



# Certificate of Analysis

Sample: DE20314019-001  
Harvest/Lot ID: 22067  
Batch#: CO HEMP - 22067  
Seed to Sale# 1A4000B00010D25000001310  
Batch Date: 03/08/22  
Sample Size Received: 12 gram  
Total Weight/Volume: N/A  
Retail Product Size: 12.5 ml  
ordered : 03/14/22  
sampled : 03/14/22  
Completed: 03/18/22  
Sampling Method: SOP-024

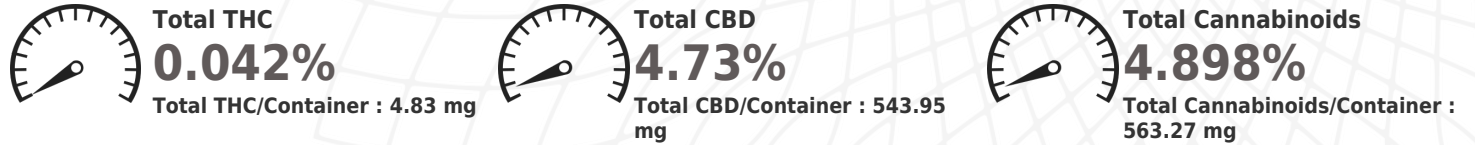
**PASSED**  
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Mar 18, 2022 | Mary's Nutritionals  
License # 405R-00011  
3251 North Revere Street Suite 200  
Aurora, CO, 80239, US



| PRODUCT IMAGE  | SAFETY RESULTS   |  |  |  |  |   |   |   | MISC.  |   |
|--|--|--|--|--|--|---|---|---|--|---|
|  | <br>Pesticides<br><b>PASSED</b> | <br>Heavy Metals<br><b>PASSED</b> | <br>Microbials<br><b>PASSED</b> | <br>Mycotoxins<br><b>PASSED</b> | <br>Residuals Solvents<br><b>PASSED</b> | <br>Filtration<br>NOT TESTED | <br>Water Activity<br>NOT TESTED | <br>Moisture<br>NOT TESTED | <br>Homogeneity<br>NOT TESTED | <br>Terpenes<br>NOT TESTED |

## CANNABINOID RESULTS



| CBVD | CBDA  | CBG        | CBD        | CBDA       | THCV       | CBGA       | CBN        | EXO-THC    | CBDQ       | DS-THC | DB-THC      | CBL        | THCVA       | CBC         | D10-THC    | CBNA     | THCA        | CBCA        | CBLA       | THC-O-ACETATE |
|------|-------|------------|------------|------------|------------|------------|------------|------------|------------|--------|-------------|------------|-------------|-------------|------------|----------|-------------|-------------|------------|---------------|
| ND   | ND    | 0.055      | 4.73       | ND         | ND         | ND         | 0.025      | 0.019      | ND         | 0.023  | ND          | ND         | ND          | 0.046       | ND         | ND       | ND          | ND          | ND         | ND            |
| LOD  | 0.001 | 0.00070559 | 0.00219044 | 0.00333396 | 0.00125116 | 0.00205806 | 0.00152419 | 0.00183167 | 0.00401072 | 0.014  | 0.000847945 | 0.00268886 | 0.000921807 | 0.000717378 | 0.00286194 | 0.000554 | 0.000910194 | 0.000458461 | 0.00210199 | 0.00116619    |
| %    | %     | %          | %          | %          | %          | %          | %          | %          | %          | %      | %           | %          | %           | %           | %          | %        | %           | %           | %          | %             |

## Cannabinoid Profile Test

|                                |  |  |                        |
|--------------------------------|--|--|------------------------|
| Analyzed by<br>1843            | Weight<br>0.83g                        | Extraction date :<br>03/15/22 05:03:26 | Extracted By :<br>1642 |
| Analysis Method -SOP-020 (R15) | Reviewed On - 03/17/22 09:01:00        | Batch Date : 03/15/22 12:01:37         |                        |
| Analytical Batch -DE003136POT  | Instrument Used : Agilent 1100 "Liger" | Running On : 03/15/22 18:00:13         |                        |

Dilution : 41  
Reagent : 011322.03; 021022.R08; 022222.R02; 031422.R01; 030222.01  
Consumables : 24169051; 1154419; 00313368; R1KB34782; 298076054; 12265-115CC-115; 234422; 5079-525C6-525E  
Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with DAD detection (HPLC-UV). Method SOP-022 (R13) for reporting. Lower limit of linearity for all cannabinoids is 1 mg/L.

## Label Claim - PASSED

| Analyte   | LOD   | Units | Result |
|-----------|-------|-------|--------|
| TOTAL CBG | 0.001 | mg    | PASS   |
| TOTAL CBN | 0.001 | mg    | PASS   |

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**Stephen Goldman**  
Lab Director  
State License # 405R-00011  
405-00008  
ISO Accreditation # 4331.01

  
Signature  
03/18/22  
Signed On



# Certificate of Analysis

**PASSED**

Mary's Nutritionals

3251 North Revere Street Suite 200  
Aurora, CO, 80239, US  
Telephone: 7207631044  
Email: csullivan@dixieelixirs.com  
License # : 405R-00011

Sample : DE20314019-001

Harvest/Lot ID: 22067

Batch# : CO HEMP - 22067

Sampled : 03/14/22

Ordered : 03/14/22


Sample Size Received : 12 gram

Total Weight/Volume : N/A

Completed : 03/18/22 Expires: 03/18/23

Sample Method : SOP-024

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| Pesticides       |        |       |              |           |        | PASSED   |     |       |              |           |        |  |
|------------------|--------|-------|--------------|-----------|--------|--|-----|-------|--------------|-----------|--------|--|
| Pesticides       | LOD    | Units | Action Level | Pass/Fail | Result | Pesticides   | LOD | Units | Action Level | Pass/Fail | Result |  |
| OTHER PESTICIDES | 0.1    | ppb   | 100          | PASS      | ND     |  <b>Pesticides</b> <span style="float: right;"><b>PASSED</b></span> |     |       |              |           |        |  |
| AVERMECTINS      | 0.0271 | ppb   | 70           | PASS      | ND     |  |     |       |              |           |        |  |
| AZOXYSTROBIN     | 0.014  | ppb   | 20           | PASS      | ND     |  |     |       |              |           |        |  |
| BIFENAZATE       | 0.011  | ppb   | 20           | PASS      | ND     |  |     |       |              |           |        |  |
| ETOXAZOLE        | 0.006  | ppb   | 10           | PASS      | ND     |  |     |       |              |           |        |  |
| IMAZALIL         | 0.064  | ppb   | 40           | PASS      | ND     |  |     |       |              |           |        |  |
| IMIDACLOPRID     | 0.007  | ppb   | 20           | PASS      | ND     |  |     |       |              |           |        |  |
| MALATHION        | 0.011  | ppb   | 50           | PASS      | ND     |  |     |       |              |           |        |  |
| MYCLOBUTANIL     | 0.013  | ppb   | 40           | PASS      | ND     |  |     |       |              |           |        |  |
| PERMETHRINS      | 0.0131 | ppb   | 40           | PASS      | ND     |  |     |       |              |           |        |  |
| SPIROMESIFEN     | 0.049  | ppb   | 30           | PASS      | ND     |  |     |       |              |           |        |  |
| SPIROTETRAMAT    | 0.03   | ppb   | 20           | PASS      | ND     |  |     |       |              |           |        |  |
| SPINOSADS        | 0.0134 | ppb   | 60           | PASS      | ND     |  |     |       |              |           |        |  |
| TEBUCONAZOLE     | 0.01   | ppb   | 10           | PASS      | ND     |  |     |       |              |           |        |  |

**Analyzed by** 1843  
**Weight** 0.1777g  
**Extraction date** 03/16/22 03:03:47  
**Extracted By** 1696  
**Analysis Method** - SOP-060 (R5),  
**Analytical Batch** : DE003120PES  
**Instrument Used** : Sciex 6500 Qtrap - Pesticides  
**Running On** :  
**Dilution** : 25  
**Reagent** : 022322.R02; 030922.R07; 021922.R02; 030922.R08; 021622.R11  
**Consumables** : 24169051; 1154419; 00291464; 114CB--114E; 16564-106C6-106H  
 Pesticide screen is performed using LC-MS which can screen down to below single digit ppb concentrations for regulated Pesticides via SOP-060 (R5). \*

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**Stephen Goldman**  
Lab Director

State License # 405R-00011  
405-00008  
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Signature

03/18/22

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Harvest/Lot ID: 22067

Batch# : CO HEMP - 22067

Sampled : 03/14/22

Odered : 03/14/22

Sample Size Received : 12 gram

Total Weight/Volume : N/A

Completed : 03/18/22 Expires: 03/18/23

Sample Method : SOP-024

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## Residual Solvents

PASSED

| Solvent       | LOD     | Units | Action Level | Pass/Fail | Result   |
|---------------|---------|-------|--------------|-----------|----------|
| PROPANE       | 4.21421 | ppm   | 1000         | PASS      | ND       |
| ETHYL ACETATE | 2.79218 | ppm   | 1000         | PASS      | ND       |
| BUTANES       | 15.794  | ppm   | 1000         | PASS      | ND       |
| BENZENE       | 0.47491 | ppm   | 2            | PASS      | ND       |
| METHANOL      | 1.27868 | ppm   | 600          | PASS      | ND       |
| HEPTANE       | 3.25945 | ppm   | 1000         | PASS      | <9.77834 |
| PENTANES      | 13.828  | ppm   | 1000         | PASS      | ND       |
| TOLUENE       | 2.10881 | ppm   | 180          | PASS      | ND       |
| XYLENES       | 7.115   | ppm   | 430          | PASS      | ND       |
| ETHANOL       | 2.70106 | ppm   | 1000000      | PASS      | ND       |
| ACETONE       | 1.708   | ppm   | 1000         | PASS      | ND       |
| 2-PROPANOL    | 1.58756 | ppm   | 1000         | PASS      | 7.042    |
| HEXANES       | 1.92798 | ppm   | 60           | PASS      | ND       |



## Residual Solvents

PASSED

| Analyzed by   | Weight  | Extraction date                        | Extracted By |
|---|---------|--|--------------|
| 1843  | 0.1646g | 03/16/22 02:03:50                      | 1253         |
| <b>Analysis Method -SOP-032 (R18)</b><br><b>Analytical Batch -DE003135SOL</b><br><b>Instrument Used : GC 5890</b><br><b>Running On :</b><br><b>Batch Date : 03/15/22 11:00:38</b> |         | <b>Reviewed On - 03/16/22 16:55:38</b> |              |

Dilution : 1

Reagent : 030422.R01; 030822.R01

Consumables : 210316-361-B; 24160453; 31726-2-1; 5079-525C6-525E

Residual solvents screening is performed using GCwhich can detect below single digit ppm concentrations. Currently we analyze for 15 Residual solvents.

**Stephen Goldman**  
 Lab Director

 State License # 405R-00011  
 405-00008  
 ISO Accreditation # 4331.01



Signature

03/18/22

Signed On





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Harvest/Lot ID: 22067

Batch# : CO HEMP - 22067

Sampled : 03/14/22

Ordered : 03/14/22



Sample Size Received : 12 gram

Total Weight/Volume : N/A

Completed : 03/18/22 Expires: 03/18/23

Sample Method : SOP-024

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|  <b>Microbials</b> <span style="float: right;"><b>PASSED</b></span> |     |        |             |  <b>Mycotoxins</b> <span style="float: right;"><b>PASSED</b></span> |       |       |        |             |              |
|--|-----|--------|-------------|--|-------|-------|--------|-------------|--------------|
| Analyte  | LOD | Result | Pass / Fail | Analyte  | LOD   | Units | Result | Pass / Fail | Action Level |
| TOTAL YEAST AND MOLD   | 100 | ND     | PASS        | AFLATOXINS   |       | ppb   |        |             | 20           |
| SHIGA TOXIN PRODUCING ESCHERICHIA COLI STEC  | 1   | ND     | PASS        | AFLATOXIN B1   | 1.327 | ppb   | ND     | PASS        | 20           |
| SALMONELLA SPECIES   | 1   | ND     | PASS        | AFLATOXIN B2   | 0.09  | ppb   | ND     | PASS        | 20           |
| MICROBIALS   | 10  | ND     | PASS        | AFLATOXIN G1   | 0.18  | ppb   | ND     | PASS        | 20           |
| TOTAL AEROBIC  | 10  | ND     | PASS        | AFLATOXIN G2   | 0.303 | ppb   | ND     | PASS        | 20           |
| TOTAL COLIFORM   | 10  | ND     | PASS        | OCHRATOXIN A+  | 0.049 | ppb   | ND     | PASS        | 20           |

Analysis Method -SOP-061 (R2); SOP-062 (R2); SOP-063 (R1)  
Analytical Batch -DE003133MIC Batch Date : 03/15/22 09:11:39  
Instrument Used : Microbial - Full Panel  
Running On : 03/15/22 17:27:20

| Analyzed by | Weight | Extraction date   | Extracted By |
|-------------|--------|-------------------|--------------|
| 1843        | 1.91g  | 03/15/22 05:03:31 | 5            |

Dilution : 1  
Reagent : 021422.22  
Consumables :

Microbiological testing for Fungal and Bacterial Identification via Polymerase Chain Reaction (PCR) methods and plating methods. If a pathogenic Escherichia Coli (STEC) or Salmonella is detected in 1g of a sample, the sample fails the microbiological-impurity testing.

Analysis Method -SOP-060 (R5)  
Analytical Batch -DE003121MYC | Reviewed On - 03/18/22 16:20:57  
Instrument Used : Sciex 6500 Qtrap - Mycotoxins  
Running On : | Batch Date : 03/10/22 15:49:38

| Analyzed by | Weight  | Extraction date   | Extracted By |
|-------------|---------|-------------------|--------------|
| 1843        | 0.1777g | 03/16/22 03:03:43 | 1696         |

Aflatoxins B1, B2, G1, G2, and Ochratoxin A testing using LC-MS via SOP-060 (R5). Total Aflatoxins (Aflatoxin B1, B2, G1, G2) must be < 20µg/Kg. Ochratoxins must be < 5µg/Kg.

|  <b>Heavy Metals</b> <span style="float: right;"><b>PASSED</b></span> |  |
|--|--|
|--|--|

| Metal   | LOD   | Unit | Result | Pass / Fail | Action Level |
|---------|-------|------|--------|-------------|--------------|
| ARSENIC | 0.002 | ppm  | ND     | PASS        | 1.5          |
| CADMIUM | 0.001 | ppm  | ND     | PASS        | 0.5          |
| MERCURY | 0.003 | ppm  | ND     | PASS        | 1            |
| LEAD    | 0.01  | ppm  | ND     | PASS        | 1            |

| Analyzed by | Weight  | Extraction date   | Extracted By |
|-------------|---------|-------------------|--------------|
| 1843        | 0.2106g | 03/16/22 01:03:07 | 666          |

Analysis Method -SOP-050 (R5)  
Analytical Batch -DE003134HEA | Reviewed On - 03/17/22 11:13:40  
Instrument Used : Shimadzu 2030 ICP-MS  
Running On : | Batch Date : 03/15/22 11:00:26

Dilution : 50  
Reagent : 082721.13; 030922.R01; 030922.R04; 062121.04; 031522.R14; 030222.01; 031022.R02  
Consumables : 210316-361-B; 114CB--114E; 12265-116CC-116; 234422

Heavy Metals screening is performed using ICP-MS (Inductively Coupled Plasma - Mass Spectrometer) which can screen to below single digit ppb concentrations for regulated heavy metals using method SOP-050 (R5). Sample preparation for Heavy Metals Analysis via SOP-050 (R5).