

CERTIFICATE OF ANALYSIS

ISO/IEC 17025:2017 ACCREDITATION #103104



Order #: 37255
Order Name: Koi Blue
 Raspberry Dragon Fruit 250 mg
Batch#: 9273BL250
Received: 10/01/2019
Completed: 10/11/2019



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



Sample



| | |
|--------------------------------------------------|-----------------------------------------|
| <p>N/D D9-THC</p> | <p>0.718% Total CBD</p> |
| <p>252.0 mg Cannabinoids per unit</p> | <p>252.0 mg CBD per unit</p> |

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

Cannabinoids Test

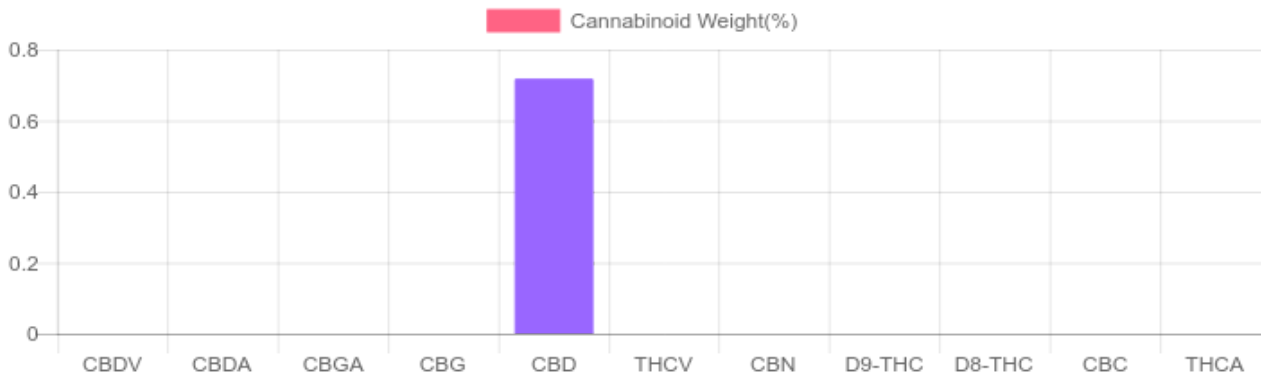
SHIMADZU INTEGRATED UPLC-PDA
 GSL SOP 400 **PREPARED:** 10/03/2019 21:40:44 **UPLOADED:** 10/04/2019 11:48:34

| 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 | 0.718% | 7.180 | 252.0 |
| 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* | | 0.718% | 7.180 | 252.0 |
| TOTAL CANNABINOIDS | | 0.718% | 7.180 | 252.0 |

Vitamin E Acetate Test

SHIMADZU INTEGRATED UPLC-PDA
 GSL SOP 412.01 **UPLOADED:** 10/10/2019 20:41:53

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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 Andrew Hill, Ph.D., CEO & Lab Director

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TERPENES: TOTAL (0.000%)

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

GSL SOP 404

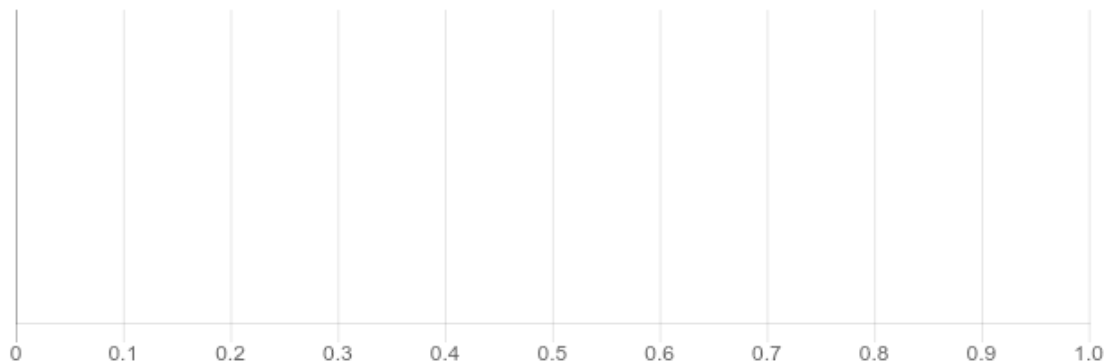
Prepared: 10/03/2019 22:00:03

Uploaded: 10/10/2019 18:07:46

| Terpene | Results (%) | LOQ (%) | LOD (%) |
|---------|-------------|---------|---------|
|---------|-------------|---------|---------|

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, LINALOOL, 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 21:25:21

UPLOADED: 10/04/2019 21:39:49

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 21:54:33

Uploaded: 10/09/2019 18:21:28

| 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 | N/D | 140 | 20 |
| ETHYL ACETATE | 5,000 | N/D | 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 11:56:05

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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Mycotoxin Analysis:

LC-MS - Shimadzu LCMS-8060
GSL SOP 401

Uploaded: 10/04/2019 21:39:49

| 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: 10/08/2019 23:14:29

Water

0.06

Heavy Metals Analysis:

ICP-MS - Shimadzu ICPMS-2030
GSL SOP 403

Uploaded: 10/04/2019 21:42:02

| 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: 10/08/2019 23:23:17

Pass: No Foreign Materials Detected



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