

# CERTIFICATE OF ANALYSIS

## ISO/IEC 17025:2017 ACCREDITATION #103104



Order #: 37230  
 Order Name: Koi Tropical  
 Popsicle 100 mg  
 Batch#: 9273PU100  
 Received: 10/01/2019  
 Completed: 10/11/2019



Koi CBD LLC  
 14631 Best Ave  
 Norwalk California, 90650  
 (877) 774-4779  
 tinh@koicbd.com



### Sample



|                                   |                          |
|-----------------------------------|--------------------------|
| N/D<br>D9-THC                     | 0.286%<br>Total CBD      |
| 100.4 mg<br>Cannabinoids per unit | 100.4 mg<br>CBD per unit |

1 unit = 30 ml per unit x density (1.17) x Cannabinoid concentration

### Cannabinoids Test

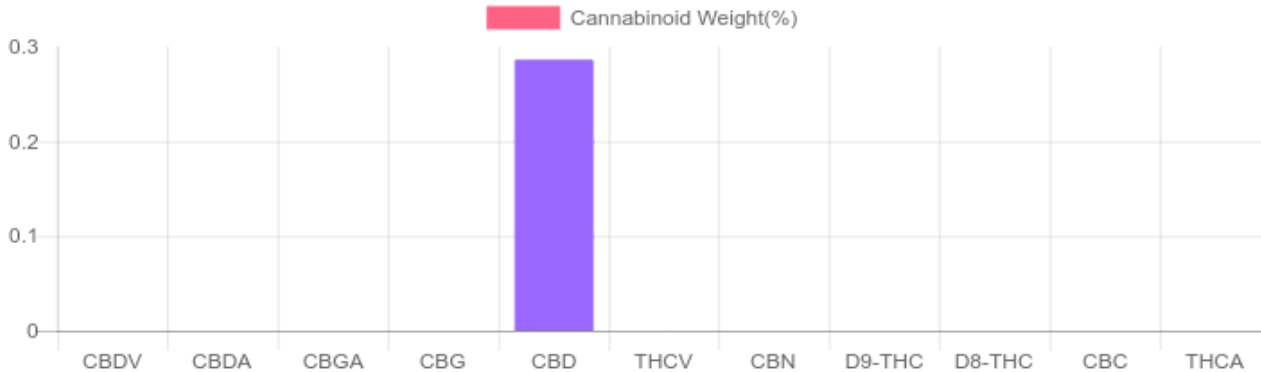
SHIMADZU INTEGRATED UPLC-PDA  
 GSL SOP 400      PREPARED: 10/03/2019 21:40:44      UPLOADED: 10/04/2019 11:48:34

| Cannabinoids       | LOQ    | weight(%)     | mg/g         | mg/unit      |
|--------------------|--------|---------------|--------------|--------------|
| D9-THC             | 10 PPM | N/D           | N/D          | N/D          |
| THCA               | 10 PPM | N/D           | N/D          | N/D          |
| CBD                | 10 PPM | <b>0.286%</b> | <b>2.860</b> | <b>100.4</b> |
| CBDA               | 20 PPM | N/D           | N/D          | N/D          |
| CBDV               | 20 PPM | N/D           | N/D          | N/D          |
| CBC                | 10 PPM | N/D           | N/D          | N/D          |
| CBN                | 10 PPM | N/D           | N/D          | N/D          |
| CBG                | 10 PPM | N/D           | N/D          | N/D          |
| CBGA               | 20 PPM | N/D           | N/D          | N/D          |
| D8-THC             | 10 PPM | N/D           | N/D          | N/D          |
| THCV               | 10 PPM | N/D           | N/D          | N/D          |
| TOTAL D9-THC       |        | N/D           | N/D          | N/D          |
| TOTAL CBD*         |        | <b>0.286%</b> | <b>2.860</b> | <b>100.4</b> |
| TOTAL CANNABINOIDS |        | <b>0.286%</b> | <b>2.860</b> | <b>100.4</b> |

### Vitamin E Acetate Test

SHIMADZU INTEGRATED UPLC-PDA  
 GSL SOP 412.01      UPLOADED: 10/10/2019 20:49:05

**Pass: No Vitamin E Acetate Detected**



Reporting Limit 10 ppm  
 \*Total CBD = CBD + CBDA x 0.877  
 N/D - Not Detected, B/LOQ - Below Limit of Quantification



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### TERPENES: TOTAL (0.003%)

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

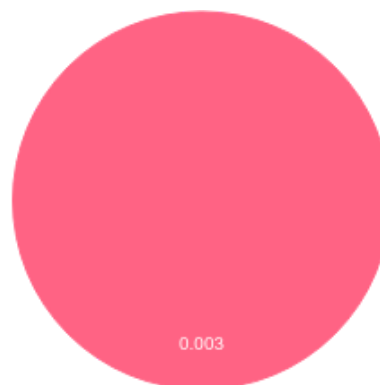
GSL SOP 404

Prepared: 10/03/2019 21:01:34

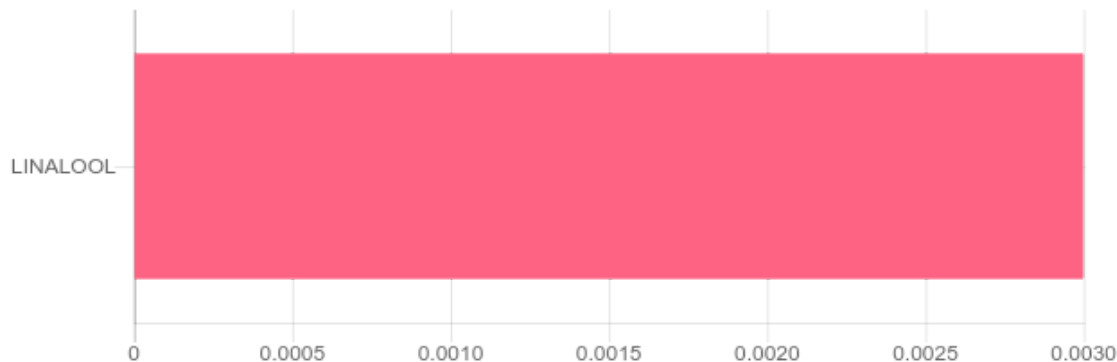
Uploaded: 10/04/2019 19:09:30

| Terpene  | Results (%) | LOQ (%) | LOD (%) |
|----------|-------------|---------|---------|
| LINALOOL | B/LOQ       | 0.0067% | 0.0063% |

### Terpenes Breakdown



### Top Terpenes Results:



### Tested for but not present:

ALPHA-PINENE, CAMPHENE, BETA-MYRCENE, BETA-PINENE, 3-CARENE, ALPHA-TERPINENE, TRANS-BETA-OCIMENE, LIMONENE, P-CYMENE, CIS-BETA-OCIMENE, EUCALYPTOL, GAMMA-TERPINENE, TERPINOLENE, ISOPULEGOL, GERANIOL, CARYOPHYLLENE, HUMULENE, CIS-NEROLIDOL, TRANS-NEROLIDOL, GUAJOL, CARYOPHYLLENE OXIDE, ALPHA-BISABOLOL



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### PESTICIDE ANALYSIS:

GSL SOP 401

PREPARED: 10/03/2019 21:52:12

UPLOADED: 10/04/2019 20:44:29

GCMS-MS - Shimadzu GCMS-TQ8040

| Pesticide    | Action Level (ppm) | Results (ppm) | LOQ (ppm) | LOD (ppm) |
|--------------|--------------------|---------------|-----------|-----------|
| CAPTAN       | 0.700              | N/D           | 0.003     | 0.001     |
| CHLORDANE    | 0.100              | N/D           | 0.003     | 0.001     |
| CHLORFENAPYR | 0.100              | N/D           | 0.003     | 0.001     |
| COUMAPHOS    | 0.100              | N/D           | 0.003     | 0.001     |

| Pesticide               | Action Level (ppm) | Results (ppm) | LOQ (ppm) | LOD (ppm) |
|-------------------------|--------------------|---------------|-----------|-----------|
| CYFLUTHRIN              | 2.000              | N/D           | 0.003     | 0.001     |
| CYPERMETHRIN            | 1.000              | N/D           | 0.003     | 0.001     |
| PARATHION-METHYL        | 0.100              | N/D           | 0.003     | 0.001     |
| PENTACHLORONITROBENZENE | 0.100              | N/D           | 0.003     | 0.001     |

LCMS-MS - Shimadzu LCMS-8060

| Pesticide           | Action Level (ppm) | Results (ppm) | LOQ (ppm) | LOD (ppm) |
|---------------------|--------------------|---------------|-----------|-----------|
| ABAMECTIN B1A       | 0.100              | N/D           | 0.005     | 0.001     |
| ACEPHATE            | 0.100              | N/D           | 0.001     | 0.001     |
| ACEQUINOCYL         | 0.100              | N/D           | 0.001     | 0.001     |
| ACETAMIPRID         | 0.100              | N/D           | 0.005     | 0.001     |
| ALDICARB            | 0.100              | N/D           | 0.005     | 0.001     |
| AZOXYSTROBIN        | 0.100              | N/D           | 0.001     | 0.001     |
| BIFENAZATE          | 0.100              | N/D           | 0.005     | 0.001     |
| BIFENTHRIN          | 3.000              | N/D           | 0.005     | 0.001     |
| BOSCALID            | 0.100              | N/D           | 0.005     | 0.001     |
| CARBARYL            | 0.500              | N/D           | 0.003     | 0.001     |
| CARBOFURAN          | 0.100              | N/D           | 0.001     | 0.001     |
| CHLORANTRANILIPROLE | 10.000             | N/D           | 0.005     | 0.005     |
| CHLORPYRIFOS        | 0.100              | N/D           | 0.001     | 0.001     |
| CLOFENTEZINE        | 0.100              | N/D           | 0.001     | 0.001     |
| DAMINOZIDE          | 0.100              | N/D           | 0.005     | 0.001     |
| DIAZANON            | 0.100              | N/D           | 0.001     | 0.001     |
| DICHLORVOS          | 0.100              | N/D           | 0.005     | 0.001     |
| DIMETHOATE          | 0.100              | N/D           | 0.001     | 0.001     |
| DIMETHOMORPH        | 2.000              | N/D           | 0.005     | 0.001     |
| ETHOPROPHOS         | 0.100              | N/D           | 0.001     | 0.001     |
| ETOFENPROX          | 0.100              | N/D           | 0.001     | 0.001     |
| ETOXAZOLE           | 0.100              | N/D           | 0.010     | 0.005     |
| FENHEXAMID          | 0.100              | N/D           | 0.005     | 0.001     |
| FENOXYCARB          | 0.100              | N/D           | 0.005     | 0.001     |
| FENPYROXIMATE       | 0.100              | N/D           | 0.001     | 0.001     |
| FIPRONIL            | 0.100              | N/D           | 0.003     | 0.001     |
| FLONICAMID          | 0.100              | N/D           | 0.025     | 0.010     |
| FLUDIOXONIL         | 0.100              | N/D           | 0.003     | 0.001     |
| HEXYTHIAZOX         | 0.100              | N/D           | 0.005     | 0.001     |

| Pesticide       | Action Level (ppm) | Results (ppm) | LOQ (ppm) | LOD (ppm) |
|-----------------|--------------------|---------------|-----------|-----------|
| IMAZALIL        | 0.100              | N/D           | 0.005     | 0.001     |
| IMIDACLOPRID    | 5.000              | N/D           | 0.005     | 0.001     |
| KRESOXIM-METHYL | 0.100              | N/D           | 0.010     | 0.005     |
| MALATHION       | 0.500              | N/D           | 0.005     | 0.001     |
| METALAXYL       | 2.000              | N/D           | 0.001     | 0.001     |
| METHIOCARB      | 0.100              | N/D           | 0.005     | 0.001     |
| METHOMYL        | 1.000              | N/D           | 0.001     | 0.001     |
| MEVINPHOS       | 0.100              | N/D           | 0.001     | 0.001     |
| MYCLOBUTANIL    | 0.100              | N/D           | 0.005     | 0.001     |
| NALED           | 0.100              | N/D           | 0.005     | 0.001     |
| OXAMYL          | 0.500              | N/D           | 0.001     | 0.001     |
| PACLOBUTRAZOL   | 0.100              | N/D           | 0.005     | 0.001     |
| PERMETHRINS     | 0.500              | N/D           | 0.005     | 0.001     |
| PHOSMET         | 0.100              | N/D           | 0.005     | 0.001     |
| PIPERONYL       |                    |               |           |           |
| BUTOXIDE        | 3.000              | N/D           | 0.001     | 0.001     |
| PRALLETHRIN     | 0.100              | N/D           | 0.005     | 0.005     |
| PROPICONAZOLE   | 0.100              | N/D           | 0.010     | 0.005     |
| PROPOXUR        | 0.100              | N/D           | 0.001     | 0.001     |
| PYRETHRINS      |                    |               |           |           |
| (PYRETHRIN I)   | 0.500              | N/D           | 0.005     | 0.005     |
| PYRIDABEN       | 0.100              | N/D           | 0.005     | 0.001     |
| SPINETORAM      | 0.100              | N/D           | 0.001     | 0.001     |
| SPINOSAD        | 0.100              | N/D           | 0.001     | 0.001     |
| SPIROMESIFEN    | 0.100              | N/D           | 0.005     | 0.001     |
| SPIROTETRAMAT   | 0.100              | N/D           | 0.001     | 0.001     |
| SPIROXAMINE     | 0.100              | N/D           | 0.001     | 0.001     |
| TEBUCONAZOLE    | 0.100              | N/D           | 0.005     | 0.001     |
| THIACLOPRID     | 0.100              | N/D           | 0.001     | 0.001     |
| THIAMETHOXAM    | 5.000              | N/D           | 0.001     | 0.001     |
| TRIFLOXYSTROBIN | 0.100              | N/D           | 0.001     | 0.001     |

N/D = Not Detected, A/LOQ = Above LOQ Level, B/LOQ = Below LOQ Level, B/LOD = Below LOD Level



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### RESIDUAL SOLVENTS:

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

GSL SOP 405

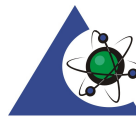
**Prepared:** 10/03/2019 21:06:19

**Uploaded:** 10/11/2019 18:41:27

| Residual Solvent  | Action Level (ppm) | Results (ppm) | LOQ (ppm) | LOD (ppm) |
|-------------------|--------------------|---------------|-----------|-----------|
| ACETONE           | 5,000              | N/D           | 140       | 20        |
| ACETONITRILE      | 410                | N/D           | 25        | 1         |
| BENZENE           | 1                  | N/D           | 1         | 0.5       |
| BUTANE            | 5,000              | N/D           | 50        | 10        |
| CHLOROFORM        | 1                  | N/D           | 1         | 0.5       |
| DICHLOROETHANE    | 1                  | N/D           | 1         | 0.5       |
| DICHLOROMETHANE   | 1                  | N/D           | 1         | 0.5       |
| ETHANOL           | 5,000              | B/LOQ         | 140       | 20        |
| ETHYL ACETATE     | 5,000              | 334           | 140       | 20        |
| ETHYL ETHER       | 5,000              | N/D           | 140       | 20        |
| ISOPROPYL ALCOHOL | 5,000              | N/D           | 140       | 20        |
| METHANOL          | 3,000              | N/D           | 100       | 20        |
| N-HEPTANE         | 5,000              | N/D           | 140       | 20        |
| N-HEXANE          | 290                | N/D           | 18        | 10        |
| PENTANE           | 5,000              | N/D           | 140       | 20        |
| PROPANE           | 5,000              | N/D           | 20        | 1         |
| TOLUENE           | 890                | N/D           | 53        | 1         |
| TRICHLOROETHENE   | 1                  | N/D           | 0         | 0         |
| XYLENES           | 2,170              | N/D           | 130       | 20        |



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### Microbial Analysis:

Microbial Analysis GSL SOP 406

Uploaded: 10/11/2019 14:49:46

PCR - Agilent AriaMX

| Test                   | Test Method Used | Device Used | LOD               | Allowable Criteria | Actual Result   | Pass/Fail |
|------------------------|------------------|-------------|-------------------|--------------------|-----------------|-----------|
| STEC E.COLI*           | USP 61/62†       | ARIAMX PCR  | 2 COPIES OF DNA   | PRESENCE / ABSENT  | BELOW LOD       | PASS      |
| SALMONELLA*            | USP 61/62†       | ARIAMX PCR  | 5 COPIES OF DNA   | PRESENCE / ABSENT  | BELOW LOD       | PASS      |
| ASPERGILLUS            | USP 61/62†       | ARIAMX PCR  | ASP_LOD***        | PRESENCE / ABSENT  | BELOW LOD       | PASS      |
| LISTERIA MONOCYTOGENES |                  | ARIAMX PCR  | 2 COPIES OF DNA   | PRESENCE / ABSENT  | BELOW LOD       | PASS      |
| YEAST AND MOLD         | USP 61/62†       | ARIAMX PCR  | 363.05518 CFU/G** | 1,000              | BELOW THRESHOLD | PASS      |
| TOTAL AEROBIC BACTERIA | USP 61/62†       | ARIAMX PCR  | 0.25316 CFU/G**   | 10,000             | BELOW THRESHOLD | PASS      |
| COLIFORM               | USP 61/62†       | ARIAMX PCR  | 3.41539 CFU/G**   | 100                | BELOW THRESHOLD | PASS      |
| ENTEROBACTERIACEAE     | USP 61/62†       | ARIAMX PCR  | 0.32951 CFU/G**   | 100                | BELOW THRESHOLD | PASS      |

† USP 61 (enumeration of bacteria TAC, TYM, and ENT/Coliform), USP 62 (identifying specific species E.coli Aspergillus etc)

\* STEC and Salmonella run as Multiplex

\*\* CFU/g Calculation based on Select Category Type Gummy MIP/Extract Flower matrix

\*\*\* Flavus = 2 Copies of DNA / Fumigatis = 2 Copies of DNA Niger = 20 Copies of DNA / Terrus = 10 copies of DNA



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PJLA  
 Testing  
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### Mycotoxin Analysis:

LC-MS - Shimadzu LCMS-8060  
GSL SOP 401

Uploaded: 10/04/2019 20:44:29

| Analyte      | Action Lvl (ppb) | Results (ppb) |
|--------------|------------------|---------------|
| AFLATOXIN B1 | 20               | N/D           |
| AFLATOXIN B2 | 20               | N/D           |
| AFLATOXIN G1 | 20               | N/D           |
| AFLATOXIN G2 | 20               | N/D           |
| OCHRATOXIN A | 20               | N/D           |

LOQ is 4ppb, LOD is 1ppb

### Water Activity:

HD-3A Water Activity Meter - GSL SOP 407

Uploaded: 10/05/2019 00:08:14

**Water**

0.06

### Heavy Metals Analysis:

ICP-MS - Shimadzu ICPMS-2030  
GSL SOP 403

Uploaded: 10/04/2019 20:12:19

| Metal        | Action Level (ppb) | Result (ppb) |
|--------------|--------------------|--------------|
| ARSENIC (AS) | 200                | B/LOQ        |
| CADMIUM (CD) | 200                | B/LOQ        |
| MERCURY (HG) | 100                | B/LOQ        |
| LEAD (PB)    | 500                | B/LOQ        |

Lower Limit of Quantitation (LOQ) is 75 ppb

### Filth and Foreign Materials Analysis:

Microscope - Amscope Simul-Focal Trinocular Stereo Zoom Microscope - GSL SOP 409

Uploaded: 10/04/2019 22:05:18

Pass: No Foreign Materials Detected



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