

Koi Naturals Hemp Extract CBD Oil Tincture | Orange (250 mg)

Sample ID: 2112CSALA8205.2588

Matrix: Concentrates & Extracts

Type: Tincture

Sample Size: 1 units

Batch Size: 1600 units

Batch#: 2267BB1223

Produced: 12/06/2021

Collected: 12/07/2021

Received: 12/07/2021

Completed: 12/10/2021

Client

Koi CBD

Lic. #

14631 Best Ave

Norwalk, CA 90650



Summary

Pass

| | | |
|--|---------------------------|----------------------------------|
| 288.8965 mg/package Total Cannabinoids | Pass Pesticides | Pass Residual Solvents |
| Pass Microbials | Pass Mycotoxins | Pass Heavy Metals |

Cannabinoids

Pass

Testing method: HPLC-SOP 101

| Analyte | LOD | LOQ | Results | Results |
|---------|--------|--------|---------|------------|
| | mg/ml | mg/ml | mg/ml | mg/package |
| CBD | 0.0164 | 0.0234 | 8.8403 | 261.4418 |
| CBC | 0.02 | 0.0234 | 0.2961 | 8.7574 |
| CBT * | 0.0197 | 0.0914 | 0.2664 | 7.8776 |
| CBN | 0.023 | 0.0234 | 0.1746 | 5.1642 |
| CBG | 0.0215 | 0.0234 | 0.1008 | 2.9820 |
| CBDV | 0.0191 | 0.0234 | 0.0904 | 2.6735 |
| CBCA * | 0.0207 | 0.0234 | ND | ND |
| CBDa | 0.0125 | 0.0234 | ND | ND |
| CBDVA * | 0.0223 | 0.0234 | ND | ND |
| CBGa | 0.0175 | 0.0234 | ND | ND |
| THCa | 0.0172 | 0.0234 | ND | ND |
| THCV | 0.0227 | 0.0234 | ND | ND |
| THCVA * | 0.0228 | 0.0234 | ND | ND |
| Δ8-THC | 0.0206 | 0.0234 | ND | ND |
| Δ9-THC | 0.0194 | 0.0234 | ND | ND |

| | |
|------------------------|---|
| ND Total THC | 261.4418 mg/package Total CBD |
|------------------------|---|

Package = 1 Jar, 1.0 fluid_ounces; Density = 0.9373 g/ml; 0.0 mg/package Total THC; 261.4418 mg/package Total CBD;

Date Tested: 12/10/2021

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 | 0.0330 | 0.3298 |
| Caryophyllene Oxide | 0.029 | 0.0874 | ND | ND |
| Guaiol | 0.011 | 0.0334 | ND | ND |
| α-Bisabolol | 0.01 | 0.0295 | ND | ND |
| β-Myrcene | 0.008 | 0.024 | ND | ND |
| Ocimene | 0.004 | 0.0109 | <LOQ | <LOQ |
| Linalool | 0.008 | 0.0228 | ND | ND |
| Camphene | 0.005 | 0.0163 | ND | ND |
| Eucalyptol | 0.006 | 0.0175 | ND | ND |
| Geraniol | 0.007 | 0.0205 | ND | ND |
| Isopulegol | 0.009 | 0.0282 | ND | ND |
| p-Cymene | 0.005 | 0.0162 | ND | ND |
| Terpinolene | 0.006 | 0.0168 | ND | ND |
| trans-Nerolidol | 0.007 | 0.0219 | 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 |
| Total | | | 0.0330 | 0.3298 |

Date Tested: 12/07/2021

| | | |
|--|---|---|
| NT Moisture Moisture Analyzer SOP-103 | NT Water Activity Water Activity Meter SOP-102 | Pass Foreign Matter Visual Inspection SOP-600 Date Tested: 12/07/2021 |
|--|---|---|



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

Neyabourchian

Neyabourchian
Laboratory Director
12/10/2021

Mikaela Gutierrez

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COA Review
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Pesticides

Pass

Testing method: LCMS & 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 |
| 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: 12/08/2021

* 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: 12/09/2021

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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 |

Date Tested: 12/08/2021

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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 | <LOQ | Pass |
| Mercury | 0.002 | 0.05 | 3 | ND | Pass |

Date Tested: 12/08/2021

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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 | ND | 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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