

# Certificate of Analysis

Final Product: Cannabidiol Isolate

Lot Number: L22081015

Date of Manufacture: August 2022 Expiration: August 2024



**MILE HIGH LABS**

To view the certificate of analysis for this product, scan the QR code or visit [coa.milehighlabs.com](http://coa.milehighlabs.com) and enter the lot number.



## AT A GLANCE

Organoleptics **Passed** Potency **Passed** Residual Solvents **Passed** Elemental Impurities **Passed** Mycotoxins **Passed** Microbials **Passed** Pesticides **Passed**

Test	Methodology	Specification	Test Results	Pass/Fail
<b>Color and Appearance</b>	Contract Lab <sup>1</sup>	White, crystalline powder free of particulates	Conforms	PASS
<b>CBD Potency (% w/w)*</b>	(% w/w) Contract Lab <sup>1</sup>	≥ 98%	101%	PASS
<b>THC Content (% w/w)*</b>	THC(% w/w) Contract Lab <sup>1</sup>	≤ 0.05	< LOQ <sup>3</sup>	PASS
	THCA(% w/w) Contract Lab <sup>1</sup>	≤ 0.05	ND	PASS
	Total (THC + THCA* 0.877)(% w/w) Contract Lab <sup>1</sup>	≤ 0.05	< LOQ <sup>3</sup>	PASS
<b>Related Cannabinoid Content (w/w)*</b>	CBN(% w/w) Contract Lab <sup>1</sup>	≤ 0.05	ND	PASS
	CBNA(% w/w) Contract Lab <sup>1</sup>	≤ 0.05	ND	PASS
	d8-THC(% w/w) Contract Lab <sup>1</sup>	≤ 0.05	ND	PASS
	THCVA(% w/w) Contract Lab <sup>1</sup>	≤ 0.05	ND	PASS
	THCV(% w/w) Contract Lab <sup>1</sup>	≤ 0.05	ND	PASS
	CBC(% w/w) Contract Lab <sup>1</sup>	Report	< LOQ <sup>3</sup>	PASS
	CBDA(% w/w) Contract Lab <sup>1</sup>	Report	ND	PASS
	CBDVA(% w/w) Contract Lab <sup>1</sup>	Report	ND	PASS
	CBDV(% w/w) Contract Lab <sup>1</sup>	Report	0.36%	PASS
	CBGA(% w/w) Contract Lab <sup>1</sup>	Report	ND	PASS
	CBG(% w/w) Contract Lab <sup>1</sup>	Report	0.026%	PASS
	CBL(% w/w) Contract Lab <sup>1</sup>	Report	ND	PASS
	CBCA(% w/w) Contract Lab <sup>1</sup>	Report	ND	PASS
	Total (Sum of all observed RCs known and unknown)(% w/w) Contract Lab <sup>1</sup>	Report	0.36%	PASS
<b>Total Cannabinoids (CBD plus total RCs)(%w/w)</b>	(% w/w) Contract Lab <sup>1</sup>	Report	101%	PASS
<b>Residual Solvents</b>	Acetone Contract Lab <sup>1</sup>	< 1000 ppm	< 200 ppm	PASS
	Benzene Contract Lab <sup>1</sup>	< 2ppm	< 1 ppm	PASS
	Butanes Contract Lab <sup>1</sup>	< 1,000 ppm	< 500 ppm	PASS
	Ethanol Contract Lab <sup>1</sup>	< 1000 ppm	< 1000 ppm	PASS
	Ethyl Acetate Contract Lab <sup>1</sup>	< 1,000 ppm	< 500 ppm	PASS
	Heptanes Contract Lab <sup>1</sup>	< 1,000 ppm	< 50 ppm	PASS
	Hexane Contract Lab <sup>1</sup>	< 60 ppm	< 30 ppm	PASS
	Isopropyl Alcohol Contract Lab <sup>1</sup>	< 1,000 ppm	< 500 ppm	PASS
	Methanol Contract Lab <sup>1</sup>	< 600 ppm	< 500 ppm	PASS
	Pentane Contract Lab <sup>1</sup>	< 1000 ppm	162 ppm	PASS
	Propane Contract Lab <sup>1</sup>	< 1000 ppm	< 1000 ppm	PASS
	Toluene Contract Lab <sup>1</sup>	<180 ppm	< 90 ppm	PASS
	Total Xylenes Contract Lab <sup>1</sup>	(m, p, o-xylenes) <430 ppm)	< 160 ppm	PASS

Specification: FP-001 v13.0

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Elemental Impurities	Arsenic (ppm)	ICP-MS <sup>1</sup>	< 1.0 ppm	<0.01 ppm	PASS
	Cadmium (ppm)	ICP-MS <sup>1</sup>	< 0.4 ppm	<0.005 ppm	PASS
	Lead (ppm)	ICP-MS <sup>1</sup>	< 0.5 ppm	<0.005 ppm	PASS
	Mercury (Total) (ppm)	IICP-MS <sup>1</sup>	< 0.2 ppm	<0.005 ppm	PASS
Mycotoxins	B <sup>1</sup> (AFB <sup>1</sup> )	USP <561> <sup>1</sup>	< 2 ppm	<0.500 ppb	PASS
	B <sup>2</sup> (AFB <sup>2</sup> )	USP <561> <sup>1</sup>	< 0.5 ppb	<0.500 ppb	PASS
	G <sup>1</sup> (AFG <sup>1</sup> )	USP <561> <sup>1</sup>	< 0.5 ppb	<0.500 ppb	PASS
	G <sup>2</sup> (AFG <sup>2</sup> )	USP <561> <sup>1</sup>	< 0.5 ppb	<0.500 ppb	PASS
	Ochratoxin A	USP <561> <sup>1</sup>	< 1.0 ppb	<1 ppb	PASS
	Total	USP <561> <sup>1</sup>	< 4 ppb	<2 ppb	PASS
Microbials	Salmonella spp.	USP <2021> <sup>1</sup>	Absent in 25 g	Absent/25g	PASS
	E. coli (STEC) - Bacteria	USP <2021> <sup>1</sup>	Absent in 25 g	ND/25g	PASS
	Total coliforms	AOAC 989.10; AOAC 986.33; AOAC991.14 <sup>1</sup>	< 100 cfu/g	<10 cfu/g	PASS
	Total aerobic late count	USP <2021> <sup>1</sup>	< 10,000 cfu/g	<100 cfu/g	PASS
	Total yeast and mold	USP <2021> <sup>1</sup>	< 1,000 cfu/g	<100 cfu/g	PASS
Pesticides	Individual Pesticide Content (ppm)	Contract Lab <sup>2</sup>	Individual Pesticide Limit <sup>3</sup>	Conforms	PASS

\*Number of replicates: 24

<sup>1</sup>Contract Testing performed by Eurofins BioDiagnostics.

<sup>2</sup>Contract Testing performed by ACS. Refer to tables below for individual pesticides and associated limits.

<sup>3</sup>Less than LOQ of 0.0250% per Official Methods of Analysis AOAC 2018.11

## ACS Residual Pesticide Limits

Abamectin	<0.25	Cypermethrin	<0.30	Fipronil	<0.01	Permethrin	<0.50	Tetramethrin	<0.10
Acephate	<0.05	Cyprodinil	<0.01	Flonicamid	<0.025	Phenothrin	<0.05	Thiabendazole	<0.02
Acequinocyl	<0.03	Daminozide	<0.10	Fludioxonil	<0.01	Phosmet	<0.02	Thiacloprid	<0.01
Acetamiprid	<0.05	Deltamethrin	<0.50	Fluopyram	<0.01	Piperonyl Butoxide	<1.25	Thiamethoxam	<0.01
Aldicarb	<0.50	Diazinon	<0.02	Hexythiazox	<0.0	Pirimicarb	<0.01	Thiophanate-methyl	<0.05
Allethrin	<0.10	Dichlorvos	<0.05	Imazalil	<0.01	Prallethrin	<0.05	Trifloxystrobin	<0.01
Atrazine	<0.025	Dimethoate	<0.01	Imidacloprid	<0.01	Propiconazole	<0.01		
Azadirachtin	<0.50	Dimethomorph	<0.05	Iprodione	<0.50	Propoxur	<0.01		
Azoxystrobin	<0.01	Dinotefuran	<0.05	Kinoprene	<1.25	Pyraclostrobin	<0.01		
Benzovindiflupyr	<0.01	Diuron	<0.125	Kresoxim-methyl	<0.15	Pyrethrins	<0.05		
Bifenazate	<0.01	Dodemorph	<0.05	Lambda, Cyhalothrin	<0.25	Pyridaben	<0.02		
Bifenthrin	<0.01	Endosulfan sulfate	<2.5	Malathion	<0.01	Pyriproxyfen	<0.01		
Boscalid	<0.01	Endosulfan-alpha	<2.5	Metalaxyl	<0.01	Quintozene	<0.02		
Buprofezin	<0.02	Endosulfan-beta	<2.5	Methiocarb	<0.01	Resmethrin	<0.05		
Carbaryl	<0.025	Ethoprophos	<0.01	Methomyl	<0.025	Spinetoram	<0.01		
Carbofuran	<0.01	Etofenprox	<0.05	Methoprene	<2.00	Spinosad	<0.01		
Chlorantraniliprole	<0.02	Etoazole	<0.05	Mevinphos	<0.025	Spiriclofen	<0.25		
Chlorphenapyr	<1.5	Etridiazole	<0.15	MKG-264	<0.05	Spiromesifen	<3.0		
Chlorpyrifos	<0.50	Fenhexamid	<0.125	Myclobutanil	<0.01	Spiroletmat	<0.01		
Clofentezine	<0.01	Fenoxycarb	<0.01	Naled	<0.10	Spiroxamine	<0.10		
Clothianidin	<0.025	Fenpyroximate	<0.02	Novaluron	<0.025	Tebuconazole	<0.01		
Courmaphos	<0.01	Fensulfthion	<0.01	Oxamyl	<1.5	Tebufenozide	<0.01		
Cyantraniliprole	<0.01	Fenthion	<0.01	Paclbutrazol	<0.01	Teflubenzuron	<0.025		
Cyfluthrin	<0.20	Fenvalerate	<0.10	Parathion-methyl	<0.05	Tetrachlorvinphos	<0.01		

Specification: FP-001 v13.0

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