



CERTIFICATE OF ANALYSIS

Report Status: **RELEASED**Report Date: **06/05/2020**Sante Sample ID: **20A444**

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: 250 mg Cream Sample Lot Number: 9301 A Sample Received: 06/01/2020	Sample/Product Description: Cram In Glass Jar Sample/Product Type: CBD Isolate Sample Matrix: Topical/Cosmetic

ANALYSIS	TEST METHOD	LOQ	SPECIFICATIONS	RESULTS	PASS/NO PASS
Cannabinoids Screen					
CBD	UHPLC-DAD	0.002 w/w%	w/w%: Report Only	1.6301 mg/g	Results Reported
			mg/g: Report Only	16.301 mg/g	Results Reported
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	ND ND	N/A
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



TESTING FACILITY INFORMATION

Sante Laboratories, LLC.
Hemp Testing Laboratory
8201 East Riverside Drive, Suite 650
Austin, Texas 78744 USA

SAMPLE INFORMATION

Sante Sample ID: **20A444**
Receipt Date: **06/01/2020 / 12:30 PM / S ORTEGA**
Receipt Condition: **Good**
Start Date: **06/02/2020**

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.

DocuSign Envelope ID: 20C8BC23-1314-4546-B071-AEBB2D56F314

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

Sante Sample ID: **20A444**

Page 2 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: **250 mg Cream**
Sample Lot Number: **9301 A**
Sample Received: **06/01/2020**

Sample/Product Description: **Cram In Glass Jar**
Sample/Product Type: **CBD Isolate**
Sample Matrix: **Topical/Cosmetic**

QUALITY ASSURANCE

Signature: _____

DocuSigned by

Brian R Sloat

51277B7C6FDA460...

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) + (Δ9THC) + (Δ8THC). 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.

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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CBD Cream 1oz Airless Pump

FARM BILL
COMPLIANTSAMPLE ID
149261SAMPLE NAME
CBD Cream 1oz Airless PumpMATRIX
TopicalBATCH ID
9301ACOLLECTED
11/05/2019 11:18RECEIVED
11/05/2019 11:18SERVING SIZE
1SERVINGS PER PACKAGE
1**TOTAL
CBD****304.2**
MG PER SERVING**TOTAL
THC****ND**
MG PER SERVING**TOTAL
CANNABINOIDS****307.8**
MG PER SERVING**Chemical Residue**

No Analytes Detected

**Chemical Residue GC**

No Analytes Detected

**Microbial Plating**

No Analytes Detected

Heavy Metals

Lead: <LLOQ

**Water Activity**

aW: 0.9968 aw



Indicates that the hemp product passes
some of the strictest testing standards available
for cannabis and hemp.



1801 Carnegie Ave, Santa Ana CA 92705
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www.cannalysislabs.com

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REPORT ID: COA-00049312 | Exp: 11/22/2020
ISO/IEC 17025:2005 Accredited | #93948

CANNABINOID ANALYSIS

! Total THC,CBD value(s) have been decarboxylated.

TOTAL THC: ND per serving (ND) (ND)
 TOTAL CBD: 304.2 mg per serving (10.29 mg/g) (1.029 %)
 TOTAL CANNABINOIDS: 307.8 mg per serving (10.41 mg/g) (1.041 %)

UNIT OF MEASUREMENT: Milligrams per Gram(mg/g)

ANALYTE	RESULT	LOD	LLOQ	ANALYTE	RESULT	LOD	LLOQ
THCa	ND	0.0100	0.0250	CBDv	0.1215 mg/g (0.0122 %)	0.0100	0.0250
D9THC	ND	0.0100	0.0250	CBGa	ND	0.0100	0.0250
D8THC	ND	0.0100	0.0250	CBG	ND	0.0100	0.0250
THCv	ND	0.0100	0.0250	CBN	ND	0.0100	0.0250
CBDa	ND	0.0100	0.0250	CBC	ND	0.0100	0.0250
CBD	10.29 mg/g (1.029 %)	0.0100	0.0250				

ADDITIONAL INFORMATION

Method: SOP-TECH-001
 Instrument: UPLC-DAD

Sample Prepped 11/06/2019 14:48
 Sample Analyzed 11/06/2019 14:49

Sample Approved 11/07/2019 15:29

CHEMICAL RESIDUE ANALYSIS

UNIT OF MEASUREMENT: Micrograms per Gram(ug/g)

ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL	ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL
Abamectin	ND	0.0200	0.0400	0.3000	Acephate	ND	0.0200	0.0400	5.000
Acequinocyl	ND	0.0200	0.0400	4.000	Acetamiprid	ND	0.0200	0.0400	5.000
Aldicarb	ND	0.0200	0.0400	0.0	Azoxystrobin	ND	0.0200	0.0400	40.00
Bifenazate	ND	0.0200	0.0400	5.000	Bifenthrin	ND	0.0200	0.0400	0.5000
Boscalid	ND	0.0200	0.0400	10.00	Carbaryl	ND	0.0200	0.0400	0.5000
Carbofuran	ND	0.0200	0.0400	0.0	Chlorantraniliprole	ND	0.0200	0.0400	40.00
Chlorfenapyr	ND	0.0200	0.0400	0.0	Chlorpyrifos	ND	0.0200	0.0400	0.0
Clofentezine	ND	0.0200	0.0400	0.5000	Coumaphos	ND	0.0200	0.0400	0.0
Cyfluthrin	ND	0.1000	0.2000	1.000	Cypermethrin	ND	0.0400	0.1000	1.000
Daminozide	ND	0.0200	0.0400	0.0	Diazinon	ND	0.0200	0.0400	0.2000
Dichlorvos	ND	0.0200	0.0400	0.0	Dimethoate	ND	0.0200	0.0400	0.0
Dimethomorph	ND	0.0099	0.0198	20.00	Ethoprophos	ND	0.0200	0.0400	0.0
Etofenprox	ND	0.0200	0.0400	0.0	Etoxazole	ND	0.0200	0.0400	1.500
Fenhexamid	ND	0.0200	0.0400	10.00	Fenoxycarb	ND	0.0200	0.0400	0.0
Fenpyroximate	ND	0.0200	0.0400	2.000	Fipronil	ND	0.0200	0.0400	0.0
Flonicamid	ND	0.0200	0.0400	2.000	Fludioxonil	ND	0.0200	0.0400	30.00
Hexythiazox	ND	0.0200	0.0400	2.000	Imazalil	ND	0.0200	0.0400	0.0
Imidacloprid	ND	0.0200	0.0400	3.000	KresoximMethyl	ND	0.0200	0.0400	1.000
Malathion	ND	0.0200	0.0400	5.000	Metalaxyl	ND	0.0200	0.0400	15.00
Methiocarb	ND	0.0200	0.0400	0.0	Methomyl	ND	0.0200	0.0400	0.1000
Mevinphos	ND	0.0200	0.0400	0.0	Myclobutanil	ND	0.0200	0.0400	9.000
Naled	ND	0.0200	0.0400	0.5000	Oxamyl	ND	0.0200	0.0400	0.2000
Paclobutrazol	ND	0.0200	0.0400	0.0	Permethrins	ND	0.0200	0.0400	20.00



Phosmet	ND	0.0200	0.0400	0.2000	PiperonylButoxide	ND	0.0200	0.0400	8.000
Prallethrin	ND	0.0200	0.0400	0.4000	Propiconazole	ND	0.0200	0.0400	20.00
Propoxur	ND	0.0200	0.0400	0.0	Pyrethrins	ND	0.0178	0.0356	1.000
Pyridaben	ND	0.0200	0.0400	3.000	Spinetoram	ND	0.0200	0.0400	3.000
Spinosad	ND	0.0200	0.0400	3.000	Spiromesifen	ND	0.0200	0.0400	12.00
Spirotetramat	ND	0.0200	0.0400	13.00	Spiroxamine	ND	0.0200	0.0400	0.0
Tebuconazole	ND	0.0200	0.0400	2.000	Thiacloprid	ND	0.0200	0.0400	0.0
Thiamethoxam	ND	0.0200	0.0400	4.500	Trifloxystrobin	ND	0.0200	0.0400	30.00

ADDITIONAL INFORMATION

Method: SOP-TECH-002
Instrument: LC-MS/MS

Sample Prepped 11/06/2019 12:40
Sample Analyzed 11/06/2019 12:41

Sample Approved 11/07/2019 13:51

CHEMICAL RESIDUE GC ANALYSIS

UNIT OF MEASUREMENT: Micrograms per Gram(ug/g)

ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL	ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL
Captan	ND	0.1000	0.2000	5.000	Chlordane	ND	0.0400	0.1000	0.0
MethylParathion	ND	0.0400	0.1000	0.0	PCNB	ND	0.0200	0.0400	0.2000

ADDITIONAL INFORMATION

Method: SOP-TECH-010
Instrument: GC-MS/MS

Sample Prepped 11/06/2019 12:40
Sample Analyzed 11/06/2019 12:41

Sample Approved 11/07/2019 18:04

MICROBIAL PLATE ANALYSIS

UNIT OF MEASUREMENT: Colony Forming Unit(CFU)

ANALYTE	RESULT	LOD	LLOQ	ANALYTE	RESULT	LOD	LLOQ
Coliform	ND	0.0	10.00	E.coli	ND	0.0	10.00
Mold	ND	0.0	10.00	Yeast	ND	0.0	10.00
APC	ND	0.0	10.00				

ADDITIONAL INFORMATION

Method: SOP-TECH-005, SOP-TECH-006
Instrument: PetriFilm/Incubator

Sample Prepped 11/06/2019 06:45
Sample Analyzed 11/07/2019 07:40

Sample Approved 11/08/2019 13:52



HEAVY METALS ANALYSIS

UNIT OF MEASUREMENT: Micrograms per Gram(ug/g)

ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL	ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL
Arsenic	ND	0.0200	0.0500	1.500	Cadmium	ND	0.0050	0.0500	0.5000
Lead	<LLOQ	0.0100	0.0500	0.5000	Mercury	ND	0.0030	0.0500	3.000

ADDITIONAL INFORMATION

Method: SOP-TECH-013
Instrument: ICP-MS

Sample Prepped 11/06/2019 06:46
Sample Analyzed 11/06/2019 12:26

Sample Approved 11/06/2019 18:08

WATER ACTIVITY ANALYSIS

UNIT OF MEASUREMENT: Water Activity Units(aw)

ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL	ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL
AW	0.9968 aw	0.0	0.0	0.8501					

ADDITIONAL INFORMATION

Method: SOP-TECH-018
Instrument: Water Activity Meter

Sample Prepped 11/06/2019 14:44
Sample Analyzed 11/06/2019 14:45

Sample Approved 11/06/2019 15:40

This report applies to the sample investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. This report provides technical results for a specific sample and the report shall not be altered, modified, supplemented, or abstracted in any manner. Any violation of these conditions renders the report and its results void.

All LQC samples required by state regulations were performed and met the acceptance criteria.

DATA REVIEWED AND APPROVED BY



Swetha Kaul, PhD
Chief Scientific Officer

11/22/2019
Date

