



# CERTIFICATE OF ANALYSIS

Not for Regulatory Compliance

Date: Jul 18, 2023

Arbor Hemp

Arbor Hemp Softgel

Edible Solid



## SAMPLE INFORMATION

Sample ID: CTND-230710-001

Sample Name: Arbor Hemp Softgel

Matrix: Edible Solid

Batch No.: 23022810

Sample Size: 120 Units

Cultivar(s): N/A

Date Collected: Jul 10, 2023

Date Received: Jul 10, 2023

Received By: Matt Barnes

## Cannabinoids

TOTAL CANNABINOIDS

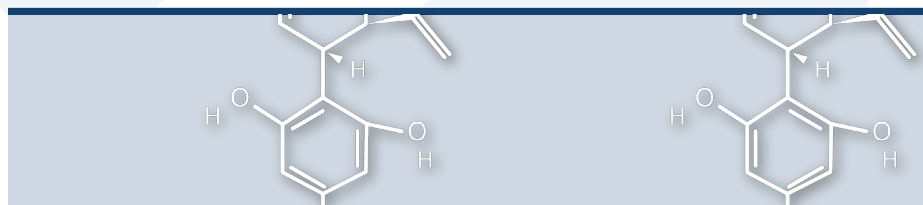
9.14%

TOTAL THC

0%

TOTAL CBD

7.23%



Category	Result
Cannabinoids	TESTED
Heavy Metals	TESTED
Microbials	TESTED
Mycotoxins	TESTED
Pesticides	TESTED
Residual Solvents	TESTED
Total Contaminant Load	TESTED
Water Activity	TESTED
Foreign Matter	NOT TESTED
Moisture Content	NOT TESTED
Terpenes	NOT TESTED



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Luis Jimenez  
 Laboratory Director  
 Jul 19, 2023



Lovelie Metzgar  
 Quality Manager  
 Jul 19, 2023



## Cannabinoids

Testing Method: CTND-FL-SOP-P-001, CTND-FL-SOP-P-002: Cannabinoids by HPLC-PDA

TESTED

Analyte	Dilution	LOD	LOQ	Results	Results	Results
	1:n	mg/g	mg/g	%	mg/g	mg/pkg
CBC	20	0.403	1.01	ND	ND	
CBD	20	0.403	1.01	7.23	72.3	
CBDA	20	0.403	1.01	ND	ND	
CBDV	20	0.403	1.01	1.34	13.4	
CBG	20	0.403	1.01	0.167	1.67	
CBGA	20	0.403	1.01	ND	ND	
CBN	20	0.403	1.01	ND	ND	
Δ <sup>8</sup> -THC	20	0.403	1.01	ND	ND	
Δ <sup>9</sup> -THC	20	0.403	1.01	ND	ND	
THCA	20	0.403	1.01	ND	ND	
THCV	20	0.403	1.01	0.398	3.98	
Total THC				ND	ND	
Total CBD				7.23	72.3	

Prepared By: 17, 17  
Prep Date: Jul 12, 2023  
Prep Weight: 0.248 Grams

Analyzed By: 17  
Analysis Date: Jul 12, 2023  
Lab Batch #: P230083

Reviewed By: 6  
Review Date: Jul 12, 2023

## Foreign Matter

Testing Method: Foreign Matter

NOT TESTED

Analyte	Limit	Results
Feces		NT
Filth (by weight)		NT

Prepared By: N/A  
Prep Date: N/A  
Prep Weight: N/A

Analyzed By: N/A  
Analysis Date: N/A  
Lab Batch #: N/A

Reviewed By: N/A  
Review Date: N/A

## Mycotoxins

Testing Method: CTND-FL-SOP-PM-001, CTND-FL-SOP-PM-002: Mycotoxins by LC-MS/MS

TESTED

Analyte	Dilution	LOD	LOQ	Limit	Results
	1:n	ppb	ppb	ppb	ppb
Aflatoxin B1		2.00	10.0	20	ND
Aflatoxin B2		2.00	10.0	20	ND
Aflatoxin G1		2.00	10.0	20	ND
Aflatoxin G2		2.00	10.0	20	ND
Ochratoxin A		2.00	10.0	20	ND

Prepared By: SUB-ACC  
Prep Date: Jul 10, 2023  
Prep Weight: Grams

Analyzed By: SUB-ACC  
Analysis Date: Jul 12, 2023  
Lab Batch #: PM230032

Reviewed By: 6  
Review Date: Jul 18, 2023

## Terpenes

Testing Method: Terpenes

NOT TESTED

Analyte	Dilution	LOD	LOQ	Results	Results
	1:n			%	
(-)-Caryophyllene oxide					NT
(-)-Guaiaol					NT
(-)-Isopulegol					NT
(-)-α-Bisabolol					NT
1,8-Cineole					NT
Camphene					NT
Δ <sup>3</sup> -Carene					NT
Geraniol					NT
Linalool					NT
Terpinolene					NT
α-Humulene					NT
α-Pinene					NT
α-Terpinene					NT
β-Caryophyllene					NT
β-Myrcene					NT
β-Pinene					NT
cis-Nerolidol					NT
cis-β-Ocimene					NT
d-Limonene					NT
γ-Terpinene					NT
p-Cymene					NT
trans-Nerolidol					NT
trans-β-Ocimene					NT
Total Terpenes					ND ND

Prepared By: N/A  
Prep Date: N/A  
Prep Weight: N/A

Analyzed By: N/A  
Analysis Date: N/A  
Lab Batch #: N/A

Reviewed By: N/A  
Review Date: N/A

## Moisture Content

Testing Method: Moisture Content

NOT TESTED

Analyte	Limit	Results
Moisture		NT

Prepared By: N/A  
Prep Date: N/A  
Prep Weight: N/A

Analyzed By: N/A  
Analysis Date: N/A  
Lab Batch #: N/A

Reviewed By: N/A  
Review Date: N/A

## Water Activity

Testing Method: CTND-FL-SOP-W-001:

Water Activity

TESTED

Analyte	Limit	Results
Water Activity	0.85 Aw	0.43 Aw

Prepared By: 17  
Prep Date: Jul 10, 2023  
Prep Weight: 0.45 Grams

Analyzed By: 17  
Analysis Date: Jul 10, 2023  
Lab Batch #: W230027

Reviewed By: 6  
Review Date: Jul 13, 2023



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Jul 19, 2023



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## Pesticides

Testing Method: CTND-FL-SOP-PM-001, CTND-FL-SOP-PM-002: Pesticides LC-MS/MS

TESTED

Analyte	Dilution	LOD	LOQ	Limit	Results
	1:n	ppb	ppb	ppb	ppb
Naled		25.0	125	500	ND
Captan		70.0	350	3000	ND
Oxamyl		50.0	250	500	ND
Phosmet		10.0	50.0	200	ND
Acephate		10.0	50.0	3000	ND
Aldicarb		10.0	50.0	100	ND
Boscalid		10.0	50.0	3000	ND
Carbaryl		50.0	250	500	ND
Diazinon		10.0	50.0	200	ND
Fipronil		10.0	50.0	100	ND
Imazalil		10.0	50.0	100	ND
Methomyl		10.0	50.0	100	ND
Propoxur		10.0	50.0	100	ND
Abamectin		10.0	50.0	300	ND
Chlordane		10.0	50.0	100	ND
Coumaphos		10.0	50.0	100	ND
Etoxazole		10.0	50.0	1500	ND
Malathion		20.0	100	2000	ND
Metalaxyl		10.0	50.0	3000	< LOQ
Mevinphos		10.0	50.0	100	ND
Pyridaben		20.0	100	3000	ND
Bifenazate		10.0	50.0	3000	ND
Bifenthrin		10.0	50.0	500	ND
Carbofuran		10.0	50.0	100	ND
Cyfluthrin		50.0	250	1000	ND
Daminozide		10.0	50.0	100	ND
Dichlorvos		10.0	50.0	100	ND
Dimethoate		10.0	50.0	100	ND
Etofenprox		10.0	50.0	100	ND
Fenhexamid		10.0	50.0	3000	ND
Fenoxycarb		10.0	50.0	100	ND
Fonicamid		10.0	50.0	2000	ND
Methiocarb		10.0	50.0	100	ND
Spinetoram		20.0	100	3000	ND
Spinosad A		8.12	40.6		ND
Spinosad D		1.72	8.60		ND
Acequinocyl		10.0	50.0	2000	ND

Analyte	Dilution	LOD	LOQ	Limit	Results
	1:n	ppb	ppb	ppb	ppb
Acetamiprid		10.0	50.0	3000	ND
Ethoprophos		10.0	50.0	100	ND
Fludioxonil		10.0	50.0	3000	ND
Hexythiazox		10.0	50.0	2000	ND
Prallethrin		10.0	50.0	400	ND
Spiroxamine		10.0	50.0	100	ND
Thiacloprid		10.0	50.0	100	ND
Azoxystrobin		10.0	50.0	3000	ND
Chlorfenapyr		10.0	50.0	100	ND
Chlorpyrifos		10.0	50.0	100	ND
Clofentazine		20.0	100	500	ND
Cypermethrin		50.0	250	1000	ND
Dimethomorph				3000	ND
Imidacloprid		40.0	200	3000	ND
Myclobutanil		10.0	50.0	3000	ND
Spiromesifen		10.0	50.0	3000	ND
Tebuconazole		10.0	50.0	1000	< LOQ
Thiamethoxam		50.0	250	1000	ND
Fenpyroximate		10.0	50.0	2000	ND
Paclobotrazol		10.0	50.0	100	ND
Propiconazole		10.0	50.0	1000	ND
Spirotetramat		10.0	50.0	3000	ND
Permethrin cis		4.00	20.0		ND
Kresoxim-methyl		10.0	50.0	1000	ND
Trifloxystrobin		10.0	50.0	3000	ND
Methyl parathion		10.0	50.0	100	ND
Permethrin trans		6.00	30.0		ND
Piperonylbutoxide		300	1500	3000	ND
Chlorantraniliprole		100	500	3000	ND
Chlormequat chloride		100	500	3000	ND
Pyrethrins Cinerin I		2.85	14.2		ND
Pyrethrins Cinerin II		1.90	9.50		ND
Pyrethrins Jasmolin I		2.00	10.0		ND
Pyrethrins Jasmolin II		1.35	6.75		ND
Pyrethrins Pyrethrin I		28.1	140		ND
Pentachloronitrobenzene		15.0	75.0	200	ND
Pyrethrins Pyrethrin II		13.9	69.5		ND

Prepared By: SUB-ACC  
Prep Date: Jul 12, 2023  
Prep Weight: Grams

Analyzed By: SUB-ACC  
Analysis Date: Jul 12, 2023  
Lab Batch #: PM230032

Reviewed By: 6  
Review Date: Jul 18, 2023

## Heavy Metals

Testing Method: CTND-FL-SOP-M-001: Heavy Metals by ICP-MS

TESTED

Analyte	Dilution	LOD	LOQ	Limit	Results
	1:n	ppb	ppb	ppb	ppb
Lead		50.0	250	500	ND
Arsenic		20.0	100	1500	ND

Analyte	Dilution	LOD	LOQ	Limit	Results
	1:n	ppb	ppb	ppb	ppb
Cadmium		20.0	100	500	ND
Mercury		20.0	100	3000	ND

Prepared By: SUB-ACC  
Prep Date: Jul 10, 2023  
Prep Weight: Grams

Analyzed By: SUB-ACC  
Analysis Date: Jul 12, 2023  
Lab Batch #: M230029

Reviewed By: 6  
Review Date: Jul 18, 2023

Total Contaminant Load: 0 ppm | Action Limit: 30 ppm

TESTED



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Quality Manager  
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Definitions and Equations: Total THC = THCa\*0.877 + d9-THC, Total CBD = CBDa\*0.877 + CBD, LOQ = Limit of Quantification, LOD = Limit of Detection, NT = Not Tested, ND = Not Detected. This report, and all results within, relates only to the product submitted and tested, and may not be reproduced without written approval from Certified Testing and Data (CTND). CTND has been accredited by an unbiased thirdparty agency to ISO 17025 standards.



## Microbials

TESTED

Analyte	Limit	Results	Testing & Prep Method:
Salmonella spp.	Any amt in 1 gram	Absent	CTND-FL-SOP-B-002, CTND-FL-SOP-B-006: Salmonella by qPCR
			Prepared By: 12    Prep Date: Jul 10, 2023    Reviewed By: 7    Review Date: Jul 13, 2023 Analyzed By: 12    Analysis Date: Jul 11, 2023    Lab Batch #: B230107
Shiga toxin-producing E. coli		Absent	CTND-FL-SOP-B-001, CTND-FL-SOP-B-006: Shiga Toxin-producing E. Coli by qPCR
			Prepared By: 12    Prep Date: Jul 10, 2023    Reviewed By: 7    Review Date: Jul 13, 2023 Analyzed By: 12    Analysis Date: Jul 11, 2023    Lab Batch #: B230108
Yeast & Mold		<10	CTND-FL-SOP-B-005: Total Yeast & Mold by Petrifilm
			Prepared By: 12    Prep Date: Jul 10, 2023    Reviewed By: 7    Review Date: Jul 13, 2023 Analyzed By: 12    Analysis Date: Jul 12, 2023    Lab Batch #: B230106
Aspergillus spp.	Any amt in 1 gram	Absent	CTND-FL-SOP-B-007, CTND-FL-SOP-B-003: Aspergillus by qPCR
Aspergillus niger		Absent	Prepared By: 12    Prep Date: Jul 10, 2023    Reviewed By: 7    Review Date: Jul 13, 2023
Aspergillus flavus		Absent	Analyzed By: 12    Analysis Date: Jul 12, 2023    Lab Batch #: B230109
Aspergillus terreus		Absent	
Aspergillus fumigatus		Absent	

## Residual Solvents

Testing Method: CTND-FL-SOP-R-001, CTND-FL-SOP-R-002: Residual Solvents by GC-MS

TESTED

Analyte	Dilution	LOD	LOQ	Limit	Results	Analyte	Dilution	LOD	LOQ	Limit	Results
	1:n	ppm	ppm	ppm	ppm		1:n	ppm	ppm	ppm	ppm
Butane		500	2500	5000	ND	Chloroform		0.200	1.00	2	ND
Hexane		25.0	125	250	ND	Ethyl ether		5.00	250	500	ND
Acetone		75.0	375	750	ND	Acetonitrile		6.00	30.0	60	ND
Benzene		0.100	0.500	1	ND	Ethyl acetate		40.0	200	400	ND
Ethanol		500	2500		ND	Ethylene oxide		0.500	2.50	5	ND
Heptane		500	2500	5000	ND	p- and m-Xylene		7.50	37.5		ND
Pentane		75.0	375	750	ND	Isopropyl alcohol		50.0	250	500	ND
Propane		500	2500	5000	ND	Trichloroethylene		2.50	12.5	25	ND
Toluene		15.0	75.0	150	ND	1,1-Dichloroethene		0.800	4.00	8	ND
Methanol		25.0	125	250	ND	1,2-Dichloroethane		0.200	1.00	2	ND
o-Xylene		7.50	37.5		ND	Methylene chloride		12.5	62.5	125	ND

Prepared By: 14, 14  
Prep Date: Jul 11, 2023  
Prep Weight: 0.305 Grams

Analyzed By: 14  
Analysis Date: Jul 12, 2023  
Lab Batch #: R230032

Reviewed By: 6  
Review Date: Jul 12, 2023

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