

# Koi Naturals Hemp Extract CBD Oil Tincture | Lemon-Lime Flavor (2000 mg)

Sample ID: 2112CSALA8129.2412

Matrix: Concentrates & Extracts

Type: Tincture

Sample Size: 1 units

Batch Size: 600 units

Batch#: 2190BB1123

Produced: 11/08/2021

Collected: 12/02/2021

Received: 12/02/2021

Completed: 12/07/2021

Client

Koi CBD

Lic. #

14631 Best Ave

Norwalk, CA 90650



## Summary

Pass

|   |                           |                                  |
|---|---------------------------|----------------------------------|
| <b>2394.0283 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/ml  | mg/ml  | mg/ml   | mg/package |
| CBD     | 0.0167 | 0.0239 | 71.5256 | 2145.7693  |
| CBT *   | 0.0201 | 0.0933 | 2.6742  | 80.2269    |
| CBC     | 0.0204 | 0.0239 | 2.4839  | 74.5165    |
| CBN     | 0.0234 | 0.0239 | 1.5864  | 47.5912    |
| CBG     | 0.0219 | 0.0239 | 0.9870  | 29.6098    |
| CBDV    | 0.0195 | 0.0239 | 0.5438  | 16.3145    |
| CBCA *  | 0.0211 | 0.0239 | ND      | ND         |
| CBDa    | 0.0127 | 0.0239 | ND      | ND         |
| CBDVA * | 0.0228 | 0.0239 | ND      | ND         |
| CBGa    | 0.0179 | 0.0239 | ND      | ND         |
| THCa    | 0.0176 | 0.0239 | ND      | ND         |
| THCV    | 0.0231 | 0.0239 | ND      | ND         |
| THCVA * | 0.0232 | 0.0239 | ND      | ND         |
| Δ8-THC  | 0.021  | 0.0239 | ND      | ND         |
| Δ9-THC  | 0.0198 | 0.0239 | ND      | ND         |

ND

Total THC

2145.7693 mg/package

Total CBD

Package = 1 Tincture Bottle, 30.0 milliliters; Density = 0.9566 g/ml; 0.0

mg/package Total THC; 2145.7693 mg/package Total CBD;

Date Tested: 12/05/2021

Total THC = THCa \* 0.877 + d9-THC

Total CBD = CBDa \* 0.877 + CBD

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\* 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 | 0.5796        | 5.7957        |
| γ-Terpinene         | 0.006 | 0.0168 | 0.0940        | 0.9397        |
| β-Pinene            | 0.005 | 0.0147 | 0.0811        | 0.8111        |
| Terpinolene         | 0.006 | 0.0168 | 0.0448        | 0.4475        |
| β-Myrcene           | 0.008 | 0.024  | 0.0261        | 0.2606        |
| α-Pinene            | 0.006 | 0.0175 | 0.0245        | 0.2448        |
| Caryophyllene Oxide | 0.029 | 0.0874 | ND            | ND            |
| Isopulegol          | 0.009 | 0.0282 | <LOQ          | <LOQ          |
| p-Cymene            | 0.005 | 0.0162 | <LOQ          | <LOQ          |
| α-Bisabolol         | 0.01  | 0.0295 | <LOQ          | <LOQ          |
| Guaiol              | 0.011 | 0.0334 | <LOQ          | <LOQ          |
| trans-Nerolidol     | 0.007 | 0.0219 | <LOQ          | <LOQ          |
| Linalool            | 0.008 | 0.0228 | ND            | ND            |
| α-Terpinene         | 0.005 | 0.0165 | <LOQ          | <LOQ          |
| Eucalyptol          | 0.006 | 0.0175 | ND            | ND            |
| α-Humulene          | 0.006 | 0.0173 | ND            | ND            |
| Camphene            | 0.005 | 0.0163 | ND            | ND            |
| β-Caryophyllene     | 0.006 | 0.0173 | ND            | ND            |
| δ-3-Carene          | 0.005 | 0.016  | ND            | ND            |
| Geraniol            | 0.007 | 0.0205 | ND            | ND            |
| Ocimene             | 0.004 | 0.0109 | ND            | ND            |
| <b>Total</b>        |       |        | <b>0.8499</b> | <b>8.4994</b> |

Date Tested: 12/03/2021

|  |   |   |
|--|---|---|
| <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: 12/03/2021 |
|--|---|---|



ISO / IEC 17025:2017 ACCREDITED  
LABORATORY  
Accreditation No. 73653

*Neyabchian*

Neya Jourabchian  
Laboratory Director  
12/07/2021

*Mikaela Gutierrez*

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COA Review  
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### Pesticides

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

**Pass**

| 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   |
| Chlorantraniliprole | 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: 12/03/2021

\* 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   |

Date Tested: 12/06/2021

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

### 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   |

Date Tested: 12/03/2021

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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   | ND      | Pass   |
| Cadmium | 0.003 | 0.05 | 0.5   | ND      | Pass   |
| Lead    | 0.01  | 0.05 | 0.5   | ND      | Pass   |
| Mercury | 0.002 | 0.05 | 3     | ND      | Pass   |

Date Tested: 12/07/2021

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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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