

Certificate of Analysis

Final Product: Tincture - Hemp Oil Distillate

Flavor: Blood Orange

Strength: 500 mg

Lot Number: PL1905F-028

Date of Manufacture: 6/2019

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%	102.0	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)	≤ 0.3%	0.037 Pass
Related Cannabinoid Content (% w/w)	CBDA	TM-003 (HPLC-DAD)	Report	ND N/A
	CBN	TM-003 (HPLC-DAD)	Report	0.005 N/A
	CBDV	TM-003 (HPLC-DAD)	Report	0.008 N/A
	CBG	TM-003 (HPLC-DAD)	Report	0.011 N/A
	Other (Highest)	TM-003 (HPLC-DAD)	Report	0.075 N/A
	Total	TM-003 (HPLC-DAD)	Report	0.227 N/A
Total Cannabinoids (CBD plus total RCs, % w/w)	TM-003 (HPLC-DAD)	Report	1.986	N/A
Pesticides (Highest, ppm)	Individual Pesticide Content Test List†	LC-MS‡	Conforms†	Conforms Pass
	Arsenic	ICP-MS‡	< 1.5 ppm	0.035 Pass
	Cadmium	ICP-MS‡	< 0.5 ppm	ND Pass
	Lead	ICP-MS‡	< 0.5 ppm	0.010 Pass
	Mercury	ICP-MS‡	< 1.5 ppm	0.002 Pass

* Number of replicates: 4

† Full list of individual pesticide residues on file, Micro Quality Labs, Inc. LOQ of 0.05ppm - 4 ppm for individual residues.

‡ Contract Testing performed by Micro Quality Labs, Inc.

Prepared by

DocuSigned by:

Beth Grant



Signer Name: Beth Grant
Signing Reason: I am the author of this document
Signing Time: 9/9/2019 | 3:59:09 PM PDT

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Quality Approval

DocuSigned by:

JH



Signer Name: Josh Harrelson
Signing Reason: I approve this document
Signing Time: 9/10/2019 | 8:19:39 AM PDT

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