

Certificate of Analysis

Final Product: Cannabidiol Isolate
Date of Manufacture: March 2020

Lot Number: IL2002I-005B



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)	Report ¹	ND	Pass
	THCA(%w/w)	TM-001 (HPLC - DAD)	Report ¹	ND	Pass
	Total THC(%w/w)	TM-001 (HPLC - DAD)	Report ¹	ND	Pass
Related Cannabinoid Content	CBN(%w/w)	TM-001 (HPLC - DAD)	Report ¹	ND	Pass
	cis-THC(%w/w)	TM-001 (HPLC - DAD)	Report ¹	ND	Pass
	delta 8-THC(%w/w)	TM-001 (HPLC - DAD)	Report ¹	ND	Pass
	THCV(%w/w)	TM-001 (HPLC - DAD)	Report ¹	ND	Pass
	THCVA(%w/w)	TM-001 (HPLC - DAD)	Report ¹	ND	Pass
	CBC(%w/w)	TM-001 (HPLC - DAD)	Report	ND	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	<LOQ	NA
	CBDV(%w/w)	TM-001 (HPLC - DAD)	Report	0.289	NA
Total Cannabinoids	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	<LOQ	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	0.212	NA
	Total (Sum of all observed RCs known and unknown) (%w/w)	TM-001 (HPLC - DAD)	Report	0.499	NA
	(CBD plus total RCs)(%w/w)	TM-001 (HPLC - DAD)	Report	99.562	NA
	Residual Solvents	Pentane(ppm)	TM-005 (HS-GC - FID)	≤500 ppm	136
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 (ppm) ²	TM-011 (LC-MS)	Individual Pesticide Limit ²	CONFORMS	Pass

*Number of replicates: 24

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

²Full table of individual pesticides and associated limits on file.

³Contract Testing performed by Eurofins BioDiagnostics.

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