



12423 NE Whitaker Way  
 Portland, OR 97230  
 503-254-1794



**Report Number:** 21-008427/D002.R000  
**Report Date:** 08/02/2021  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 07/23/21 12:50

**Customer:** Jack Hempicine LLC  
**Product identity:** LN15-2021-3 Variety: Sour Lifter  
**Client/Metric ID:** .  
**Laboratory ID:** 21-008427-0001

**Sample Date:** 07/23/21

### Summary

**Potency:**

| Analyte | Result (%) |  |                                       |  |
|---------|------------|--|---------------------------------------|--|
| CBD-A   | 4.42       |  | CBD-Total                             |  |
| CBD     | 2.94       |  | 6.82%                                 |  |
| Δ9-THC  | 0.197      |  | THC-Total                             |  |
| CBC-A†  | 0.176      |  | 0.283%                                |  |
| CBC     | 0.165      |  | (Reported in percent of total sample) |  |
| CBG-A†  | 0.157      |  |                                       |  |
| CBG†    | 0.104      |  |                                       |  |
| THC-A   | 0.0977     |  |                                       |  |



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**Customer:** Jack Hempicine LLC  
7744 NW Mint Ave  
Albany Oregon 97321  
United States of America (USA)

**Product identity:** LN15-2021-3 Variety: Sour Lifter

**Client/Metric ID:** .

**Sample Date:** 07/23/21

**Laboratory ID:** 21-008427-0001

**Evidence of Cooling:** No

**Temp:** 24.3 °C

### Sample Results

| Potency                    | Method J AOAC 2015 V98-6 (mod) |            |        | Units % | Batch: 2106763 | Analyze: 7/29/21 3:38:00 PM |
|----------------------------|--------------------------------|------------|--------|---------|----------------|-----------------------------|
| Analyte                    | As Received                    | Dry weight | LOQ    | Notes   |                |                             |
| CBC                        | 0.165                          |            | 0.0292 |         |                |                             |
| CBC-A†                     | 0.176                          |            | 0.0292 |         |                |                             |
| CBC-Total†                 | 0.319                          |            | 0.0548 |         |                |                             |
| CBD                        | 2.94                           |            | 0.0292 |         |                |                             |
| CBD-A                      | 4.42                           |            | 0.0292 |         |                |                             |
| CBD-Total                  | 6.82                           |            | 0.0548 |         |                |                             |
| CBDV†                      | < LOQ                          |            | 0.0292 |         |                |                             |
| CBDV-A†                    | < LOQ                          |            | 0.0292 |         |                |                             |
| CBDV-Total†                | < LOQ                          |            | 0.0545 |         |                |                             |
| CBE†                       | < LOQ                          |            | 0.0292 |         |                |                             |
| CBG†                       | 0.104                          |            | 0.0292 |         |                |                             |
| CBG-A†                     | 0.157                          |            | 0.0292 |         |                |                             |
| CBG-Total                  | 0.242                          |            | 0.0545 |         |                |                             |
| CBL†                       | < LOQ                          |            | 0.0292 |         |                |                             |
| CBL-A†                     | < LOQ                          |            | 0.0292 |         |                |                             |
| CBL-Total†                 | < LOQ                          |            | 0.0548 |         |                |                             |
| CBN                        | < LOQ                          |            | 0.0292 |         |                |                             |
| CBT†                       | < LOQ                          |            | 0.0292 |         |                |                             |
| Δ8-THC†                    | < LOQ                          |            | 0.0292 |         |                |                             |
| Δ8-THCV                    | < LOQ                          |            | 0.0292 |         |                |                             |
| Δ9-THC                     | 0.197                          |            | 0.0292 |         |                |                             |
| THC-A                      | 0.0977                         |            | 0.0292 |         |                |                             |
| THC-Total                  | 0.283                          |            | 0.0548 |         |                |                             |
| THCV†                      | < LOQ                          |            | 0.0292 |         |                |                             |
| THCV-A†                    | < LOQ                          |            | 0.0292 |         |                |                             |
| THCV-Total†                | < LOQ                          |            | 0.0545 |         |                |                             |
| <b>Total Cannabinoids†</b> | <b>8.26</b>                    |            |        |         |                |                             |



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**Abbreviations**

**Limits:** Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220

**Limit(s) of Quantitation (LOQ):** The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

† = Analyte not NELAP accredited.

**Units of Measure**

% = Percentage of sample

% wt =  $\mu\text{g/g}$  divided by 10,000

Approved Signatory

Derrick Tanner  
General Manager



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**Hemp / Cannabis Usable / Extract**  
**Chain of Custody Record**

Revision: 3.01 Control#: CF023 Rev 02/26/2020 Eff: 02/27/2020  
 ORELAP ID: OR100028

JACKHEMPICINE 21-008427



Jack Hempicine LLC

| Company: Jack Hempicine / Oregon CBD<br>Contact: Seth Crawford<br>Street: 3395 S Pacific HWY W<br>City: Independence State: OR Zip: 97351<br><input type="checkbox"/> Email Results: seth@jackhempicine.com<br>Ph: (541) 760-5419 <input type="checkbox"/> Fx Results: ( )<br>Billing (if different): |                                  |         |         | <b>Analysis Requested</b><br>Pesticides - OR 59 compounds<br>Pesticide Multi-Residue - 379 compounds<br>Potency<br>Residual Solvents<br>Moisture & Water Activity<br>Terpenes<br>Micro: Yeast and Mold<br>Micro: E.Coli and Total Coliform<br>Heavy Metals<br>Mycotoxins<br>Other: |   |         |                   |                           |          |   |                                  |              |            | PO Number: _____<br>Project Number: _____<br>Project Name: _____<br>Custom Reporting: _____<br>Report to State - <input type="checkbox"/> METRC or <input type="checkbox"/> Other: _____<br>Turnaround time: <input type="checkbox"/> Standard <input type="checkbox"/> Rush * <input type="checkbox"/> Priority Rush *<br><i>*Check for availability</i><br>Sampled by: _____ |               |                |                    |
|---|----------------------------------|---------|---------|--|---|---------|-------------------|---------------------------|----------|---|----------------------------------|--------------|------------|--|---------------|----------------|--------------------|
| Lab ID  | Client Sample Identification     | Date    | Time    | Pesticides - OR 59 compounds   | Pesticide Multi-Residue - 379 compounds | Potency | Residual Solvents | Moisture & Water Activity | Terpenes | Micro: Yeast and Mold   | Micro: E.Coli and Total Coliform | Heavy Metals | Mycotoxins | Other:   | Sample Type † | Weight (Units) | Comments/Metric ID |
|   | LN15-2021-3 Variety: Sour Lifter | 7/23/21 | 10:30   |  |   | ✓       |                   |                           |          |   |                                  |              |            |  |               |                |                    |
|   | LN15-2021-4 Variety: Sour Elektr | 7/23/21 | 10:20   |  |   | ✓       |                   |                           |          |   |                                  |              |            |  |               |                |                    |
|   | LN14-2021-1 Variety: Sour Lifter | 7/23/21 | 10:50   |  |   | ✓       |                   |                           |          |   |                                  |              |            |  |               |                |                    |
| Relinquished By:  |                                  |         | Date    | Time   | Received By:                            |         |                   | Date                      | Time     | Lab Use Only:   |                                  |              |            |  |               |                |                    |
| Seth Crawford   |                                  |         | 7/23/21 | 11:10  | [Signature]                             |         |                   | 7/23/21                   | 11:10    | <input type="checkbox"/> Shipped Via: _____ or <input type="checkbox"/> Client drop<br>Evidence of cooling: <input type="checkbox"/> Yes   <input checked="" type="checkbox"/> No - Temp (°C): 24.3<br>Sample in good condition: <input checked="" type="checkbox"/> Yes   <input type="checkbox"/> No<br><input type="checkbox"/> Cash   <input type="checkbox"/> Check   <input type="checkbox"/> CC   <input type="checkbox"/> Net: _____<br>Prelog storage: _____ |                                  |              |            |  |               |                |                    |
| [Signature]   |                                  |         | 7/23/21 | 12:50  | [Signature]                             |         |                   | 7/23/21                   | 12:50    |   |                                  |              |            |  |               |                |                    |

† Sample Type Codes: Vegetation (V) ; Isolates (S) ; Extract/Concentrate (C)

*Samples submitted to Columbia Laboratories with testing requirements constitute an agreement for services in accordance with the current terms of service associated with this COC. By signing "Relinquished by" you are agreeing to these terms*

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P: (503) 254-1794 | Fax: (503) 254-1452

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Oregon Department of Agriculture  
**HEMP ON-SITE SAMPLING FORM**  
 (for laboratory use only)  
 Complete one copy of this Hemp On-Site Sampling form for each harvest lot or production area.

**LABORATORY INFORMATION**

|   |   |                                      |
|---|---|--------------------------------------|
| Laboratory Name:<br>Columbia Labs             | Sampler Name (Printed):<br>Gina Erdmann           | Date:<br>7/23/21                     |
| Registered Grower Name:<br>Jack Hempicine LLC | Registered Grower Business Name (if applicable):  | Number of Harvest Lots Sampled:<br>3 |
| Time Sampling Started:<br>10:56               | Representative (present at the time of sampling): |                                      |

**HEMP SAMPLING AREA – MUST BE A REGISTERED GROWING AREA**

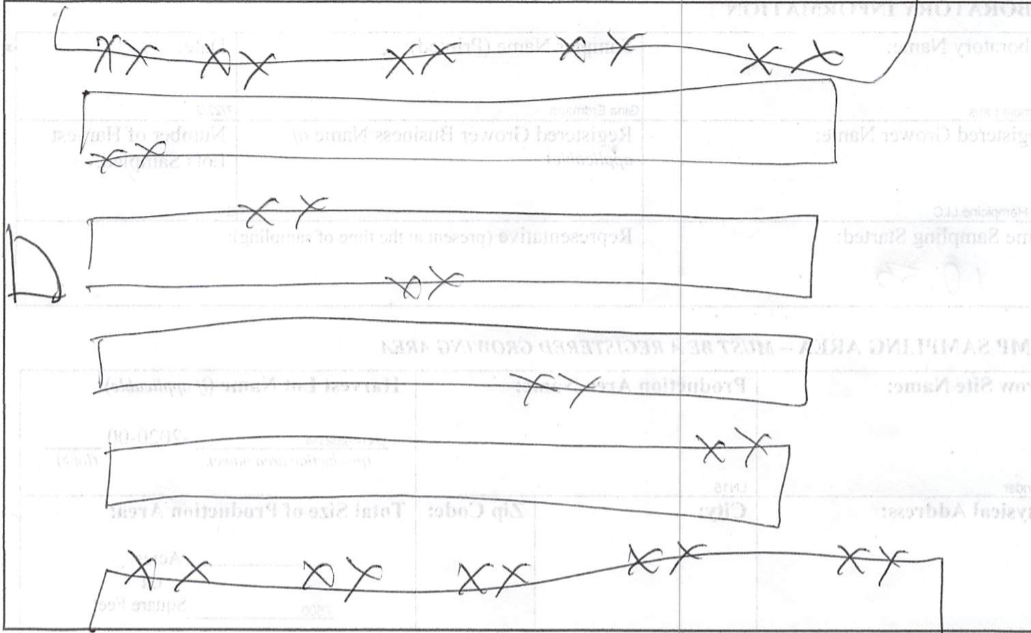
|  |  |   |
|--|--|---|
| Grow Site Name:<br>Lavender  | Production Area Name:<br>LN15  | Harvest Lot Name (if applicable):<br>LN14-2021-4 -2020-00<br>(production area name) (lot #) |
| Physical Address:<br>3395 S Pacific HWY W  | City:<br>Independence  | Zip Code:<br>97351  |
| GPS Coordinates:<br>Latitude: Longitude:<br>(must be in decimal format, eg: 45.123456, -123.45623)<br>44.886332, -123.229890 |  | Total Size of Production Area:<br>____ Acres<br>OR<br>7500 Square Feet                      |
| Area Type:<br>(e.g. field, greenhouse, indoor)<br>Greenhouse   | Intended Use For Hemp Crop:<br>(e.g. flower, seed, fiber, biomass)<br>seed | Size of Area to be Sampled:<br>____ Acres<br>OR<br>7500 Square Feet                         |
| Declared Start Harvest Date:<br>(must be no longer than 28 days from sample date)<br>8/20/21                                 |  |   |

**Written Description:** Describe the location of the production area or harvest lot such that the growing area is apparent from a visual inspection of the premises and is easily discernable from other production areas and harvest lots:  
 This greenhouse complex is accessible via HWY 99W, just north of Independence. The greenhouse complex (LN9-LN16) is on the north end of the campus. LN14 is the second greenhouse from the east in the complex, with "Nexus 14" labeled on the exterior door.

Oregon Department of Agriculture Hemp Program Phone: (503) 986-4652 Email: [hemp@oda.state.or.us](mailto:hemp@oda.state.or.us)  
 Web site: <https://oda.direct/hemp>



**Visual Depiction:** Map or sketch each harvest lot or production area at the time and date of sampling to show the location of the grow area. **This must include the sampling pattern.** The description and depiction must be sufficient such that the growing area of the harvest lot is apparent from a visual inspection of the premises and is easily discernable from other harvest lot growing areas.



**AGREEMENT**

The harvest lot(s) described in the Harvest Lot On-Site Sampling Description(s) included with this form accurately reflect the harvest lot location(s) and description(s) and the sampling conducted by the sampler. The Registered Grower agrees to the sampling as described in the attached Descriptions.

Registered Grower/Representative Signature: \_\_\_\_\_

Name: Seth Crawford

Sampler Signature: \_\_\_\_\_

Name: Gina Erdmann



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Oregon Department of Agriculture  
**HEMP SAMPLING REQUEST**

**TESTING MUST BE COMPLETED PRIOR TO HARVEST**

**To request sampling and testing, submit a complete copy of this Hemp Sampling Request Form:**

To an OLCC licensed and OHA accredited laboratory of your choice according to the laboratory's procedures for requesting sampling; or to request ODA sampling and testing, submit the form to; [hempstereports@oda.state.or.us](mailto:hempstereports@oda.state.or.us) For a list of accredited laboratories, please visit; <https://www.oregon.gov/oha/PH/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Documents/canna-list.pdf>.

*Complete one copy of this form for each harvest lot or production area.*

**GROWER INFORMATION**

|                                 |                                |                                  |
|---------------------------------|--------------------------------|----------------------------------|
| Grower Name: Jack Hempicine LLC | Business Name (if applicable): |                                  |
| Phone: 541-760-5419             | Email: seth@jackhempicine.com  | Registration #: AG-R1040856 -IHG |

**HEMP SAMPLING AREA – MUST BE A REGISTERED PRODUCTION AREA; DO NOT COMBINE PRODUCTION AREAS**

|  |   |                           |   |
|--|---|---------------------------|---|
| <b>Grow Site Name:</b><br>Lavender   | <b>Production Area Name:</b><br>LN15  |                           | <b>Harvest Lot Name (if applicable):</b><br>LN15 -2020-00 3<br><i>(production area name). (lot #)</i> |
| <b>Physical Address:</b><br>3395 S Pacific HWY W   | <b>City:</b><br>Independence  | <b>Zip Code:</b><br>97351 | <b>Total Size of Production Area:</b><br>____ Acres<br>OR<br>7500 Square Feet                         |
| <b>GPS Coordinates:</b><br>Latitude: 44.886332 Longitude: -123.229747<br><i>(must be in decimal format, eg: 45.123456, -123.45623)</i> |   |                           | <b>Size of Area to be Sampled:</b><br>____ Acres<br>OR<br>7500 Square Feet                            |
| <b>Area Type:</b><br>(e.g. field, greenhouse, indoor)<br>Greenhouse  | <b>Intended Use For Hemp Crop:</b><br>(e.g. flower, seed, fiber, biomass)<br>Seed |                           | <b>Declared Start Harvest Date:</b><br>(must be no longer than 28 days from sample date)<br>8/20/2021 |

**Written Description:** Describe the location of the production area or harvest lot such that the growing area is apparent from a visual inspection of the premises and is easily discernable from other production areas and harvest lots:

This greenhouse complex is accessible via HWY 99W, just north of Independence. The greenhouse complex (LN9-LN16) is on the north end of the campus. LN15 is the second greenhouse from the east in the complex, with "Nexus 15" labeled on the exterior door.

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 Web site: <https://oda.direct/hemp>



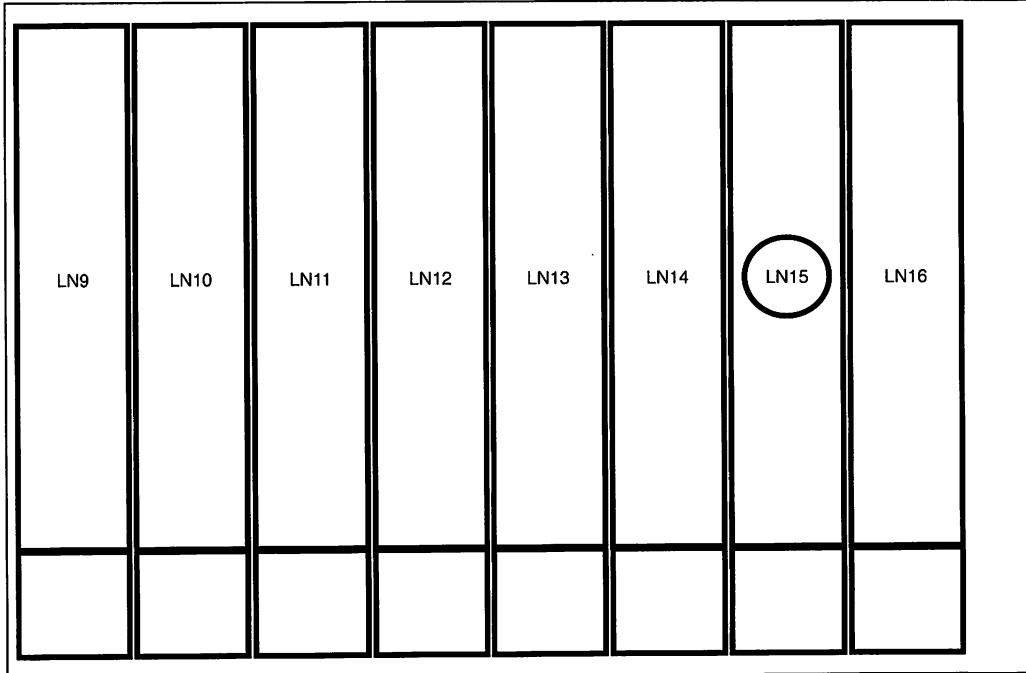
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2021

**Visual Depiction:** Provide a map oriented north, depicting the production area or harvest lot showing at least one prominent feature (road, building, etc.). Please outline and label all surrounding harvest lots and production areas, including areas left untested (May be hand drawn).



**GROWER REQUEST FOR SAMPLING AND TESTING**

I, Seth Crawford request pre-harvest sampling and testing  
(print name)

of production area(s) or harvest lot(s) of hemp as described in the attached Hemp Sampling Request Description(s) for THC analysis in accordance with OAR 603-048. Sampling and testing must comply with all requirements of OAR 603-048 including all Exhibits and forms.

Signature  Date 7/19/2021

Fees will apply. Laboratories or the ODA may have backlogs for sampling and testing. It is the grower's responsibility to ensure timely sampling and testing.

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Web site: <https://oda.direct/hemp>

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Revision #: 0.00 Control : CFL-D06  
Revision Date: 05/31/2019 Effective Date: 05/31/2019

**Laboratory Quality Control Results**

| J AOAC 2015 V98-6         |        |       |       |       |            |            |       |  |
|---------------------------|--------|-------|-------|-------|------------|------------|-------|--|
| Batch ID: 2106763         |        |       |       |       |            |            |       |  |
| Laboratory Control Sample |        |       |       |       |            |            |       |  |
| Analyte                   | Result | Spike | Units | % Rec | Limits     | Evaluation | Notes |  |
| CBDVA                     | 0.0417 | 0.04  | %     | 104   | 85.0 - 115 | Acceptable |       |  |
| CBDV                      | 0.0402 | 0.04  | %     | 101   | 85.0 - 115 | Acceptable |       |  |
| CBE                       | 0.0412 | 0.04  | %     | 103   | 85.0 - 115 | Acceptable |       |  |
| CBDA                      | 0.0401 | 0.04  | %     | 100   | 85.0 - 115 | Acceptable |       |  |
| CBGA                      | 0.0403 | 0.04  | %     | 101   | 85.0 - 115 | Acceptable |       |  |
| CBG                       | 0.0401 | 0.04  | %     | 100   | 85.0 - 115 | Acceptable |       |  |
| CBD                       | 0.0422 | 0.04  | %     | 106   | 85.0 - 115 | Acceptable |       |  |
| THCV                      | 0.0408 | 0.04  | %     | 102   | 85.0 - 115 | Acceptable |       |  |
| d8THCV                    | 0.0405 | 0.04  | %     | 101   | 85.0 - 115 | Acceptable |       |  |
| THCVA                     | 0.0386 | 0.04  | %     | 96.5  | 85.0 - 115 | Acceptable |       |  |
| CBN                       | 0.0430 | 0.04  | %     | 107   | 85.0 - 115 | Acceptable |       |  |
| exo-THC                   | 0.0396 | 0.04  | %     | 98.9  | 85.0 - 115 | Acceptable |       |  |
| d9THC                     | 0.0426 | 0.04  | %     | 107   | 85.0 - 115 | Acceptable |       |  |
| d8THC                     | 0.0387 | 0.04  | %     | 96.7  | 85.0 - 115 | Acceptable |       |  |
| CBL                       | 0.0407 | 0.04  | %     | 102   | 85.0 - 115 | Acceptable |       |  |
| CBC                       | 0.0419 | 0.04  | %     | 105   | 85.0 - 115 | Acceptable |       |  |
| THCA                      | 0.0401 | 0.04  | %     | 100   | 85.0 - 115 | Acceptable |       |  |
| CBCA                      | 0.0392 | 0.04  | %     | 98.0  | 85.0 - 115 | Acceptable |       |  |
| CBLA                      | 0.0428 | 0.04  | %     | 107   | 85.0 - 115 | Acceptable |       |  |
| CBT                       | 0.0435 | 0.04  | %     | 109   | 85.0 - 115 | Acceptable |       |  |

**Method Blank**

| Analyte | Result | LOQ  | Units | Limits | Evaluation | Notes |
|---------|--------|------|-------|--------|------------|-------|
| CBDVA   | <LOQ   | 0.03 | %     | < 0.03 | Acceptable |       |
| CBDV    | <LOQ   | 0.03 | %     | < 0.03 | Acceptable |       |
| CBE     | <LOQ   | 0.03 | %     | < 0.03 | Acceptable |       |
| CBDA    | <LOQ   | 0.03 | %     | < 0.03 | Acceptable |       |
| CBGA    | <LOQ   | 0.03 | %     | < 0.03 | Acceptable |       |
| CBG     | <LOQ   | 0.03 | %     | < 0.03 | Acceptable |       |
| CBD     | <LOQ   | 0.03 | %     | < 0.03 | Acceptable |       |
| THCV    | <LOQ   | 0.03 | %     | < 0.03 | Acceptable |       |
| d8THCV  | <LOQ   | 0.03 | %     | < 0.03 | Acceptable |       |
| THCVA   | <LOQ   | 0.03 | %     | < 0.03 | Acceptable |       |
| CBN     | <LOQ   | 0.03 | %     | < 0.03 | Acceptable |       |
| exo-THC | <LOQ   | 0.03 | %     | < 0.03 | Acceptable |       |
| d9THC   | <LOQ   | 0.03 | %     | < 0.03 | Acceptable |       |
| d8THC   | <LOQ   | 0.03 | %     | < 0.03 | Acceptable |       |
| CBL     | <LOQ   | 0.03 | %     | < 0.03 | Acceptable |       |
| CBC     | <LOQ   | 0.03 | %     | < 0.03 | Acceptable |       |
| THCA    | <LOQ   | 0.03 | %     | < 0.03 | Acceptable |       |
| CBCA    | <LOQ   | 0.03 | %     | < 0.03 | Acceptable |       |
| CBLA    | <LOQ   | 0.03 | %     | < 0.03 | Acceptable |       |
| CBT     | <LOQ   | 0.03 | %     | < 0.03 | Acceptable |       |

**Abbreviations**

ND - None Detected at or above MRL  
RPD - Relative Percent Difference  
LOQ - Limit of Quantitation

**Units of Measure:**

% - Percent



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Revision #: 0.00 Control : CFL-D06  
Revision Date: 05/31/2019 Effective Date: 05/31/2019

**Laboratory Quality Control Results**

| J AOAC 2015 V98-6 |        | Batch ID: 2106763         |      |       |       |        |            |       |
|-------------------|--------|---------------------------|------|-------|-------|--------|------------|-------|
| Sample Duplicate  |        | Sample ID: 21-008427-0001 |      |       |       |        |            |       |
| Analyte           | Result | Org. Result               | LOQ  | Units | RPD   | Limits | Evaluation | Notes |
| CBDVA             | <LOQ   | <LOQ                      | 0.03 | %     | NA    | < 20   | Acceptable |       |
| CBDV              | <LOQ   | <LOQ                      | 0.03 | %     | NA    | < 20   | Acceptable |       |
| CBE               | <LOQ   | <LOQ                      | 0.03 | %     | NA    | < 20   | Acceptable |       |
| CBDA              | 4.42   | 4.51                      | 0.03 | %     | 2.10  | < 20   | Acceptable |       |
| CBGA              | 0.157  | 0.161                     | 0.03 | %     | 2.40  | < 20   | Acceptable |       |
| CBG               | 0.104  | 0.107                     | 0.03 | %     | 2.45  | < 20   | Acceptable |       |
| CBD               | 2.94   | 2.98                      | 0.03 | %     | 1.59  | < 20   | Acceptable |       |
| THCV              | <LOQ   | <LOQ                      | 0.03 | %     | NA    | < 20   | Acceptable |       |
| d8THCV            | <LOQ   | <LOQ                      | 0.03 | %     | NA    | < 20   | Acceptable |       |
| THCVA             | <LOQ   | <LOQ                      | 0.03 | %     | NA    | < 20   | Acceptable |       |
| CBN               | <LOQ   | <LOQ                      | 0.03 | %     | NA    | < 20   | Acceptable |       |
| exo-THC           | <LOQ   | <LOQ                      | 0.03 | %     | NA    | < 20   | Acceptable |       |
| d9THC             | 0.197  | 0.200                     | 0.03 | %     | 1.44  | < 20   | Acceptable |       |
| d8THC             | <LOQ   | <LOQ                      | 0.03 | %     | NA    | < 20   | Acceptable |       |
| CBL               | <LOQ   | <LOQ                      | 0.03 | %     | NA    | < 20   | Acceptable |       |
| CBC               | 0.165  | 0.168                     | 0.03 | %     | 1.31  | < 20   | Acceptable |       |
| THCA              | 0.0977 | 0.0987                    | 0.03 | %     | 1.08  | < 20   | Acceptable |       |
| CBCA              | 0.176  | 0.177                     | 0.03 | %     | 0.738 | < 20   | Acceptable |       |
| CBLA              | <LOQ   | <LOQ                      | 0.03 | %     | NA    | < 20   | Acceptable |       |
| CBT               | <LOQ   | <LOQ                      | 0.03 | %     | NA    | < 20   | Acceptable |       |

**Abbreviations**

- ND - None Detected at or above MRL
- RPD - Relative Percent Difference
- LOQ - Limit of Quantitation
- NA - Calculation Not Applicable given non-numerical results

**Units of Measure:**

% - Percent



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Explanation of QC Flag Comments:

| Code | Explanation   |
|------|---|
| Q    | Matrix interferences affecting spike or surrogate recoveries.                               |
| Q1   | Quality control result biased high. Only non-detect samples reported.                       |
| Q2   | Quality control outside QC limits. Data considered estimate.                                |
| Q3   | Sample concentration greater than four times the amount spiked.                             |
| Q4   | Non-homogenous sample matrix, affecting RPD result and/or % recoveries.                     |
| Q5   | Spike results above calibration curve.  |
| Q6   | Quality control outside QC limits. Data acceptable based on remaining QC.                   |
| R    | Relative percent difference (RPD) outside control limit.                                    |
| R1   | RPD non-calculable, as sample or duplicate results are less than five times the LOQ.        |
| R2   | Sample replicates RPD non-calculable, as only one replicate is within the analytical range. |
| LOQ1 | Quantitation level raised due to low sample volume and/or dilution.                         |
| LOQ2 | Quantitation level raised due to matrix interference.                                       |
| B    | Analyte detected in method blank, but not in associated samples.                            |
| B1   | The sample concentration is greater than 5 times the blank concentration.                   |
| B2   | The sample concentration is less than 5 times the blank concentration.                      |