

CERTIFICATE OF ANALYSIS



Order #: 32533
Order Name: Koi Naturals
Strawberry 250 mg
Batch#: 9182NSB250
Received: 06/25/2019
Completed: 06/28/2019



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



Sample



N/D
D9-THC

0.899%
Total CBD

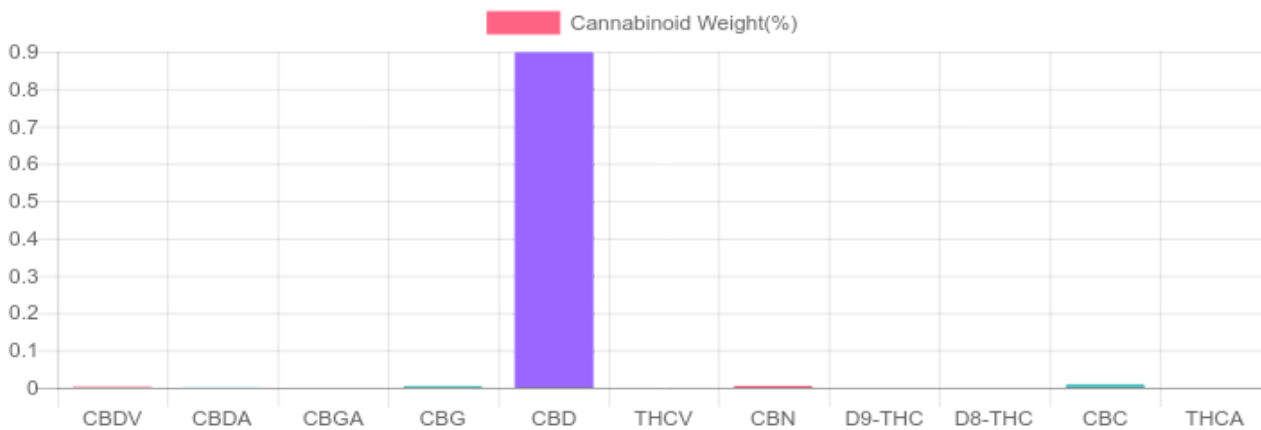
Cannabinoids Test

GSL SOP 400

PREPARED: 06/25/2019 21:20:46

UPLOADED: 06/26/2019 15:57:22

| cannabinoids | | weight(%) | mg/g |
|------------------------------|--------|-----------|-------|
| DELTA-9-TETRAHYDROCANNABINOL | D9-THC | N/D | N/D |
| TETRAHYDROCANNABINOLIC ACID | THCA | N/D | N/D |
| CANNABIDIOL | CBD | 0.898% | 8.983 |
| CANNABIDIOLIC ACID | CBDA | 0.001% | 0.012 |
| CANNABIDIVARIN | CBDV | 0.002% | 0.018 |
| CANNABICHROMENE | CBC | 0.009% | 0.095 |
| CANNABINOL | CBN | 0.005% | 0.053 |
| CANNABIGEROL | CBG | 0.004% | 0.036 |
| CANNABIGEROLIC ACID | CBGA | N/D | N/D |
| DELTA-8-TETRAHYDROCANNABINOL | D8-THC | N/D | N/D |
| TETRAHYDROCANNABIVARIN | THCV | N/D | N/D |
| TOTAL D9-THC | | N/D | N/D |
| TOTAL CBD* | | 0.899% | 8.994 |
| TOTAL CANNABINOIDS | | 0.919% | 9.197 |



Reporting Limit 10 ppm

*Total CBD = CBD + CBDA x 0.877

N/D - Not Detected, B/LOQ - Below Limit of Quantification

Notes

Approximately 280.3mg CBD per 30mL



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Dylan Swart, Lab Director

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TERPENES: TOTAL (0.003%)

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

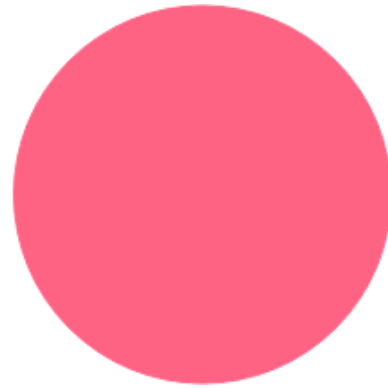
GSL SOP 404

Prepared: 06/25/2019 21:01:27

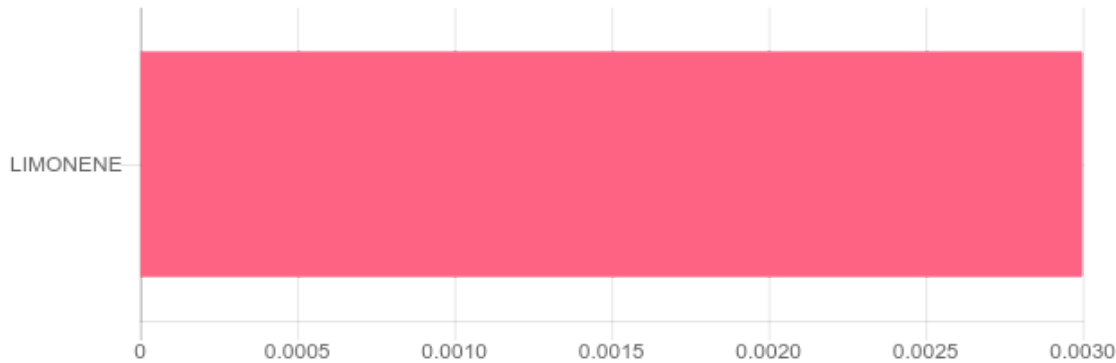
Uploaded: 06/27/2019 15:57:39

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

Terpenes Breakdown



Top Terpenes Results:



Tested for but not present:

ALPHA-PINENE, CAMPHENE, SABINENE, BETA-MYRCENE, BETA-PINENE, ALPHA-PHELLANDRENE, 3-CARENE, ALPHA-TERPINENE, TRANS-BETA-OCIMENE, CIS-BETA-OCIMENE, EUCALYPTOL, GAMMA-TERPINENE, TERPINOLENE, SABINENE HYDRATE, LINALOOL, FENCHONE, FENCHOL, ISOPULEGOL, CAMPHOR, ISOBORNEOL, MENTHOL, BORNEOL, TERPINEOL (MIX OF ISOMERS), GAMMA-TERPINEOL, NEROL, GERANIOL, PULEGONE, GERANYL ACETATE, ALPHA-CEDRENE, CARYOPHYLLENE, HUMULENE, VALENCENE, CIS-NEROLIDOL, TRANS-NEROLIDOL, GUAJOL, CARYOPHYLLENE OXIDE, CEDROL, ALPHA-BISABOLOL



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PESTICIDE ANALYSIS:

GSL SOP 401

PREPARED: 06/25/2019 23:02:55

UPLOADED: 06/26/2019 19:09:17

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) |
|-------------------------|--------------------|---------------|-----------|-----------|
| CYLFLUTHRIN | 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 | 0.003 | 0.001 |
| ACEPHATE | 0.100 | N/D | 0.003 | 0.001 |
| ACEQUINOCYL | 0.100 | N/D | 0.003 | 0.001 |
| ACETAMIPRID | 0.100 | N/D | 0.003 | 0.001 |
| ALDICARB | 0.100 | N/D | 0.003 | 0.001 |
| AZOXYSTROBIN | 0.100 | N/D | 0.003 | 0.001 |
| BIFENAZATE | 0.100 | N/D | 0.003 | 0.001 |
| BIFENTHRIN | 3.000 | N/D | 0.003 | 0.001 |
| BOSCALID | 0.100 | N/D | 0.003 | 0.001 |
| CARBARYL | 0.500 | N/D | 0.003 | 0.001 |
| CARBOFURAN | 0.100 | N/D | 0.003 | 0.001 |
| CHLORANTRANILIPROLE | 10.000 | N/D | 0.003 | 0.001 |
| CHLORPYRIFOS | 0.100 | N/D | 0.003 | 0.001 |
| CLOFENTEZINE | 0.100 | N/D | 0.003 | 0.001 |
| DAMINOZIDE | 0.100 | N/D | 0.003 | 0.001 |
| DIAZANON | 0.100 | N/D | 0.003 | 0.001 |
| DICHLORVOS | 0.100 | N/D | 0.003 | 0.001 |
| DIMETHOATE | 0.100 | N/D | 0.003 | 0.001 |
| DIMETHOMORPH | 2.000 | N/D | 0.003 | 0.001 |
| ETHOPROPHOS | 0.100 | N/D | 0.003 | 0.001 |
| ETOFENPROX | 0.100 | N/D | 0.003 | 0.001 |
| ETOXAZOLE | 0.100 | N/D | 0.003 | 0.001 |
| FENHEXAMID | 0.100 | N/D | 0.003 | 0.001 |
| FENOXYCARB | 0.100 | N/D | 0.003 | 0.001 |
| FENPYROXIMATE | 0.100 | N/D | 0.003 | 0.001 |
| FIPRONIL | 0.100 | N/D | 0.003 | 0.001 |
| FLONICAMID | 0.100 | N/D | 0.003 | 0.001 |
| FLUDIOXONIL | 0.100 | N/D | 0.003 | 0.001 |
| HEXYTHIAZOX | 0.100 | N/D | 0.003 | 0.001 |

| Pesticide | Action Level (ppm) | Results (ppm) | LOQ (ppm) | LOD (ppm) |
|--------------------------|--------------------|---------------|-----------|-----------|
| IMAZALIL | 0.100 | N/D | 0.003 | 0.001 |
| IMIDACLOPRID | 5.000 | N/D | 0.003 | 0.001 |
| KRESOXIM-METHYL | 0.100 | N/D | 0.003 | 0.001 |
| MALATHION | 0.500 | N/D | 0.003 | 0.001 |
| METALAXYL | 2.000 | N/D | 0.003 | 0.001 |
| METHIOCARB | 0.100 | N/D | 0.003 | 0.001 |
| METHOMYL | 1.000 | N/D | 0.003 | 0.001 |
| MEVINPHOS | 0.100 | N/D | 0.003 | 0.001 |
| MYCLOBUTANIL | 0.100 | N/D | 0.003 | 0.001 |
| NALED | 0.100 | N/D | 0.003 | 0.001 |
| OXAMYL | 0.500 | N/D | 0.003 | 0.001 |
| PACLOBUTRAZOL | 0.100 | N/D | 0.003 | 0.001 |
| PERMETHRINS | 0.500 | N/D | 0.003 | 0.001 |
| PHOSMET | 0.100 | N/D | 0.003 | 0.001 |
| PIPERONYL BUTOXIDE | 3.000 | N/D | 0.003 | 0.001 |
| PRALLETHRIN | 0.100 | N/D | 0.003 | 0.001 |
| PROPICONAZOLE | 0.100 | N/D | 0.003 | 0.001 |
| PROPOXUR | 0.100 | N/D | 0.003 | 0.001 |
| PYRETHRINS (PYRETHRIN I) | 0.500 | N/D | 0.003 | 0.001 |
| PYRIDABEN | 0.100 | N/D | 0.003 | 0.001 |
| SPINETORAM | 0.100 | N/D | 0.003 | 0.001 |
| SPINOSAD | 0.100 | N/D | 0.003 | 0.001 |
| SPIROMESIFEN | 0.100 | N/D | 0.003 | 0.001 |
| SPIROTETRAMAT | 0.100 | N/D | 0.003 | 0.001 |
| SPIROXAMINE | 0.100 | N/D | 0.003 | 0.001 |
| TEBUCONAZOLE | 0.100 | N/D | 0.003 | 0.001 |
| THIACLOPRID | 0.100 | N/D | 0.003 | 0.001 |
| THIAMETHOXAM | 5.000 | N/D | 0.003 | 0.001 |
| TRIFLOXYSTROBIN | 0.100 | N/D | 0.003 | 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: 06/25/2019 21:02:22


Uploaded: 06/27/2019 16:18:37

| 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 | 0 | N/D | 0 | 0 |
| XYLENES | 2,170 | N/D | 130 | 20 |



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Mycotoxin Analysis:

LC-MS - Shimadzu LCMS-8060
GSL SOP 401

Uploaded: 06/26/2019 19:09:17

| 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

Microbial Analysis:

PCR - Agilent AriaMX

| Test | Test Method Used | Device Used | LOD | Allowable Amount | 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 |
| 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

Water Activity:

HD-3A Water Activity Meter - GSL SOP 407

Uploaded: 06/25/2019 23:59:24

Water

0.59

Filth and Foreign Materials Analysis:

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

Uploaded: 06/28/2019 15:29:41

No foreign materials detected



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