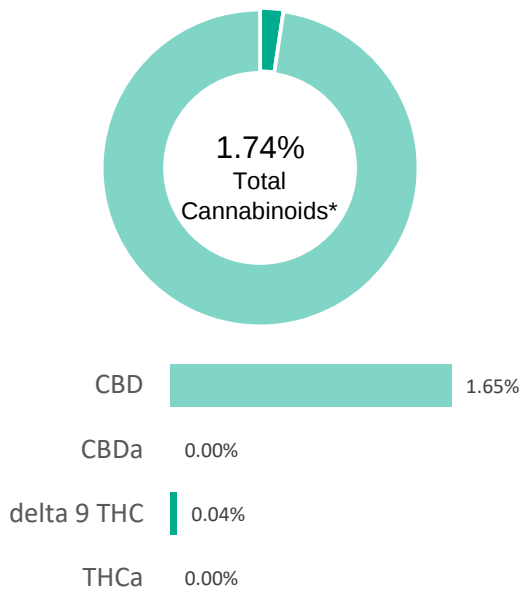


**1500mg Tincture Mint-Batch 3172**

|                  |             |                 |              |
|------------------|-------------|-----------------|--------------|
| <b>Batch ID:</b> | TGM15003172 | <b>Test ID:</b> | 7066892.0042 |
| <b>Reported:</b> | 11-Oct-2019 | <b>Method:</b>  | TM14         |
| <b>Type:</b>     | Concentrate |                 |              |
| <b>Test:</b>     | Potency     |                 |              |

**CANNABINOID PROFILE**


| Compound                                     | LOQ (%) | Result (%)  | Result (mg/g) |
|----------------------------------------------|---------|-------------|---------------|
| Delta 9-Tetrahydrocannabinolic acid (THCA-A) | 0.02    | 0.00        | 0.0           |
| Delta 9-Tetrahydrocannabinol (Delta 9THC)    | 0.01    | 0.04        | 0.4           |
| Cannabidiolic acid (CBDA)                    | 0.02    | 0.00        | 0.0           |
| Cannabidiol (CBD)                            | 0.01    | 1.65        | 16.5          |
| Delta 8-Tetrahydrocannabinol (Delta 8THC)    | 0.01    | 0.00        | 0.0           |
| Cannabinolic Acid (CBNA)                     | 0.02    | 0.00        | 0.0           |
| Cannabinol (CBN)                             | 0.01    | 0.00        | 0.0           |
| Cannabigerolic acid (CBGA)                   | 0.01    | 0.00        | 0.0           |
| Cannabigerol (CBG)                           | 0.01    | 0.02        | 0.2           |
| Tetrahydrocannabivarinic Acid (THCVA)        | 0.01    | 0.00        | 0.0           |
| Tetrahydrocannabivarin (THCV)                | 0.01    | 0.00        | 0.0           |
| Cannabidivarinic Acid (CBDVA)                | 0.02    | 0.00        | 0.0           |
| Cannabidivarin (CBDV)                        | 0.01    | 0.00        | 0.0           |
| Cannabichromenic Acid (CBCA)                 | 0.01    | 0.00        | 0.0           |
| Cannabichromene (CBC)                        | 0.01    | 0.03        | 0.3           |
| <b>Total Cannabinoids</b>                    |         | <b>1.74</b> | <b>17.40</b>  |
| <b>Total Potential THC**</b>                 |         | <b>0.04</b> | <b>0.40</b>   |
| <b>Total Potential CBD**</b>                 |         | <b>1.65</b> | <b>16.50</b>  |

% = % (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.

Total THC = THC + (THCa \*(0.877)) and Total CBD = CBD + (CBDa \*(0.877))

**NOTES:**

Certificate reissued due to typographical error.

**FINAL APPROVAL**

  
**Alex Smith**  
11-Oct-2019  
3:43 PM  
PREPARED BY / DATE

  
**David Green**  
11-Oct-2019  
3:50 PM  
APPROVED BY / DATE

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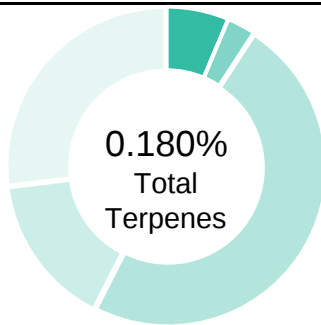


prepared for: RAD EXTRACTION  
860 COMMERCIAL LANE  
PALMER LAKE, CO 80133

## 1500mg Tincture Mint-Batch 3172

|           |             |          |              |
|-----------|-------------|----------|--------------|
| Batch ID: | TGM15003172 | Test ID: | 2662061.0038 |
| Reported: | 9-Dec-2019  | Method:  | TM10         |
| Type:     | Concentrate |          |              |
| Test:     | Terpenes    |          |              |

## TERPENE PROFILE



## PREDOMINANT TERPENES

|                     |        |
|---------------------|--------|
| alpha-Pinene        | 0.000% |
| (-)-beta-Pinene     | 0.000% |
| beta-Myrcene        | 0.011% |
| delta-3-Carene      | 0.000% |
| alpha-Terpinene     | 0.000% |
| d-Limonene          | 0.005% |
| Linalool            | 0.000% |
| beta-Caryophyllene  | 0.084% |
| alpha-Humulene      | 0.027% |
| (-)-alpha-Bisabolol | 0.047% |

| Compound                | %(w/w)        | mg/g        |
|-------------------------|---------------|-------------|
| (-)-alpha-Bisabolol     | 0.047         | 0.47        |
| Camphene                | 0.000         | 0           |
| delta-3-Carene          | 0.000         | 0           |
| beta-Caryophyllene      | 0.084         | 0.84        |
| (-)-Caryophyllene Oxide | 0.000         | 0           |
| p-Cymene                | 0.000         | 0           |
| Eucalyptol              | 0.006         | 0.06        |
| Geraniol                | 0.000         | 0           |
| alpha-Humulene          | 0.027         | 0.27        |
| (-)-Isopulegol          | 0.000         | 0           |
| d-Limonene              | 0.005         | 0.05        |
| Linalool                | 0.000         | 0           |
| beta-Myrcene            | 0.011         | 0.11        |
| cis-Nerolidol           | 0.000         | 0           |
| trans-Nerolidol         | 0.000         | 0           |
| Ocimene                 | 0.000         | 0           |
| beta-Ocimene            | 0.000         | 0           |
| alpha-Pinene            | 0.000         | 0           |
| (-)-beta-Pinene         | 0.000         | 0           |
| alpha-Terpinene         | 0.000         | 0           |
| gamma-Terpinene         | 0.000         | 0           |
| Terpinolene             | 0.000         | 0           |
|                         | <b>0.180%</b> | <b>1.80</b> |

## NOTES:

0

## FINAL APPROVAL

Daniel Weidensaul  
9-Dec-2019  
1:47 PMDavid Green  
9-Dec-2019  
2:13 PM

PREPARED BY / DATE

APPROVED BY / DATE

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**1500mg Tincture Mint-Batch 3172**

|                  |             |                 |              |
|------------------|-------------|-----------------|--------------|
| <b>Batch ID:</b> | TGM15003172 | <b>Test ID:</b> | 1892194.0021 |
| <b>Reported:</b> | 4-Dec-2019  | <b>Method:</b>  | TM17         |
| <b>Type:</b>     | Concentrate |                 |              |
| <b>Test:</b>     | Pesticides  |                 |              |

**PESTICIDE RESIDUE**

| Compound            | Dynamic Range (ppb) | Result (ppb) | Compound        | Dynamic Range (ppb) | Result (ppb) |
|---------------------|---------------------|--------------|-----------------|---------------------|--------------|
| Acephate            | 48 - 2238           | ND*          | Malathion       | 48 - 2238           | ND*          |
| Acetamiprid         | 48 - 2238           | ND*          | Metalaxyl       | 290 - 2238          | ND*          |
| Avermectin          | 290 - 2238          | ND*          | Methiocarb      | 48 - 2238           | ND*          |
| Azoxystrobin        | 48 - 2238           | ND*          | Methomyl        | 48 - 2238           | ND*          |
| Bifenazate          | 48 - 2238           | ND*          | MGK 264 1       | 48 - 2238           | ND*          |
| Boscalid            | 290 - 2238          | ND*          | MGK 264 2       | 290 - 2238          | ND*          |
| Carbaryl            | 48 - 2238           | ND*          | Myclobutanil    | 290 - 2238          | ND*          |
| Carbofuran          | 48 - 2238           | ND*          | Naled           | 290 - 2238          | ND*          |
| Chlorantraniliprole | 48 - 2238           | ND*          | Oxamyl          | 48 - 2238           | ND*          |
| Chlorpyrifos        | 290 - 2238          | ND*          | Paclobutrazol   | 48 - 2238           | ND*          |
| Clofentezine        | 48 - 2238           | ND*          | Permethrin      | 290 - 2238          | ND*          |
| Diazinon            | 48 - 2238           | ND*          | Phosmet         | 48 - 2238           | ND*          |
| Dichlorvos          | 290 - 2238          | ND*          | Prophos         | 290 - 2238          | ND*          |
| Dimethoate          | 48 - 2238           | ND*          | Propoxur        | 290 - 2238          | ND*          |
| E-Fenpyroximate     | 290 - 2238          | ND*          | Pyridaben       | 290 - 2238          | ND*          |
| Etofenprox          | 290 - 2238          | ND*          | Spinosad A      | 48 - 2238           | ND*          |
| Etoxazole           | 290 - 2238          | ND*          | Spinosad D      | 290 - 2238          | ND*          |
| Fenoxycarb          | 48 - 2238           | ND*          | Spiromesifen    | 48 - 2238           | ND*          |
| Fipronil            | 290 - 2238          | ND*          | Spirotetramat   | 290 - 2238          | ND*          |
| Flonicamid          | 48 - 2238           | ND*          | Spiroxamine 1   | 48 - 2238           | ND*          |
| Fludioxonil         | 290 - 2238          | ND*          | Spiroxamine 2   | 48 - 2238           | ND*          |
| Hexythiazox         | 290 - 2238          | ND*          | Tebuconazole    | 48 - 2238           | ND*          |
| Imazalil            | 290 - 2238          | ND*          | Thiacloprid     | 48 - 2238           | ND*          |
| Imidacloprid        | 48 - 2238           | ND*          | Thiamethoxam    | 48 - 2238           | ND*          |
| Kresoxim-methyl     | 48 - 2238           | ND*          | Trifloxystrobin | 290 - 2238          | ND*          |

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

N/A

**FINAL APPROVAL**

  
**Sam Smith**  
 4-Dec-2019  
 6:32 AM

PREPARED BY / DATE

  
**David Green**  
 4-Dec-2019  
 8:47 AM

APPROVED BY / DATE

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prepared for: RAD EXTRACTION

860 COMMERCIAL LANE

PALMER LAKE, CO 80133

## 1500mg Tincture Mint-Batch 3172

|           |                        |          |                                   |
|-----------|------------------------|----------|-----------------------------------|
| Batch ID: | TGM15003172            | Test ID: | 8825391.022                       |
| Reported: | 30-Nov-2019            | Method:  | Edible - Test Methods: TM05, TM06 |
| Type:     | Edible                 |          |                                   |
| Test:     | Microbial Contaminants |          |                                   |

## MICROBIAL CONTAMINANTS

| Contaminant                    | Result (CFU/g)* |
|--------------------------------|-----------------|
| <b>Total Aerobic Count**</b>   | None Detected   |
| <b>Total Coliforms**</b>       | None Detected   |
| <b>Total Yeast and Molds**</b> | None Detected   |
| <b><i>E. coli</i></b>          | None Detected   |
| <b><i>Salmonella</i></b>       | None Detected   |

\* CFU/g = Colony Forming Unit per Gram

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

Examples:  $10^2 = 100$  CFU  
 $10^3 = 1,000$  CFU  
 $10^4 = 10,000$  CFU  
 $10^5 = 100,000$  CFU

## NOTES:

Free from visual mold, mildew, and foreign matter

TYM: None Detected

Total Aerobic: None Detected

Coliforms: None Detected

## FINAL APPROVAL



Robert Belfon  
30-Nov-2019  
6:10 PM



Mike Branvold  
30-Nov-2019  
8:23 PM

PREPARED BY / DATE

APPROVED BY / DATE

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## 1500mg Tincture Mint-Batch 3172

|           |                   |          |             |
|-----------|-------------------|----------|-------------|
| Batch ID: | TGM15003172       | Test ID: | 1776426.002 |
| Reported: | 5-Dec-2019        | Method:  | TM04        |
| Type:     | Concentrate       |          |             |
| Test:     | Residual Solvents |          |             |

## RESIDUAL SOLVENTS

| Solvent                          | Reportable Range (ppm) | Result (ppm) |
|----------------------------------|------------------------|--------------|
| Propane                          | 100 - 2000             | 0            |
| Butanes<br>(Isobutane, n-Butane) | 100 - 2000             | 0            |
| Pentane                          | 100 - 2000             | 0            |
| Ethanol                          | 100 - 2000             | 115          |
| Acetone                          | 100 - 2000             | 0            |
| Isopropyl Alcohol                | 100 - 2000             | 0            |
| Hexane                           | 6 - 120                | 0            |
| Benzene                          | 0.2 - 4                | 0.0          |
| Heptanes                         | 100 - 2000             | 0            |
| Toluene                          | 18 - 360               | 0            |
| Xylenes<br>(m,p,o-Xylenes)       | 43 - 860               | 0            |

## NOTES:

Free from visual mold, mildew, and foreign matter.

## FINAL APPROVAL

  
Karen Winternheimer  
5-Dec-2019  
2:54 PM  
Greg Zimpfer  
5-Dec-2019  
3:53 PM

PREPARED BY / DATE

APPROVED BY / DATE

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Certificate #4329.02

prepared for: RAD EXTRACTS

860 COMMERCIAL LANE

PALMER LAKE, CO 80133

## 1500mg Tincture Mint-Batch 3172

|           |             |          |                                                                                                                                               |
|-----------|-------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Batch ID: | TGM15003172 | Test ID: | T000039314                                                                                                                                    |
| Reported: | 12-Dec-2019 | Method:  | Arsenic = Arsenic EPA 6020A (mod),<br>Cadmium = Cadmium EPA 6020A (mod),<br>Lead = Lead EPA 6020A (mod),<br>Mercury = Mercury EPA 6020A (mod) |
| Type:     | Other       |          |                                                                                                                                               |
| Test:     | Metals      |          |                                                                                                                                               |

## HEAVY METALS

| Compound | Reporting Limit (ppm) | Result (ppm) |
|----------|-----------------------|--------------|
| Arsenic  | 0.05                  | <0.05        |
| Cadmium  | 0.05                  | <0.05        |
| Lead     | 0.05                  | <0.05        |
| Mercury  | 0.05                  | <0.05        |

## FINAL APPROVAL

 Alex Smith  
12-Dec-2019  
7:11 AM

PREPARED BY / DATE

 Greg Zimpfer  
12-Dec-2019  
8:24 AM

APPROVED BY / DATE

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