

Certificate of Analysis

Final Product: Cannabidiol Isolate
Date of Manufacture: 08/2019

Lot Number: IL1908I-043A



Test	Methodology	Specification	Test Results (Average) ¹	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%	98.7	Pass	
THC Content (% w/w)	THC	TM-001 (HPLC-DAD)	≤ LOQ ²	ND	Pass
	THCA	TM-001 (HPLC-DAD)	≤ LOQ ²	ND	Pass
Related Cannabinoid Content (%w/w)	CBDA	TM-001 (HPLC-DAD)	Report	ND	NA
	CBN	TM-001 (HPLC-DAD)	Report	ND	NA
	CBDV	TM-001 (HPLC-DAD)	Report	0.30	NA
	CBG	TM-001 (HPLC-DAD)	Report	ND	NA
	Other (Highest)	TM-001 (HPLC-DAD)	Report	0.26	NA
	Total	TM-001 (HPLC-DAD)	Report	0.56	NA
Total Cannabinoids (CBD plus total RCs, % w/w)	TM-001 (HPLC-DAD)	Report	99.22	NA	
Residual Solvents (ppm)	Pentane	TM-005 (HS-GC-FID)	≤ 500 ppm	117	Pass
	Acetone	TM-005 (HS-GC-FID)	≤ 500 ppm	< LOQ	Pass
	Isopropyl Alcohol	TM-005 (HS-GC-FID)	≤ 500 ppm	< LOQ	Pass
	Hexane	TM-005 (HS-GC-FID)	≤ 25 ppm	ND	Pass
Pesticides (Highest, ppm)	Individual Pesticide Content Test List ³	LC-MS ⁴	≤ LOQ ³	< LOQ	Pass
Elemental Impurities (ppm)	Arsenic	ICP-MS ⁴	< 1.5 ppm	< LOQ	Pass
	Cadmium	ICP-MS ⁴	< 0.5 ppm	< LOQ	Pass
	Lead	ICP-MS ⁴	< 0.5 ppm	< LOQ	Pass
	Mercury	ICP-MS ⁴	< 1.5 ppm	< LOQ	Pass

¹Number of replicates: 15

²TM-001 LOQ of 0.05% w/w for related cannabinoids.

³Full list of individual pesticide residues on file, Eurofins LOQ of 0.05 ppm for individual residues.

⁴Contract Testing performed by Eurofins BioDiagnostics.

Prepared by

DocuSigned by:



Signer Name: Vanessa Johnson
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Quality Approval

DocuSigned by:

Beth Grant

Signer Name: Beth Grant
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