



# CERTIFICATE OF ANALYSIS

## Upstream Organics

10120 E. Loma Rica Dr.  
Palmer, AK 99645  
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(907) 355-2838  
Lic. #: 20-3P-0002

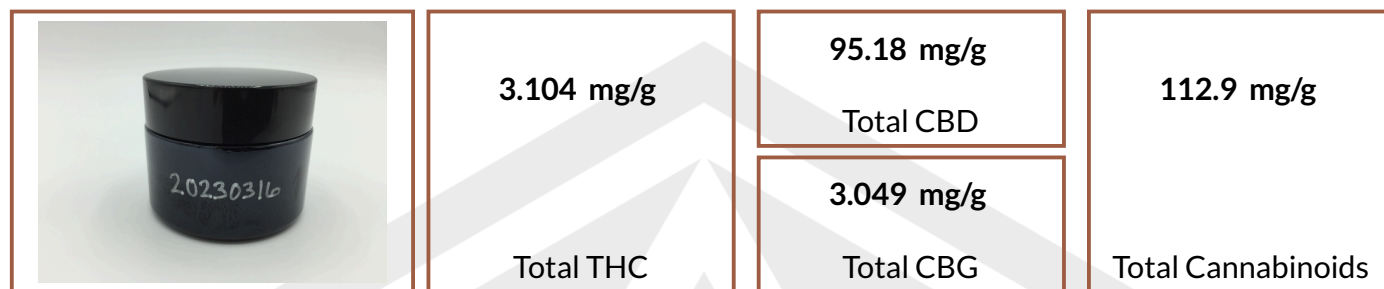
Sample: 230324TRI003.001

Sample Description: WCF-2021-SS-001

Sample Received: 03/28/2023; Report Created: 04/04/2023;  
Sampled By: Client;

20230316

Concentrates & Extracts, Press, Pressing



## Cannabinoids

Date Analyzed: 03/31/2023

Complete

Analyte	LOD mg/g	LOQ mg/g	Result mg/g	Result %
THCa	0.05570	0.1857	0.9808	0.09808
Δ9-THC	0.05570	0.1857	2.244	0.2244
Δ8-THC	0.05570	0.1857	ND	ND
THCVa	0.05570	0.1857	ND	ND
THCV	0.05570	0.1857	ND	ND
CBDa	0.05570	0.1857	45.08	4.508
CBD	0.05570	0.1857	55.64	5.564
CBDVa	0.05570	0.1857	0.2360	0.02360
CBDV	0.05570	0.1857	0.2726	0.02726
CBN	0.05570	0.1857	0.2190	0.02190
CBGa	0.05570	0.1857	1.527	0.1527
CBG	0.05570	0.1857	1.708	0.1708
CBCa	0.1082	0.3606	2.114	0.2114
CBC	0.05570	0.1857	2.838	0.2838
CBL	0.05570	0.1857	ND	ND
<b>Total</b>			<b>112.9</b>	<b>11.29</b>

SOP:102, AOAC 2018.11 (Modified); UHPLC-PDA. Total THC = THCa \* 0.877 + Δ9-THC; Total CBD = CBDa \* 0.877 + CBD; Total CBG = CBGa \* 0.878 + CBG. Pass/Fail THC criteria, if listed, is in accordance with 86 FR 5596 issued by the USDA for pre-harvest hemp clearance (total THC - uncertainty ≤ 0.3% THC). Dry weight percent of cannabinoids, if listed, is calculated using the dried weight determined by the moisture content prior to extraction, indicated as follows (SOP:702; Gravimetry).

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Kristen Goedde  
Lab Manager

Tom Barkley  
Technical Manager

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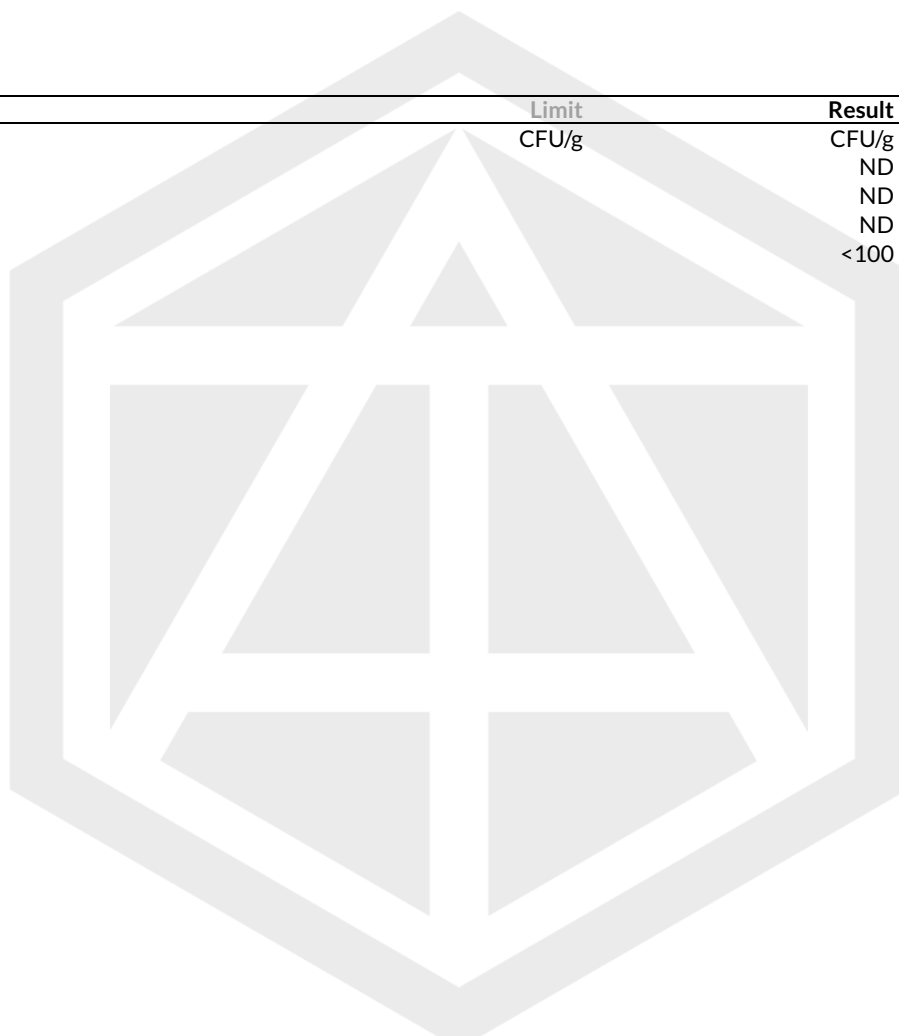


## Microbials

Date Analyzed: 04/03/2023

Complete

Analytes	Limit CFU/g	Result CFU/g	Status
Aspergillus		ND	Tested
Salmonella SPP		ND	Tested
E. Coli (STEC)		ND	Tested
Yeast & Mold		<100	Tested



SOP.602, SOP.606, SOP.607; qPCR, SOP.604; Plating, and/or SOP.605; MPN.

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## Mycotoxins

Date Analyzed: 03/30/2023

Pass

Analytes	LOD	LOQ	Limit	Result	Status
	µg/g	µg/g	µg/g	µg/g	
Aflatoxin B1	0.00645	0.0194	0.0200	ND	Pass
Aflatoxin B2	0.00645	0.0194	0.0200	ND	Pass
Aflatoxin G1	0.00645	0.0194	0.0200	ND	Pass
Aflatoxin G2	0.00645	0.0194	0.0200	ND	Pass
Total Aflatoxins				ND	Tested
Ochratoxin A	0.00645	0.0194	0.0200	ND	Pass

SOP.404; LC-MS/MS.

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## Elemental

Date Analyzed: 03/30/2023

Pass

## Heavy Metals

Analytes	LOD	LOQ	Limit	Result	Status
	µg/g	µg/g	µg/g	µg/g	
Arsenic	0.0130	0.0963	0.400	ND	Pass
Cadmium	0.00102	0.0482	0.400	<LOQ	Pass
Lead	0.0122	0.0482	1.00	<LOQ	Pass
Mercury	0.00552	0.0144	0.200	ND	Pass
Chromium	0.0518	0.144	0.600	ND	Pass
Nickel	0.0532	0.144		ND	Tested
Antimony	0.0161	0.0482		ND	Tested
Selenium	0.0252	0.193		ND	Tested

## Nutrients

Analytes	LOD	LOQ	Limit	Result	Status
	µg/g	µg/g	µg/g	µg/g	
Copper	0.206	0.979		ND	Tested
Iron	1.03	10.0		21.8	Tested
Manganese	0.0310	0.979		1.65	Tested
Zinc	0.136	10.0		<LOQ	Tested

SOP 502; ICPMS.

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## Pesticides

Date Analyzed: 03/30/2023

Pass

Analytes	LOD	LOQ	Limit	Result	Status	Analytes	LOD	LOQ	Limit	Result	Status
	µg/g	µg/g	µg/g	µg/g			µg/g	µg/g	µg/g	µg/g	
Abamectin	0.0252	0.0756	0.500	ND	Pass	Flurprimidol	0.0252	0.0756	0.200	ND	Pass
Acetamiprid	0.0252	0.0756	0.200	ND	Pass	Hexythiazox	0.0252	0.0756	1.00	ND	Pass
Aldicarb	0.0252	0.0756	0.400	ND	Pass	Imazalil	0.0252	0.0756	0.200	ND	Pass
Ancymidol	0.0504	0.151	0.200	ND	Pass	Imidacloprid	0.0252	0.0756	0.400	ND	Pass
Azoxystrobin	0.0252	0.0756	0.200	ND	Pass	Kresoxim Methyl	0.0252	0.0756	0.400	ND	Pass
Bifenazate	0.0252	0.0756	0.200	ND	Pass	Malathion	0.0252	0.0756	0.200	ND	Pass
Bifenthrin	0.0252	0.0756	0.200	ND	Pass	Metalaxyl	0.0252	0.0756	0.200	ND	Pass
Boscalid	0.0504	0.151	0.400	ND	Pass	Methiocarb	0.0252	0.0756	0.200	ND	Pass
Carbaryl	0.0252	0.0756	0.200	ND	Pass	Methomyl	0.0252	0.0756	0.400	ND	Pass
Carbofuran	0.0252	0.0756	0.200	ND	Pass	Myclobutanil	0.0252	0.0756	0.200	ND	Pass
Chlorantraniliprole	0.0252	0.0756	0.200	ND	Pass	Naled	0.161	0.484	0.500	ND	Pass
Chlorpyrifos	0.0252	0.0756	0.200	ND	Pass	Oxamyl	0.0252	0.0756	1.00	ND	Pass
Clofentezine	0.0252	0.0756	0.200	ND	Pass	Paclobotrazol	0.0252	0.0756	0.400	ND	Pass
Cyfluthrin	0.323	0.968	1.00	ND	Pass	Permethrins	0.161	0.484	0.500	ND	Pass
Daminozide	0.323	0.968	1.00	ND	Pass	Phosmet	0.0252	0.0756	0.200	ND	Pass
Diazinon	0.0252	0.0756	0.200	ND	Pass	Piperonyl Butoxide	0.0252	0.0756	1.00	ND	Pass
Dichlorvos	0.0252	0.0756	0.100	ND	Pass	Propiconazole	0.0252	0.0756	0.400	ND	Pass
Dimethoate	0.0252	0.0756	0.200	ND	Pass	Pyrethrins	0.323	0.968	1.00	ND	Pass
Ethephon	0.323	0.968	1.00	ND	Pass	Spinosad	0.0252	0.0756	0.200	ND	Pass
Etoxazole	0.0252	0.0756	0.200	ND	Pass	Spiromesifen	0.0645	0.194	0.200	ND	Pass
Fenpyroximate	0.0252	0.0756	0.500	ND	Pass	Spirotetramat	0.0252	0.0756	0.200	ND	Pass
Fipronil	0.0252	0.0756	0.400	ND	Pass	Thiacloprid	0.0252	0.0756	0.200	ND	Pass
Fonicamid	0.323	0.968	1.00	ND	Pass	Thiamethoxam	0.0252	0.0756	0.200	ND	Pass
Fludioxonil	0.0252	0.0756	0.400	ND	Pass	Trifloxystrobin	0.0252	0.0756	0.200	ND	Pass

SOP.404; LC-MS/MS.



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## Residual Solvents

Date Analyzed: 03/29/2023

Pass

Analytes	LOD	LOQ	Limit	Result	Status
	µg/g	µg/g	µg/g	µg/g	
1,1- Dichloroethene	0.0303	0.0908		ND	Tested
1,2-Dichloroethane	0.121	0.363		ND	Tested
Acetone	12.1	36.3		<LOQ	Tested
Acetonitrile	12.1	36.3		ND	Tested
Benzene	0.0303	0.0908	2.00	ND	Pass
Butane	12.1	36.3	5000	ND	Pass
Chloroform	0.0303	0.0908		ND	Tested
Ethanol	12.1	36.3	5000	<LOQ	Pass
Ethyl acetate	12.1	36.3		ND	Tested
Ethyl ether	12.1	36.3		ND	Tested
Ethylene oxide	0.121	0.363		<LOQ	Tested
Heptane	12.1	36.3	5000	ND	Pass
Isopropyl alcohol	12.1	36.3		ND	Tested
Methanol	12.1	36.3		<LOQ	Tested
Methylene chloride	0.0606	0.182		ND	Tested
n-Hexane	6.06	18.2	290	ND	Pass
Pentane	3.03	9.08		ND	Tested
Propane	6.06	18.2	5000	ND	Pass
Toluene	6.06	18.2	890	ND	Pass
Trichloroethylene	0.0303	0.0908		ND	Tested
Xylenes	6.06	18.2	2170	ND	Pass

SOP.204; HS-GC-MS.

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