

# Certificate of Analysis

Final Product: Cannabidiol Isolate

Lot Number: IL1904I-024



MILE HIGH LABS™

Test	Methodology	Specification	Test Results (Average) <sup>1</sup>	Pass/Fail
Color and Appearance	TM-004 (Visual)	White, crystalline powder free of particulates	Conforms	Pass
CBD Identification	TM-001 (DAD Retention Time)	Retention time of the primary peak in sample chromatogram matches that in the analytical reference standard.	Conforms	Pass
	TM-001 (DAD UV Spectrum)	UV Spectrum of the primary peak in sample chromatogram matches that in the analytical reference standard.	Conforms	Pass
CBD Potency (% w/w)	TM-001 (HPLC-DAD)	≥ 98%	99.3	Pass
THC Content (% w/w)	THC	TM-001 (HPLC-DAD)	≤ LOQ <sup>2</sup>	Pass
	THCA	TM-001 (HPLC-DAD)	≤ LOQ <sup>2</sup>	Pass
Related Cannabinoid Content (%w/w)	CBDA	TM-001 (HPLC-DAD)	Report	N/A
	CBN	TM-001 (HPLC-DAD)	Report	N/A
	CBDV	TM-001 (HPLC-DAD)	Report	0.13
	Other (Highest)	TM-001 (HPLC-DAD)	Report	0.23
	Total	TM-001 (HPLC-DAD)	Report	0.35
Total Cannabinoids (CBD plus total RCs, % w/w)	TM-001 (HPLC-DAD)	Report	99.61	N/A
Residual Solvents (ppm)	Pentane	TM-005 (HS-GC-FID)	≤ 500 ppm	175
	Acetone	TM-005 (HS-GC-FID)	≤ 500 ppm	ND
	Isopropyl Alcohol	TM-005 (HS-GC-FID)	≤ 500 ppm	< LOQ
	Hexane	TM-005 (HS-GC-FID)	≤ 25 ppm	< LOQ
Pesticides (Highest, ppm)	Individual Pesticide Content Test List <sup>2</sup>	LC-MS <sup>4</sup>	≤ LOQ <sup>3</sup>	< LOQ
Elemental Impurities (ppm)	Arsenic	ICP-MS <sup>4</sup>	< 1.5 ppm	< LOQ
	Cadmium	ICP-MS <sup>4</sup>	< 0.5 ppm	< LOQ
	Lead	ICP-MS <sup>4</sup>	< 1 ppm	< LOQ
	Mercury	ICP-MS <sup>4</sup>	< 1.5 ppm	< LOQ

<sup>1</sup>Number of replicates: 14

<sup>2</sup>TM-001 LOQ of 0.05% w/w for related cannabinoids.

<sup>3</sup>Full list of individual pesticide residues on file, Eurofins LOQ of 0.05 ppm for individual residues.

<sup>4</sup>Contract Testing performed by Eurofins BioDiagnostics.

## Prepared by

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*Joshua Cogell*

Signer Name: Joshua Cogell  
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 Signing Time: 5/23/2019 9:00:19 AM PDT

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## Quality Approval

DocuSigned by:

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Signer Name: Josh Harrelson  
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