

Koi Naturals-Spearmint 2000

Sample ID: 1901CSALA0611.2338
Strain: Spearmint 2000
Matrix: Concentrates & Extracts
Type: Other
Sample Size: 1 units; Batch: 0 units

Produced: N/A
Collected: 01/30/2019
Received: 01/30/2019
Completed: 02/11/2019
Batch#: 9023NSP2K

Client
Koi CBD
Lic. #
14631 Best Ave
Norwalk, CA 90650



Summary

Pass

1,981.74 mg/unit Total Cannabinoids	Pass Pesticides	Pass Residual Solvents
Pass Microbials	Pass Mycotoxins	Pass Heavy Metals

Cannabinoids

Complete

Testing method: HPLC-SOP 101

Analyte	LOD	LOQ	Mass	Mass
	mg/unit	mg/unit	mg/unit	mg/g
THCa	0.00690	0.0308	ND	ND
Δ9-THC	0.01303	0.0308	ND	ND
Δ8-THC	0.01297	0.0308	ND	ND
THCV	0.01207	0.0308	ND	ND
CBDa	0.00625	0.0308	ND	ND
CBD	0.01149	0.0308	1931.84	62.72
CBDV	0.00308	0.0308	49.90	1.62
CBN	0.00499	0.0308	ND	ND
CBGa	0.00604	0.0308	ND	ND
CBG	0.01149	0.0308	ND	ND
CBC	0.00440	0.0308	ND	ND
Total			1981.74	64.34

ND
Total THC

1,931.84 mg/unit
Total CBD

Terpenes

Complete

Testing method: HSGCMS-SOP 201

Analyte	LOD	LOQ	Mass	Mass
	%	%	%	mg/g
δ-Limonene	0.00016	0.0013	0.11	1.10
β-Caryophyllene	0.00017	0.0013	0.02	0.16
Guaiol	0.00018	0.0013	0.01	0.10
α-Bisabolol	0.00015	0.0013	ND	ND
α-Humulene	0.00057	0.0013	ND	ND
α-Pinene	0.00015	0.0013	ND	ND
α-Terpinene	0.00012	0.0013	ND	ND
β-Myrcene	0.00012	0.0013	ND	ND
β-Pinene	0.00034	0.0013	<LOQ	<LOQ
Camphene	0.00072	0.0013	ND	ND
Caryophyllene Oxide	0.00017	0.0013	ND	ND
cis-Nerolidol	0.00009	0.0013	ND	ND
δ-3-Carene	0.00040	0.0013	ND	ND
Eucalyptol	0.00017	0.0013	ND	ND
γ-Terpinene	0.00012	0.0013	ND	ND
Geraniol	0.00013	0.0013	ND	ND
Isopulegol	0.00011	0.0013	ND	ND
Linalool	0.00015	0.0013	ND	ND
Ocimene	0.00013	0.0013	ND	ND
p-Cymene	0.00010	0.0013	ND	ND
Terpinolene	0.00016	0.0013	ND	ND
trans-Nerolidol	0.00058	0.0013	ND	ND
Total			0.14	1.37

Date Tested: 02/02/2019

Total THC = THCa * 0.877 + d9-THC

Total CBD = CBDa * 0.877 + CBD

LOQ = Limit of Quantitation; LOD = Limit of Detection; NR = Not Reported; NT = Not Tested; ND = Not Detected. The reported result is based on a sample weight with the applicable moisture content for that sample;

NT Moisture SOP-103	NT Water Activity SOP-102	Pass Foreign Matter SOP-001
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ISO / IEC 17025:2017 ACCREDITED LABORATORY
Accreditation No. 73653

M. Speakman
Mallory Speakman
Laboratory Director - LA
02/11/2019

A. Engen
Anya Engen
Quality Manager
02/11/2019



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Pesticides

Test Method: LCMS & GCMS-SOP 301

Pass

Analyte	LOD	LOQ	Limit	Mass	Status	Analyte	LOD	LOQ	Limit	Mass	Status
	µg/g	µg/g	µg/g	µg/g			µg/g	µg/g	µg/g	µg/g	
Abamectin	0.0048	0.1	0.1000	ND	Pass	Fludioxonil	0.0005	0.1	0.1000	ND	Pass
Acephate	0.0090	0.1	0.1000	ND	Pass	Hexythiazox	0.0070	0.1	0.1000	ND	Pass
Acequinocyl	0.0050	0.1	0.1000	ND	Pass	Imazalil	0.0040	0.1	0.1000	ND	Pass
Acetamiprid	0.0040	0.1	0.1000	ND	Pass	Imidacloprid	0.0009	0.1	5.0000	ND	Pass
Aldicarb	0.0040	0.1	0.1000	ND	Pass	Kresoxim Methyl	0.0027	0.1	0.1000	ND	Pass
Azoxystrobin	0.0060	0.1	0.1000	ND	Pass	Malathion	0.0006	0.1	0.5000	ND	Pass
Bifenazate	0.0040	0.1	0.1000	ND	Pass	Metalaxyl	0.0008	0.1	2.0000	ND	Pass
Bifenthrin	0.0080	0.1	3.0000	ND	Pass	Methiocarb	0.0060	0.1	0.1000	ND	Pass
Boscalid	0.0007	0.1	0.1000	ND	Pass	Methomyl	0.0008	0.1	1.0000	ND	Pass
Captan	0.0007	0.1	0.7000	ND	Pass	Methyl Parathion	0.0070	0.1	0.1000	ND	Pass
Carbaryl	0.0006	0.1	0.5000	ND	Pass	Mevinphos	0.0030	0.1	0.0030	ND	Pass
Carbofuran	0.0050	0.1	0.1000	ND	Pass	Myclobutanil	0.0036	0.1	0.1000	ND	Pass
Chlorantraniliprole	0.0005	0.1	10.0000	ND	Pass	Naled	0.0036	0.1	0.1000	ND	Pass
Chlordane	0.0319	0.1	0.1000	ND	Pass	Oxamyl	0.0030	0.1	0.5000	ND	Pass
Chlorfenapyr	0.0100	0.1	0.0100	ND	Pass	Paclbutrazol	0.0130	0.1	0.1000	ND	Pass
Chlorpyrifos	0.0050	0.1	0.1000	ND	Pass	Pentachloronitrobenzene	0.0020	0.1	0.1000	ND	Pass
Clofentezine	0.0006	0.1	0.1000	ND	Pass	Permethrin	0.0006	0.1	0.5000	ND	Pass
Coumaphos	0.0090	0.1	0.1000	ND	Pass	Phosmet	0.0070	0.1	0.1000	ND	Pass
Cyfluthrin	0.0008	0.1	2.0000	ND	Pass	Piperonyl Butoxide	0.0013	0.1	3.0000	ND	Pass
Cypermethrin	0.0130	0.1	1.0000	ND	Pass	Prallethrin	0.0070	0.1	0.1000	ND	Pass
Daminozide	0.0210	0.1	0.1000	ND	Pass	Propiconazole	0.0080	0.1	0.1000	ND	Pass
DDVP	0.0040	0.1	0.1000	ND	Pass	Propoxur	0.0040	0.1	0.1000	ND	Pass
Diazinon	0.0006	0.1	0.1000	ND	Pass	Pyrethrins	0.0030	0.1	0.5000	ND	Pass
Dimethoate	0.0030	0.1	0.1000	ND	Pass	Pyridaben	0.0005	0.1	0.1000	ND	Pass
Dimethomorph	0.0007	0.1	2.0000	ND	Pass	Spinetoram	0.0005	0.1	0.1000	ND	Pass
Ethoprophos	0.0040	0.1	0.1000	ND	Pass	Spinosad	0.0050	0.1	0.1000	ND	Pass
Etofenprox	0.0050	0.1	0.1000	ND	Pass	Spiromesifen	0.0008	0.1	0.1000	ND	Pass
Etoazole	0.0098	0.1	0.1000	ND	Pass	Spirotetramat	0.0090	0.1	0.1000	ND	Pass
Fenhexamid	0.0009	0.1	0.1000	ND	Pass	Spiroxamine	0.0060	0.1	0.1000	ND	Pass
Fenoxycarb	0.0070	0.1	0.1000	ND	Pass	Tebuconazole	0.0024	0.1	0.1000	ND	Pass
Fenpyroximate	0.0008	0.1	0.1000	ND	Pass	Thiacloprid	0.0070	0.1	0.1000	ND	Pass
Fipronil	0.0170	0.1	0.1000	ND	Pass	Thiamethoxam	0.0040	0.1	5.0000	ND	Pass
Fonicamid	0.0008	0.1	0.1000	ND	Pass	Trifloxystrobin	0.0007	0.1	0.1000	ND	Pass

Date Tested: 02/07/2019

LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.


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Residual Solvents

Testing method: HSGCMS-SOP 202

Analyte	LOD µg/g	LOQ µg/g	Limit µg/g	Mass µg/g	Status
1,2-Dichloro-Ethane	0.3	3	1	ND	Pass
Acetone	1.4	14	5000	ND	Pass
Acetonitrile	0.3	2	410	ND	Pass
Benzene	0.1	1	1	ND	Pass
Butane	2.5	25	5000	ND	Pass
Chloroform	0.4	4	1	ND	Pass
Ethanol	1.4	14	5000	ND	Pass
Ethyl-Acetate	1.4	14	5000	ND	Pass
Ethyl-Ether	1.4	14	5000	ND	Pass
Ethylene Oxide	0.3	3	1	ND	Pass
Heptane	1.4	14	5000	ND	Pass
Isopropanol	1.4	14	5000	ND	Pass
Methanol	1.8	18	3000	ND	Pass
Methylene-Chloride	0.4	4	1	ND	Pass
n-Hexane	1.7	17	290	ND	Pass
Pentane	1.4	14	5000	ND	Pass
Propane	1.0	10	5000	ND	Pass
Toluene	5.3	53	890	ND	Pass
Trichloroethene	0.5	5	1	ND	Pass
Xylenes	13.0	130	2170	ND	Pass

Date Tested: 02/08/2019

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Microbials

Test method: PCR-SOP 401

Analyte

Analyte	Result	Status
Aspergillus flavus	Not Detected	Pass
Aspergillus fumigatus	Not Detected	Pass
Aspergillus niger	Not Detected	Pass
Aspergillus terreus	Not Detected	Pass
Shiga toxin-producing E. Coli	Not Detected	Pass
Salmonella	Not Detected	Pass

Date Tested: 02/07/2019

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Mycotoxins

Test method: LCMS-SOP 301

Analyte	LOD	LOQ	Limit	Units	Status
	µg/kg	µg/kg	µg/kg	µg/kg	
B1	0.001	0.005		ND	Tested
B2	0.007	0.022		ND	Tested
G1	0.007	0.022		ND	Tested
G2	0.006	0.021		ND	Tested
Total Aflatoxins			20	ND	Pass
Ochratoxin A	0.013	0.045	20	ND	Pass

Date Tested: 02/07/2019

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Heavy Metals

Testing method: ICPMS-SOP 501

Analyte	LOD	LOQ	Limit	Units	Status
	µg/g	µg/g	µg/g	µg/g	
Arsenic	0.001	0.01	0.2	ND	Pass
Cadmium	0.001	0.01	0.2	ND	Pass
Lead	0.001	0.01	0.5	0.047	Pass
Mercury	0.001	0.01	0.1	<LOQ	Pass

Date Tested: 02/07/2019

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