

Certificate of Analysis

Final Product: Cannabidiol Isolate
Date of Manufacture: February 2020

Lot Number: IL20011-004B



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	98.6	Pass
THC Content	THC(%w/w)	TM-001 (HPLC - DAD)	≤0.05 %w/w ¹	ND	Pass
	THCA(%w/w)	TM-001 (HPLC - DAD)	≤0.05 %w/w ¹	ND	Pass
	Total THC(%w/w)	TM-001 (HPLC - DAD)	Report ¹	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	0.285	NA
	CBG(%w/w)	TM-001 (HPLC - DAD)	Report	0.061	NA
	Total (RC)(%w/w)	TM-001 (HPLC - DAD)	Report	0.525	NA
Total Cannabinoids	(CBD plus total RCs)(%w/w)	TM-001 (HPLC - DAD)	Report	99.080	NA
Residual Solvents	Pentane(ppm)	TM-005 (HS-GC - FID)	≤500 ppm	216	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
Pesticides	Individual Pesticide Content (Report Highest) ²	LC-MS ³	Individual Pesticide Limit ¹	CONFORMS	Pass
Elemental Impurities	Arsenic(ppm)	LC-MS ³	<1.5 ppm	<LOQ	Pass
	Cadmium(ppm)	LC-MS ³	<0.5 ppm	<LOQ	Pass
	Lead(ppm)	LC-MS ³	<0.5 ppm	0.007	Pass
	Mercury(ppm)	LC-MS ³	<1.5 ppm	<LOQ	Pass
Mycotoxins	B1 (AFB1)(ppb)	USP<561> ³	≤2 ppb	<LOQ	Pass
	B2 (AFB2)(ppb)	USP<561> ³	≤0.5 ppb	<LOQ	Pass
	G1 (AFG1)(ppb)	USP<561> ³	≤0.5 ppb	<LOQ	Pass
	G2 (AFG2)(ppb)	USP<561> ³	≤0.5 ppb	<LOQ	Pass
	Total(ppb)	USP<561> ³	≤4 ppb	<LOQ	Pass

*Number of replicates: 9

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

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

³Contract Testing performed by Eurofins BioDiagnostics.

Data Reviewed and Approved by: **Beth Grant**
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