



# Certificate of Analysis



**75mg/ml Full Spectrum CBD Oil**

**Matrix:** Derivative

**Accession Number:** 041521UD0018

**Harvest/Lot ID:**

**Seed to Sale:** \*

**Batch Date:** 04/15/21

**Batch #:** 100048

**Sample Size Received:** 1 units

**Retail Product Size:**

**Ordered:** 04/15/21

**Completed:** 04/27/21

**Expires:** 04/26/22

**Sampling Method:** SOP Client Method

Apr 27, 2021 | Candelay  
Industries

Rockland, DE,  
(717) 449-1518

## CANNABINOID RESULTS

<b>Total THC</b> <b>0.033%</b>	<b>Total CBD</b> <b>8.625%</b>	<b>Total Cannabinoids</b> <b>8.819%</b>
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CBC	CBD	CBDA	CBDV	CBG	CBGA	CBN	D8-THC	D9-THC	THCA	THCV
0.099%	8.625%	ND	0.012%	0.050%	ND	ND	ND	0.033%	ND	ND
0.990 mg/g	86.250 mg/g	ND	0.120 mg/g	0.500 mg/g	ND	ND	ND	0.330 mg/g	ND	ND
<b>LOD 0.001</b>	<b>0.0001</b>	<b>0.001</b>	<b>0.001</b>	<b>0.001</b>	<b>0.001</b>	<b>0.001</b>	<b>0.001</b>	<b>0.0001</b>	<b>0.001</b>	<b>0.001</b>

Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with UV detection (HPLC-PDA). (Method: SOP.KY.02.005) sample prep and Shimadzu High Sensitivity Method SOP.KY.02.012 for analysis. LOQ for all cannabinoids is 1 mg/L. % = %w/w = Percent (Weight of Analyte/Weight Product) Total Cannabinoids result reflects the absolute sum of all cannabinoids detected. \*\*Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation Total THC = THC + (THCa\*0.877) Total CBD = CBD + (CBDA\*0.877) null

<b>Filth &amp; Foreign Matter</b>	<b>PASSED</b>
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This includes but is not limited to hair, insects, feces, packaging contaminants, and manufacturing waste and by-products. An SH-2B/T Stereo Microscope is use for inspection. SOP.KY.02.11

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**David Greene**  
Lab Director  
State License # 19-05-02P  
ISO Accreditation # PJLA  
ISO17025

Signature

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Signed On



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**Candelay Industries**

Rockland, DE,  
Telephone: (717) 449-1518  
Email: mhaiges@americanfiber.com



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Pesticides						<b>PASSED</b>					
Pesticides	LLOQ	Result	Units	Action Level	Pass / Fail	Pesticides	LLOQ	Result	Units	Action Level	Pass / Fail
- cis-permethrin	0.0041	ND	ppm	0.4	PASS	- trans-permethrin	0.0118	ND	ppm	0.4	PASS
ABAMECTIN B1A	0.02	ND	ppm	0.5	PASS	ACEPHATE	0.01	ND	ppm	0.4	PASS
ACEQUINOCYL	0.05	ND	ppm	2	PASS	ACETAMIPRID	0.01	ND	ppm	0.2	PASS
ALDICARB	0.02	ND	ppm	0.4	PASS	AZOXYSTROBIN	0.01	ND	ppm	0.2	PASS
BIFENAZATE	0.01	ND	ppm	0.2	PASS	BIFENTHRIN	0.01	ND	ppm	0.2	PASS
BOSCALID	0.01	ND	ppm	0.4	PASS	CARBARYL	0.01	ND	ppm	0.2	PASS
CARBOFURAN	0.01	ND	ppm	0.2	PASS	CHLORANTRANILIPROLE	0.01	ND	ppm	0.2	PASS
CHLORPYRIFOS	0.01	ND	ppm	0.2	PASS	CLOFENTEZINE	0.01	ND	ppm	0.2	PASS
COUMAPHOS	0.01	ND	ppm	0.2	PASS	CYPERMETHRIN	0.02	ND	ppm	1	PASS
DAMINOZIDE	0.02	ND	ppm	1	PASS	DIAZANON	0.01	ND	ppm	0.2	PASS
DICHLORVOS	0.05	ND	ppm	0.1	PASS	DIMETHOATE	0.01	ND	ppm	0.2	PASS
DIMETHOMORPH	0.005	ND	ppm	0.1	PASS	ETHOPROPHOS	0.01	ND	ppm	0.2	PASS
ETOFENPROX	0.01	ND	ppm	0.4	PASS	ETOXAZOLE	0.01	ND	ppm	0.2	PASS
FENHEXAMID	0.005	ND	ppm	0.1	PASS	FENOXYCARB	0.01	ND	ppm	0.2	PASS
FENPYROXIMATE	0.01	ND	ppm	0.4	PASS	FIPRONIL	0.02	ND	ppm	0.4	PASS
FLONICAMID	0.01	ND	ppm	1	PASS	FLUDIOXONIL	0.01	ND	ppm	0.4	PASS
HEXYTHIAZOX	0.01	ND	ppm	1	PASS	IMAZALIL	0.01	ND	ppm	0.2	PASS
IMIDACLOPRID	0.01	ND	ppm	0.4	PASS	KRESOXIM-METHYL	0.01	ND	ppm	0.4	PASS
MALATHION	0.01	ND	ppm	0.2	PASS	METALAXYL	0.01	ND	ppm	0.2	PASS
METHIOCARB	0.01	ND	ppm	0.2	PASS	METHOMYL	0.01	ND	ppm	0.4	PASS
MEVINPHOS	0.01	ND	ppm	0.1	PASS	MYCLOBUTANIL	0.01	ND	ppm	0.2	PASS
NALED	0.01	ND	ppm	0.5	PASS	OXAMYL	0.01	ND	ppm	1	PASS
PACLOBUTRAZOL	0.01	ND	ppm	0.4	PASS	PERMETHRINS (sum)	0.05	ND	ppm	1	PASS
PHOSMET	0.01	ND	ppm	0.2	PASS	PIPERONYL BUTOXIDE	0.01	ND	ppm	2	PASS
PRALLETHRIN	0.05	ND	ppm	0.2	PASS	PROPICONAZOLE	0.01	ND	ppm	0.4	PASS
PROPOXUR	0.01	ND	ppm	0.2	PASS	PYRETHRIN I	0.01	ND	ppm	1	PASS
PYRIDABEN	0.01	ND	ppm	0.2	PASS	SPINETORAM	0.01	ND	ppm	0.5	PASS
SPINOSAD (SPINOSYN A)	0.01	ND	ppm	0.2	PASS	SPINOSAD (SPINOSYN D)	0.01	ND	ppm	0.2	PASS
SPIROMESIFEN	0.01	ND	ppm	0.2	PASS	SPIROTETRAMAT	0.02	ND	ppm	0.2	PASS
SPIROXAMINE	0.01	ND	ppm	0.2	PASS	TEBUCONAZOLE	0.01	ND	ppm	0.4	PASS
THIACLOPRID	0.01	ND	ppm	0.2	PASS	THIAMETHOXAM	0.01	ND	ppm	0.2	PASS
Trifloxystrobin	0.01	ND	ppm	0.2	PASS						

Pesticide screen is performed using LC-MS which can screen down to below single digit ppb concentrations for regulated Pesticides. Currently we analyze for 57 Pesticides. (Method: SOP.T.30.060 Sample Preparation for Pesticides Analysis via LCMSMS and SOP.T40.060 Procedure for Pesticide Quantification Using LCMS). \*\*

Mycotoxins						<b>PASSED</b>					
Analyte	LLOQ	Result	Units	Action Level	Pass / Fail	Analyte	LLOQ	Result	Units	Action Level	Pass / Fail
Aflatoxin B1	0.001	ND	ppm	0.2	PASS	Aflatoxin B2	0.001	ND	ppm	0.2	PASS
Aflatoxin G1	0.001	ND	ppm	0.2	PASS	Aflatoxin G2	0.001	ND	ppm	0.2	PASS
Ochratoxin A+	0.001	ND	ppm	0.2	PASS						

Aflatoxins B1, B2, G1, G2, and Ochratoxins A testing using LC-MS. (Method: SOP.T.30.060 for Sample Preparation and SOP.T40.060 Procedure for Mycotoxins Quantification Using LCMS. LOQ 1.0ppb). Total Aflatoxins (Aflatoxin B1, B2, G1, G2) must be 20g/Kg. Ochratoxins must be 20g/Kg

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Lab Director

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Residual Solvents		<b>PASSED</b>				
Solvent	LLOQ	Result	Units	Action Level (PPM)	Pass/Fail	
2-Propanol	60.0	ND	ppm	5000	PASS	
Acetone	60	ND	ppm	5000	PASS	
Acetonitrile	60	ND	ppm	410	PASS	
Butane	200	ND	ppm	5000	PASS	
Ethanol	80	ND	ppm	5000	PASS	
Ethyl Acetate	60	ND	ppm	5000	PASS	
Ethyl Ether	40	ND	ppm	5000	PASS	
Heptane	40	ND	ppm	5000	PASS	
Hexane	40	ND	ppm	290	PASS	
Isobutane	200	ND	ppm	5000	PASS	
M/P-Xylene	80	ND	ppm	2170	PASS	
Methanol	40	ND	ppm	3000	PASS	
O-Xylene	40	ND	ppm	2170	PASS	
Pentane	60	ND	ppm	5000	PASS	
Propane	400	ND	ppm	5000	PASS	
Toluene	40	ND	ppm	890	PASS	
Total Xylenes	120	ND	ppm	2170	PASS	

Heavy Metals		<b>PASSED</b>				
Metal	LLOQ	Result	Unit	Action Level	Pass / Fail	
Arsenic	0.2	ND	ppm	3	PASS	
Cadmium	0.2	ND	ppm	0.3	PASS	
Lead	0.2	ND	ppm	10	PASS	
Mercury	0.2	ND	ppm	3	PASS	

Heavy Metals screening is performed using ICP-MS (Inductively Coupled Plasma – Mass Spectrometer) which can screen down to below single digit ppb concentrations for regulated heavy metals using Method SOP.T.30.052 Sample Preparation for Heavy Metals Analysis via ICP-MS and SOP.T.40.050 Heavy Metals Analysis via ICP-MS. \*Action Limits based on Colorado Regulations.

Microbials		<b>PASSED</b>	
Analyte	Result		
ASPERGILLUS_FLAVUS .	not present in 1 gram.		
ASPERGILLUS_FUMIGATUS .	not present in 1 gram.		
ASPERGILLUS_NIGER .	not present in 1 gram.		
ASPERGILLUS_TERREUS_1J2 .	not present in 1 gram.		
ESCHERICHIA_COLI_SHIGELLA_SPP .	not present in 1 gram.		
SALMONELLA_SPECIFIC_GENE .	not present in 1 gram.		

Microbiological testing for Fungal and Bacterial Identification via Polymerase Chain Reaction (PCR) method consisting of sample DNA amplified via tandem Polymerase Chain Reaction (PCR) as a crude lysate which avoids purification. (Method SOP.T.40.043) If a pathogenic Escherichia Coli, Salmonella, Aspergillus fumigatus, Aspergillus flavus, Aspergillus niger, or Aspergillus terreus is detected in 1g of a sample, the sample fails the microbiological-impurity testing.

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