

# CERTIFICATE OF ANALYSIS



Order #: 31212  
Order Name: Koi Naturals  
Spearment 500 mg  
Batch#: 9075NSP500  
Received: 05/17/2019  
Completed: 05/23/2019



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



## Sample



0.000%  
D9-THC

1.691%  
Total CBD

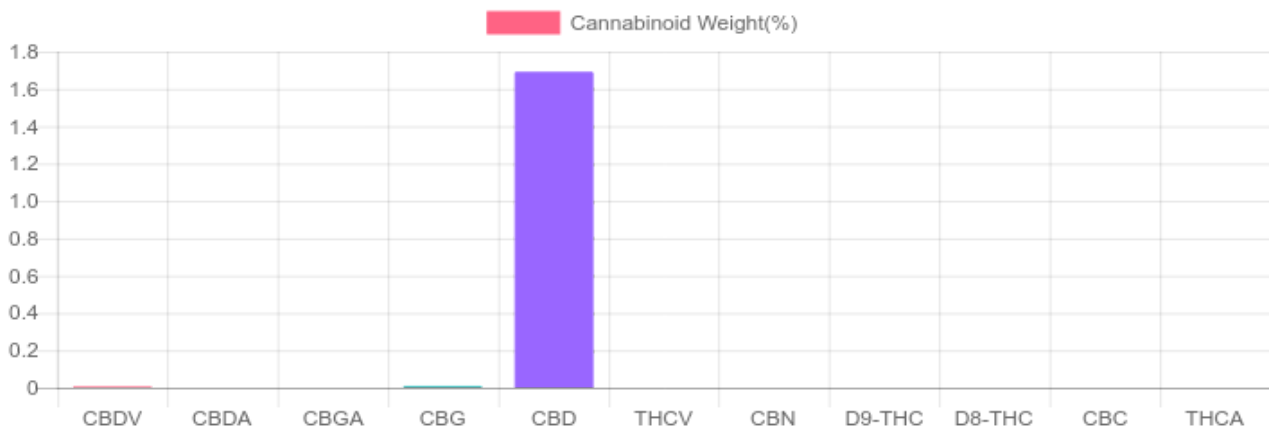
## Cannabinoids Test

GSL SOP 400

PREPARED: 05/18/2019 01:58:28

UPLOADED: 05/20/2019 15:25:27

| cannabinoids                 |        | weight(%) | mg/g   |
|------------------------------|--------|-----------|--------|
| DELTA-9-TETRAHYDROCANNABINOL | D9-THC | N/D       | N/D    |
| TETRAHYDROCANNABINOLIC ACID  | THCA   | N/D       | N/D    |
| CANNABIDIOL                  | CBD    | 1.691%    | 16.909 |
| CANNABIDIOLIC ACID           | CBDA   | N/D       | N/D    |
| CANNABIDIVARIN               | CBDV   | 0.006%    | 0.062  |
| CANNABICHROMENE              | CBC    | N/D       | N/D    |
| CANNABINOL                   | CBN    | N/D       | N/D    |
| CANNABIGEROL                 | CBG    | 0.010%    | 0.104  |
| 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*                   |        | 1.691%    | 16.909 |
| TOTAL CANNABINOIDS           |        | 1.707%    | 17.070 |



Reporting Limit 10 ppm

\*Total CBD = CBD + CBDA x 0.877

## Notes

Approximately 532.5mg cannabinoids per 30mL



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Dylan Swart, Lab Director

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## TERPENES: TOTAL (0.050%)

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

GSL SOP 404

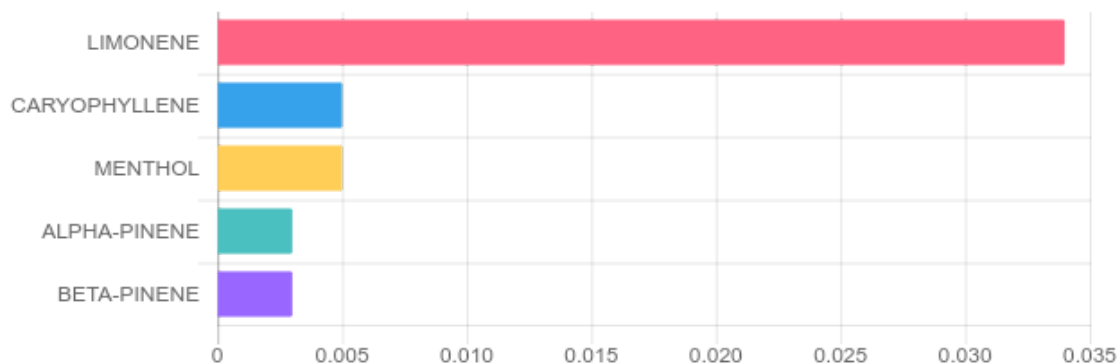
Uploaded: 05/20/2019 20:18:06

| Terpene       | Results (%) | LOQ (%) | LOD (%) |
|---------------|-------------|---------|---------|
| ALPHA-PINENE  | B/LOQ       | 0.0067% | 0.0063% |
| BETA-PINENE   | B/LOQ       | 0.0067% | 0.0063% |
| CARYOPHYLLENE | B/LOQ       | 0.0067% | 0.0063% |
| LIMONENE      | 0.034%      | 0.0067% | 0.0063% |
| MENTHOL       | B/LOQ       | 0.0067% | 0.0063% |

## Terpenes Breakdown



## Top Terpenes Results:



## Tested for but not present:

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



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## PESTICIDE ANALYSIS:

GSL SOP 401

PREPARED: 05/18/2019 01:00:34

UPLOADED: 05/23/2019 23:50:50

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           | 0.003     | 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                | 3.000              | N/D           | 0.003     | 0.001     |
| BUTOXIDE                 | 0.100              | 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, 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

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| 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         |
| TRICHLOROETHANE   | 1                  | N/D           | 1         | 0.5       |
| XYLENES           | 2,170              | N/D           | 130       | 20        |



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## Mycotoxin Analysis:

LC-MS - Shimadzu LCMS-8060  
GSL SOP 401

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| 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: 05/23/2019 22:40:02

**Water**

0.64

## Filth and Foreign Materials Analysis:

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

Uploaded: 05/20/2019 20:18:25

No foreign materials detected.



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