

Koi Natural Lemon Lime 500mg

Sample ID: 2007CSALA8645.7580

Strain: Lemon Lime 500mg

Matrix: Concentrates & Extracts

Type: Tincture

Produced: 07/07/2020

Sample Size: 1 units

Collected: 07/10/2020

Batch Size: 1 units

Received: 07/10/2020

Batch#: 1451BB0722

Completed: 07/15/2020

Client

Koi CBD

Lic. #



Summary

Pass

| | | |
|--|---------------------------|----------------------------------|
| 577.18 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/g | mg/g | mg/package | mg/ml |
| CBD | 0.0059 | 0.018 | 501.84 | 16.73 |
| CBG | 0.0047 | 0.0143 | 35.81 | 1.19 |
| CBC | 0.0009 | 0.0027 | 20.34 | 0.68 |
| CBN | 0.0014 | 0.0041 | 13.75 | 0.46 |
| CBDV | 0.0042 | 0.0126 | 5.44 | 0.18 |
| CBDa | 0.0012 | 0.0037 | ND | ND |
| CBGa | 0.0016 | 0.005 | ND | ND |
| THCa | 0.002 | 0.006 | ND | ND |
| THCV | 0.0036 | 0.0111 | ND | ND |
| Δ8-THC | 0.0038 | 0.0115 | ND | ND |
| Δ9-THC | 0.0038 | 0.0115 | ND | ND |
| Total | | | 577.18 | 19.24 |

Terpenes

Complete

Testing method: HS-GC-FID - SOP 201

| Analyte | LOD | LOQ | Results | Results |
|---------------------|---------|--------|-------------|-------------|
| | % | % | % | mg/g |
| δ-Limonene | 0.00016 | 0.0013 | 0.64 | 6.38 |
| γ-Terpinene | 0.00012 | 0.0013 | 0.12 | 1.17 |
| β-Pinene | 0.00034 | 0.0013 | 0.11 | 1.07 |
| Terpinolene | 0.00016 | 0.0013 | 0.05 | 0.54 |
| α-Pinene | 0.00015 | 0.0013 | 0.03 | 0.29 |
| p-Cymene | 0.0001 | 0.0013 | 0.02 | 0.22 |
| β-Myrcene | 0.00012 | 0.0013 | 0.02 | 0.20 |
| Camphene | 0.00072 | 0.0013 | ND | ND |
| Caryophyllene Oxide | 0.00017 | 0.0013 | ND | ND |
| Eucalyptol | 0.00017 | 0.0013 | ND | ND |
| Geraniol | 0.00013 | 0.0013 | ND | ND |
| Guaial | 0.00018 | 0.0013 | ND | ND |
| Isopulegol | 0.00011 | 0.0013 | ND | ND |
| Linalool | 0.00015 | 0.0013 | ND | ND |
| Ocimene | 0.00013 | 0.0013 | ND | ND |
| trans-Nerolidol | 0.00058 | 0.0013 | ND | ND |
| α-Bisabolol | 0.00015 | 0.0013 | ND | ND |
| α-Humulene | 0.00057 | 0.0013 | ND | ND |
| α-Terpinene | 0.00012 | 0.0013 | ND | ND |
| β-Caryophyllene | 0.00017 | 0.0013 | ND | ND |
| δ-3-Carene | 0.0004 | 0.0013 | ND | ND |
| Total | | | 0.99 | 9.87 |

| | |
|------------------------|---------------------------------------|
| ND Total THC | 501.84 mg/package Total CBD |
|------------------------|---------------------------------------|

Package = 1 Tincture, 30.0 milliliters; Density = 0.9548 g/ml; 0.0 mg/package

Total THC; 501.84 mg/package Total CBD;

Date Tested: 07/14/2020

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.

Date Tested: 07/13/2020

| | | |
|--|---|---|
| NT Moisture Moisture Analyzer SOP-103 | NT Water Activity Water Activity Meter SOP-102 | Pass Foreign Matter Visual Inspection SOP-600 Date Tested: 07/13/2020 |
|--|---|---|



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

Mallory Speakman
Laboratory Director - LA
07/15/2020

Anya Engen
Quality Review
07/15/2020

Musa Aman
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 | 0.0009 | 0.003 | 0.3 | ND | Pass | Fludioxonil | 0.0143 | 0.048 | 30 | ND | Pass |
| Acephate | 0.005 | 0.017 | 5 | ND | Pass | Hexythiazox | 0.0237 | 0.079 | 2 | ND | Pass |
| Acequinocyl | 0.0193 | 0.064 | 4 | ND | Pass | Imazalil * | 0.0077 | 0.026 | 0.0077 | ND | Pass |
| Acetamidrid | 0.0073 | 0.024 | 5 | ND | Pass | Imidacloprid | 0.0053 | 0.018 | 3 | ND | Pass |
| Aldicarb * | 0.0094 | 0.031 | 0.0094 | ND | Pass | Kresoxim Methyl | 0.0182 | 0.061 | 1 | ND | Pass |
| Azoxystrobin | 0.015 | 0.05 | 40 | ND | Pass | Malathion | 0.015 | 0.05 | 5 | ND | Pass |
| Bifenazate | 0.0129 | 0.043 | 5 | ND | Pass | Metalaxyl | 0.0076 | 0.025 | 15 | ND | Pass |
| Bifenthrin | 0.029 | 0.097 | 0.5 | ND | Pass | Methiocarb * | 0.0103 | 0.034 | 0.0103 | ND | Pass |
| Boscalid | 0.0172 | 0.058 | 10 | ND | Pass | Methomyl | 0.0109 | 0.036 | 0.1 | ND | Pass |
| Captan | 0.036 | 0.12 | 5 | ND | Pass | Methyl Parathion * | 0.0091 | 0.0303 | 0.0091 | ND | Pass |
| Carbaryl | 0.0542 | 0.181 | 0.5 | ND | Pass | Mevinphos * | 0.0041 | 0.014 | 0.0041 | ND | Pass |
| Carbofuran * | 0.0077 | 0.026 | 0.0077 | ND | Pass | Myclobutanil | 0.01 | 0.033 | 9 | ND | Pass |
| Chlorantraniliprole | 0.0095 | 0.032 | 40 | ND | Pass | Naled | 0.0107 | 0.036 | 0.5 | ND | Pass |
| Chlordane * | 0.0055 | 0.0182 | 0.0055 | ND | Pass | Oxamyl | 0.0071 | 0.024 | 0.2 | ND | Pass |
| Chlorfenapyr * | 0.0048 | 0.0159 | 0.0048 | ND | Pass | Paclobutrazol * | 0.0092 | 0.031 | 0.0092 | ND | Pass |
| Chlorpyrifos * | 0.0197 | 0.066 | 0.0197 | ND | Pass | Pentachloronitrobenzene | 0.0084 | 0.0279 | 0.2 | ND | Pass |
| Clofentezine | 0.0216 | 0.072 | 0.5 | ND | Pass | Permethrin | 0.0142 | 0.048 | 20 | ND | Pass |
| Coumaphos * | 0.0196 | 0.065 | 0.0196 | ND | Pass | Phosmet | 0.0138 | 0.046 | 0.2 | ND | Pass |
| Cyfluthrin | 0.0107 | 0.036 | 1 | ND | Pass | Piperonyl Butoxide | 0.0156 | 0.052 | 8 | ND | Pass |
| Cypermethrin | 0.0105 | 0.035 | 1 | ND | Pass | Prallethrin | 0.018 | 0.06 | 0.4 | ND | Pass |
| Daminozide * | 0.0052 | 0.017 | 0.0052 | ND | Pass | Propiconazole | 0.013 | 0.043 | 20 | ND | Pass |
| DDVP * | 0.0081 | 0.027 | 0.0081 | ND | Pass | Propoxur * | 0.0097 | 0.033 | 0.0097 | ND | Pass |
| Diazinon | 0.0134 | 0.045 | 0.2 | ND | Pass | Pyrethrins | 0.0025 | 0.008 | 1 | ND | Pass |
| Dimethoate * | 0.0083 | 0.028 | 0.0083 | ND | Pass | Pyridaben | 0.0236 | 0.079 | 3 | ND | Pass |
| Dimethomorph | 0.0025 | 0.008 | 20 | ND | Pass | Spinetoram | 0.0042 | 0.014 | 3 | ND | Pass |
| Ethoprophos * | 0.0112 | 0.037 | 0.0112 | ND | Pass | Spinosad | 0.0002 | 0.001 | 3 | ND | Pass |
| Etofenprox * | 0.0247 | 0.082 | 0.0247 | ND | Pass | Spiromesifen | 0.0199 | 0.066 | 12 | ND | Pass |
| Etoazole | 0.0269 | 0.09 | 1.5 | ND | Pass | Spirotetramat | 0.0068 | 0.023 | 13 | ND | Pass |
| Fenhexamid | 0.0215 | 0.072 | 10 | ND | Pass | Spiroxamine * | 0.0065 | 0.022 | 0.0065 | ND | Pass |
| Fenoxycarb * | 0.0186 | 0.062 | 0.0186 | ND | Pass | Tebuconazole | 0.0099 | 0.033 | 2 | ND | Pass |
| Fenpyroximate | 0.0253 | 0.084 | 2 | ND | Pass | Thiacloprid * | 0.0094 | 0.031 | 0.0094 | ND | Pass |
| Fipronil * | 0.0228 | 0.076 | 0.0228 | ND | Pass | Thiamethoxam | 0.005 | 0.017 | 4.5 | ND | Pass |
| Flonicamid | 0.0073 | 0.024 | 2 | ND | Pass | Trifloxystrobin | 0.0192 | 0.064 | 30 | ND | Pass |

Date Tested: 07/15/2020

* 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 | 0.0036 | 0.012 | | ND | Tested |
| Aflatoxin B2 | 0.0092 | 0.031 | | ND | Tested |
| Aflatoxin G1 | 0.0058 | 0.019 | | ND | Tested |
| Aflatoxin G2 | 0.0034 | 0.011 | | ND | Tested |
| Total Aflatoxins | | | 20 | ND | Pass |
| Ochratoxin A | 0.0113 | 0.038 | 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 | 0.02 | 0.06 | 1.5 | ND | Pass |
| Cadmium | 0.03 | 0.1 | 0.5 | ND | Pass |
| Lead | 0.002 | 0.005 | 0.5 | ND | Pass |
| Mercury | 0.02 | 0.06 | 3 | ND | Pass |

Date Tested: 07/15/2020

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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-Dichloro-Ethane | 0.1 | 0.4 | 1 | ND | Pass |
| Acetone | 64.0 | 214.0 | 5000 | ND | Pass |
| Acetonitrile | 36.0 | 119.0 | 410 | ND | Pass |
| Benzene | 0.1 | 0.2 | 1 | ND | Pass |
| Butane | 42.0 | 141.0 | 5000 | ND | Pass |
| Chloroform | 0.1 | 0.4 | 1 | ND | Pass |
| Ethanol | 59.0 | 197.0 | 5000 | ND | Pass |
| Ethyl-Acetate | 43.0 | 144.0 | 5000 | ND | Pass |
| Ethylene Oxide | 0.2 | 0.6 | 1 | ND | Pass |
| Ethyl-Ether | 40.0 | 134.0 | 5000 | ND | Pass |
| Heptane | 46.0 | 154.0 | 5000 | ND | Pass |
| Isopropanol | 41.0 | 138.0 | 5000 | ND | Pass |
| Methanol | 160.0 | 534.0 | 3000 | ND | Pass |
| Methylene-Chloride | 0.1 | 0.4 | 1 | ND | Pass |
| n-Hexane | 42.0 | 139.0 | 290 | ND | Pass |
| Pentane | 69.0 | 229.0 | 5000 | ND | Pass |
| Propane | 21.0 | 70.0 | 5000 | ND | Pass |
| Toluene | 47.0 | 156.0 | 890 | ND | Pass |
| Trichloroethene | 0.1 | 0.4 | 1 | ND | Pass |
| Xylenes | 86.0 | 287.0 | 2170 | ND | Pass |

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