ND	13/43.5	PASS
ETHOPROPHOS	0.2 µg/g	ND	20.3/67.8	PASS
ETOFENPROX	0.4 µg/g	ND	15.3/51	PASS
ETOXAZOLE	0.2 µg/g	ND	14.4/48	PASS
FENOXYCARB	0.2 µg/g	ND	21.3/70.9	PASS
FENPYROXIMATE	0.4 µg/g	ND	46.8/156	PASS
FIPRONIL	0.4 µg/g	ND	48/160	PASS
FLONICAMID	1 µg/g	ND	23.7/78.8	PASS
FLUDIOXONIL	0.4 µg/g	ND	11.7/39	PASS
HEXYTHIAZOX	1 µg/g	ND	30/100	PASS

## PGC-03: CHEMICAL RESIDUE ANALYSIS BY GC-MS/MS // DEC 09, 2021

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/kg)	PASS/FAIL
CHLORFENAPYR	1 µg/g	ND	6.4/21.4	PASS

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/kg)	PASS/FAIL
IMAZALIL	0.2 µg/g	ND	16.5/55	PASS
IMIDACLOPRID	0.4 µg/g	ND	36.1/120	PASS
KRESOXIM-METHYL	0.4 µg/g	ND	12.6/42	PASS
MALATHION	0.2 µg/g	ND	16.6/55.4	PASS
METALAXYL	0.2 µg/g	ND	18.7/62.3	PASS
METHIOCARB	0.2 µg/g	ND	14.7/49.1	PASS
METHOMYL	0.4 µg/g	ND	10/33.5	PASS
MGK-264	0.2 µg/g	ND	20.4/68.2	PASS
MYCLOBUTANIL	0.2 µg/g	ND	21/70	PASS
NALED	0.5 µg/g	ND	24.5/81.6	PASS
OXAMYL	1 µg/g	ND	37.5/125	PASS
PACLOBUTRAZOL	0.4 µg/g	ND	38.6/129	PASS
PERMETHRIN	0.2 µg/g	ND	40.2/134	PASS
PHOSMET	0.2 µg/g	ND	25.5/84.9	PASS
PRALLETHRIN	0.2 µg/g	ND	39.6/132	PASS
PROPICONAZOLE	0.4 µg/g	ND	43.1/144	PASS
PROPOXUR	0.2 µg/g	ND	12.4/41.2	PASS
PYRETHRINS	1 µg/g	ND	21.3/71.1	PASS
PYRIDABEN	0.2 µg/g	ND	27.8/92.7	PASS
SPINOSAD	0.2 µg/g	ND	6.27/20.9	PASS
SPINOSAD A		ND	6.79/22.6	N/A
SPINOSAD D		ND	2.56/8.52	N/A
SPIROMESIFEN	0.2 µg/g	ND	15.5/51.9	PASS
SPIROTETRAMAT	0.2 µg/g	ND	37.8/126	PASS
SPIROXAMINE	0.4 µg/g	ND	13.1/43.6	PASS
TEBUCONAZOLE	0.4 µg/g	ND	40/133	PASS
THIACLOPRID	0.2 µg/g	ND	16.5/54.9	PASS
THIAMETHOXAM	0.2 µg/g	ND	14.6/48.6	PASS
TRIFLOXYSTROB-IN	0.2 µg/g	ND	19.9/66.4	PASS



**COL-027: TOTAL COLIFORMS // DEC 08, 2021**

ANALYTE	LIMIT	AMT (CFU/g)	PASS/FAIL
COLIFORMS	100 CFU/g	ND	PASS

**STEC-030: SHIGA TOXIN PRODUCING E. COLI // DEC 09, 2021**

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

**SAL-030: SALMONELLA // DEC 09, 2021**

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

**ASP-029: ASPERGILLUS SPP. // DEC 09, 2021**

ANALYTE	LIMIT	AMT (CFU/g)	PASS/FAIL
ASPERGILLUS SPP.	Any amount in 1 gram	ND	PASS

**TYM-014, TYM-028: TOTAL YEAST AND MOLD // DEC 10, 2021**

ANALYTE	LIMIT	AMT (CFU/g)	PASS/FAIL
YEAST & MOLD	1000 CFU/g	213.000 CFU/g	PASS

**MET-05: HEAVY METALS ANALYSIS BY ICP-MS // DEC 08, 2021**

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/kg)	PASS/FAIL
ARSENIC	0.2 µg/g	ND	0.0448/0.5	PASS
CADMIUM	0.2 µg/g	0.005 µg/g	0.0256/0.5	PASS
CHROMIUM	0.6 µg/g	0.414 µg/g	0.0274/0.5	PASS
COPPER		3.510 µg/g	0.0446/0.5	N/A

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/kg)	PASS/FAIL
LEAD	0.5 µg/g	0.018 µg/g	0.0169/0.5	PASS
MERCURY	0.1 µg/g	0.001 µg/g	0.00439/0.05	PASS
NICKEL	0.5 µg/g	0.255 µg/g	0.0271/0.5	PASS

**: WATER ACTIVITY // DEC 08, 2021**

ANALYTE	LIMIT	AMT (Aw)	PASS/FAIL
WATER ACTIVITY	0.65 Aw	0.309 Aw	N/A

**FOR-07: FOREIGN MATTER ANALYSIS // DEC 08, 2021**

ANALYTE	LIMIT	AMT (%)	PASS/FAIL
INORGANIC MATTER	Any amount	ND	PASS
ORGANIC MATTER	2 %	ND	PASS

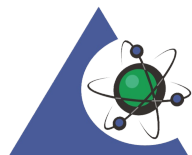
ANALYTE	LIMIT	AMT (%)	PASS/FAIL
STEMS	5 %	1.000 %	PASS



## ACCREDITATIONS



ILAC-MRA



ISO/IEC 17025

**ILAC-MRA, PJLA ACCREDITED****PLC-02: CHEMICAL RESIDUE ANALYSIS BY LC-MS/MS**

ABAMECTIN, ABAMECTIN BA, ABAMECTIN BB, ACEPHATE, ACEQUINOCYL, ACETAMIPRID, ALDICARB, AZOXYSTROBIN, BIFENAZATE, BIFENTHRIN, BOSCALID, CARBARYL, CARBOFURAN, CHLORANTRANILIPROLE, CHLORFENAPYR, CHLORPYRIFOS, CLOFENTEZINE, CYFLUTHRIN, CYPERMETHRIN, DAMINOZIDE, DIAZINON, DICHLORVOS, DIMETHOATE, ETHOPROPHOS, ETOFENPROX, ETOXAZOLE, FENOXYCARB, FENPYROXIMATE, FIPRONIL, FLONICAMID, FLUDIOXONIL, HEXYTHIAZOX, IMAZALIL, IMIDACLOPRID, KRESOXIM-METHYL, MGK-264, MALATHION, MALATHION A, METALAXYL, METHIOCARB, METHOMYL, METHYL PARATHION, MYCLOBUTANIL, NALED, OXAMYL, PACLOBUTRAZOL, PERMETHRIN, PERMETHRIN CIS, PERMETHRIN TRANS, PHOSMET, PRALLETHRIN, PROPICONAZOLE, PROPOXUR, PYRETHRINS, PYRETHRINS CINERIN I, PYRETHRINS CINERIN I-3, PYRETHRINS JASMOLIN I, PYRETHRINS JASMOLIN I-3, PYRETHRINS PYRETHRIN I, PYRIDABEN, SPINOSAD, SPINOSAD A, SPINOSAD D, SPIROMESIFEN, SPIROTETRAMAT, SPIROXAMINE, TEBUCONAZOLE, THIACTOPRID, THIAMETHOXAM, TRIFLOXYSTROBIN

**TRP-013: TERPENE ANALYSIS BY GC-MS**

(+)-FENCHONE, (1R)-ENDO-(+)-FENCHYL ALCOHOL, CAMPHENE, CAMPHOR, CARYOPHYLLENE OXIDE, CEDROL, DELTA-3-CARENE, EUCALYPTOL, FENCHOL, GERANIOL, GERANYL ACETATE, GUAIOL, ISOBORNEOL, ISOPULEGOL, LIMONENE, NEROLIDOL, OCIMENE, PHELLANDRENE, PULEGONE, SABINENE, SABINENE HYDRATE, TERPINEOL 3, TERPINOLENE, VALENCENE, ALPHA-BISABOLOL, ALPHA-CEDRENE, ALPHA-HUMULENE, ALPHA-PHELLANDRENE, ALPHA-PINENE, ALPHA-TERPINENE, BETA-MYRCENE, BETA-PINENE, CIS-NEROLIDOL, CIS-BETA-OCIMENE, GAMMA-TERPINENE, TRANS-CARYOPHYLLENE, TRANS-NEROLIDOL, TRANS-BETA-OCIMENE

**POT-01: CANNABINOID POTENCY ANALYSIS BY HPLC-DAD**

CBD, CBDA, DELTA-9-THC, THCA, CBDV, THCV, CBG, CBGA, CBN, DELTA-8-THC, CBC, DELTA-8 + DELTA-9-THC, TOTAL CBD, TOTAL THC

**MET-05: HEAVY METALS ANALYSIS BY ICP-MS**

ARSENIC, CADMIUM, CHROMIUM, COPPER, LEAD, MERCURY, NICKEL

**FOR-07: FOREIGN MATTER ANALYSIS**

INORGANIC MATTER, ORGANIC MATTER, STEMS

**PGC-03: CHEMICAL RESIDUE ANALYSIS BY GC-MS/MS**

CHLORFENAPYR, METHYL PARATHION

**: WATER ACTIVITY**

WATER ACTIVITY

