

# Koi Naturals Hemp Extract CBD Oil Tincture | Orange Flavor (2000 mg)

Sample ID: 2111CSALA7741.1282

Matrix: Concentrates &amp; Extracts

Type: Tincture

Sample Size: 1 units

Batch Size:

Batch#: 2126BB1123

Produced: 11/02/2021

Collected: 11/03/2021

Received: 11/03/2021

Completed: 11/08/2021

Client

**Koi CBD**

Lic. #

14631 Best Ave

Norwalk, CA 90650



## Summary

**Pass**

|   |                           |                                  |
|---|---------------------------|----------------------------------|
| <b>2481.4217 mg/package</b><br>Total Cannabinoids | <b>Pass</b><br>Pesticides | <b>Pass</b><br>Residual Solvents |
| <b>Pass</b><br>Microbials                         | <b>Pass</b><br>Mycotoxins | <b>Pass</b><br>Heavy Metals      |

## Cannabinoids

**Pass**

Testing method: HPLC-SOP 101

| Analyte | LOD        | LOQ        | Results    | Results |
|---------|------------|------------|------------|---------|
|         | mg/package | mg/package | mg/package | mg/ml   |
| CBD     | 0.4911     | 0.7016     | 2198.9562  | 73.2985 |
| CBT *   | 0.5893     | 2.7362     | 89.2268    | 2.9742  |
| CBC     | 0.5978     | 0.7016     | 82.5860    | 2.7529  |
| CBN     | 0.6876     | 0.7016     | 69.2492    | 2.3083  |
| CBG     | 0.6427     | 0.7016     | 27.5149    | 0.9172  |
| CBDV    | 0.5725     | 0.7016     | 12.7989    | 0.4266  |
| THCV    | 0.6791     | 0.7016     | 1.0896     | 0.0363  |
| CBCA *  | 0.6202     | 0.7016     | ND         | ND      |
| CBDa    | 0.3732     | 0.7016     | ND         | ND      |
| CBDVA * | 0.6679     | 0.7016     | ND         | ND      |
| CBGa    | 0.5248     | 0.7016     | ND         | ND      |
| THCa    | 0.5164     | 0.7016     | ND         | ND      |
| THCVA * | 0.682      | 0.7016     | ND         | ND      |
| Δ8-THC  | 0.6174     | 0.7016     | ND         | ND      |
| Δ9-THC  | 0.5809     | 0.7016     | ND         | ND      |

**ND**
**Total THC**
**2198.9562 mg/package**
**Total CBD**

Package = 1 Bottle, 30.0 milliliters; Density = 0.93546 g/ml; 0.0 mg/package

Total THC; 2198.9562 mg/package Total CBD;

Date Tested: 11/05/2021

Total THC = THCa \* 0.877 + d9-THC

Total CBD = CBDa \* 0.877 + CBD

LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.

\* Denotes analytes pending ISO-17025 scope addition

## Terpenes

**Complete**

Testing method: HS-GC-FID - SOP 201

| Analyte             | LOD   | LOQ    | Results     | Results     |
|---------------------|-------|--------|-------------|-------------|
|                     | %     | %      | %           | mg/g        |
| δ-Limonene          | 0.005 | 0.0159 | 0.04        | 0.37        |
| α-Bisabolol         | 0.01  | 0.0295 | <LOQ        | <LOQ        |
| Guaiol              | 0.011 | 0.0334 | <LOQ        | <LOQ        |
| trans-Nerolidol     | 0.007 | 0.0219 | <LOQ        | <LOQ        |
| β-Myrcene           | 0.008 | 0.024  | <LOQ        | <LOQ        |
| Linalool            | 0.008 | 0.0228 | ND          | ND          |
| Camphene            | 0.005 | 0.0163 | ND          | ND          |
| Caryophyllene Oxide | 0.029 | 0.0874 | ND          | ND          |
| Eucalyptol          | 0.006 | 0.0175 | ND          | ND          |
| Geraniol            | 0.007 | 0.0205 | ND          | ND          |
| Isopulegol          | 0.009 | 0.0282 | ND          | ND          |
| Ocimene             | 0.004 | 0.0109 | ND          | ND          |
| p-Cymene            | 0.005 | 0.0162 | ND          | ND          |
| Terpinolene         | 0.006 | 0.0168 | ND          | ND          |
| α-Humulene          | 0.006 | 0.0173 | ND          | ND          |
| α-Pinene            | 0.006 | 0.0175 | ND          | ND          |
| α-Terpinene         | 0.005 | 0.0165 | ND          | ND          |
| β-Caryophyllene     | 0.006 | 0.0173 | ND          | ND          |
| β-Pinene            | 0.005 | 0.0147 | ND          | ND          |
| γ-Terpinene         | 0.006 | 0.0168 | ND          | ND          |
| δ-3-Carene          | 0.005 | 0.016  | ND          | ND          |
| <b>Total</b>        |       |        | <b>0.04</b> | <b>0.37</b> |

Date Tested: 11/04/2021

|  |   |   |
|--|---|---|
| <b>NT</b><br>Moisture<br>Moisture Analyzer SOP-103 | <b>NT</b><br>Water Activity<br>Water Activity Meter SOP-102 | <b>Pass</b><br>Foreign Matter<br>Visual Inspection SOP-600<br>Date Tested: 11/04/2021 |
|--|---|---|


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### Pesticides

**Pass**

Testing method: LCMS &amp; GCMS-SOP 301 and 302

| Analyte            | LOD    | LOQ    | Limit  | Results | Status | Analyte                 | LOD    | LOQ    | Limit  | Results | Status |
|--------------------|--------|--------|--------|---------|--------|-------------------------|--------|--------|--------|---------|--------|
|                    | µg/g   | µg/g   | µg/g   | µg/g    |        |                         | µg/g   | µg/g   | µg/g   | µg/g    |        |
| Abamectin          | 0.037  | 0.068  | 0.3    | ND      | Pass   | Fludioxonil             | 0.05   | 0.078  | 30     | ND      | Pass   |
| Acephate           | 0.035  | 0.078  | 5      | ND      | Pass   | Hexythiazox             | 0.041  | 0.078  | 2      | ND      | Pass   |
| Acequinocyl        | 0.033  | 0.078  | 4      | ND      | Pass   | Imazalil *              | 0.047  | 0.078  | 0.047  | ND      | Pass   |
| Acetamiprid        | 0.034  | 0.078  | 5      | ND      | Pass   | Imidacloprid            | 0.033  | 0.078  | 3      | ND      | Pass   |
| Aldicarb *         | 0.032  | 0.078  | 0.032  | ND      | Pass   | Kresoxim Methyl         | 0.033  | 0.078  | 1      | ND      | Pass   |
| Azoxystrobin       | 0.033  | 0.078  | 40     | ND      | Pass   | Malathion               | 0.05   | 0.078  | 5      | ND      | Pass   |
| Bifenazate         | 0.069  | 0.078  | 5      | ND      | Pass   | Metalaxyl               | 0.036  | 0.078  | 15     | ND      | Pass   |
| Bifenthrin         | 0.067  | 0.078  | 0.5    | ND      | Pass   | Methiocarb *            | 0.05   | 0.078  | 0.05   | ND      | Pass   |
| Boscalid           | 0.045  | 0.078  | 10     | ND      | Pass   | Methomyl                | 0.04   | 0.078  | 0.1    | ND      | Pass   |
| Captan             | 0.3188 | 0.625  | 5      | ND      | Pass   | Methyl Parathion *      | 0.0387 | 0.0781 | 0.0387 | ND      | Pass   |
| Carbaryl           | 0.04   | 0.078  | 0.5    | ND      | Pass   | Mevinphos *             | 0.034  | 0.078  | 0.034  | ND      | Pass   |
| Carbofuran *       | 0.034  | 0.078  | 0.034  | ND      | Pass   | Myclobutanil            | 0.062  | 0.078  | 9      | ND      | Pass   |
| Chlorantranilprole | 0.033  | 0.078  | 40     | ND      | Pass   | Naled                   | 0.052  | 0.078  | 0.5    | ND      | Pass   |
| Chlordane *        | 0.0245 | 0.0781 | 0.0245 | ND      | Pass   | Oxamyl                  | 0.033  | 0.078  | 0.2    | ND      | Pass   |
| Chlorfenapyr *     | 0.0178 | 0.0781 | 0.0178 | ND      | Pass   | Paclobutrazol *         | 0.062  | 0.078  | 0.062  | ND      | Pass   |
| Chlorpyrifos *     | 0.033  | 0.078  | 0.033  | ND      | Pass   | Pentachloronitrobenzene | 0.0358 | 0.0781 | 0.2    | ND      | Pass   |
| Clofentezine       | 0.047  | 0.078  | 0.5    | ND      | Pass   | Permethrin              | 0.05   | 0.078  | 20     | ND      | Pass   |
| Coumaphos *        | 0.041  | 0.078  | 0.041  | ND      | Pass   | Phosmet                 | 0.033  | 0.078  | 0.2    | ND      | Pass   |
| Cyfluthrin         | 0.148  | 0.156  | 1      | ND      | Pass   | Piperonyl Butoxide      | 0.039  | 0.078  | 8      | ND      | Pass   |
| Cypermethrin       | 0.079  | 0.156  | 1      | ND      | Pass   | Prallethrin             | 0.041  | 0.078  | 0.4    | ND      | Pass   |
| Daminozide *       | 0.043  | 0.078  | 0.043  | ND      | Pass   | Propiconazole           | 0.04   | 0.078  | 20     | ND      | Pass   |
| DDVP *             | 0.037  | 0.078  | 0.037  | ND      | Pass   | Propoxur *              | 0.041  | 0.078  | 0.041  | ND      | Pass   |
| Diazinon           | 0.031  | 0.078  | 0.2    | ND      | Pass   | Pyrethrins              | 0.188  | 0.22   | 1      | ND      | Pass   |
| Dimethoate *       | 0.028  | 0.078  | 0.028  | ND      | Pass   | Pyridaben               | 0.059  | 0.078  | 3      | ND      | Pass   |
| Dimethomorph       | 0.033  | 0.078  | 20     | ND      | Pass   | Spinetoram              | 0.042  | 0.078  | 3      | ND      | Pass   |
| Ethoprophos *      | 0.029  | 0.078  | 0.029  | ND      | Pass   | Spinosad                | 0.038  | 0.079  | 3      | ND      | Pass   |
| Etofenprox *       | 0.038  | 0.078  | 0.038  | ND      | Pass   | Spiromesifen            | 0.038  | 0.078  | 12     | ND      | Pass   |
| Etoxazole          | 0.034  | 0.078  | 1.5    | ND      | Pass   | Spirotetramat           | 0.031  | 0.078  | 13     | ND      | Pass   |
| Fenhexamid         | 0.072  | 0.078  | 10     | ND      | Pass   | Spiroxamine *           | 0.031  | 0.078  | 0.031  | ND      | Pass   |
| Fenoxycarb *       | 0.028  | 0.078  | 0.028  | ND      | Pass   | Tebuconazole            | 0.034  | 0.078  | 2      | ND      | Pass   |
| Fenpyroximate      | 0.025  | 0.078  | 2      | ND      | Pass   | Thiacloprid *           | 0.033  | 0.078  | 0.033  | ND      | Pass   |
| Fipronil *         | 0.057  | 0.078  | 0.057  | ND      | Pass   | Thiamethoxam            | 0.039  | 0.078  | 4.5    | ND      | Pass   |
| Flonicamid         | 0.043  | 0.078  | 2      | ND      | Pass   | Trifloxystrobin         | 0.039  | 0.078  | 30     | ND      | Pass   |

Date Tested: 11/04/2021

\* Denotes Category I pesticides, which fail when detected; LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.


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### Microbials

**Pass**

Testing method: PCR-SOP 401

| Analyte                       | Result       | Status |
|-------------------------------|--------------|--------|
| Salmonella                    | Not Detected | Pass   |
| Shiga toxin-producing E. Coli | Not Detected | Pass   |

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### Mycotoxins

**Pass**

Testing method: LCMS-SOP 301

| Analyte          | LOD   | LOQ   | Limit | Results | Status |
|------------------|-------|-------|-------|---------|--------|
|                  | µg/kg | µg/kg | µg/kg | µg/kg   |        |
| Aflatoxin B1     | 2.0   | 3.9   |       | ND      | Tested |
| Aflatoxin B2     | 3.0   | 3.9   |       | ND      | Tested |
| Aflatoxin G1     | 2.4   | 3.9   |       | ND      | Tested |
| Aflatoxin G2     | 3.1   | 3.9   |       | ND      | Tested |
| Total Aflatoxins | 10.5  | 15.6  | 20    | ND      | Pass   |
| Ochratoxin A     | 6.4   | 15.5  | 20    | ND      | Pass   |

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### Heavy Metals

**Pass**

Testing method: ICPMS-SOP 502

| Analyte | LOD   | LOQ  | Limit | Results | Status |
|---------|-------|------|-------|---------|--------|
|         | µg/g  | µg/g | µg/g  | µg/g    |        |
| Arsenic | 0.005 | 0.05 | 1.5   | <LOQ    | Pass   |
| Cadmium | 0.003 | 0.05 | 0.5   | ND      | Pass   |
| Lead    | 0.01  | 0.05 | 0.5   | <LOQ    | Pass   |
| Mercury | 0.002 | 0.05 | 3     | <LOQ    | Pass   |

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### Residual Solvents

Pass

Testing method: HSGCMS-SOP 202

| Analyte            | LOD   | LOQ    | Limit | Results | Status |
|--------------------|-------|--------|-------|---------|--------|
|                    | µg/g  | µg/g   | µg/g  | µg/g    |        |
| 1,2-Dichloroethane | 0.08  | 1.0    | 1     | ND      | Pass   |
| Acetone            | 9.19  | 50.0   | 5000  | ND      | Pass   |
| Acetonitrile       | 17.49 | 58.35  | 410   | ND      | Pass   |
| Benzene            | 0.09  | 1.0    | 1     | ND      | Pass   |
| Butane             | 35.32 | 117.8  | 5000  | ND      | Pass   |
| Chloroform         | 0.21  | 1.0    | 1     | ND      | Pass   |
| Ethanol            | 14.96 | 50.0   | 5000  | <LOQ    | Pass   |
| Ethyl acetate      | 12.8  | 50.0   | 5000  | ND      | Pass   |
| Ethylene Oxide     | 0.3   | 1.0    | 1     | ND      | Pass   |
| Ethyl ether        | 16.0  | 53.36  | 5000  | ND      | Pass   |
| Heptane            | 42.11 | 140.48 | 5000  | ND      | Pass   |
| Isopropyl alcohol  | 19.79 | 66.02  | 5000  | ND      | Pass   |
| Methanol           | 149.0 | 497.01 | 3000  | ND      | Pass   |
| Methylene chloride | 0.11  | 1.0    | 1     | ND      | Pass   |
| Hexane             | 33.99 | 113.37 | 290   | ND      | Pass   |
| Pentane            | 28.08 | 93.67  | 5000  | ND      | Pass   |
| Propane            | 42.44 | 141.57 | 5000  | ND      | Pass   |
| Toluene            | 23.99 | 80.03  | 890   | ND      | Pass   |
| Trichloroethylene  | 0.06  | 1.0    | 1     | ND      | Pass   |
| Total xylenes      | 65.49 | 218.45 | 2170  | ND      | Pass   |

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