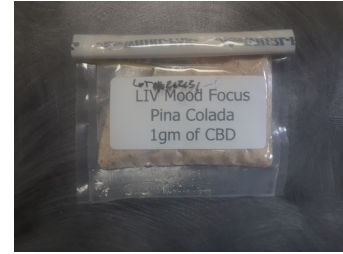


# Certificate of Analysis

## Sample Information

CTLA ID: 36227  
Date Received: 7/23/2021  
Sample Name: Liv eLIVate  
Lot Number: 212131  
Customer: Origin Nutraceutical



Analysis	Method	MDL Specification	Result	Units
<b>Cannabinoid Concentration (16)</b>				
<b>Total Cannabinoids</b>	HPLC	0.601 Report	2.4	mg/g
<b>Total Cannabidiol (CBD)</b>	HPLC	0.601 Report	2.4	mg/g
<b>Total Tetrahydrocannabinol (THC)</b>	HPLC	0.060 Report	ND	%
CBDVA	HPLC	0.601 Report	ND	mg/g
CBDV	HPLC	0.601 Report	ND	mg/g
CBDA	HPLC	0.601 Report	ND	mg/g
CBGA	HPLC	0.601 Report	ND	mg/g
CBG	HPLC	0.601 Report	ND	mg/g
CBD	HPLC	0.601 Report	2.4	mg/g
THCV	HPLC	0.601 Report	ND	mg/g
THCVA	HPLC	0.601 Report	ND	mg/g
CBN	HPLC	0.601 Report	ND	mg/g
CBNA	HPLC	0.601 Report	ND	mg/g
Δ9-THC	HPLC	0.601 Report	ND	mg/g
Δ8-THC	HPLC	0.601 Report	ND	mg/g
CBL	HPLC	0.601 Report	ND	mg/g
CBC	HPLC	0.601 Report	ND	mg/g
THCA	HPLC	0.601 Report	ND	mg/g
CBCA	HPLC	0.601 Report	ND	mg/g

ND = None Detected

Total CBD = CBD + (CBDA\*0.877)  
Total THC = Δ9-THC + (THCA\*0.877)

7/27/2021

DATE

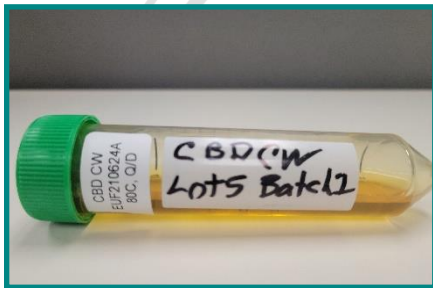


Quality Manager

Specifications provided by the Customer. Results with an asterisk (\*) denote Specifications should be reviewed by the Customer. This Certificate of Analysis represents data for the sample submitted and does not constitute a guarantee of quality for the entire product from which it was taken. These results are provided for the benefit of the Customer. MDL = Method Detection Limit.

## CBD CW

Company Name: EukAFlo      Sample Received: 06/24/2021  
Company Lot Number: Lot 5      Release Date: 06/29/2021  
Sample Matrix: Distillate      APRC Lot Number: EUF210624A



Total THC  
0.13 %

Total CBD  
72.53 %

Cannabinoids  
92.41 %

Pesticides  
Tested

Microbial  
Tested

Residual  
Solvents  
Tested

Heavy Metals  
Tested

Terpene  
Analysis  
Not Tested

Prepared By: Cierra Gunn

Reviewed By: Riley Hunter

## Residual Solvents Analysis Report

### Certificate of Analysis

#### CBD CW

Client Name: EukAFlo  
Client Lot #: Lot 5  
Sample Matrix: Distillate

Sample Received: 06-24-2021  
APRC Lot #: EUF210624A  
Release Date: 06-25-2021

Analyte	Limit (µg/g) <sup>†</sup>	Concentration	Disposition
1,2 Dimethoxyethane	100	ND	Pass
1,4 Dioxane	380	ND	Pass
1-Butanol	5000	ND	Pass
1-Pentanol	5000	ND	Pass
1-Propanol	5000	ND	Pass
2-Butanol	5000	ND	Pass
2-Butanone	5000	ND	Pass
2-Ethoxyethanol	160	ND	Pass
2-methylbutane	5000	ND	Pass
2-Propanol (Isopropyl Alcohol)	5000	ND	Pass
Acetone	5000	ND	Pass
Acetonitrile	410	ND	Pass
Benzene	2	ND	Pass
Butane	5000	ND	Pass
Cumene	70	ND	Pass
Cyclohexane	3880	ND	Pass
Dichloromethane (Methylene Chloride)	600	ND	Pass
2,2-dimethylbutane	290	ND	Pass
2,3-dimethylbutane	290	ND	Pass
1,2-dimethylbenzene ( <i>o</i> -Xylene)	See Xylenes	ND	Pass
1,3,4-dimethylbenzene ( <i>m,p</i> -Xylene)	See Xylenes	ND	Pass
Dimethyl Sulfoxide (DMSO)	5000	NT	N/A
Ethanol	5000	ND	Pass

Analyte	Limit (µg/g) <sup>†</sup>	Concentration	Disposition
Ethyl Acetate	5000	ND	Pass
Ethylbenzene	See Xylenes	ND	Pass
Ethyl ether	5000	ND	Pass
Ethylene glycol	620	ND	Pass
Ethylene Oxide	50	NT	N/A
Heptane	5000	ND	Pass
Hexane	290	ND	Pass
Isopropyl acetate	5000	ND	Pass
Methanol	3000	ND	Pass
Methylpropane	5000	ND	Pass
2-Methylpentane	290	ND	Pass
3-Methylpentane	290	ND	Pass
N,N-dimethylacetamide	1090	ND	Pass
N,N-dimethylformamide	880	ND	Pass
Pentane	5000	ND	Pass
Propane	5000	ND	Pass
Pyridine	100	ND	Pass
Sulfolane	160	ND	Pass
Tetrahydrofuran	720	ND	Pass
Toluene	890	ND	Pass
Xylenes <sup>‡</sup>	2170	ND	Pass

<sup>†</sup> Per Utah state code 4-41a-701(3) Section R68-29-6

<sup>‡</sup> Total Xylenes is a combination of the following: *o*-Xylene, *m*-Xylene, *p*-Xylene, and Ethylbenzene

Overall Disposition: Pass

Prepared By: Ambika Poudel

Reviewed By: Dr. Prabodh Satyal

## HPLC Analysis Report

### Cannabinoid Profile Certificate of Analysis

Client: EukaFlo  
Sample Name: CBD CW  
Sample Matrix: Distillate  
Sample Lot: Lot 5

Date Received: 06-24-2021  
Date Tested: 06-24-2021  
APRC #: EUF210624A

ID#	Cannabinoid	Ret. Time	Conc. (µg/mL)	% (w/w)	mg/g
1	Cannabidivarin (CBDV)	2.172	60.383	0.49	4.89
2	Cannabidiolic acid (CBDA)	INT	INT	N/A	N/A
3	Cannabigerolic acid (CBGA)	INT	INT	N/A	N/A
4	Cannabigerol (CBG)	3.096	1250.083	10.13	101.30
5	Cannabidiol (CBD)	3.266	8950.250	72.53	725.30
6	Tetrahydrocannabivarin (THCV)	INT	INT	N/A	N/A
7	Cannabinol (CBN)	4.760	8.452	0.07	0.68
8	Δ9-Tetrahydrocannabinol (Δ9-THC)	5.730	15.665	0.13	1.27
9	Δ8-Tetrahydrocannabinol (Δ8-THC)	5.997	345.917	2.80	28.03
10	Cannabichromene (CBC)	7.507	772.167	6.26	62.57
11	Δ9-Tetrahydrocannabinolic acid (THCA-A)	ND	ND	N/A	N/A

Analyzed by: J. Morley

Reviewed by: C. Gunn

	%	mg/g
Total Cannabinoids	92.41	924.06
Total THC <sup>†</sup>	0.13	1.27
Total CBD <sup>‡</sup>	72.53	725.30

<sup>†</sup> Total THC is calculated by Δ9-THC + (THCA-A\*0.877)

<sup>‡</sup> Total CBD is calculated by CBD + (CBDA\*0.877)

Notes:

INT: Concentration could not be quantified due to an interfering substance.

# PCR-Microarray Analysis Report

## Microbial Certificate of Analysis

Client: EukAFlo  
Sample Name: CBD CW  
Sample Matrix: Distillate  
Sample Lot: Lot 5

Date Received: 06-24-2021  
Date Tested: 06-28-2021  
APRC #: EUF210624A

Total Counts			
Group	Result	Specification†	Disposition
Total Aerobic Bacteria	<100	≤10,000	Pass
Total Bile Tolerant Gram-Negative Bacteria	<100	Report Only	Tested
Total Enterobacteria/Coliforms	<100	Report Only	Tested
Total Yeast and Mold	<100	Report Only	Tested

Specific Organism Identification			
Organism	Result	Specification†	Disposition
<i>Aspergillus flavus</i>	NT	NT	Not Tested
<i>Aspergillus fumigatus</i>	NT	NT	Not Tested
<i>Aspergillus niger</i>	NT	NT	Not Tested
<i>Aspergillus terreus</i>	NT	NT	Not Tested
<i>Escherichia coli</i> – Non shigella	ND	Report Only	Tested
<i>Escherichia coli</i> – <i>Shigella</i> spp.‡	ND	Report Only	Tested
<i>Listeria monocytogenes</i>	ND	Report Only	Tested
<i>Salmonella</i> – Specific Gene	ND	Report Only	Tested
<i>Staphylococcus aureus</i>	ND	Report Only	Tested
<i>Pseudomonas aeruginosa</i>	ND	Report Only	Tested

† - Per Utah State R68-29-8 requirements

‡ - Interpretation is based on presence of *Shigella* specific genes along with positive findings of STX1 and STX2 genes.

Analyzed by: J. Morley

Notes:

Reviewed by: C. Gunn



## CBD CW\_Lot 5\_EUF210624A\_6252021\_925 AM\_004

Sample ID: EUF210624A

Date acquired: 6/25/2021 2:40:57 PM

Acquired by: Admin

Data File: C:\LabSolutions\Data\CBD CW\_Lot 5\_EUF210624A\_6252021\_925 AM\_004.lcd

Vial: 59 | Inj. Volume: 1.0000uL | Tray: 1

Name	Conc.	Unit	Comment 1	Comment 2
Abamectin B1a	----	ppm	0.5 ppm limit	LOQ = 0.0005 ppm
Acephate	----	ppm	0.4 ppm limit	LOQ = 0.0005 ppm
Acequinocyl	----	ppm	2 ppm limit	LOQ = 0.0005 ppm
Acetamiprid	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Aldicarb	----	ppm	0.4 ppm limit	LOQ = 0.0005 ppm
Azoxystrobin	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Bifenazate	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Bifenthrin	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Boscalid	----	ppm	0.4 ppm limit	LOQ = 0.0005 ppm
Carbaryl	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Carbofuran	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Chlorantraniliprole	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Chlorfenapyr	----	ppm	1 ppm limit	LOQ = 0.0005 ppm
Chlorpyrifos	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Clofentezine	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Cyfluthrin	----	ppm	1 ppm limit	LOQ = 0.005 ppm
Cypermethrin	----	ppm	1 ppm limit	LOQ = 0.0005 ppm
Daminozide	----	ppm	1 ppm limit	LOQ = 0.01 ppm
Diazinon	----	ppm	0.2 ppm limit	LOQ = 0.005 ppm
Dichlorvos (DDVP)	----	ppm	0.1 ppm limit	LOQ = 0.0025 ppm
Dimethoate	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Ethoprophos	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Etofenprox	----	ppm	0.4 ppm limit	LOQ = 0.0005 ppm
Etiozazole	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Fenoxycarb	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Fenpyroximate	----	ppm	0.4 ppm limit	LOQ = 0.0005 ppm
Fipronil	----	ppm	0.4 ppm limit	LOQ = 0.005 ppm
Flonicamid	----	ppm	1 ppm limit	LOQ = 0.0005 ppm
Fludioxonil	----	ppm	0.4 ppm limit	LOQ = 0.0005 ppm
Hexythiazox	----	ppm	1 ppm limit	LOQ = 0.0005 ppm
Imazalil	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Imidacloprid	----	ppm	0.4 ppm limit	LOQ = 0.0005 ppm
Kresoxim-methyl	----	ppm	0.4 ppm limit	LOQ = 0.0005 ppm
Malathion	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Metalaxyl	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Methiocarb	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Methomyl	----	ppm	0.4 ppm limit	LOQ = 0.0005 ppm
MGK 264 (Pyrodione)	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Myclobutanil	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Naled	----	ppm	0.5 ppm limit	LOQ = 0.0005 ppm
Oxamyl	----	ppm	1 ppm limit	LOQ = 0.0005 ppm
Paclobutrazol	----	ppm	0.4 ppm limit	LOQ = 0.0005 ppm
Parathion Methyl	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Permethrins	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Phosmet	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Piperonyl butoxide	----	ppm	2 ppm limit	LOQ = 0.0005 ppm
Prallethrin	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Propiconazole	----	ppm	0.4 ppm limit	LOQ = 0.0005 ppm
Propoxur	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Pyrethrin I	----	ppm	0.5 ppm limit	LOQ = 0.0005 ppm
Pyrethrin II	----	ppm	0.5 ppm limit	LOQ = 0.0005 ppm
Pyridaben	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Spinosad A	----	ppm	0.1 ppm limit	LOQ = 0.0005 ppm
Spinosad D	----	ppm	0.1 ppm limit	LOQ = 0.0005 ppm
Spiromesifen	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Spirotetramat	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Spiroxamine	----	ppm	0.4 ppm limit	LOQ = 0.0005 ppm
Tebuconazole	----	ppm	0.4 ppm limit	LOQ = 0.0005 ppm
Thiacloprid	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Thiamethoxam	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm
Trifloxystrobin	----	ppm	0.2 ppm limit	LOQ = 0.0005 ppm

Comment:

Pass

## ICP-MS Analysis Report

### Heavy Metal Certificate of Analysis

Client: EukAFlo  
Sample Name: CBD CW  
Sample Matrix: Distillate  
Sample Lot: Lot 5

Date Received: 06/24/2021  
Date Released: 06/29/2021  
APRC #: EUF210624A

Analyte	Conc. (ppm)	Specification <sup>†</sup> (ppm)	Disposition
Arsenic	0.002	< 2.00	Pass
Cadmium	0.019	< 0.82	Pass
Mercury	<0.001	< 0.40	Pass
Lead	0.005	< 1.20	Pass

Prepared by: Cierra Gunn

<sup>†</sup> - Per Utah State Code 4-41a-701 (3) section R68-29-7

Reviewed by: Riley Hunter