

Order #: 39583 Order Name: Koi Naturals Spearmint 1000 mg Batch#: 9305NSP1K Received: 11/06/2019 Completed: 11/11/2019



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



Sample



N/D D9-THC 3.719% Total CBD

1,054.3 mg Cannabinoids per unit

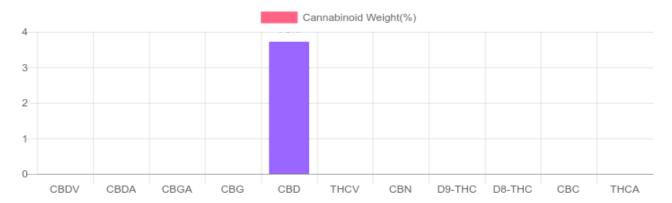
1,054.3 mg CBD per unit

1 unit = 30 ml per unit x density (0.945) x Cannabinoid concentration

Cannabinoids Test

SHIMADZU INTEGRATED UPLC-PDA

| GSL SOP 400 | PREPARED: 11/ | 07/2019 12:01:03 | UPLOADED: 11/08/2019 08:34:30 | | |
|--------------------|---------------|------------------|-------------------------------|---------|--|
| 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 | 3.719% | 37.188 | 1,054.3 | |
| 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* | | 3.719% | 37.188 | 1,054.3 | |
| TOTAL CANNABINOIDS | | 3.719% | 37.188 | 1,054.3 | |



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

Dr. Andrew Hall, Ph.D., Chief Scientific Officer

Ben Witten, MS, MT., Lab Director

Green Scientific Labs

info@greenscientificlabs.com
1-833 TEST CBD









Order #: 39583 Order Name: Koi Naturals Spearmint 1000 mg Batch#: 9305NSP1K Received: 11/06/2019 Completed: 11/11/2019



GSL SOP 404

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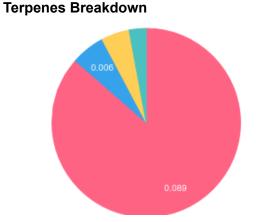
TERPENES: TOTAL (0.103%)

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

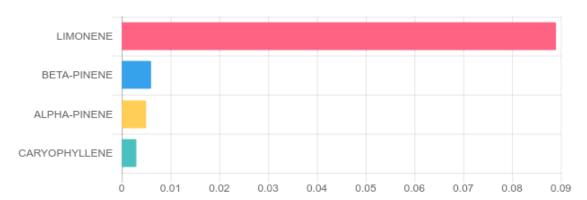
| Terpene | Results (%) | LOQ (%) | LOD (%) |
|---------------|-------------|---------|---------|
| ALPHA-PINENE | B/LOQ | 0.0067% | 0.0063% |
| BETA-PINENE | B/LOQ | 0.0067% | 0.0063% |
| CARYOPHYLLENE | B/LOQ | 0.0067% | 0.0063% |
| LIMONENE | 0.089% | 0.0067% | 0.0063% |

Prepared: 11/07/2019 17:00:38

Uploaded: 11/08/2019 12:49:58



Top Terpenes Results:



Tested for but not present:

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

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PESTICIDE ANALYSIS:

GSL SOP 401 PREPARED: 11/07/2019 16:59:20 UPLOADED: 11/08/2019 13:52:57

GCMS-MS - Shimadzu GCMS-TQ8040

| Pesticide | Action Level (ppm) | Results (ppm) | LOQ (ppm) | LOD (ppm) | Pe |
|--------------|--------------------|---------------|--------------|--------------|-----|
| CAPTAN | 0.700 | N/D | 0.003 | 0.001 | CY |
| CHLORDANE | 0.100 | N/D | 0.003 | 0.001 | FIF |
| CHLORFENAPYR | 0.100 | N/D | 0.003 | 0.001 | FL |
| COUMAPHOS | 0.100 | N/D | 0.003 | 0.001 | PA |
| CYFLUTHRIN | 2.000 | N/D | 0.003 | 0.001 | PE |

| Pesticide | Action Leve | LOQ | LOD | |
|-------------------------|--------------------|-------|-------|-------|
| resticiue | (ppm) | (ppm) | (ppm) | (ppm) |
| CYPERMETHRIN | 1.000 | N/D | 0.003 | 0.001 |
| FIPRONIL | 0.100 | N/D | 0.003 | 0.001 |
| FLUDIOXONIL | 0.100 | 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) | Pesticide | Action Level (ppm) | Results (ppm) | LOQ (ppm) | LOD (ppm) |
|---------------------|--------------------|---------------|--------------|--------------|-----------------|--------------------|---------------|--------------|--------------|
| ABAMECTIN B1A | 0.100 | N/D | 0.005 | 0.001 | IMIDACLOPRID | 5.000 | N/D | 0.005 | 0.001 |
| ACEPHATE | 0.100 | N/D | 0.001 | 0.001 | KRESOXIM-METHYL | 0.100 | N/D | 0.010 | 0.005 |
| ACEQUINOCYL | 0.100 | N/D | 0.001 | 0.001 | MALATHION | 0.500 | N/D | 0.005 | 0.001 |
| ACETAMIPRID | 0.100 | N/D | 0.005 | 0.001 | METALAXYL | 2.000 | N/D | 0.001 | 0.001 |
| ALDICARB | 0.100 | N/D | 0.005 | 0.001 | METHIOCARB | 0.100 | N/D | 0.005 | 0.001 |
| AZOXYSTROBIN | 0.100 | N/D | 0.001 | 0.001 | METHOMYL | 1.000 | N/D | 0.001 | 0.001 |
| BIFENAZATE | 0.100 | N/D | 0.005 | 0.001 | MEVINPHOS | 0.100 | N/D | 0.001 | 0.001 |
| BIFENTHRIN | 3.000 | N/D | 0.005 | 0.001 | MYCLOBUTANIL | 0.100 | N/D | 0.005 | 0.001 |
| BOSCALID | 0.100 | N/D | 0.005 | 0.001 | NALED | 0.100 | N/D | 0.005 | 0.001 |
| CARBARYL | 0.500 | N/D | 0.003 | 0.001 | OXAMYL | 0.500 | N/D | 0.001 | 0.001 |
| CARBOFURAN | 0.100 | N/D | 0.001 | 0.001 | PACLOBUTRAZOL | 0.100 | N/D | 0.005 | 0.001 |
| CHLORANTRANILIPROLE | 10.000 | N/D | 0.005 | 0.005 | PERMETHRINS | 0.500 | N/D | 0.005 | 0.001 |
| CHLORPYRIFOS | 0.100 | N/D | 0.001 | 0.001 | PHOSMET | 0.100 | N/D | 0.005 | 0.001 |
| CLOFENTEZINE | 0.100 | N/D | 0.001 | 0.001 | PIPERONYL | 3.000 | N/D | 0.001 | 0.001 |
| DAMINOZIDE | 0.100 | N/D | 0.005 | 0.001 | BUTOXIDE | 3.000 | | | |
| DIAZANON | 0.100 | N/D | 0.001 | 0.001 | PRALLETHRIN | 0.100 | N/D | 0.005 | 0.005 |
| DICHLORVOS | 0.100 | N/D | 0.005 | 0.001 | PROPICONAZOLE | 0.100 | N/D | 0.010 | 0.005 |
| DIMETHOATE | 0.100 | N/D | 0.001 | 0.001 | PROPOXUR | 0.100 | N/D | 0.001 | 0.001 |
| DIMETHOMORPH | 2.000 | N/D | 0.005 | 0.001 | PYRETHRINS | 0.500 | 0.500 N/D | N/D 0.005 | 0.005 |
| ETHOPROPHOS | 0.100 | N/D | 0.001 | 0.001 | (PYRETHRIN I) | 0.500 | | | |
| ETOFENPROX | 0.100 | N/D | 0.001 | 0.001 | PYRIDABEN | 0.100 | N/D | 0.005 | 0.001 |
| ETOXAZOLE | 0.100 | N/D | 0.010 | 0.005 | SPINETORAM | 0.100 | N/D | 0.001 | 0.001 |
| FENHEXAMID | 0.100 | N/D | 0.005 | 0.001 | SPINOSAD | 0.100 | N/D | 0.001 | 0.001 |
| FENOXYCARB | 0.100 | N/D | 0.005 | 0.001 | SPIROMESIFEN | 0.100 | N/D | 0.005 | 0.001 |
| FENPYROXIMATE | 0.100 | N/D | 0.001 | 0.001 | SPIROTETRAMAT | 0.100 | N/D | 0.001 | 0.001 |
| FLONICAMID | 0.100 | N/D | 0.025 | 0.010 | SPIROXAMINE | 0.100 | N/D | 0.001 | 0.001 |
| HEXYTHIAZOX | 0.100 | N/D | 0.005 | 0.001 | TEBUCONAZOLE | 0.100 | N/D | 0.005 | 0.001 |
| IMAZALIL | 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 |

 ${\sf N/D} = {\sf Not\ Detected},\ {\sf A/LOQ} = {\sf Above\ LOQ\ Level},\ {\sf B/LOQ} = {\sf Below\ LOQ\ Level},\ {\sf B/LOD} = {\sf Below\ LOD\ Level}$

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Ben Witten, MS, MT., Lab Director

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RESIDUAL SOLVENTS:

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

GSL SOP 405

Prepared: 11/07/2019 17:11:25 Uploaded: 11/08/2019 13:34:43

| 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: 11/09/2019 15:40:39

| 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 |
| 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

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^{**} CFU/g Calculation based on Select Category Type Gummy MIP/Extract Flower matrix

^{***} Flavus = 2 Copies of DNA / Furnigatis = 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: 11/08/2019 13:52:57

| Analyte | Action LvI (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

Heavy Metals Analysis:

ICP-MS - Shimadzu ICPMS-2030

GSL SOP 403

Uploaded: 11/11/2019 21:59:02

| 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

Water Activity:

HD-3A Water Activity Meter - GSL SOP 407

Uploaded: 11/08/2019 08:59:00

Water

0.52

Filth and Foreign Materials Analysis:

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

Uploaded: 11/08/2019 09:06:09

Pass: No Foreign Materials Detected

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