

# Certificate of Analysis

Final Product: 20% CBD Isolate Water Soluble

Lot Number: BB1912B-122

Date of Manufacture: 12/2019

Test	Methodology	Specification	Test Results (Average) <sup>1</sup>	Pass / Fail	
Color and Appearance	TM-004 (Visual)	Opaque, Off-white to tan, flowing solution	Conforms	Pass	
CBD Identification	TM-008 (DAD Retention Time)	Retention time of the primary peak in sample chromatogram matches that in the analytical reference standard.	Conforms	Pass	
	TM-008 (DAD UV Spectrum)	UV Spectrum of the primary peak in sample chromatogram matched that in the analytical reference standard.	Conforms	Pass	
CBD Potency	(% w / w)	TM-008 (HPLC – DAD)	Report	19.934	N/A
	(% of label claim)	TM-008 (HPLC – DAD)	90.0 - 110.0%	99.668	Pass
THC Content (% w / w)	THC	TM-008 (HPLC – DAD)	Report	0.010	N/A
	THCA	TM-008 (HPLC – DAD)	Report	ND	N/A
	Total THC	TM-008 (HPLC – DAD)	≤ 0.050%	0.010	Pass
Related Cannabinoid Content (% w / w)	CBDA	TM-008 (HPLC – DAD)	Report	ND	N/A
	CBN	TM-008 (HPLC – DAD)	Report	ND	N/A
	CBG	TM-008 (HPLC – DAD)	Report	ND	N/A
	CBDV	TM-008 (HPLC – DAD)	Report	0.006	N/A
	Other (Highest)	TM-008 (HPLC – DAD)	Report	0.060	N/A
Total Cannabinoids (CBD plus total RCs, % w/w)	TM-008 (HPLC – DAD)	Report	20.091	N/A	
Preservative Content	Sodium Benzoate (% w / w)	TM-007 (HPLC – DAD)	Report	0.099	N/A
	Sodium Benzoate (% of target)	TM-007 (HPLC – DAD)	70.0 - 130.0%	99.0	Pass
Pesticides (Highest, ppm)	Individual Pesticide Content Test List <sup>2</sup>	LC-MS <sup>3</sup>	≤ LOQ <sup>2</sup>	< LOQ	Pass
	Arsenic	ICP-MS <sup>3</sup>	< 1.0 ppm	0.016	Pass
Elemental Impurities (ppm)	Cadmium	ICP-MS <sup>3</sup>	< 0.4 ppm	< LOQ	Pass
	Lead	ICP-MS <sup>3</sup>	< 0.5 ppm	0.033	Pass
	Mercury (Total)	ICP-MS <sup>3</sup>	< 0.2 ppm	< LOQ	Pass

<sup>1</sup>Number of Replicates 3

<sup>2</sup>Full list of individual pesticide residues on file, Eurofins LOQ of 0.1 ppm for individual residues

<sup>3</sup>Contract Testing performed by Eurofins BioDiagnostics

## Prepared By

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## Quality Approval

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