

Koi Naturals-Natural 2000

Sample ID: 1901CSALA0611.2337
Strain: Natural 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#: 9023NAT2K

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



Summary

Pass

1,956.15 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	0.00680	0.0304	ND	ND
Δ9-THC	0.01285	0.0304	ND	ND
Δ8-THC	0.01279	0.0304	ND	ND
THCV	0.01191	0.0304	ND	ND
CBDa	0.00617	0.0304	ND	ND
CBD	0.01133	0.0304	1890.24	62.23
CBDV	0.00304	0.0304	65.91	2.17
CBN	0.00492	0.0304	ND	ND
CBGa	0.00595	0.0304	ND	ND
CBG	0.01133	0.0304	ND	ND
CBC	0.00434	0.0304	ND	ND
Total			1956.15	64.40

ND
Total THC

1,890.24 mg/unit
Total CBD

Terpenes

Complete

Testing method: HSGCMS-SOP 201

Analyte	LOD	LOQ	Mass	Mass
	%	%	%	mg/g
Guaiol	0.00018	0.0013	0.01	0.13
β-Caryophyllene	0.00017	0.0013	0.01	0.06
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	ND	ND
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
δ-Limonene	0.00016	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			0.02	0.18

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

Table with 12 columns: Analyte, LOD, LOQ, Limit, Mass, Status, Analyte, LOD, LOQ, Limit, Mass, Status. Lists various pesticides and their detection results.

Date Tested: 02/07/2019

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



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Signature of Mallory Speakman

Mallory Speakman
Laboratory Director - LA
02/11/2019

Signature of Anya Engen

Anya Engen
Quality Manager
02/11/2019





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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	<LOQ	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	0.045	Pass
Mercury	0.001	0.01	0.1	0.010	Pass

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