

# CERTIFICATE OF ANALYSIS

**PRODUCT NAME:** Certified Organic CBD Tincture - Natural  
**PRODUCT STRENGTH:** 900 mg  
**FILL LOT NUMBER:** B1014-002  
**TINCTURE BATCH:** 20364B  
**BEST BY DATE:** 06/29/2022  
**HEMP EXTRACT LOT:** NA

\*Click on the links to view third-party reports\*

## Physical Attributes

| Test                    | Method  | Specification  | Results |
|-------------------------|---------|--|---------|
| Color                   | SOP-100 | Golden to Amber  | PASS    |
| Odor                    | SOP-100 | Characteristic - Olive and hemp  | PASS    |
| Appearance              | SOP-100 | Golden to Amber oil in brown glass bottle with dropper   | PASS    |
| Primary Package Eval.   | SOP-132 | Container clean and free of filth. Container caps tight and shrink bands intact                                  | PASS    |
| Secondary Package Eval. | SOP-132 | Labeling Compliance Checked, Cartons sturdy and clean. Sufficient cushion material exists. Box taped and secure. | PASS    |

## Review of Third-Party Analysis

| Panel                                 | Method  | Specification   | Results*  | Pass/Fail |
|---------------------------------------|---------|---|-----------|-----------|
| <b>Potency - Total CBD</b>            | SOP-111 | 900-1,125 mg CBD<br>LOQ*: 10 PPM† (0.001%)  | 925.1 mg  | PASS      |
| <b>Potency - D9-THC</b>               | SOP-111 | None Detected LOQ: 10 PPM<br>(0.001%)   | ND        | PASS      |
| <b>Compliant Pesticide Panel</b>      | SOP-111 | WIP-100008 : Product specification for Tinctures, Oregon Action limits apply                      | ND        | PASS      |
| <b>Microbial - Stec E.Coli</b>        | SOP-111 | Complies with USP 61/62   | Below LOQ | PASS      |
| <b>Microbial - Salmonella</b>         | SOP-111 | Complies with USP 61/62   | Below LOQ | PASS      |
| <b>Microbial - Yeast and Mold</b>     | SOP-111 | Complies with USP 61/62   | Below LOQ | PASS      |
| <b>CA Compliant Heavy Metal Panel</b> | SOP-111 | Arsenic (As): ≤1.5 PPM<br>Cadmium (Cd): ≤0.5 PPM<br>Mercury (Hg): ≤1.0 PPM<br>Lead (Pb): ≤0.5 PPM | ND        | PASS      |

\* \*Level of Quantitation, † Parts Per Million

Quality Certified

*Kei Horikawa*

Kei Horikawa  
Quality Control Manager

01/05/2021

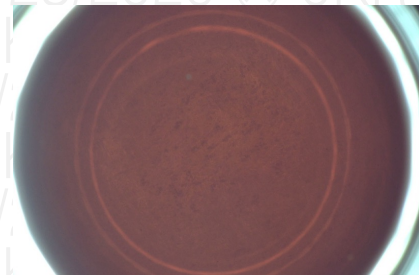
Date

**B1014-002****7USC1639 Certificate of Analysis**sample ID 25012  
retention ID 25012

analysis : 10/22/2020 12:01:11 PM

**This Product  
Has Been  
Tested and  
Complies with  
7USC1639o(1)****Stillwater  
Laboratories**certificate ID  
**0KR40**total  
cannabinoids **952.5mg** per 30 mL

THC‡ ND CBD‡ 925.1mg

order 8689  
received 10/22/2020 12:01:11 PM  
test tag  
sample wgt 15.0 g**7USC1639 Infused****Inspection** MSP-7.5.1.2

DESCRIPTION: Oil sample (15.00g) received in a client-labeled bottle, by commercial courier. Labeled 25012.

**Potency per 30 mL**

MSP-7.5.1.4 LOD LOQ error (95%CI k=2)

|                                    |         |                        |
|------------------------------------|---------|------------------------|
| tetrahydrocannabinolic acid (THCa) | ND      | 0.20   0.59   ±0.59mg  |
| Δ9-tetrahydrocannabinol (Δ9 THC)   | ND      | 0.18   0.55   ±0.55mg  |
| Δ8-tetrahydrocannabinol (Δ8 THC)   | ND      | 0.25   0.74   ±0.74mg  |
| tetrahydrocannabivarin (THCv)      | ND      | 0.21   0.62   ±0.62mg  |
| cannabidiolic acid (CBDA)          | ND      | 0.17   0.51   ±0.51mg  |
| cannabidiol (CBD)                  | 925.1mg | 0.19   0.58   ±16.28mg |
| cannabidivarin (CBDv)              | 4.9mg   | 0.19   0.58   ±0.67mg  |
| cannabigerolic acid (CBGa)         | ND      | 0.17   0.52   ±0.52mg  |
| cannabigerol (CBG)                 | 22.4mg  | 0.21   0.63   ±1.01mg  |
| cannabinol (CBN)                   | ND      | 0.11   0.32   ±0.32mg  |
| cannabichromene (CBC)              | ND      | 0.19   0.58   ±0.58mg  |

‡ = decarbed NT = not tested NL = no limit, ND = not detected, LOD = detection limit, LOQ = quantitation limit

| Microbial         | MSP-7.5.1.10 | limit     | Metals              | MSP-7.5.1.11 | limit    | Pesticides       | MSP-7.5.1.8 | limit    | Pesticides        | MSP-7.5.1.8 | limit    |
|-------------------|--------------|-----------|---------------------|--------------|----------|------------------|-------------|----------|-------------------|-------------|----------|
|                   |              |           | Arsenic             | PASS         | 1500 ppb | Daminozide       | PASS        | 0.0 ppm  | Piperonylbutoxide | PASS        | 8.0 ppm  |
|                   |              |           | Cadmium             | PASS         | 500 ppb  | Dichlorvos       | PASS        | 0.0 ppm  | Prallethrin       | PASS        | 0.4 ppm  |
|                   |              |           | Lead                | PASS         | 500 ppb  | Diazinon         | PASS        | 0.2 ppm  | Propiconazole     | PASS        | 20.0 ppm |
|                   |              |           | Mercury             | PASS         | 300 ppb  | Dimethoate       | PASS        | 0.0 ppm  | Propoxur          | PASS        | 0.0 ppm  |
| Ochratoxin A      | PASS         | 20 ppb    |                     |              |          | Etozazole        | PASS        | 1.5 ppm  | Pyrethrin         | PASS        | 1.0 ppm  |
| Aflatoxin         | PASS         | 20 ppb    |                     |              |          | Fenoxycarb       | PASS        | 0.0 ppm  | Pyridaben         | PASS        | 3.0 ppm  |
| Solvents          | MSP-7.5.1.7  | limit     | Pesticides          | MSP-7.5.1.8  | limit    | Fenpyroximate    | PASS        | 2.0 ppm  | Spinetoram        | PASS        | 3.0 ppm  |
| Acetone           | PASS         | 5000 ppm  | Abamectin           | PASS         | 0.3 ppm  | Fipronil         | PASS        | 0.0 ppm  | Spinosad          | PASS        | 3.0 ppm  |
| Acetonitrile      | PASS         | 410 ppm   | Acephate            | PASS         | 5.0 ppm  | Flonicamid       | PASS        | 2.0 ppm  | Spiromesifen      | PASS        | 12.0 ppm |
| Benzene           | PASS         | 0 ppm     | Acequinocyl         | PASS         | 4.0 ppm  | Fludioxonil      | PASS        | 30.0 ppm | Spirotetramat     | PASS        | 13.0 ppm |
| Butane            | PASS         | 5000 ppm  | Acetamiprid         | PASS         | 5.0 ppm  | Hexythiazox      | PASS        | 2.0 ppm  | Spiroxamine       | PASS        | 0.0 ppm  |
| Chloroform        | PASS         | 0 ppm     | Aldicarb            | PASS         | 0.0 ppm  | Imazalil         | PASS        | 0.0 ppm  | Tebuconazole      | PASS        | 2.0 ppm  |
| Cyclohexane       | PASS         | 0 ppm     | Azoxystrobin        | PASS         | 40.0 ppm | Imidacloprid     | PASS        | 3.0 ppm  | Thiacloprid       | PASS        | 0.1 ppm  |
| Ethanol           | PASS         | 10000 ppm | Bifenazate          | PASS         | 5.0 ppm  | Malathion        | PASS        | 5.0 ppm  | Thiamethoxam      | PASS        | 4.5 ppm  |
| Heptane           | PASS         | 5000 ppm  | Bifenthrin          | PASS         | 0.5 ppm  | Metalaxyl        | PASS        | 15.0 ppm | Trifloxystrobin   | PASS        | 30.0 ppm |
| Hexane            | PASS         | 290 ppm   | Boscalid            | PASS         | 10.0 ppm | Methiocarb       | PASS        | 0.0 ppm  |                   |             |          |
| Isopropyl alcohol | PASS         | 5000 ppm  | Carbaryl            | PASS         | 0.5 ppm  | Methomyl         | PASS        | 0.1 ppm  |                   |             |          |
| Methanol          | PASS         | 3000 ppm  | Carbofuran          | PASS         | 0.0 ppm  | Methyl parathion | PASS        | 0.0 ppm  |                   |             |          |
| Pentane           | PASS         | 5000 ppm  | Chloanthraniliprole | PASS         | 40.0 ppm | Mevinphos        | PASS        | 0.0 ppm  |                   |             |          |
| Propane           | PASS         | 5000 ppm  | Chlorfenapyr        | PASS         | 0.0 ppm  | Myclobutanil     | PASS        | 9.0 ppm  |                   |             |          |
| Toluene           | PASS         | 890 ppm   | Chlorpyrifos        | PASS         | 0.0 ppm  | Naled            | PASS        | 0.5 ppm  |                   |             |          |
| Xylenes           | PASS         | 2170 ppm  | Clofentezine        | PASS         | 0.5 ppm  | Oxamyl           | PASS        | 0.2 ppm  |                   |             |          |
|                   |              |           | Coumaphos           | PASS         | 0.0 ppm  | Paclobutrazol    | PASS        | 0.0 ppm  |                   |             |          |
|                   |              |           | Cyfluthrin          | PASS         | 1.0 ppm  | Permethrin       | PASS        | 20.0 ppm |                   |             |          |
|                   |              |           | Cypermethrin        | PASS         | 1.0 ppm  | Phosmet          | PASS        | 0.2 ppm  |                   |             |          |

**INSTRUMENTS**  
 potency: HPLC (LC2030C-UV)  
 terpenes: GCMS (QP2020/HS20)  
 solvents: GCMS (QP2020/HS20)  
 pesticides: LCMSMS (LC8060)  
 mycotoxins: LCMSMS (LC8060)  
 microbial: qPCR (AriaMx) and plating  
 metals: ICPMS (ICPMS-2030)

SECURITY FEATURE: WATERMARK MUST MATCH CERTIFICATE ID AND ISSUE DATE

Certified by:

Justin M Johnston  
Deputy Director

**Stillwater Laboratories Inc.**  
 MT License L00001, 7, 8  
 6073 US93N Suite 5  
 Olney MT 59927  
 406-881-2019

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ISO/IEC 17025:2017



Certificate #4961.01

<https://portal.a2la.org/scopepdf/4961-01.pdf>



20364B

This Product  
Has Been  
Tested and  
Complies with  
7USC1639o(1)  
Definition of  
Hemp



ISO/IEC 17025:2017  
ACCREDITED  
Certificate #4961.01

Stillwater  
Laboratories

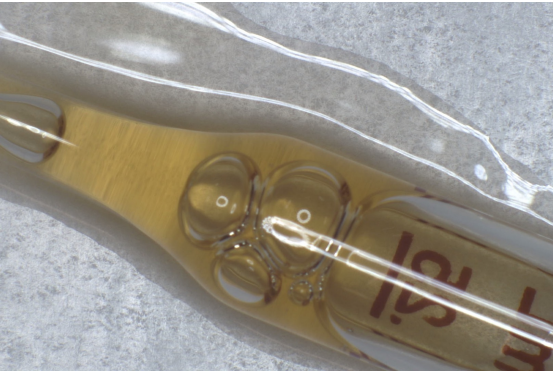
<https://portal.a2la.org/scopepdf/4961-01.pdf>

Sample Handling

|               |                      |
|---------------|----------------------|
| test ID       | sample wt            |
| type tincture | order 9367           |
| lab ID 1AB09  | sample date 1/2/2021 |
| unit          | unit weight          |

|            |             |              |
|------------|-------------|--------------|
| Methods    | method      | equipment    |
| weights    | MSP-7.3.1.3 | AUX120.1     |
| potency    | MSP-7.5.1.5 | LC-2030      |
| terpenes   | MSP-7.5.1.7 | QP2020/HS20  |
| pesticides | MSP-7.5.1.8 | LC-8060      |
| mycotoxins | MSP-7.5.1.8 | LC-8060      |
| microbial  | MSP-7.5.1.1 | AriaMx/Hardy |
| solvents   | MSP-7.5.1.6 | QP2020/HS20  |
| metals     | MSP-7.5.1.1 | ICPMS2030    |

tincture



|         |     |                 |          |   |                 |   |                 |   |                 |
|---------|-----|-----------------|----------|---|-----------------|---|-----------------|---|-----------------|
| Potency | per | estimated error | Terpenes | % | estimated error | % | estimated error | % | estimated error |
|---------|-----|-----------------|----------|---|-----------------|---|-----------------|---|-----------------|

not tested

terpenes  
not tested / not required

|          |          |       |     |                 |          |       |     |                    |       |     |
|----------|----------|-------|-----|-----------------|----------|-------|-----|--------------------|-------|-----|
| Solvents | MT limit | 1AB09 | LOQ | Pesticides (MT) | MT limit | 1AB09 | LOQ | Pesticides (other) | 1AB09 | LOQ |
|----------|----------|-------|-----|-----------------|----------|-------|-----|--------------------|-------|-----|

pesticides  
not tested / not required

not tested /  
not required

|              |          |       |     |
|--------------|----------|-------|-----|
| Toxic Metals | MT limit | 1AB09 | LOQ |
|--------------|----------|-------|-----|

metals  
not tested / not required

|                |           |       |            |
|----------------|-----------|-------|------------|
| Microbial      | MT limit  | 1AB09 | LOQ        |
| E. coli        | 10 CFU    | 0 CFU | <10 CFU/g  |
| Salmonella sp. | 10 CFU    | 0 CFU | <10 CFU/g  |
| molds          | 10000 CFU | 0 CFU | <10k CFU/g |

Comments

Certified by:  
  
Justin M Johnston  
Deputy Director  
6073 US93N, Olney MT 59927  
406-881-2019 rdb@stlslabs.com

• All testing was completed onsite at 6073 US93N, Olney MT • Potency (cannabinoid concentration) is calculated from the equation: [cannabinoid] = [cannabinoid]<sub>HPLC</sub> x volume<sub>dilution</sub>/m<sub>dry</sub>. Terpene concentration is calculated from the equation: [terpene] = (terpene mass)<sub>GCMS</sub> / m<sub>dry</sub>. •• Decarboxyted cannabinoid concentration is calculated from the equation XXX<sub>total</sub> = 0.877 x XXX<sub>a</sub> + XXX ••• Standards are used to calibrate the resulting data and estimate error using a standard estimate of error method; this is combined with error from weighing and dilution using the propagation of error formula s<sub>g</sub><sup>2</sup> = Σ(∂f/∂i)<sup>2</sup>s<sub>i</sub><sup>2</sup> where i is the contributor to error. The 95% confidence range is calculated from the equation: (concentration) ± t<sub>CL90</sub> x s<sub>g</sub>. Sampling error is not