

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Certified Organic CBD FS Tincture - Key Lime
PRODUCT STRENGTH: 450 mg
FILL LOT NUMBER: 200916A
TINCTURE BATCH: 200921A
BEST BY DATE: 03/28/2022
HEMP EXTRACT LOT [B0630-001](#)

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 |
|---------------------------------------|---------|---|------------------|-----------|
| Potency - Total CBD | SOP-111 | 450-562.5 mg CBD LOQ** : 10 PPM† (0.001%) | 488.1 mg | PASS |
| Potency - D9-THC | SOP-111 | None Detected LOQ: 10 PPM (0.001%) | .06% | PASS |
| Compliant Pesticide Panel | SOP-111 | WIP-100008 : Product specification for Tinctures, Oregon Action limits apply | ND | PASS |
| Microbial - Stec E.Coli | SOP-111 | Complies with USP 61/62 | Below LOQ | PASS |
| Microbial - Salmonella | SOP-111 | Complies with USP 61/62 | Below LOQ | PASS |
| Microbial - Yeast and Mold | SOP-111 | Complies with USP 61/62 | Below LOQ | PASS |
| CA Compliant Heavy Metal Panel | SOP-111 | Arsenic (As): ≤1.5 PPM Cadmium (Cd): ≤0.5 PPM Mercury (Hg): ≤1.0 PPM Lead (Pb): ≤0.5 PPM | ND | PASS |

**Level of Quantitation, † Parts Per Million

Quality Certified *Kei Horikawa* 10/20/2020
 Kei Horikawa Date
 Manager of Quality Assurance



| | | | |
|--------------------|-----------------|---------|-----------|
| total cannabinoids | Δ^9 -THC | THCa | total THC |
| 18 mg | 0.53 mg | 0.00 mg | 0.53 mg |
| per | CBD | CBDa | total CBD |
| mL | 16.19 mg | 0.09 mg | 16.27 mg |

Lot# 200916A

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



Stillwater Laboratories

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

Sample Handling

tincture

| | |
|---------------------|--------------------------|
| test ID | sample wt |
| type tincture | order 8410 |
| lab ID 0JQ22 | sample date 9/21/2020 |
| unit mL | unit weight 0.9 g |



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 RTPCR |
| solvents | MSP-7.5.1.6 QP2020/HS20 |
| metals | MSP-7.5.1.1 ICPMS2030 |

| Potency | per mL | estimated error | Terpenes | % | estimated error | % | estimated error | % | estimated error |
|--|--------|-----------------|---------------------------------------|---|-----------------|---|-----------------|---|-----------------|
| tetrahydrocannabinolic acid (THCa) | 0% | 0.00 mg | terpenes not tested / not required | | | | | | |
| Δ^9 -tetrahydrocannabinol (Δ^9 THC) | .06% | 0.53 mg | | | | | | | |
| Δ^8 -tetrahydrocannabinol (Δ^8 THC) | 0% | 0.00 mg | | | | | | | |
| tetrahydrocannabivarin (THCv) | 0% | 0.00 mg | | | | | | | |
| cannabidiolic acid (CBDa) | .01% | 0.09 mg | | | | | | | |
| cannabidiol (CBD) | 1.72% | 16.19 mg | | | | | | | |
| cannabidivarin (CBDv) | .01% | 0.08 mg | | | | | | | |
| cannabigerolic acid (CBGa) | 0% | 0.00 mg | | | | | | | |
| cannabigerol (CBG) | .05% | 0.44 mg | | | | | | | |
| cannabinol (CBN) | .02% | 0.21 mg | | | | | | | |
| cannabichromene (CBC) | .06% | 0.60 mg | | | | | | | |

| Solvents | MT limit | 0JQ22 | LOQ | Pesticides (MT) | MT limit | 0JQ22 | LOQ | Pesticides (other) | 0JQ22 | LOQ |
|----------|----------|-------|-----|-----------------|----------|-------|-----|--------------------|-------|-----|
|----------|----------|-------|-----|-----------------|----------|-------|-----|--------------------|-------|-----|

pesticides not tested / not required

not tested / not required

| Toxic Metals | MT limit | 0JQ22 | LOQ |
|--------------|----------|-------|-----|
|--------------|----------|-------|-----|

metals not tested / not required

| Microbial | MT limit | 0JQ22 | LOQ |
|-----------|----------|-------|-----|
|-----------|----------|-------|-----|

microbial not tested

Comments

Density = 0.94063g/mL

• All testing was completed onsite at 6073 US93N, Olney MT •• Potency (cannabinoid concentration) is calculated from the equation: [cannabinoid] = [cannabinoid]_{HPLC} x volume_{dilution}/m_{dry}. Terpene concentration is calculated from the equation: [terpene] = (terpene mass)_{GCMS} / m_{dry}. ••• Decarboxyted cannabinoid concentration is calculated from the equation XXX_{total} = 0.877 x XXX_a + 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_g² = Σ (∂f/∂i)²s_i² where i is the contributor to error. The 95% confidence range is calculated from the equation: (concentration) ± t_{CL90} x s_g. Sampling error is not

Certified by:

Kyle Larson, MSc (Biology)
Deputy Director
6073 US93N, Olney MT 59927
406-881-2019 rdb@stwlabs.com

FullSpectrum Extract

Certificate of Analysis



| | | | |
|--------------------|-----------------|--------|-----------|
| total cannabinoids | Δ^9 -THC | THCa | total THC |
| 3018 mg | 75.4 mg | 0.0 mg | 75.4 mg |
| per | CBD | CBDa | total CBD |
| 30mL | 2762.0 mg | 0.0 mg | 2762.0 mg |

Lot# B0630-001.200727E-OFS

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

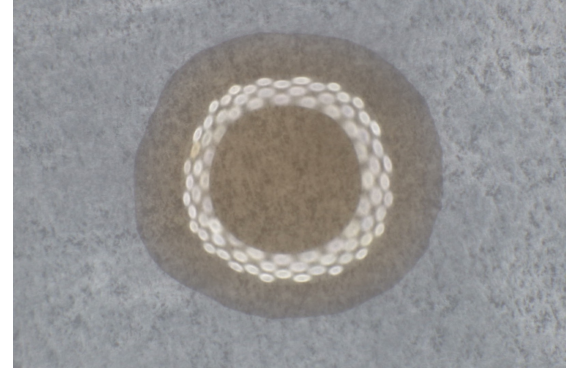
Sample Handling

| | |
|---------------------|---------------------------|
| test ID | sample wt |
| type concentrate | order 7945 |
| lab ID OGX02 | sample date 7/29/2020 |
| unit 30mL | unit weight 27.6 g |

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 RTPCR |
| solvents | MSP-7.5.1.6 QP2020/HS20 |
| metals | MSP-7.5.1.1 ICPMS2030 |

concentrate



| Potency | per | 30mL | estimated error | Terpenes | % | estimated error | % | estimated error | % | estimated error |
|--|--------|-----------|-----------------|---------------------------------------|---|-----------------|---|-----------------|---|-----------------|
| tetrahydrocannabinolic acid (THCa) | 0% | 0.0 mg | ± 0.45 mg | terpenes not tested / not required | | | | | | |
| Δ^9 -tetrahydrocannabinol (Δ^9 THC) | .27% | 75.4 mg | ± 1.42 mg | | | | | | | |
| Δ^8 -tetrahydrocannabinol (Δ^8 THC) | 0% | 0.0 mg | ± 0.45 mg | | | | | | | |
| tetrahydrocannabivarin (THCv) | .15% | 41.9 mg | ± 1.10 mg | | | | | | | |
| cannabidiolic acid (CBDa) | 0% | 0.0 mg | ± 0.45 mg | | | | | | | |
| cannabidiol (CBD) | 10.01% | 2762.0 mg | ± 8.14 mg | | | | | | | |
| cannabidivarin (CBDv) | .06% | 15.2 mg | ± 0.75 mg | | | | | | | |
| cannabigerolic acid (CBGa) | 0% | 0.0 mg | ± 0.45 mg | | | | | | | |
| cannabigerol (CBG) | 0% | 0.0 mg | ± 0.45 mg | | | | | | | |
| cannabinol (CBN) | .08% | 23.1 mg | ± 0.87 mg | | | | | | | |
| cannabichromene (CBC) | .36% | 100.0 mg | ± 1.61 mg | | | | | | | |

Pesticides (MT)

| MT limit | OGX02 | LOQ | Pesticides (other) | OGX02 | LOQ |
|----------|----------|--------|---------------------|----------|--------|
| | 0.00 ppm | <10ppb | acephate | 0.00 ppm | <10ppb |
| | 0.00 ppm | <10ppb | acetamiprid | 0.00 ppm | <10ppb |
| | 0.00 ppm | <10ppb | aldicarb | 0.00 ppm | <10ppb |
| | 0.00 ppm | <10ppb | azoxystrobin | 0.00 ppm | <10ppb |
| | 0.00 ppm | <10ppb | boscalid | 0.00 ppm | <10ppb |
| | 0.00 ppm | <80ppb | carbaryl | 0.00 ppm | <10ppb |
| | 0.00 ppm | <10ppb | carbofuran | 0.00 ppm | <10ppb |
| | 0.00 ppm | <10ppb | chlorantraniliprole | 0.00 ppm | <10ppb |
| | 0.00 ppm | <10ppb | chlorpyrifos | 0.00 ppm | <10ppb |
| | 0.00 ppm | <10ppb | clofentezine | 0.00 ppm | <10ppb |
| | 0.00 ppm | <10ppb | cypermethrin | 0.00 ppm | <10ppb |
| | 0.00 ppm | <10ppb | diazinon | 0.00 ppm | <10ppb |
| | 0.00 ppm | <10ppb | dichlorvos | 0.00 ppm | <10ppb |
| | 0.00 ppm | <10ppb | dimethoate | 0.00 ppm | <10ppb |
| | 0.00 ppm | <10ppb | etofenprox | 0.00 ppm | <10ppb |
| | 0.00 ppm | <10ppb | fenpyroximate | 0.00 ppm | <10ppb |
| | 0.00 ppm | <10ppb | fipronil | 0.00 ppm | <10ppb |
| | 0.00 ppm | <10ppb | flonicamid | 0.00 ppm | <10ppb |
| | 0.00 ppm | <10ppb | fludioxonil | 0.00 ppm | <10ppb |
| | 0.00 ppm | <10ppb | hexythiazox | 0.00 ppm | <10ppb |
| | 0.00 ppm | <10ppb | kresoxym-methyl | 0.00 ppm | <10ppb |
| | 0.00 ppm | <10ppb | malathion | 0.00 ppm | <10ppb |
| | 0.00 ppm | <10ppb | metalaxyl | 0.00 ppm | <10ppb |
| | 0.00 ppm | <10ppb | methiocarb | 0.00 ppm | <10ppb |
| | 0.00 ppm | <10ppb | methomyl | 0.00 ppm | <10ppb |
| | 0.00 ppm | <10ppb | oxamyl | 0.00 ppm | <10ppb |
| | 0.00 ppm | <10ppb | permethrins | 0.00 ppm | <10ppb |
| | 0.00 ppm | <10ppb | phosmet | 0.00 ppm | <10ppb |
| | 0.00 ppm | <10ppb | piperonyl butoxide | 0.00 ppm | <10ppb |
| | 0.00 ppm | <10ppb | prallethrin | 0.00 ppm | <10ppb |
| | 0.00 ppm | <10ppb | propiconazole | 0.00 ppm | <10ppb |
| | 0.00 ppm | <10ppb | pyridaben | 0.00 ppm | <10ppb |
| | 0.00 ppm | <10ppb | spiroxamine | 0.00 ppm | <10ppb |
| | 0.00 ppm | <10ppb | tebuconazole | 0.00 ppm | <10ppb |
| | 0.00 ppm | <10ppb | thiacloprid | 0.00 ppm | <10ppb |
| | 0.00 ppm | <10ppb | thiamethoxam | 0.00 ppm | <10ppb |

Toxic Metals

| MT limit | OGX02 | LOQ |
|----------|---------|----------------|
| arsenic | 2 ppm | 0.0 ppm <10ppb |
| cadmium | 4.1 ppm | 0.0 ppm <10ppb |
| lead | 1.2 ppm | 0.0 ppm <10ppb |
| mercury | 0.4 ppm | 0.0 ppm <10ppb |

Microbial

| MT limit | OGX02 | LOQ |
|-----------------------|--------|---------------|
| Aflatoxin B1,B2,G1,G2 | 20 ppb | 0 ppb <20 ppb |
| Ochratoxin A | 20 ppb | 0 ppb <20 ppb |

microbial not tested

Comments

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CTLA ID: 21700
 Date Received: 9/29/2020
 Sample Name: Organic FS MCT Key Lime 450 Packaging
 Lot Number: 200921A
 Customer:

| Analysis | Method | MDL Specification | Result | Units |
|------------------------------|-------------|-------------------|----------|-------|
| Rapid Complete Micro | | | | |
| Total Plate Count | USP <2021> | 100 Report | <100 | cfu/g |
| Total Coliforms | BAM CH.4 | 10 Report | <10 | cfu/g |
| <i>E. coli</i> | USP <2022> | Report | Negative | |
| <i>Salmonella</i> | USP <2022> | Report | Negative | |
| <i>Staphylococcus aureus</i> | USP <2022> | Report | Negative | |
| Rapid Yeast and Mold | AOAC 997.02 | 10 Report | <10 | cfu/g |

10/1/2020
 DATE


 Quality Manager

Specifications provided by the Customer. Results with an asterisk (*) denote Specifications should be reviewed by the Customer. This Certificate of Analysis represents data for the sample submitted and does not constitute a guarantee of quality for the entire product from which it was taken. These results are provided for the benefit of the Customer. MDL = Method Detection Limit.