

Certificate of Analysis

Final Product: Tincture - Cannabidiol Isolate

Lot Number: PL1904F-016B

Test	Methodology	Specification	Test Results (Average)*	Pass/Fail
Color and Appearance - Product	TM-004 (Visual)	Clear or yellow to orange/red clear, flowing, liquid free of particulates	Conforms	Pass
Aroma/Odor	TM-004 (Organoleptic)	Prominent labeled aroma	Conforms	Pass
Flavor	TM-004 (Organoleptic)	Prominent labeled taste	Conforms	Pass
CBD Identification	TM-003 (DAD Retention Time)	Retention time of the primary peak in sample chromatogram matches that in the analytical reference standard.	Conforms	Pass
	TM-003 (DAD UV Spectrum)	UV Spectrum of the primary peak in sample chromatogram matches that in the analytical reference standard.	Conforms	Pass
CBD Content Assay (% of label claim)	TM-003 (HPLC-DAD)	90.0 - 110.0%	100.4	Pass
THC Content (% w/w)	THC	TM-003 (HPLC-DAD)	Report	N/A
	THCA	TM-003 (HPLC-DAD)	Report	N/A
	Total THC	TM-003 (HPLC-DAD)	≤ 0.003%	0.002 Pass
Related Cannabinoid Content (% w/w)	CBDA	TM-003 (HPLC-DAD)	Report	ND N/A
	CBN	TM-003 (HPLC-DAD)	Report	ND N/A
	CBDV	TM-003 (HPLC-DAD)	Report	0.009 N/A
	Other (Highest)	TM-003 (HPLC-DAD)	Report	0.032 N/A
	Total	TM-003 (HPLC-DAD)	Report	0.070 N/A
Total Cannabinoids (CBD plus total RCs, % w/w)	TM-003 (HPLC-DAD)	Report	3.531	N/A
Pesticides (Highest, ppm)	Individual Pesticide Content Test List†	LC-MS‡	Conforms‡	< LOQ Pass
Elemental Impurities (ppm)	Arsenic	ICP-MS‡	< 1.5 ppm	< LOQ Pass
	Cadmium	ICP-MS‡	< 0.5 ppm	< LOQ Pass
	Lead	ICP-MS‡	< 1 ppm	< LOQ Pass
	Mercury	ICP-MS‡	< 1.5 ppm	< LOQ Pass

* Number of replicates: 3

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

‡ Contract Testing performed by Eurofins BioDiagnostics.

Prepared by

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Joshua Cogell

Signer Name: Joshua Cogell
 Signing Reason: I am the author of this document
 Signing Time: 5/22/2019 10:31:16 AM PDT

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Quality Approval

DocuSigned by:

Josh Harrelson

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