



Report Status: **RELEASED**
Report Date: **06/05/2020**

CERTIFICATE OF ANALYSIS

Sante Sample ID: **20A441**

Page 1 of 2

Company Name: Lama Herbal Solutions Phone Number: 513-557-8355	Contact Name: Laura McCarthy Contact Email: Lamaherbalsolutions@gmail.com Purchase Order Number: NA
Sample Name: 1000 mg Isolate Sample Lot Number: PL1906F040 Sample Received: 06/01/2020	Sample/Product Description: Oil Inside Amber Glass Container. Sample/Product Type: CBD Isolate Sample Matrix: Food/Edible, Oil

ANALYSIS	TEST METHOD	LOQ	SPECIFICATIONS	RESULTS	PASS/NO PASS
Cannabinoids Screen					
CBD	UHPLC-DAD	0.002 w/w%	w/w%: Report Only	3.385 w/w%	Results Reported
			mg/g: Report Only	33.850 mg/g	Results Reported
			% Label Claim: 90 – 110%	101.5%	PASS
			Label Claim: 900 – 1,000 mg/Unit	1015.49 mg/Unit	PASS
CBDa		0.002 w/w%	w/w%: Report Only mg/g: Report Only	ND ND	N/A
Δ9-THC		0.002 w/w%	w/w%: NMT 0.3	ND	PASS
			mg/g: NMT 3	ND	PASS
THCa		0.002 w/w%	w/w%: Report Only mg/g: Report Only	ND ND	N/A
CBGa	0.002 w/w%	w/w%: Report Only mg/g: Report Only	0.0297 w/w% 0.297 mg/g	Results Reported	
CBG	0.002 w/w%	w/w%: Report Only mg/g: Report Only	ND ND	N/A	
CBN	0.002 w/w%	w/w%: Report Only mg/g: Report Only	ND ND	N/A	

Product Pictures



For any questions related to this Certificate of Analysis please contact Customer Service at 512-800-9117 Released and Prepared by Sante Laboratories, LLC. Reported results refer exclusively to items tested.

THIS CERTIFICATED MAY NOT BE REPRODUCED PARTIALLY WITHOUT WRITTEN PERMISSION BY SANTE LABORATORIES, LLC.

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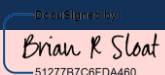
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TESTING FACILITY INFORMATION	SAMPLE INFORMATION
Sante Laboratories, LLC. Hemp Testing Laboratory 8201 East Riverside Drive, Suite 650 Austin, Texas 78744 USA	Sante Sample ID: 20A441 Receipt Date: 06/01/2020 / 12:30 PM / S ORTEGA Receipt Condition: Good Start Date: 06/02/2020

QUALITY ASSURANCE	
Signature:  <small>51277B7C6FDA460...</small>	Date: 5 June 2020
Name: Brian R. Sloat, Ph.D.	Title: Quality Manager

ADDITIONAL REPORT NOTES

Test method have been validated to meet regulatory standards. Total Potential THC = (THCa x 0.877) + (Δ 9THC) + (Δ 8THC). Total Potential CBD = (CBDa x 0.877) + (CBD). Total Cannabinoids is summation of all tested and detectable cannabinoids. Samples are gravimetrically prepared using qualified balances that are calibrated annually by Mettler-Toledo using NIST-traceable weights. Verification of calibration is performed routinely (e.g. weekly) using NIST-traceable to ensure safe and accurate weighting processes between manufacture performed calibration. Individual balances have been assigned minimum weights taking into consideration the balance and environmental conditions to ensure weighting complies with acceptable tolerances. Cannabinoids for hemp flower and trim is analyzed and reported as received unless requested otherwise. Unless otherwise specified, all QC samples performed within specifications established using validated test methods. Reported results refer exclusive to items tested and have been tested by Sante Laboratories, unless specified otherwise. Test analysis was performed by an ISO/IEC 17025:2017 accredited laboratory. **Note, a density of 0.93 grams/mL was used to calculate mg of CBD per Unit.**

VERSION HISTORY

Version	Effective Date	Summary of Changes
00	06/05/2020	Initial Release

LEGE ID KEY

N/A: Not Applicable	LNCR: Laboratory Non-Conformance Report
ND: Not Detected	RP-UHPLC-DAD: Reverse Phase Ultra High-Performance Liquid Chromatography with Diode Array Detector
NMT: No More Than	MS/MS: Mass Spectroscopy (Quadrupole)
NLT: No Less Than	PPM: Parts Per Million
LOD: Limit of Detection	PPB: Parts Per Billion
LOQ: Limit of Quantitation	DLS: Dynamic Light Scattering
LFIR: Laboratory Failure Investigation Report	MG: Milligrams
RT: Retention Time	G: Grams
RRT: Relative Retention Time	MCG: Micrograms
USP: United States Pharmacopeia	NM: Nanometers
ID: Identification	PDI: Polydispersity Index
CV: Coefficient of Variation	ML: Milliliters
CFU: Colony Forming Units	ISO: International Organization for Standardization
LR: Lot Release	

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Certificate of Analysis

Final Product: Tincture - Cannabidiol Isolate

Flavor: Peppermint

Strength: 1000 mg

Lot Number: PL1906F-040

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%	99.3	Pass
THC Content (% w/w)	THC	TM-003 (HPLC-DAD)	Report	0.011	N/A
	THCA	TM-003 (HPLC-DAD)	Report	ND	N/A
	Total THC	TM-003 (HPLC-DAD)	≤ 0.05%	0.011	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	0.008	N/A
	CBG	TM-003 (HPLC-DAD)	Report	ND	N/A
	Other (Highest)	TM-003 (HPLC-DAD)	Report	0.005	N/A
	Total	TM-003 (HPLC-DAD)	Report	0.035	N/A
Total Cannabinoids (CBD plus total RCs, % w/w)		TM-003 (HPLC-DAD)	Report	3.460	N/A
Pesticides (Highest, ppm)	Individual Pesticide Content Test List†	LC-MS‡	Conforms†	Conforms	Pass
Elemental Impurities (ppm)	Arsenic	ICP-MS‡	< 1.5 ppm	0.042	Pass
	Cadmium	ICP-MS‡	< 0.5 ppm	ND	Pass
	Lead	ICP-MS‡	< 0.5 ppm	ND	Pass
	Mercury	ICP-MS‡	< 1.5 ppm	0.002	Pass

* Number of replicates: 3

† Full list of individual pesticide residues on file, Micro Quality Labs, Inc. LOQ of 0.05 ppm - 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 | 3:26:34 PM PDT

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Quality Approval

DocuSigned by:

Josh Harrelson

Signer Name: Josh Harrelson
 Signing Reason: I approve this document
 Signing Time: 9/10/2019 | 8:43:26 AM PDT

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