



CERTIFICATE OF ANALYSIS

Analysis ID No. 20A594

TDA License No. 2020002

ISO/IEC No. 1055838 STATUS: **RELEASED** REVISION: 00

DATE: 07/03/2020

Purchase Order: Page No.

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CUSTOMER SAMPLE INFORMATION	
Submitted Sample Name:	
	BB1911B-102
Submitted Sample Lot:	
	BB1911B-102
Submitted Sample Description:	
	CBD Tincture / 30 mL Amber Bottle with Dropper
Submitted Sample Product Type / Matrix:	
	Emulsion

CANNABINOID SCREEN					
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / No Pass
CBD	UHPLC-DAD	0.0032 w/w%	w/w%: Report Only mg/g: Report Only	5.472 w/w% 54.718 mg/g	Results Reported
CBDa	UHPLC-DAD	0.0032 w/w%	w/w%: Report Only mg/g: Report Only	ND	Results Reported
Δ ⁹ -THC	UHPLC-DAD	0.0032 w/w%	w/w%: Report Only mg/g: Report Only	0.044 w/w% 0.437 mg/g	Results Reported
THC-A	UHPLC-DAD	0.0032 w/w%	w/w%: Report Only mg/g: Report Only	ND	Results Reported
CBG-A	UHPLC-DAD	0.0032 w/w%	w/w%: Report Only mg/g: Report Only	ND	Results Reported
CBG	UHPLC-DAD	0.0032 w/w%	w/w%: Report Only mg/g: Report Only	0.014 w/w% 0.1427 mg/g	Results Reported
CBN	UHPLC-DAD	0.0032 w/w%	w/w%: Report Only mg/g: Report Only	0.007 w/w% 0.0674 mg/g	Results Reported
CBC	UHPLC-DAD	0.0032 w/w%	w/w%: Report Only mg/g: Report Only	0.102 w/w% 1.0235 mg/g	Results Reported
CBC-A	UHPLC-DAD	0.0032 w/w%	w/w%: Report Only mg/g: Report Only	ND	Results Reported

Santé Laboratories, LLC - 8201 East Riverside Drive, STE 650, Austin, Texas 78744 USA

Email: Testing@santelabs.com - Telephone: 512-309-5830 - Website: www.santelabs.com

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CBL	UHPLC-DAD	0.0032 w/w%	w/w%: Report Only mg/g: Report Only	ND	Results Reported
CBDV	UHPLC-DAD	0.0032 w/w%	w/w%: Report Only mg/g: Report Only	0.017 w/w% 0.1700 mg/g	Results Reported
CBDV-A	UHPLC-DAD	0.0032 w/w%	w/w%: Report Only mg/g: Report Only	ND	Results Reported
Δ8-THC	UHPLC-DAD	0.0032 w/w%	w/w%: Report Only mg/g: Report Only	ND	Results Reported
THCV	UHPLC-DAD	0.0032 w/w%	w/w%: Report Only mg/g: Report Only	ND	Results Reported
THCV-A	UHPLC-DAD	0.0032 w/w%	w/w%: Report Only mg/g: Report Only	ND	Results Reported

% LABEL CLAIM					
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / No Pass
CBD	UHPLC-DAD	0.0032 w/w%	w/w%: 4.5 to 5.5	5.472 w/w%	PASS
CBD	UHPLC-DAD	0.0032 w/w%	mg/g: 45.0 to 55.0	54.718 mg/g	PASS
CBD	UHPLC-DAD	0.0032 w/w%	mg/mL: 45.0 – 55.0	54.723 mg/mL	PASS
CBD	UHPLC-DAD	0.0032 w/w%	% Label Claim: 90.0 to 110.0% Target 50 mg/mL	109.4%	PASS
Density (experimentally determined): 1.0001 g/mL					

TOTAL THC					
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / No Pass
Δ9-THC	UHPLC-DAD	0.0032 w/w%	w/w%: NMT 0.30 mg/g: NMT 3.0 (Δ9-THC States Only)	0.044 w/w% 0.4369 mg/g	PASS

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THC-A	UHPLC-DAD	0.0032 w/w%	w/w%: Report Only mg/g: Report Only	ND ND	Results Reported
Total THC	UHPLC-DAD	0.0032 w/w%	w/w%: NMT 0.3 mg/g: 3.0	0.044 w/w% 0.4369 mg/g	PASS
Total Potential THC = (THC-A x 0.877) + (∅9-THC)					

HEAVY METALS

Analysis	Test Method	LOQ	Specifications	Test Results	Pass / No Pass
Arsenic	ICP-MS by USP<232/233>	10 ppb	15 mcg/day	ND	PASS
Cadmium	ICP-MS by USP<232/233>	5 ppb	5 mcg/day	ND	PASS
Mercury	ICP-MS by USP<232/233>	10 ppb	30 mcg/day	ND	PASS
Lead	ICP-MS by USP<232/233>	10 ppb	5 mcg/day	0.237 mcg/day	PASS
Permitted Daily Exposure (PDE) Based on Serving Size of 25 mg/day or 0.5 mL (Oral)					

TERPENE SCREEN

Analysis	Test Method	LOQ	Specifications	Test Results	Pass / No Pass
a-Pinene	GC-FID	0.005 w/w%	w/w%: Report Only mg/g: Report Only	ND	Results Reported
Camphene	GC-FID	0.005 w/w%	w/w%: Report Only mg/g: Report Only	ND	Results Reported
b-Myrcene	GC-FID	0.005 w/w%	w/w%: Report Only mg/g: Report Only	ND	Results Reported
b-Pinene	GC-FID	0.005 w/w%	w/w%: Report Only mg/g: Report Only	ND	Results Reported
TERPENE SCREEN					
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / No Pass

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3-Carene	GC-FID	0.005 w/w%	w/w%: Report Only mg/g: Report Only	ND	Results Reported
a-Terpinene	GC-FID	0.005 w/w%	w/w%: Report Only mg/g: Report Only	ND	Results Reported
E-Ocimene	GC-FID	0.005 w/w%	w/w%: Report Only mg/g: Report Only	ND	Results Reported
D-Limonene	GC-FID	0.003 w/w%	w/w%: Report Only mg/g: Report Only	ND	Results Reported
p-Cymene	GC-FID	0.005 w/w%	w/w%: Report Only mg/g: Report Only	ND	Results Reported
Z-Ocimene	GC-FID	0.003 w/w%	w/w%: Report Only mg/g: Report Only	ND	Results Reported
Eucalyptol	GC-FID	0.005 w/w%	w/w%: Report Only mg/g: Report Only	ND	Results Reported
γ-Terpinene	GC-FID	0.005 w/w%	w/w%: Report Only mg/g: Report Only	ND	Results Reported
Terpinolene	GC-FID	0.005 w/w%	w/w%: Report Only mg/g: Report Only	ND	Results Reported
Linalool	GC-FID	0.005 w/w%	w/w%: Report Only mg/g: Report Only	ND	Results Reported
Isopulegol	GC-FID	0.005 w/w%	w/w%: Report Only mg/g: Report Only	ND	Results Reported
Geraniol	GC-FID	0.005 w/w%	w/w%: Report Only mg/g: Report Only	ND	Results Reported
b-Caryophyllene	GC-FID	0.005 w/w%	w/w%: Report Only mg/g: Report Only	ND	Results Reported
Humulene	GC-FID	0.003 w/w%	w/w%: Report Only mg/g: Report Only	ND	Results Reported
cis-Nerolidol	GC-FID	0.003 w/w%	w/w%: Report Only mg/g: Report Only	ND	Results Reported

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trans-Nerolidol	GC-FID	0.005 w/w%	w/w%: Report Only mg/g: Report Only	ND	Results Reported
a-Bisabolol	GC-FID	0.005 w/w%	w/w%: Report Only mg/g: Report Only	ND	Results Reported
a-Pinene	GC-FID	0.005 w/w%	w/w%: Report Only mg/g: Report Only	0.139 w/w%	Results Reported

MICROBIOLOGICAL

Analysis	Test Method	LOQ	Specifications	Test Results	Pass / No Pass
Total Aerobic Plate Count	Chromogenic Plates	40 CFU/gm	100,000 CFU/gm	ND	PASS
Total Yeast & Mold	Chromogenic Plates	40 CFU/gm	10,000 CFU/gm	ND	PASS
Total Enterobacteriaceae	Chromogenic Plates	40 CFU/gm	1,000 CFU/gm	ND	PASS
Total Coliforms	Chromogenic Plates	40 CFU/gm	1,000 CFU/gm	ND	PASS
Salmonella	Chromogenic Plates	40 CFU/gm	Absent	Absent	PASS
Escherichia coli (E.coli)	Chromogenic Plates	40 CFU/gm	Absent	Absent	PASS

TESTING FACILITY INFORMATION	SAMPLE INFORMATION
Santé Laboratories 8201 East Riverside Drive, STE 650 Austin, Texas 78744 USA	Santé Sample ID: 20A594 Receipt Date: 06/24/2020 / 11:28 AM CST / S. ORTEGA Receipt Condition: Good Analysis Start Date: 06/25/2020

ADDITIONAL REPORT NOTES

The reported results presented in this document is only applicable to samples submitted to Santé Laboratories for testing and may not represent the entire lot and/or batch produced by the manufacturer.

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VERSION HISTORY		
Version	Effective Date	Summary of Changes
00	07/03/2020	Initial Release



REVIEWED AND APPROVED BY	
<p>DocuSigned by:  54377B7C6F5A169</p> <hr/> <p>Brian Sloat, Ph.D. Chief Scientific Officer / Quality Manager Santé Laboratories</p>	<p>7/3/2020</p> <hr/> <p>Date</p> <p style="text-align: right;">DD-MM-YY</p>

Certificate of Analysis

Final Product: 10% CBD Broad Spectrum Water Soluble

Lot Number: BB1911B-102

Date of Manufacture: 12/2019

Test	Methodology	Specification	Test Results (Average) ¹	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	10.122	N/A
	(% of label claim)	TM-008 (HPLC – DAD)	90.0 - 110.0%	101.218	Pass
THC Content (% w / w)	THC	TM-008 (HPLC – DAD)	Report	0.104	N/A
	THCA	TM-008 (HPLC – DAD)	Report	ND	N/A
	Total THC	TM-008 (HPLC – DAD)	≤ 0.200%	0.104	Pass
	CBDA	TM-008 (HPLC – DAD)	Report		N/A
	CBN	TM-008 (HPLC – DAD)	Report	0.013	N/A
	CBG	TM-008 (HPLC – DAD)	Report	0.027	N/A
	CBDV	TM-008 (HPLC – DAD)	Report	0.036	N/A
				ND	
Related Cannabinoid Content (% w / w)					
	Other (Highest)	TM-008 (HPLC – DAD)	Report	0.079	N/A
	Total	TM-008 (HPLC – DAD)	Report	0.688	N/A
Total Cannabinoids (CBD plus total RCs, % w/w)		TM-008 (HPLC – DAD)	Report	10.810	N/A
Preservative Content	Sodium Benzoate (% w / w)	TM-007 (HPLC – DAD)	Report	0.100	N/A
	Sodium Benzoate (% of target)	TM-007 (HPLC – DAD)	70.0 - 130.0%	99.667	Pass
Pesticides (Highest, ppm)	Individual Pesticide Content Test List ²	LC-MS ³	≤ LOQ ²	< LOQ	Pass
	Arsenic	ICP-MS ³	< 1.0 ppm	< LOQ	Pass
Elemental Impurities (ppm)	Cadmium	ICP-MS ³	< 0.4 ppm	< LOQ	Pass
	Lead	ICP-MS ³	< 0.5 ppm	0.016	Pass
	Mercury (Total)	ICP-MS ³	< 0.2 ppm	< LOQ	Pass

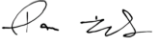
¹Number of Replicates 3

²Full list of individual pesticide residues on file, Eurofins LOQ of 0.05 ppm for individual residues

³Contract Testing performed by Eurofins BioDiagnostics

Prepared By

DocuSigned by:




Signer Name: Danae Burgess
Signing Reason: I am the author of this document
Signing Time: 12/30/2019 | 4:24:16 PM PST

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Quality Approval

DocuSigned by:



Signer Name: Beth Grant
Signing Reason: I approve this document
Signing Time: 1/3/2020 | 10:31:43 AM PST

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