

763850
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MILE HIGH LABS™

Certificate of Analysis

Final Product: Cannabidiol Isolate
Date of Manufacture: August 2020

Lot Number: IL20081-016

Test	Methodology	Specification	Test Results (Average)*	Pass/Fail
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	99.1	Pass
THC Content	THC(%w/w) TM-001 (HPLC - DAD)	≤0.054 %w/w [†]	ND	Pass
	THCA(%w/w) TM-001 (HPLC - DAD)	≤ Limit of Quantification [†]	ND	Pass
	Total THC(%w/w) TM-001 (HPLC - DAD)	≤0.054 %w/w [†]	ND	Pass
Related Cannabinoid Content	CBN(%w/w) TM-001 (HPLC - DAD)	≤ Limit of Quantification [†]	<LOQ	Pass
	cis-THC(%w/w) TM-001 (HPLC - DAD)	≤ Limit of Quantification [†]	<LOQ	Pass
	delta 8-THC(%w/w) TM-001 (HPLC - DAD)	≤ Limit of Quantification [†]	ND	Pass
	THCV(%w/w) TM-001 (HPLC - DAD)	≤ Limit of Quantification [†]	ND	Pass
	THCVA(%w/w) TM-001 (HPLC - DAD)	≤ Limit of Quantification [†]	ND	Pass
	CBC(%w/w) TM-001 (HPLC - DAD)	Report	<LOQ	NA
	CBCA(%w/w) TM-001 (HPLC - DAD)	Report	ND	NA
	CBDA(%w/w) TM-001 (HPLC - DAD)	Report	ND	NA
	CBDVA(%w/w) TM-001 (HPLC - DAD)	Report	ND	NA
	CBDV(%w/w) TM-001 (HPLC - DAD)	Report	0.359	NA
	CBE(%w/w) TM-001 (HPLC - DAD)	Report	ND	NA
	CBGA(%w/w) TM-001 (HPLC - DAD)	Report	ND	NA
	CBG(%w/w) TM-001 (HPLC - DAD)	Report	ND	NA
	CBL(%w/w) TM-001 (HPLC - DAD)	Report	ND	NA
	CBLA(%w/w) TM-001 (HPLC - DAD)	Report	ND	NA
	CBT(%w/w) TM-001 (HPLC - DAD)	Report	ND	NA
	Total Unknowns(%w/w) TM-001 (HPLC - DAD)	Report	0.259	NA
	Total (Sum of all observed RCs known and unknown) (%w/w) TM-001 (HPLC - DAD)	Report	0.618	NA
	Total Cannabinoids (CBD plus total RCs) (%w/w) TM-001 (HPLC - DAD)	Report	99.660	NA
	Residual Solvents	Pentane(ppm) TM-005 (HS-GC - FID)	≤500 ppm	117
Acetone(ppm) TM-005 (HS-GC - FID)		≤500 ppm	<LOQ	Pass
Isopropyl Alcohol(ppm) TM-005 (HS-GC - FID)		≤500 ppm	<LOQ	Pass
Ethanol(ppm) TM-005 (HS-GC - FID)		≤500 ppm	<LOQ	Pass
Methanol(ppm) TM-005 (HS-GC - FID)		≤300 ppm	<LOQ	Pass
Hexane(ppm) TM-005 (HS-GC - FID)		≤25 ppm	<LOQ	Pass

*Number of replicates: 24
[†]TM-001 LOQ of 0.05% w/w for related cannabinoids.
[‡]Full table of individual pesticides and associated limits on file.
[§]Contract Testing performed by Eurofins BioDiagnostics.



Data Reviewed and Approved by: Tim Ghelli
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Certificate of Analysis

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

BY: _____
Lot Number: **IL2009I-019**



Test	Methodology	Specification	Test Results (Average)*	Pass/Fail
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	98.9	Pass
THC Content	THC(%w/w) TM-001 (HPLC - DAD)	≤0.054 %w/w ¹	<LOQ	Pass
	THCA(%w/w) TM-001 (HPLC - DAD)	≤ Limit of Quantification ¹	ND	Pass
	Total THC(%w/w) TM-001 (HPLC - DAD)	≤0.054 %w/w ¹	ND	Pass
Related Cannabinoid Content	CBN(%w/w) TM-001 (HPLC - DAD)	≤ Limit of Quantification ¹	ND	Pass
	cis-THC(%w/w) TM-001 (HPLC - DAD)	≤ Limit of Quantification ¹	ND	Pass
	delta 8-THC(%w/w) TM-001 (HPLC - DAD)	≤ Limit of Quantification ¹	ND	Pass
	THCV(%w/w) TM-001 (HPLC - DAD)	≤ Limit of Quantification ¹	ND	Pass
	THCVA(%w/w) TM-001 (HPLC - DAD)	≤ Limit of Quantification ¹	ND	Pass
	CBC(%w/w) TM-001 (HPLC - DAD)	Report	<LOQ	NA
	CBCA(%w/w) TM-001 (HPLC - DAD)	Report	ND	NA
	CBDA(%w/w) TM-001 (HPLC - DAD)	Report	ND	NA
	CBDVA(%w/w) TM-001 (HPLC - DAD)	Report	ND	NA
	CBDV(%w/w) TM-001 (HPLC - DAD)	Report	0.643	NA
	CBE(%w/w) TM-001 (HPLC - DAD)	Report	ND	NA
	CBGA(%w/w) TM-001 (HPLC - DAD)	Report	ND	NA
	CBG(%w/w) TM-001 (HPLC - DAD)	Report	ND	NA
	CBL(%w/w) TM-001 (HPLC - DAD)	Report	ND	NA
	CBLA(%w/w) TM-001 (HPLC - DAD)	Report	ND	NA
	CBT(%w/w) TM-001 (HPLC - DAD)	Report	<LOQ	NA
	Total Unknowns(%w/w) TM-001 (HPLC - DAD)	Report	0.269	NA
	Total (Sum of all observed RCs known and unknown) (%w/w) TM-001 (HPLC - DAD)	Report	0.913	NA
Total Cannabinoids (CBD plus total RCs)(%w/w) TM-001 (HPLC - DAD)	Report	99.794	NA	
Residual Solvents	Pentane(ppm) TM-005 (HS-GC - FID)	≤500 ppm	151	Pass
	Acetone(ppm) TM-005 (HS-GC - FID)	≤500 ppm	<LOQ	Pass
	Isopropyl Alcohol(ppm) TM-005 (HS-GC - FID)	≤500 ppm	<LOQ	Pass
	Ethanol(ppm) TM-005 (HS-GC - FID)	≤500 ppm	<LOQ	Pass
	Methanol(ppm) TM-005 (HS-GC - FID)	≤300 ppm	<LOQ	Pass
	Hexane(ppm) TM-005 (HS-GC - FID)	≤25 ppm	<LOQ	Pass

*Number of replicates: 18
¹TM-001 LOQ of 0.05% w/w for related cannabinoids.

*Full table of individual pesticides and associated limits on file.
*Contract Testing performed by Eurofins BioDiagnostics.

Data Reviewed and Approved by: Tim Ghelli
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Specification: FP001
Lot: 1L2009L-019

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