

# Certificate of Analysis

763850  
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Final Product: Cannabidiol isolate  
Date of Manufacture: January 2020

Lot Number: IL1912I-057A

MILE HIGH LABS®

Test	Methodology	Specification	Test Results (Average)*	Pass/Fail	
Visual	Color and Appearance	TM-004 (Visual)	White, crystalline powder free of particulates	Conforms	Pass
Cannabidiol 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	CBD(%w/w)	TM-001 (HPLC - DAD)	≥98 %w/w	98.1	Pass
THC Content	THC(%w/w)	TM-001 (HPLC - DAD)	≤0.05 %w/w <sup>†</sup>	ND	Pass
	THCA(%w/w)	TM-001 (HPLC - DAD)	≤0.05 %w/w <sup>†</sup>	ND	Pass
Related Cannabinoid Content	CBDA(%w/w)	TM-001 (HPLC - DAD)	Report	ND	NA
	CBN(%w/w)	TM-001 (HPLC - DAD)	Report	ND	NA
	CBDV(%w/w)	TM-001 (HPLC - DAD)	Report	0.268	NA
	CBG(%w/w)	TM-001 (HPLC - DAD)	Report	ND	NA
	Other (Highest RC)(%w/w)	TM-001 (HPLC - DAD)	Report	0.218	NA
	Total (RC)(%w/w)	TM-001 (HPLC - DAD)	Report	0.494	NA
Total Cannabinoids	(CBD plus total RCs)(%w/w)	TM-001 (HPLC - DAD)	Report	98.617	NA
Residual Solvents	Pentane(ppm)	TM-005 (HS-GC - FID)	≤500 ppm	114	Pass
	Acetone(ppm)	TM-005 (HS-GC - FID)	≤500 ppm	<LOQ	Pass
	Isopropyl Alcohol(ppm)	TM-005 (HS-GC - FID)	≤500 ppm	<LOQ	Pass
	Hexane(ppm)	TM-005 (HS-GC - FID)	≤25 ppm	<LOQ	Pass

\*Number of replicates: 22

†TM-001 LOQ of 0.05% w/w for related cannabinoids.

\*Full list of individual pesticide residues on file, Eurofins LOQ of 0.1 ppm for individual residues.

\*Contract Testing performed by Eurofins BioDiagnostics.

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BY: \_\_\_\_\_

Data Reviewed and Approved by: **Beth Grant**  
1/27/2020 3:44:48 PM

# Certificate of Analysis

Final Product: **Cannabidiol Isolate**  
 Date of Manufacture: **February 2020**

Lot Number: **IL20011-002B**

763850

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MILE HIGH LABS

Test	Methodology	Specification	Test Results (Average)*	Pass/Fail	
Visual	Color and Appearance	TM-004 (Visual)	White, crystalline powder free of particulates	Conforms	Pass
Cannabidiol 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	CBD(%w/w)	TM-001 (HPLC - DAD)	≥98 %w/w	98.7	Pass
THC Content	THC(%w/w)	TM-001 (HPLC - DAD)	≤0.05 %w/w <sup>1</sup>	ND	Pass
	THCA(%w/w)	TM-001 (HPLC - DAD)	≤0.05 %w/w <sup>1</sup>	ND	Pass
Related Cannabinoid Content	CBDA(%w/w)	TM-001 (HPLC - DAD)	Report	ND	NA
	CBN(%w/w)	TM-001 (HPLC - DAD)	Report	ND	NA
	CBDV(%w/w)	TM-001 (HPLC - DAD)	Report	0.234	NA
	CBG(%w/w)	TM-001 (HPLC - DAD)	Report	ND	NA
	Other (Highest RC)(%w/w)	TM-001 (HPLC - DAD)	Report	0.200	NA
	Total (RC)(%w/w)	TM-001 (HPLC - DAD)	Report	0.461	NA
Total Cannabinoids	(CBD plus total RCs)(%w/w)	TM-001 (HPLC - DAD)	Report	99.461	NA
Residual Solvents	Pentane(ppm)	TM-005 (HS-GC - FID)	≤500 ppm	162	Pass
	Acetone(ppm)	TM-005 (HS-GC - FID)	≤500 ppm	<LOQ	Pass
	Isopropyl Alcohol(ppm)	TM-005 (HS-GC - FID)	≤500 ppm	<LOQ	Pass
	Hexane(ppm)	TM-005 (HS-GC - FID)	≤25 ppm	<LOQ	Pass

\*Number of replicates: 16

<sup>1</sup>TM-001 LOQ of 0.05% w/w for related cannabinoids.

<sup>2</sup>Full list of individual pesticide residues on file, Eurofins LOQ of 0.1 ppm for individual residues.

<sup>3</sup>Contract Testing performed by Eurofins BioDiagnostics.



Data Reviewed and Approved by: **Beth Grant**  
 2/19/2020 4:22:38 PM