

# Certificate of Analysis

Final Product: Cannabidiol Isolate

Lot Number: BL1903A-015



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%	98.6	Pass	
THC Content (% w/w)	THC cannabinoid	TM-001 (HPLC-DAD)	≤ LOQ <sup>2</sup>	ND	Pass
	THCA cannabinoid	TM-001 (HPLC-DAD)	≤ LOQ <sup>2</sup>	ND	Pass
Related Cannabinoid Content (%w/w)	CBDA cannabinoid	TM-001 (HPLC-DAD)	Report	ND	N/A
	CBN cannabinoid	TM-001 (HPLC-DAD)	Report	ND	N/A
	CBDV cannabinoid	TM-001 (HPLC-DAD)	Report	0.28	N/A
	Other (Highest)	TM-001 (HPLC-DAD)	Report	0.24	N/A
	Total	TM-001 (HPLC-DAD)	Report	0.53	N/A
Total Cannabinoids (CBD plus total RCs, % w/w)	TM-001 (HPLC-DAD)	Report	99.16	N/A	
Residual Solvents (ppm)	Pentane	TM-005 (HS-GC-FID)	≤ 500 ppm	143	Pass
	Acetone	TM-005 (HS-GC-FID)	≤ 500 ppm	ND	Pass
	Isopropyl Alcohol	TM-005 (HS-GC-FID)	≤ 500 ppm	<LOQ	Pass
	Hexane	TM-005 (HS-GC-FID)	≤ 25 ppm	<LOQ	Pass
Pesticides (Highest, ppm)	Individual Pesticide Content Test List <sup>3</sup>	LC-MS <sup>4</sup>	≤ LOQ <sup>3</sup>	<LOQ	Pass
Elemental Impurities (ppm)	Arsenic	ICP-MS <sup>4</sup>	< 1.5 ppm	ND	Pass
	Cadmium	ICP-MS <sup>4</sup>	< 0.5 ppm	ND	Pass
	Lead	ICP-MS <sup>4</sup>	< 1 ppm	<LOQ	Pass
	Mercury	ICP-MS <sup>4</sup>	< 1.5 ppm	ND	Pass

<sup>1</sup>Number of replicates: 19

<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**

Joshua Cogell

Print Name

Signature

4/11/19

Date

**Quality Approval**

Josh Harrelson

Print Name

Signature

04.11.19

Date