

# CERTIFICATE OF QUALITY ASSURANCE

PRODUCT NAME: Full Spectrum Roll on  
 CONCENTRATION: 3000mg- 100mg/ml  
 PRODUCT LOT NUMBER: LT-O-00009  
 OIL LOT NUMBER: LE-O-00708  
 MANUFACTURE DATE: 12/30/2021



Expiration date is 24 months under sealed conditions

DATE OF ANALYSIS: 1/4/2022  
 ACTIVE INGREDIENTS: Phytocannabinoid-Rich Hemp Oil  
 INACTIVE INGREDIENTS:

Organic Shea Butter, Organic Coconut Oil, Organic Beeswax, Organic Sweet Almond Oil, Organic Jojoba Oil, Organic Rosemary Antioxidant, Organic THC Non-Detect Distillate, Organic Peppermint Essential Oil

ALLERGY NOTICE: Contains Tree Nuts ( Almond)

## ANALYSIS RESULTS FOR FINISHED PRODUCT

### ATTRIBUTE ANALYSIS

| ATTRIBUTE   | CRITERIA                                   | DISPOSITION |
|-------------|--|-------------|
| APPEARANCE  | Clear light yellow to medium yellow liquid | PASS        |
| AROMA       | Characteristic Hemp Oil Aroma              | PASS        |
| CBD CONTENT | Label claim +/- 10%                        | PASS        |
| THC CONTENT | COMPLIANT OR NON-DETECT                    | PASS        |

### CANNABINOID ANALYSIS

| COMPOUND | RESULT (mg) | CRITERIA    |
|----------|-------------|-------------|
| THC      | 0.19%       | <0.3%       |
| CBD      | 2871.56mg   | 3000mg      |
| CBN      | 2.74mg      | NO CRITERIA |
| CBG      | 47.17mg     | NO CRITERIA |
| CBDV     | 23.47mg     | NO CRITERIA |
| CBC      | 81.10mg     | NO CRITERIA |
| PASS     |             |             |

### MICROBIAL ANALYSIS

| CONTAMINANT         | SPECIFICATION | (CFU/g)       | DISPOSITION |
|---------------------|---------------|---------------|-------------|
| Ttl Aerobic Count   | None Detected | None Detected | PASS        |
| Total Coliforms     | None Detected | None Detected | PASS        |
| Total Yeast & Molds | None Detected | None Detected | PASS        |
| E. Coli             | None Detected | None Detected | PASS        |
| Salmonella          | None Detected | None Detected | PASS        |

### RESIDUAL SOLVENT ANALYSIS

| SOLVENT           | SPECIFICATION | RESULT (ppm)  | DISPOSITION |
|-------------------|---------------|---------------|-------------|
| Propane           | None Detected | None Detected | PASS        |
| Butanes           | None Detected | None Detected | PASS        |
| Methanol          | None Detected | None Detected | PASS        |
| Pentane           | None Detected | None Detected | PASS        |
| Ethanol           | None Detected | None Detected | PASS        |
| Acetone           | None Detected | None Detected | PASS        |
| Isopropyl Alcohol | None Detected | None Detected | PASS        |
| Hexane            | None Detected | None Detected | PASS        |
| Ethyl Acetate     | None Detected | None Detected | PASS        |
| Benzene           | None Detected | None Detected | PASS        |
| Heptanes          | None Detected | None Detected | PASS        |
| Toluene           | None Detected | None Detected | PASS        |
| Xylenes           | None Detected | None Detected | PASS        |
| PASS              |               |               |             |

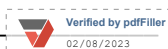
### HEAVY METALS ANALYSIS

| ANALYTE        | SPECIFICATION | RESULT (ppm)  | DISPOSITION |
|----------------|---------------|---------------|-------------|
| As, Cd, Hg, Pb | None Detected | None Detected | PASS        |

### PESTICIDE ANALYSIS

| COMPOUND   | SPECIFICATION | RESULT (ppb)  | DISPOSITION |
|------------|---------------|---------------|-------------|
| ALL TESTED | None Detected | None Detected | PASS        |

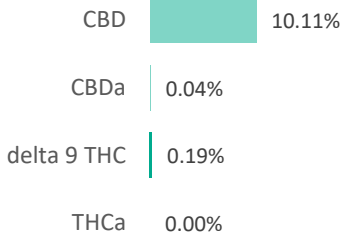
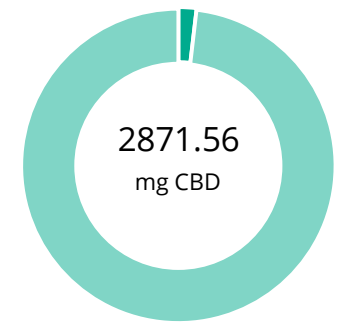
QC Approval: Scott McWhorter  
 Date: 1/5/2022



LT-O-00009

|                  |                 |                   |                       |
|------------------|-----------------|-------------------|-----------------------|
| <b>Batch ID:</b> | BH-8672-11      | <b>Test ID:</b>   | T000185315            |
| <b>Type:</b>     | Unit            | <b>Submitted:</b> | 01/03/2022 @ 10:44 AM |
| <b>Test:</b>     | Potency         | <b>Started:</b>   | 1/4/2022              |
| <b>Method:</b>   | TM14 (HPLC-DAD) | <b>Reported:</b>  | 1/4/2022              |

## CANNABINOID PROFILE



| Compound                                     | LOQ (mg) | Result (mg)    | Result (mg/g) |
|--|----------|----------------|---------------|
| Delta 9-Tetrahydrocannabinolic acid (THCA-A) | 3.26     | ND             | ND            |
| Delta 9-Tetrahydrocannabinol (Delta 9THC)    | 3.68     | 54.29          | 1.9           |
| Cannabidiolic acid (CBDA)                    | 4.65     | 11.75          | 0.4           |
| Cannabidiol (CBD)                            | 4.54     | 2871.56        | 101.1         |
| Delta 8-Tetrahydrocannabinol (Delta 8THC)    | 4.06     | ND             | ND            |
| Cannabinolic Acid (CBNA)                     | 2.32     | ND             | ND            |
| Cannabinol (CBN)                             | 1.06     | 2.74           | 0.1           |
| Cannabigerolic acid (CBGA)                   | 3.40     | ND             | ND            |
| Cannabigerol (CBG)                           | 0.81     | 47.17          | 1.7           |
| Tetrahydrocannabivarinic Acid (THCVA)        | 2.88     | ND             | ND            |
| Tetrahydrocannabivarin (THCV)                | 0.74     | ND             | ND            |
| Cannabidivarinic Acid (CBDVA)                | 1.94     | ND             | ND            |
| Cannabidivarin (CBDV)                        | 1.07     | 23.47          | 0.8           |
| Cannabichromenic Acid (CBCA)                 | 1.31     | ND             | ND            |
| Cannabichromene (CBC)                        | 1.43     | 81.10          | 2.9           |
| <b>Total Cannabinoids</b>                    |          | <b>3092.08</b> | <b>108.9</b>  |
| Total Potential THC**                        |          | 54.29          | 1.9           |
| Total Potential CBD**                        |          | 2881.86        | 101.5         |

## NOTES:

# of Servings = 1, Sample Weight=28.4g

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)

\* Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.


\*\* Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step.

$$\text{Total THC} = \text{THC} + (\text{THCa} * (0.877)) \text{ and}$$


$$\text{Total CBD} = \text{CBD} + (\text{CBDa} * (0.877))$$

ND = None Detected (Defined by Dynamic Range of the method)

## FINAL APPROVAL


 Jacob Miller  
4-Jan-2022  
2:15 PM

PREPARED BY / DATE


 Daniel Weidensaul  
4-Jan-2022  
3:02 PM

APPROVED BY / DATE

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Certificate #4329.02

**LE-O-00708**

 Prepared for:  
**ROCKY MOUNTAIN EXTRACTION SERVICES LLC**

|  |   |                                    |  |
|--|---|------------------------------------|--|
| Batch ID or Lot Number:<br><b>BH-8672-11</b> | Test:<br><b>Microbial Contaminants</b>  | Reported:<br><b>8/9/21</b>         | Location:<br>861 AUTOMATION DRIVE<br>WINDSOR, CO 80550 |
| Matrix:<br>Concentrate                       | Test ID:<br>T000155742  | Started:<br>8/5/21                 | USDA License:<br>N/A                                   |
| Status:<br>N/A                               | Methods:<br>TM25 (qPCR)<br>TM24, TM26, TM27(Culture Plating):<br>Microbial (Colorado Panel) | Received:<br>08/05/2021 @ 09:21 AM | Sampler ID:<br>N/A                                     |

**MICROBIAL CONTAMINANTS DETERMINATION**

| Contaminant                  | Method                 | LOD                   | LLOQ                  | ULOQ                      | Result        | Notes   |
|------------------------------|------------------------|-----------------------|-----------------------|---------------------------|---------------|---|
| <b>Total Aerobic Count*</b>  | TM-26, Culture Plating | 10 <sup>2</sup> CFU/g | 10 <sup>3</sup> CFU/g | 1.5x10 <sup>5</sup> CFU/g | None Detected | Free from visual mold, mildew, and foreign matter |
| <b>Total Coliforms*</b>      | TM-27, Culture Plating | 10 <sup>2</sup> CFU/g | 10 <sup>2</sup> CFU/g | 1.5x10 <sup>4</sup> CFU/g | None Detected |   |
| <b>Total Yeast and Mold*</b> | TM-24, Culture Plating | 10 <sup>2</sup> CFU/g | 10 <sup>2</sup> CFU/g | 1.5x10 <sup>4</sup> CFU/g | None Detected |   |
| <b>E. coli (STEC)</b>        | TM-25, PCR             | 1 CFU/25 g            | NA                    | NA                        | Absent        |   |
| <b>Salmonella</b>            | TM-25, PCR             | 1 CFU/25 g            | NA                    | NA                        | Absent        |   |

*Brianne Maillot*  
 Brianne Maillot  
 8/9/2021  
 12:48:00 PM

*Jackson Osaghae-Nosa*  
 Jackson Osaghae-Nosa  
 8/9/2021  
 2:50:00 PM

PREPARED BY / DATE

APPROVED BY / DATE

**Definitions**

LOD = Limit of Detection | LLOQ = Lower Limit of Quantitation | ULOQ = Upper Limit of Quantitation

 CFU/g = Colony Forming Units per Gram | STEC = Shiga Toxin-Producing *E. coli*

\* Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form.

Examples:  
 10<sup>2</sup> = 100 CFU  
 10<sup>3</sup> = 1,000 CFU  
 10<sup>4</sup> = 10,000 CFU  
 10<sup>5</sup> = 100,000 CFU

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**LE-O-00708**

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**ROCKY MOUNTAIN EXTRACTION  
 SERVICES LLC**


|  |   |                                    |  |
|--|---|------------------------------------|--|
| Batch ID or Lot Number:<br><b>BH-8672-11</b> | Test:<br><b>Mycotoxins</b>  | Reported:<br><b>8/12/21</b>        | Location:<br>861 AUTOMATION DRIVE<br>WINDSOR, CO 80550 |
| Matrix:<br>Concentrate                       | Test ID:<br>T000155745  | Started:<br>8/11/21                | USDA License:<br>N/A                                   |
| Status:<br>N/A                               | Method:<br>TM18 (UHPLC-QQQ LCMS/MS):<br>Mycotoxins (Colorado Panel) | Received:<br>08/05/2021 @ 09:21 AM | Sampler ID:<br>N/A                                     |

### MYCOTOXIN DETERMINATION

| Compound                                     | Dynamic Range (ppb) | Result (ppb) | Notes |
|--|---------------------|--------------|-------|
| Ochratoxin A                                 | 5.1 - 135.5         | ND           | N/A   |
| Aflatoxin B1                                 | 1 - 35.1            | ND           |       |
| Aflatoxin B2                                 | 1 - 34.3            | ND           |       |
| Aflatoxin G1                                 | 0.9 - 34.5          | ND           |       |
| Aflatoxin G2                                 | 1.1 - 33.3          | ND           |       |
| <b>Total Aflatoxins (B1, B2, G1, and G2)</b> |                     | ND           |       |


 Taylor Brevik  
 12-Aug-21  
 2:47 PM

PREPARED BY / DATE


 Sam Smith  
 12-Aug-21  
 2:50 PM

APPROVED BY / DATE

### Definitions

ND = None Detected (Defined by Dynamic Range of the method)

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 SERVICES LLC**

|  |                                   |                                    |  |
|--|-----------------------------------|------------------------------------|--|
| Batch ID or Lot Number:<br><b>BH-8672-11</b> | Test:<br><b>Pesticides</b>        | Reported:<br><b>8/11/21</b>        | Location:<br>861 AUTOMATION DRIVE<br>WINDSOR, CO 80550 |
| Matrix:<br>Concentrate                       | Test ID:<br>T000155741            | Started:<br>8/10/21                | USDA License:<br>N/A                                   |
| Status:<br>N/A                               | Method:<br>TM17(LC-QQQ LC MS/MS): | Received:<br>08/05/2021 @ 09:21 AM | Sampler ID:<br>N/A                                     |

## PESTICIDE DETERMINATION

| Compound            | LOQ (ppm) | Result (ppm) | Compound        | LOQ (ppm) | Result (ppm) | Compound        | LOQ (ppm) | Result (ppm) |
|---------------------|-----------|--------------|-----------------|-----------|--------------|-----------------|-----------|--------------|
| Acephate            | 54        | ND           | Fenoxycarb      | 54        | ND           | Paclobutrazol   | 54        | ND           |
| Acetamiprid         | 54        | ND           | Fipronil        | 54        | ND           | Permethrin      | 324       | ND           |
| Avermectin          | 324       | ND           | Flonicamid      | 54        | ND           | Phosmet         | 54        | ND           |
| Azoxystrobin        | 54        | ND           | Fludioxonil     | 324       | ND           | Prophos         | 324       | ND           |
| Bifenazate          | 54        | ND           | Hexythiazox     | 54        | ND           | Propoxur        | 54        | ND           |
| Boscalid            | 54        | ND           | Imazalil        | 324       | ND           | Pyridaben       | 324       | ND           |
| Carbaryl            | 54        | ND           | Imidacloprid    | 54        | ND           | Spinosad A      | 54        | ND           |
| Carbofuran          | 54        | ND           | Kresoxim-methyl | 150       | ND           | Spinosad D      | 324       | ND           |
| Chlorantraniliprole | 54        | ND           | Malathion       | 324       | ND           | Spiromesifen    | 324       | ND           |
| Chlorpyrifos        | 500       | ND           | Metalaxyl       | 54        | ND           | Spirotetramat   | 324       | ND           |
| Clofentezine        | 324       | ND           | Methiocarb      | 54        | ND           | Spiroxamine 1   | 54        | ND           |
| Diazinon            | 324       | ND           | Methomyl        | 54        | ND           | Spiroxamine 2   | 54        | ND           |
| Dichlorvos          | 324       | ND           | MGK 264 1       | 324       | ND           | Tebuconazole    | 324       | ND           |
| Dimethoate          | 54        | ND           | MGK 264 2       | 324       | ND           | Thiacloprid     | 54        | ND           |
| E-Fenpyroximate     | 324       | ND           | Myclobutanil    | 54        | ND           | Thiamethoxam    | 54        | ND           |
| Etofenprox          | 54        | ND           | Naled           | 54        | ND           | Trifloxystrobin | 54        | ND           |
| Etoxazole           | 324       | ND           | Oxamyl          | 1500      | ND           |                 |           |              |



 Taylor Brevik  
 8/11/2021  
 4:08:00 PM



 Sam Smith  
 8/11/2021  
 4:11:00 PM

PREPARED BY / DATE

APPROVED BY / DATE

### Definitions

 LOQ = Limit of Quantification  
 ppb = Parts per Billion

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|  |   |                                    |  |
|--|---|------------------------------------|--|
| Batch ID or Lot Number:<br><b>BH-8672-11</b> | Test:<br><b>Residual Solvents</b>                               | Reported:<br><b>8/11/21</b>        | Location:<br>861 AUTOMATION DRIVE<br>WINDSOR, CO 80550 |
| Matrix:<br>N/A                               | Test ID:<br>T000155744  | Started:<br>8/10/21                | USDA License:<br>N/A                                   |
| Status:<br>N/A                               | Methods:<br>TM04 (GC-MS): Residual Solvents<br>(Colorado Panel) | Received:<br>08/05/2021 @ 09:21 AM | Sampler ID:<br>N/A                                     |

## RESIDUAL SOLVENTS DETERMINATION

| Solvent                                 | Dynamic Range (ppm) | Result (ppm) | Notes |
|---|---------------------|--------------|-------|
| <b>Propane</b>                          | 73 - 1467           | *ND          |       |
| <b>Butanes</b><br>(Isobutane, n-Butane) | 139 - 2780          | *ND          |       |
| <b>Methanol</b>                         | 53 - 1066           | *ND          |       |
| <b>Pentane</b>                          | 77 - 1546           | *ND          |       |
| <b>Ethanol</b>                          | 76 - 1525           | *ND          |       |
| <b>Acetone</b>                          | 85 - 1694           | *ND          |       |
| <b>Isopropyl Alcohol</b>                | 93 - 1859           | *ND          |       |
| <b>Hexane</b>                           | 5 - 105             | *ND          |       |
| <b>Ethyl Acetate</b>                    | 85 - 1701           | *ND          |       |
| <b>Benzene</b>                          | 0 - 3               | *ND          |       |
| <b>Heptanes</b>                         | 81 - 1630           | *ND          |       |
| <b>Toluene</b>                          | 15 - 308            | *ND          |       |
| <b>Xylenes</b><br>(m,p,o-Xylenes)       | 113 - 2269          | *ND          |       |

 Sam Smith  
11-Aug-21  
1:51 PM

 Ryan Weems  
11-Aug-21  
1:53 PM

PREPARED BY / DATE

APPROVED BY / DATE

### Definitions

\* ND = None Detected (Defined by Dynamic Range of the method)

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**LE-O-00708**


|  |  |                                    |  |
|--|--|------------------------------------|--|
| Batch ID or Lot Number:<br><b>BH-8672-11</b> | Test:<br><b>Metals</b>                                     | Reported:<br><b>8/23/21</b>        | Location:<br>861 AUTOMATION DRIVE<br>WINDSOR, CO 80550 |
| Matrix:<br>Concentrate Co                    | Test ID:<br>T000155743                                     | Started:<br>8/10/21                | USDA License:<br>N/A                                   |
| Status:<br>N/A                               | Method:<br>TM19 (ICP-MS); Heavy Metals<br>(Colorado Panel) | Received:<br>08/05/2021 @ 09:21 AM | Sampler ID:<br>N/A                                     |

### HEAVY METALS DETERMINATION

| Compound | Dynamic Range (ppm) | Result (ppm) | Notes   |
|----------|---------------------|--------------|---|
| Arsenic  | 0.045 - 4.50        | ND           | Revised certificate to reflect correct Dynamic Range and Results units of measurement (ppb to ppm). ppm is the correct unit of measurement and there are no changes to numerical results. |
| Cadmium  | 0.047 - 4.71        | ND           |   |
| Mercury  | 0.045 - 4.50        | ND           |   |
| Lead     | 0.045 - 4.49        | ND           |   |

 Ryan Weems  
23-Aug-21  
12:41 PM

PREPARED BY / DATE

 Ryan Weems  
23-Aug-21  
12:53 PM

APPROVED BY / DATE

#### Definitions

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