



Confidence Analytics

Cannabis Analytical Chemistry Laboratory

WSLCB License # 0003 | 14797 NE 95th St, Redmond, WA 98052 | (206) 743-8843 | info@conflabs.com

Certified For: Cannabinoids | Microbiologicals | Mycotoxins | Foreign Matter
Pesticides | Heavy Metals | Terpenes | Residual Solvents | Moisture

Research and Development Certificate of Analysis

Official Test Results for Laboratory Sample # WA-211101-010

Origination: Cinder Downtown

UPI #:

Inventory #: MFUSED Limoncello

Strain: MFUSED Limoncello

License #:

QA #: MFUSED Limoncello

Type: Distillation

Harvest Date: Unknown

Address: 927 W Second Ave

Date of Receipt: 2021-11-01

Approved By: T. Sasaki, Ph.D., CSO

Spokane, WA 99201

Date of Testing: 2021-11-10

S. Stevens, LDR



PASS/FAIL

Residual Solvents *PASS*

Pesticides *PASS*

Heavy Metals *PASS*

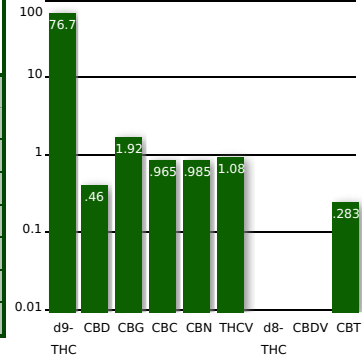
Shelf Stability

Loss-On-Drying NE

Water Activity: NE

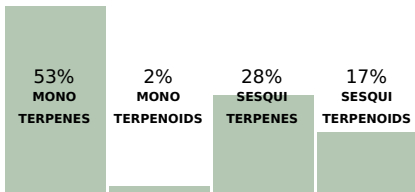
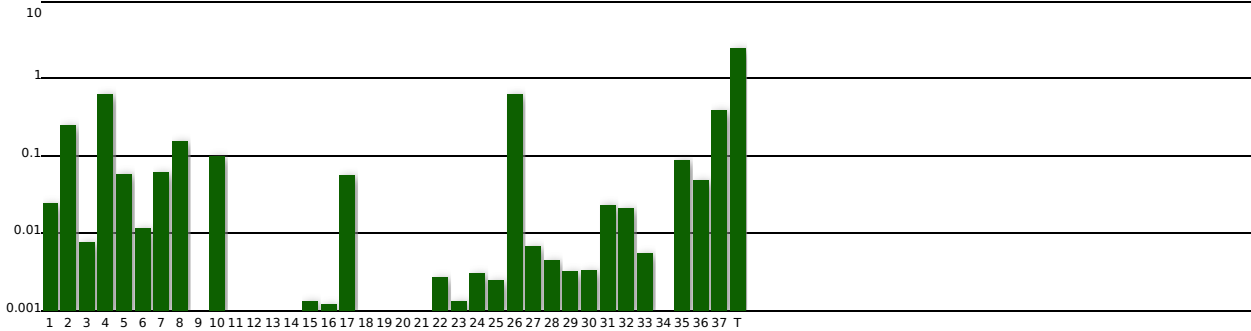
Cannabinoid Profile (units of measure are by weight)

THC max 76.7% 767mg/g			CBD max 0.46% 4.6mg/g		
	%	mg/g		%	mg/g
THCA	ND	ND	d9-THC	76.7	767
CBDA	ND	ND	CBD	0.46	4.6
CBGA	ND	ND	CBG	1.92	19.2
CBC	0.965	9.65	CBN	0.985	9.85
THCVA	ND	ND	THCV	1.08	10.8
CBDVA	ND	ND	CBDV	ND	ND
CBT	0.283	2.83	d8-THC	ND	ND



Total Canna. (raw sum): 82.4%, 824mg/g

Terpene Fingerprint (units in percent by weight)



ref#	Name	%	ref#	Name	%	ref#	Name	%	ref#	Name	%
1*	Thujene	0.0254	14	g-Terpinene	0.00083	22*	Citronellol	0.0027	31*	Selinadiene	0.0238
2	a-Pinene	0.296	15	Terpinolene	0.00138	23	Geraniol	0.0014	32*	a-Maaliene	0.022
3*	Camphene	0.00795	16*	p-Cymenene	0.00127	24*	trans-a-Bergamotene	0.00314	33*	trans-Nerolidol	0.00576
4	Myrcene	0.777	17	Linalool	0.0573	25*	Farnesene	0.00249	35	CaryophylleneOxide	0.0913
5	b-Pinene	0.0592	27	Humulene	0.00682	26	Caryophyllene	0.654	36*	Cedrol	0.0491
6*	a-Phellandrene	0.0121	28	Humulene	0.00682	37	Bisabolol	0.00682	37	Bisabolol	0.443
7*	Carene	0.062	28*	a-Bulnesene	0.00463	T	Total	2.9			
8	a-Terpinene	0.167	29	cis-Nerolidol	0.00333						
10	Limonene	0.118	30*	b-Maaliene	0.00335						

*Not yet included in ISO scope of accreditation.

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THCmax (a.k.a. Total THC) = d9-THC + (THC-A * 0.877)

CBDmax (a.k.a. Total CBD) = CBD + (CBD-A * 0.877)

Total Cannabinoid is a raw sum of all measured cannabinoids

In Traceability, Total Cannabinoid is a sum of THCmax and CBDmax
Figures may differ slightly from traceability due to rounding

ND = Not Detected
NE = Not Examined
Unk = Unknown

Analytical Methods Used
Cannabinoids: HPLC-UV
Microbial: Plate Counting
Terpenes: HS-GC-FID
Solvents: HS-GC-MS

Trace Residue: UHPLC-MSMS
Water Activity: HYGROMER®



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QA #: MFUSED Limoncello

Type: Distillation

Harvest Date: Unknown

Address: 927 W Second Ave

Date of Receipt: 2021-11-01

Approved By: T. Sasaki, Ph.D., CSO

Spokane, WA 99201

Date of Testing: 2021-11-10

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Quantitative Impurities Report

Concentrations of analytes used to determine pass/fail status of individual tests.

* Greater than lower limit of detection (>LLOD) and less than lower limit of quantification (<LLOQ). Applies to instances when the analyte has been detected and positively identified, but the concentration is lower than we can accurately quantify. Literally: signal to noise ratio greater than 3 and signal less than calibration. LLOD is ~0.001 ppm for most analytes, LLOQ is ~0.01 for most analytes. Number shown is lower end of calibration (LLOQ).

** Greater than upper limit of quantification (>ULOQ). Applies to instances when the analyte concentration in the sample is greater than we can accurately measure without additional testing. Number shown is upper end of calibration (ULOQ).

Findings

ALKANES

<u>Analyte</u>	<u>Concentration</u>	<u>Action Level</u>
Butane	< RL	5000 ppm
Cyclohexane	< RL	3880 ppm
Heptane	< RL	5000 ppm
Hexane	< RL	290 ppm
Pentane	< RL	5000 ppm
Propane	< RL	5000 ppm

*Reporting Limit (RL) = 10 ppm

ALLOWED INGREDIENTS

<u>Analyte</u>	<u>Concentration</u>
Ethanol	< RL

*Reporting Limit (RL) = 500 ppm

IMPURITIES

<u>Analytes</u>	<u>Concentration</u>	<u>Action Level</u>
Acetone	< RL	5000 ppm
Benzene	< RL	2 ppm
Chloroform	< RL	2 ppm
Dichloromethane	< RL	600 ppm
Ethyl Acetate	< RL	5000 ppm
Ethyl Benzene	< RL	2170 ppm
Isopropanol	< RL	5000 ppm
Methanol	< RL	3000 ppm
Toluene	< RL	890 ppm
Xylene	< RL	2170 ppm

*Reporting Limit (RL) = Half Action Level

MYCOTOXINS NOT EXAMINED

MICROBIOLOGICALS NOT EXAMINED

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THCmax (a.k.a. Total THC) = d9-THC + (THC-A * 0.877)

CBDmax (a.k.a. Total CBD) = CBD + (CBD-A * 0.877)

Total Cannabinoid is a raw sum of all measured cannabinoids

In Traceability, Total Cannabinoid is a sum of THCmax and CBDmax

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Analytical Methods Used

Cannabinoids: HPLC-UV

Microbial: Plate Counting

Terpenes: HS-GC-FID

Solvents: HS-GC-MS

Trace Residue: UHPLC-MS/MS

Water Activity: HYGROMER®

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Chemical Residue Screen

Official Test Results for Laboratory Sample # WA-211101-010

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Strain: MFUSED Limoncello **License #:** **QA #:** MFUSED Limoncello
Type: Distillation **Harvest Date:** Unknown
Address: 927 W Second Ave **Date of Receipt:** 2021-11-01 **Approved By:** T. Sasaki, Ph.D., CSO
Spokane, WA 99201 **Date of Testing:** 2021-11-10 S. Stevens, LDR



Chemical Residue Screen - Test Report

Cannabis samples were homogenized and extracted using a custom protocol. Instrumental analysis was performed with UHPLC-MS/MS (tandem quadrupole). Target compounds were identified by matching to Certified Reference Materials. Ion-selective detection (multiple reaction monitoring, or MRM) was used to ensure that precursor and product ions of the correct masses co-eluted and were observed in ratios matching those for the reference materials.



Dozens of compounds representing many different classes of fungicides, herbicides, and plant growth regulators were screened for. This document lists all analytes detected in the Chemical Residue Screen.

Findings

Analyte Name	CAS #	PPM		WA State Action Level	Analyte Name	CAS #	PPM		WA State Action Level
		In Sample	PASS/FAIL				In Sample	PASS/FAIL	
(sum) Spinosads	NA	Not Detected	PASS	0.20 ppm	Diazinon	333-41-5	Not Detected	PASS	0.20 ppm
(sum) Permethrins	NA	Not Detected	PASS	0.20 ppm	Dichlorvos	62-73-7	Not Detected	PASS	0.10 ppm
Piperonyl Butoxide	51-03-6	0.031 ppm	PASS	2.00 ppm	Dimethoate	60-51-5	Not Detected	PASS	0.20 ppm
Abamectin B1a	71751-41-2	Not Detected	PASS	0.50 ppm	Ethiophos	13194-48-4	Not Detected	PASS	0.20 ppm
Acephate	30560-19-1	Not Detected	PASS	0.40 ppm	Etofenprox	80844-07-1	Not Detected	PASS	0.40 ppm
Acetamiprid	135410-20-7	Not Detected	PASS	0.20 ppm	Etoxazole	153233-91-1	Not Detected	PASS	0.20 ppm
Aldicarb	116-06-3	Not Detected	PASS	0.40 ppm	Fenoxycarb	72490-01-8	Not Detected	PASS	0.20 ppm
Azoxystrobin	131860-33-8	Not Detected	PASS	0.20 ppm	Fenpyroximate	134098-61-6	Not Detected	PASS	0.40 ppm
Bifenazate	149877-41-8	Not Detected	PASS	0.20 ppm	Fipronil	120068-37-3	Not Detected	PASS	0.40 ppm
Bifenthrin	82657-04-3	Not Detected	PASS	0.20 ppm	Flonicamid	158062-67-0	Not Detected	PASS	1.00 ppm
Boscalid	188425-85-6	Not Detected	PASS	0.40 ppm	Fludioxonil	131341-86-1	Not Detected	PASS	0.40 ppm
Carbaryl	63-25-2	Not Detected	PASS	0.20 ppm	Hexythiazox	78587-05-0	Not Detected	PASS	1.00 ppm
Carbofuran	1563-66-2	Not Detected	PASS	0.20 ppm	Imazalil	35554-44-0	Not Detected	PASS	0.20 ppm
Chlorantraniliprole	500008-45-7	Not Detected	PASS	0.20 ppm	Imidacloprid	138261-41-3	Not Detected	PASS	0.40 ppm
Chlormequat	7003-89-6	Not Detected	PASS	0.10 ppm	Malathion	121-75-5	Not Detected	PASS	0.20 ppm
Chlorpyrifos	2921-88-2	Not Detected	PASS	0.20 ppm	Metalaxyl	57837-19-1	Not Detected	PASS	0.20 ppm
Clofentezine	74115-24-5	Not Detected	PASS	0.20 ppm	Methiocarb	2032-65-7	Not Detected	PASS	0.20 ppm
Daminozide	1596-84-5	Not Detected	PASS	1.00 ppm	Methomyl	16752-77-5	Not Detected	PASS	0.40 ppm

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Findings

Analyte Name	CAS #	PPM		WA State Action Level	Analyte Name	CAS #	PPM		WA State Action Level
		In Sample	PASS/FAIL				In Sample	PASS/FAIL	
Myclobutanil	88671-89-0	Not Detected	PASS	0.20 ppm	Trifloxystrobin	141517-21-7	Not Detected	PASS	0.20 ppm
Naled	300-76-5	Not Detected	PASS	0.50 ppm	Uniconazole	83657-22-1	Not Detected	PASS	0.10 ppm
Oxamyl	23135-22-0	Not Detected	PASS	1.00 ppm	cis-Permethrin	52645-53-1	Not Detected	PASS	0.20 ppm
Paclobutrazol	76738-62-0	Not Detected	PASS	0.40 ppm	trans-Permethrin	52645-53-2	Not Detected	PASS	0.20 ppm
Phosmet	732-11-6	Not Detected	PASS	0.20 ppm					
Prallethrin	23031-36-9	Not Detected	PASS	0.20 ppm					
Propiconazole	60207-90-1	Not Detected	PASS	0.40 ppm					
Propoxur	114-26-1	Not Detected	PASS	0.20 ppm					
Pyrethrin I	8003-34-7	Not Detected	PASS	1.00 ppm					
Pyridaben	96489-71-3	Not Detected	PASS	0.20 ppm					
Spinosad A	168316-95-8	Not Detected	PASS	0.20 ppm					
Spinosad D	168316-95-9	Not Detected	PASS	0.20 ppm					
Spiromesifen	283594-90-1	Not Detected	PASS	0.20 ppm					
Spirotetramat	203313-25-1	Not Detected	PASS	0.20 ppm					
Spiroxamine	118134-30-8	Not Detected	PASS	0.40 ppm					
Tebuconazole	80443-41-0	Not Detected	PASS	0.40 ppm					
Thiacloprid	111988-49-9	Not Detected	PASS	0.20 ppm					
Thiamethoxam	153719-23-4	Not Detected	PASS	0.20 ppm					

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Water Activity: HYGROMER®



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S. Stevens, LDR



Heavy Metals Report

Heavy metals are tested via ICP-MS.

Concentrations of analytes used to determine pass/fail status of individual elements.

* Less than the lower limit of quantitation. The method LLOQ is 0.05 ug/g. The LOQ is .05 ug/g for all metals.

** Greater than the upper limit of quantification (>ULOQ), applies to instances when the analyte concentration in the sample is greater than we can accurately measure without additional testing. The ULOQ for all metals is 2.5 ug/g

Findings

HEAVY METALS

<u>Analyte</u>	<u>Element</u>	<u>Concentration</u>	<u>Action Level</u>	<u>Pass/Fail</u>
Cadmium	Cd	<LLOQ* ppm	0.82 ppm	PASS
Lead	Pb	<LLOQ* ppm	1.2 ppm	PASS
Arsenic	As	<LLOQ* ppm	2 ppm	PASS
Mercury	Hg	<LLOQ* ppm	0.4 ppm	PASS

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