



CERTIFICATE OF ANALYSIS

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

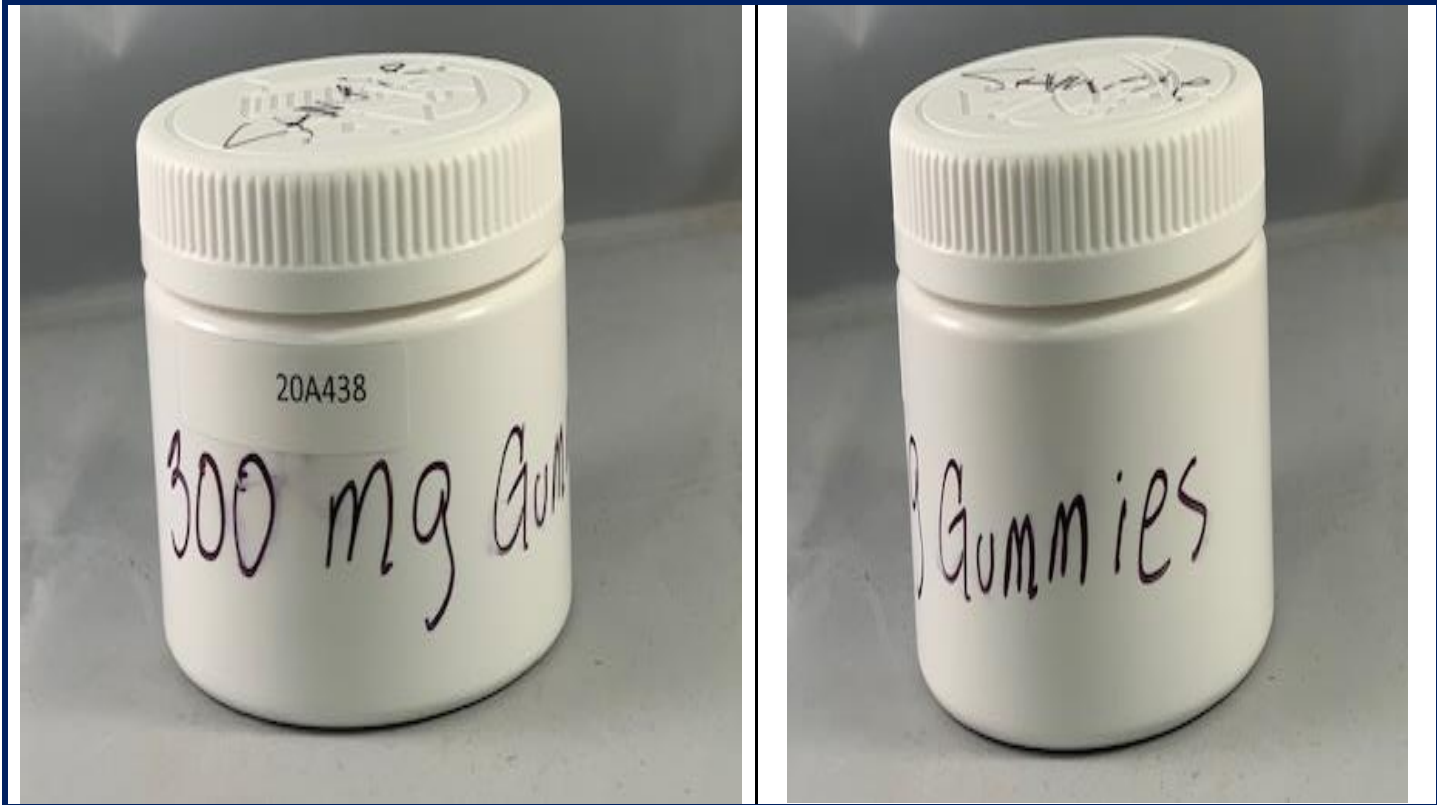
Sante Sample ID: **20A438**

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: 300 mg Gummy Sample Lot Number: PX1911K004 Sample Received: 06/01/2020 | Sample/Product Description: Gummies Inside White Plastic Jar. Sample/Product Type: CBD Isolate Sample Matrix: Food/Edible |

| ANALYSIS | TEST METHOD | LOQ | SPECIFICATIONS | RESULTS | PASS/NO PASS |
|---------------------|-------------|--|--|------------|------------------|
| Cannabinoids Screen | | | | | |
| CBD | UHPLC-DAD | 0.002 w/w% | w/w%: Report Only | 0.245 w/w% | Results Reported |
| | | | mg/g: Report Only | 2.449 mg/g | Results Reported |
| CBDa | | 0.002 w/w% | w/w%: Report Only mg/g: Report Only | ND ND | N/A |
| ∆9-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



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



CERTIFICATE OF ANALYSIS

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

Sante Sample ID: **20A438**

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: 300 mg Gummy Sample Lot Number: PX1911K004 Sample Received: 06/01/2020 | Sample/Product Description: Gummies Inside White Plastic Jar. Sample/Product Type: CBD Isolate Sample Matrix: Food/Edible |
| TESTING FACILITY INFORMATION | SAMPLE INFORMATION |
| Sante Laboratories, LLC. Hemp Testing Laboratory 8201 East Riverside Drive, Suite 650 Austin, Texas 78744 USA | Sante Sample ID: 20A438 Receipt Date: 06/01/2020 / 12:30 PM / S ORTEGA Receipt Condition: Good Start Date: 06/02/2020 |

Signature: _____

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) + (\square 9THC) + (\square 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 unit weight of 4.5124 grams was recorded for this sample.**

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 | |

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.

Certificate of Analysis

Final Product: Gummies

Lot Number: PX1911K003

Strength: 10 mg

Flavor: Assorted

Date of Manufacture: 11/2019

| Test | Methodology | Specification | Test Results (Average) ¹ | Pass/Fail |
|--|---|--|-------------------------------------|-----------|
| Color and Appearance | Lemon Lime Mango Raspberry Strawberry TM-004 (Visual) | Light green/aqua sugar coated gummy cube Mid orange/yellow sugar coated gummy cube Pink sugar coated gummy cube Opaque purple sugar coated gummy cube | Conforms | Pass |
| Aroma/Odor | TM-004 (Visual) | Prominent labeled aroma | Conforms | Pass |
| Cannabinoid Identification | TM-009 (DAD Retention Time) | Retention time of the primary peak in sample chromatogram matches that in the analytical reference standard. | Conforms | Pass |
| | TM-009 (DAD UV Spectrum) | UV Spectrum of the primary peak in sample chromatogram matches that in the analytical reference standard. | Conforms | Pass |
| CBD Content (% of Label Claim) | TM-009 (HPLC-DAD) | ≥ 100.0% | 111.1 | Pass |
| THC Content (% w/w) | THC | TM-009 (HPLC-DAD) | Report | ND |
| | THCA | TM-009 (HPLC-DAD) | Report | ND |
| | Total THC | TM-009 (HPLC-DAD) | ≤ 0.3% | ND |
| THCV Content (% w/w) | THCV | TM-009 (HPLC-DAD) | ≤ 0.3% | ND |
| Related Cannabinoid Content (%w/w) | CBDA | TM-009 (HPLC-DAD) | Report | ND |
| | CBDV | TM-009 (HPLC-DAD) | Report | 0.001 |
| | CBG | TM-009 (HPLC-DAD) | Report | ND |
| | CBN | TM-009 (HPLC-DAD) | Report | ND |
| | Other (Highest) | TM-009 (HPLC-DAD) | Report | <LOQ |
| | Total | TM-009 (HPLC-DAD) | Report | <LOQ |
| Total Cannabinoids (CBD plus total RCs, % w/w) | TM-009 (HPLC-DAD) | Report | 0.256 | N/A |
| Pesticides | Individual Pesticide Content Test List ² | LC-MS ³ | <LOQ | Pass |
| | Arsenic | ICP-MS ³ | < 1.0 ppm | Pass |
| Elemental Impurities (ppm) | Cadmium | ICP-MS ³ | < 0.4 ppm | Pass |
| | Lead | ICP-MS ³ | < 0.5 ppm | Pass |
| | Mercury (Total) | ICP-MS ³ | < 0.2 ppm | Pass |

¹ Number of replicates: 24

² Full list of individual pesticide residues on file, Eurofins LOQ of 0.1 ppm for individual residues.

³ Contract testing performed by Eurofins BioDiagnostics.

Prepared by

DocuSigned by:



Signer Name: Vanessa Johnson
 Signing Reason: I am the author of this document
 Signing Time: 2/27/2020 | 4:35:39 PM PST

6D773B54A25E4768B1430303D484890C
 COA-052 - FX-025/FX-026

Quality Approval

DocuSigned by:



Signer Name: Beth Grant
 Signing Reason: I approve this document
 Signing Time: 2/27/2020 | 8:05:50 PM PST

601DBDEA79BB4F4C8D9E7AF3E31F80D7
 697 N Denver Ave Suite 132, Loveland, CO, 80537

Certificate of Analysis

Final Product: Gummies

Lot Number: PX1911K004

Strength: 10 mg

Flavor: Assorted

Date of Manufacture: 11/2019

| Test | Methodology | Specification | Test Results (Average) ¹ | Pass/Fail | |
|--|---|--|---|-----------|------|
| Color and Appearance | Lemon Lime | TM-004 (Visual) | Light green/aqua sugar coated gummy cube | Conforms | Pass |
| | Mango | | Mid orange/yellow sugar coated gummy cube | | |
| | Raspberry | | Pink sugar coated gummy cube | | |
| | Strawberry | | Opaque purple sugar coated gummy cube | | |
| Aroma/Odor | TM-004 (Visual) | Prominent labeled aroma | Conforms | Pass | |
| Cannabidiol Identification | TM-009 (DAD Retention Time) | Retention time of the primary peak in sample chromatogram matches that in the analytical reference standard. | Conforms | Pass | |
| | TM-009 (DAD UV Spectrum) | UV Spectrum of the primary peak in sample chromatogram matches that in the analytical reference standard. | Conforms | Pass | |
| CBD Content (% of Label Claim) | TM-009 (HPLC-DAD) | ≥ 100.0% | 111.1 | Pass | |
| THC Content (% w/w) | THC | TM-009 (HPLC-DAD) | Report | ND | N/A |
| | THCA | TM-009 (HPLC-DAD) | Report | ND | N/A |
| | Total THC | TM-009 (HPLC-DAD) | ≤ 0.3% | ND | Pass |
| THCV Content (% w/w) | THCV | TM-009 (HPLC-DAD) | ≤ 0.3% | ND | Pass |
| Related Cannabinoid Content (%w/w) | CBDA | TM-009 (HPLC-DAD) | Report | ND | N/A |
| | CBDV | TM-009 (HPLC-DAD) | Report | 0.001 | N/A |
| | CBG | TM-009 (HPLC-DAD) | Report | ND | N/A |
| | CBN | TM-009 (HPLC-DAD) | Report | ND | N/A |
| | Other (Highest) | TM-009 (HPLC-DAD) | Report | <LOQ | N/A |
| | Total | TM-009 (HPLC-DAD) | Report | <LOQ | N/A |
| Total Cannabinoids (CBD plus total RCs, % w/w) | TM-009 (HPLC-DAD) | Report | 0.256 | N/A | |
| Pesticides | Individual Pesticide Content Test List ² | LC-MS ³ | <LOQ | Pass | |
| | | Conforms ² | | | |
| Elemental Impurities (ppm) | Arsenic | ICP-MS ³ | < 1.0 ppm | <LOQ | Pass |
| | Cadmium | ICP-MS ³ | < 0.4 ppm | <LOQ | Pass |
| | Lead | ICP-MS ³ | < 0.5 ppm | 0.033 | Pass |
| | Mercury (Total) | ICP-MS ³ | < 0.2 ppm | <LOQ | Pass |

¹Number of replicates: 24

²Full list of individual pesticide residues on file, Eurofins LOQ of 0.1 ppm for individual residues.

³Contract testing performed by Eurofins BioDiagnostics.

Prepared by

Quality Approval

DocuSigned by:



Signer Name: Vanessa Johnson
Signing Reason: I am the author of this document
Signing Time: 2/27/2020 | 4:34:09 PM PST

6D773B54A25E4768B1430303D484890C

DocuSigned by:

Beth Grant

Signer Name: Beth Grant
Signing Reason: I approve this document
Signing Time: 2/27/2020 | 8:02:54 PM PST

601DBDEA79BB4F4C8D9E7AF3E31F80D7