

**KCA Laboratories** 232 North Plaza Drive

+1-833-KCA-LABS https://kcalabs.com KDA Lic.# P\_0058

## **Certificate of Analysis**

1 of 4

## CBDBS.072523.1

Sample ID: SA-230808-25563 Batch:

Type: In-Process Material Matrix: Concentrate - Distillate

Unit Mass (q):

Received: 08/08/2023 Completed: 08/23/2023

#### Client

MC Nutraceuticals 6101 Long Prairie Rd, Ste 144 LB 17 Flower Mound, TX 75028 USA





Summary

Test **Date Tested Status** 08/15/2023 Cannabinoids **Tested** 08/23/2023 Heavy Metals **Tested** Pesticides 08/18/2023 **Tested** 08/18/2023 Residual Solvents Tested

ND

Total Δ9-THC

96.6 % CBD

98.4%

Total Cannabinoids

**Not Tested** 

Moisture Content

**Not Tested** 

Foreign Matter

Yes

Internal Standard Normalization

# Cannabinoids by HPLC-PDA, LC-MS/MS, and/or GC-MS/MS

| Analyte      | LOD<br>(%) | LOQ<br>(%) | Result<br>(%) | Result<br>(mg/g) | mAU  |      |     | SA-230808-25563 | 3      |      |      |
|--------------|------------|------------|---------------|------------------|------|------|-----|-----------------|--------|------|------|
| CBC          | 0.0095     | 0.0284     | ND            | ND               | -    | GBD  |     |                 |        |      |      |
| CBCA         | 0.0181     | 0.0543     | ND            | ND               | -    |      |     |                 |        |      |      |
| CBCV         | 0.006      | 0.018      | ND            | ND               | 1000 |      |     |                 |        |      |      |
| CBD          | 0.0081     | 0.0242     | 96.6          | 966              | -    |      |     |                 | idard  |      |      |
| CBDA         | 0.0043     | 0.013      | ND            | ND               | -    |      |     |                 | tanda  |      |      |
| CBDV         | 0.0061     | 0.0182     | 0.283         | 2.83             | 750  |      |     |                 | mal S  |      |      |
| CBDVA        | 0.0021     | 0.0063     | ND            | ND               | 730  |      |     |                 | - Inte |      |      |
| CBG          | 0.0057     | 0.0172     | 1.54          | 15.4             | -    |      |     |                 |        |      |      |
| CBGA         | 0.0049     | 0.0147     | ND            | ND               | 1    |      |     |                 |        |      |      |
| CBL          | 0.0112     | 0.0335     | ND            | ND               | 500- |      |     |                 |        |      |      |
| CBLA         | 0.0124     | 0.0371     | ND            | ND               | -    |      |     |                 |        |      |      |
| CBN          | 0.0056     | 0.0169     | ND            | ND               | -    |      |     |                 |        |      |      |
| CBNA         | 0.006      | 0.0181     | ND            | ND               | ]    |      |     |                 |        |      |      |
| CBT          | 0.018      | 0.054      | ND            | ND               | 250- |      |     |                 |        |      |      |
| Δ8-ΤΗС       | 0.0104     | 0.0312     | ND            | ND               | -    |      |     |                 |        |      |      |
| Δ9-ΤΗС       | 0.0076     | 0.0227     | ND            | ND               | 1    |      |     |                 |        |      |      |
| Δ9-ΤΗСΑ      | 0.0084     | 0.0251     | ND            | ND               | -    | CBDV |     |                 |        |      |      |
| Δ9-ΤΗCV      | 0.0069     | 0.0206     | ND            | ND               | 0    |      |     |                 |        | _    |      |
| Δ9-ΤΗCVA     | 0.0062     | 0.0186     | ND            | ND               | -1   | 2.5  | 5.0 | 7.5             | 10.0   | 12.5 | 15.0 |
| Total Δ9-THC |            |            | ND            | ND               |      | 2.5  | 5.0 | 7.5             | 10.0   | 12.5 | min  |
| Total        |            |            | 98.4          | 984              |      |      |     |                 |        |      |      |

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; RL = Reporting Limit; Δ = Delta; Total Δ9-THC = Δ9-THCA \* 0.877 + Δ9-THC; Total CBD = CBDA \* 0.877 + CBD;

Generated By: Ryan Bellone CCO

Date: 08/23/2023

Tested By: Nicholas Howard Scientist Date: 08/15/2023









This product or substance has been tested by KCA Laboratories using validated testing methodologies and an ISO/IEC 170252017 accredited quality system. Values reported relate only to the product or substance tested. The reported result is based on a sample weight. Unless otherwise stated, results of tests performed on all quality control samples met criteria for acceptance established by KCA Laboratories. KCA Laboratories makes no claims as to the efficacy, safety or other risks associated with any detected or non-detected amounts of any substances reported herein. This Certificate of Analysis shall not be reproduced except in full, without the written approval of KCA Laboratories KCA Laboratories and provide measurement uncertainty upon request.



**KCA Laboratories** 232 North Plaza Drive Nicholasville, KY 40356

+1-833-KCA-LABS https://kcalabs.com KDA Lic.# P\_0058

## **Certificate of Analysis**

2 of 4

## CBDBS.072523.1

Sample ID: SA-230808-25563 Batch: Type: In-Process Material Matrix: Concentrate - Distillate Unit Mass (g):

Received: 08/08/2023 Completed: 08/23/2023

#### Client

MC Nutraceuticals 6101 Long Prairie Rd, Ste 144 LB 17 Flower Mound, TX 75028 USA



# **Heavy Metals by ICP-MS**

| Analyte | LOD (ppb) | LOQ (ppb) | Result (ppb)                 |  |
|---------|-----------|-----------|------------------------------|--|
| Arsenic | 2         | 20        | <loq< th=""><th></th></loq<> |  |
| Cadmium | 1         | 20        | ND                           |  |
| Lead    | 2         | 20        | <loq< th=""><th></th></loq<> |  |
| Mercury | 12        | 50        | ND                           |  |

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; P = Pass; F = Fail; RL = Reporting Limit



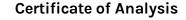
Generated By: Ryan Bellone CCO

Date: 08/23/2023

Tested By: Chris Farman Scientist Date: 08/23/2023



This product or substance has been tested by KCA Laboratories using validated testing methodologies and an ISO/IEC 170252017 accredited quality system. Values reported relate only to the product or substance tested. The reported result is based on a sample weight. Unless otherwise stated, results of tests performed on all quality control samples met criteria for acceptance established by KCA Laboratories KCA Laboratories makes no claims as to the efficacy, safety or other risks associated with any detected or non-detected amounts of any substances reported herein. This Certificate of Analysis shall not be reproduced except in full, without the written approval of KCA Laboratories KCA Laboratories can provide measurement uncertainty upon request.





**KCA Laboratories** 232 North Plaza Drive Nicholasville, KY 40356

+1-833-KCA-LABS https://kcalabs.com KDA Lic.# P\_0058

3 of 4

## CBDBS.072523.1

Sample ID: SA-230808-25563 Batch:

Type: In-Process Material Matrix: Concentrate - Distillate

Unit Mass (q):

Received: 08/08/2023 Completed: 08/23/2023

#### Client

MC Nutraceuticals 6101 Long Prairie Rd, Ste 144 LB 17 Flower Mound, TX 75028 USA



# Pesticides by LC-MS/MS

| Analyte              | LOD<br>(ppb) | LOQ<br>(ppb) | Result<br>(ppb) | Analyte            | LOD<br>(ppb) | LOQ<br>(ppb) | Result<br>(ppb) |
|----------------------|--------------|--------------|-----------------|--------------------|--------------|--------------|-----------------|
| Acephate             | 30           | 100          | ND              | Hexythiazox        | 30           | 100          | ND              |
| Acetamiprid          | 30           | 100          | ND              | Imazalil           | 30           | 100          | ND              |
| Aldicarb             | 30           | 100          | ND              | Imidacloprid       | 30           | 100          | ND              |
| Azoxystrobin         | 30           | 100          | ND              | Kresoxim methyl    | 30           | 100          | ND              |
| Bifenazate           | 30           | 100          | ND              | Malathion          | 30           | 100          | ND              |
| Bifenthrin           | 30           | 100          | ND              | Metalaxyl          | 30           | 100          | ND              |
| Boscalid             | 30           | 100          | ND              | Methiocarb         | 30           | 100          | ND              |
| Carbaryl             | 30           | 100          | ND              | Methomyl           | 30           | 100          | ND              |
| Carbofuran           | 30           | 100          | ND              | Mevinphos          | 30           | 100          | ND              |
| Chloranthraniliprole | 30           | 100          | ND              | Myclobutanil       | 30           | 100          | ND              |
| Chlorfenapyr         | 30           | 100          | ND              | Naled              | 30           | 100          | ND              |
| Chlorpyrifos         | 30           | 100          | ND              | Oxamyl             | 30           | 100          | ND              |
| Clofentezine         | 30           | 100          | ND              | Paclobutrazol      | 30           | 100          | ND              |
| Coumaphos            | 30           | 100          | ND              | Permethrin         | 30           | 100          | ND              |
| Daminozide           | 30           | 100          | ND              | Phosmet            | 30           | 100          | ND              |
| Diazinon             | 30           | 100          | ND              | Piperonyl Butoxide | 30           | 100          | ND              |
| Dichlorvos           | 30           | 100          | ND              | Prallethrin        | 30           | 100          | ND              |
| Dimethoate           | 30           | 100          | ND              | Propiconazole      | 30           | 100          | ND              |
| Dimethomorph         | 30           | 100          | ND              | Propoxur           | 30           | 100          | ND              |
| Ethoprophos          | 30           | 100          | ND              | Pyrethrins         | 30           | 100          | ND              |
| Etofenprox           | 30           | 100          | ND              | Pyridaben          | 30           | 100          | ND              |
| Etoxazole            | 30           | 100          | ND              | Spinetoram         | 30           | 100          | ND              |
| Fenhexamid           | 30           | 100          | ND              | Spinosad           | 30           | 100          | ND              |
| Fenoxycarb           | 30           | 100          | ND              | Spiromesifen       | 30           | 100          | ND              |
| Fenpyroximate        | 30           | 100          | ND              | Spirotetramat      | 30           | 100          | ND              |
| Fipronil             | 30           | 100          | ND              | Spiroxamine        | 30           | 100          | ND              |
| Flonicamid           | 30           | 100          | ND              | Tebuconazole       | 30           | 100          | ND              |
| Fludioxonil          | 30           | 100          | ND              | Thiacloprid        | 30           | 100          | ND              |
|                      |              |              |                 | Thiamethoxam       | 30           | 100          | ND              |
|                      |              |              |                 | Trifloxystrobin    | 30           | 100          | ND              |

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; P = Pass; F = Fail; RL = Reporting Limit

Generated By: Ryan Bellone CCO

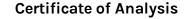
Date: 08/23/2023

Tested By: Jasper van Heemst Principal Scientist Date: 08/18/2023



This product or substance has been tested by KCA Laboratories using validated testing methodologies and an ISO/IEC 170252017 accredited quality system. Values reported relate only to the product or substance tested. The reported result is based on a sample weight. Unless otherwise stated, results of tests performed on all quality control samples met criteria for acceptance established by KCA Laboratories KCA Laboratories makes no claims as to the efficacy, safety or other risks associated with any detected or non-detected amounts of any substances reported herein. This Certificate of Analysis shall not be reproduced except in full, without the written approval of KCA Laboratories KCA Laboratories can provide measurement uncertainty upon request.

utraceutica





**KCA Laboratories** 232 North Plaza Drive Nicholasville, KY 40356

+1-833-KCA-LABS https://kcalabs.com KDA Lic.# P\_0058

4 of 4

## CBDBS.072523.1

Sample ID: SA-230808-25563 Batch:

Type: In-Process Material Matrix: Concentrate - Distillate Unit Mass (g): Received: 08/08/2023 Completed: 08/23/2023

### Client

MC Nutraceuticals 6101 Long Prairie Rd, Ste 144 LB 17 Flower Mound, TX 75028 USA



## Residual Solvents by HS-GC-MS

| Analyte               | LOD<br>(ppm) | LOQ<br>(ppm) | Result<br>(ppm) | Analyte                  | LOD<br>(ppm) | LOQ<br>(ppm) | Result<br>(ppm) |
|-----------------------|--------------|--------------|-----------------|--------------------------|--------------|--------------|-----------------|
| Acetone               | 167          | 500          | ND              | Ethylene Glycol          | 21           | 62           | ND              |
| Acetonitrile          | 14           | 41           | ND              | Ethylene Oxide           | 0.5          | 1            | ND              |
| Benzene               | 0.5          | 1            | ND              | Heptane                  | 167          | 500          | ND              |
| Butane                | 167          | 500          | ND              | n-Hexane                 | 10           | 29           | ND              |
| 1-Butanol             | 167          | 500          | ND              | Isobutane                | 167          | 500          | ND              |
| 2-Butanol             | 167          | 500          | ND              | Isopropyl Acetate        | 167          | 500          | ND              |
| 2-Butanone            | 167          | 500          | ND              | Isopropyl Alcohol        | 167          | 500          | ND              |
| Chloroform            | 2            | 6            | ND              | Isopropylbenzene         | 167          | 500          | ND              |
| Cyclohexane           | 129          | 388          | ND              | Methanol                 | 100          | 300          | ND              |
| 1,2-Dichloroethane    | 0.5          | 1            | ND              | 2-Methylbutane           | 10           | 29           | ND              |
| 1,2-Dimethoxyethane   | 4            | 10           | ND              | Methylene Chloride       | 20           | 60           | ND              |
| Dimethyl Sulfoxide    | 167          | 500          | ND              | 2-Methylpentane          | 10           | 29           | ND              |
| N,N-Dimethylacetamide | 37           | 109          | ND              | 3-Methylpentane          | 10           | 29           | ND              |
| 2,2-Dimethylbutane    | 10           | 29           | ND              | n-Pentane                | 167          | 500          | ND              |
| 2,3-Dimethylbutane    | 10           | 29           | ND              | 1-Pentanol               | 167          | 500          | ND              |
| N,N-Dimethylformamide | 30           | 88           | ND              | n-Propane                | 167          | 500          | ND              |
| 2,2-Dimethylpropane   | 167          | 500          | ND              | 1-Propanol               | 167          | 500          | ND              |
| 1,4-Dioxane           | 13           | 38           | ND              | Pyridine                 | 7            | 20           | ND              |
| Ethanol               | 167          | 500          | ND              | Tetrahydrofuran          | 24           | 72           | ND              |
| 2-Ethoxyethanol       | 6            | 16           | ND              | Toluene                  | 30           | 89           | ND              |
| Ethyl Acetate         | 167          | 500          | ND              | Trichloroethylene        | 3            | 8            | ND              |
| Ethyl Ether           | 167          | 500          | ND              | Tetramethylene Sulfone   | 6            | 16           | ND              |
| Ethylbenzene          | 3            | 7            | ND              | Xylenes (o-, m-, and p-) | 73           | 217          | ND              |

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; P = Pass; F = Fail; RL = Reporting Limit



Generated By: Ryan Bellone CCO

Date: 08/23/2023

Tested By: Scott Caudill Laboratory Manager Date: 08/18/2023



This product or substance has been tested by KCA Laboratories using validated testing methodologies and an ISO/IEC 170252017 accredited quality system. Values reported relate only to the product or substance tested. The reported result is based on a sample weight. Unless otherwise stated, results of tests performed on all quality control samples met criteria for acceptance established by KCA Laboratories KCA Laboratories makes no claims as to the efficacy, safety or other risks associated with any detected or non-detected amounts of any substances reported herein. This Certificate of Analysis shall not be reproduced except in full, without the written approval of KCA Laboratories KCA Laboratories can provide measurement uncertainty upon request.