

Koi Naturals Lemon Lime 1000mg

Overall Status: Pass

Sample ID: 2009NIVA0247.0637
Strain: Lemon Lime 1000mg
Matrix: Ingestible
Type: Tincture
Sample Size: ; Batch Size:

Produced:
Collected: 09/09/2020
Received: 09/09/2020
Completed: 10/09/2020
Batch#: 1502BB0822

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

	Pass Foreign Matter <small>SOPTS.4.001</small>	Pass Heavy Metals <small>SOPTS.4.500 ICP-MS</small>	Not Tested Moisture <small>SOPTS.4.001</small>	Pass Pesticides <small>SOPTS.4.301 GC-MS/MS SOPTS.4.300 LC-MS/MS</small>
	Pass Microbials <small>SOPTS.4.600 PathogenDx</small>	Pass Solvents <small>SOPTS.4.400 GC-MS</small>	Pass 0.23 aw Water Activity <small>SOPTS.4.003</small>	Pass Mycotoxins <small>SOPTS.4.300 LC-MS/MS</small>

Cannabinoids (SOPTS.4.100 HPLC Analysis)

ND ND Total THC	3.69% 35.29 mg/mL Total CBD	4.14% 39.58 mg/mL Total Cannabinoids	NT Moisture
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Analyte	LOD mg/g	LOQ mg/g	Mass mg/mL	Mass %	Mass mg/serving	Mass mg/package
CBD	0.2400	0.8000	35.29	3.69	35.27	1058.03
CBG	0.2400	0.8000	2.28	0.24	2.28	68.51
CBC	0.2400	0.8000	1.09	0.11	1.09	32.68
CBN	0.2400	0.8000	0.92	0.10	0.92	27.52
CBDa	0.2400	0.8000	ND	ND	ND	ND
CBDV	0.2400	0.8000	<LOQ	<LOQ	<LOQ	<LOQ
CBGa	0.2400	0.8000	ND	ND	ND	ND
THCa	0.2400	0.8000	ND	ND	ND	ND
THCV	0.2400	0.8000	ND	ND	ND	ND
Δ8-THC	0.2400	0.8000	ND	ND	ND	ND
Δ9-THC	0.2400	0.8000	ND	ND	ND	ND
Total THC			ND	ND	ND	ND
Total CBD			35.29	3.691	35.27	1058.03
Total				4.140	39.56	1186.73

Density: 0.956g per 1 mL

Cannabinoids Date Tested: 09/10/2020

Total THC = (THCa x 0.877) + Δ9-THC; Total CBD = (CBDa x 0.877) + CBD; LOD = Limit of Detection; LOQ = Limit of Quantitation; ND = Not Detected; NT = Not Tested; Cured plant material reported as moisture-corrected % dry weight, other sample types reported "as is." Unless otherwise stated, all quality control samples performed within specifications established by the Laboratory. Analytical Instrumentation: Agilent 1260 HPLC.

Water Activity Analytical Instrumentation: Rotronic HCW HC2-AW-USB Water Activity Meter. Water Activity Analysis Date: 09/09/2020

Foreign Material Analytical Instrumentation: Illuminated Magnifying Lens. Foreign Material Analysis Date: 09/09/2020



Accreditation #101219
ISO/IEC 17025:2017

Kris Marsh
Kris Marsh
Lab Director
10/09/2020

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Lic# C8-0000024-LIC

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Sample Size: ; Batch Size:	Batch#: 1502BB0822	Norwalk, CA 90650

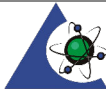
Microbials

Pass

Analyte	Result
Aspergillus flavus	Not Detected in 1g CFU/g
Aspergillus fumigatus	Not Detected in 1g
Aspergillus niger	Not Detected in 1g
Aspergillus terreus	Not Detected in 1g
Shiga toxin-producing E. Coli	Not Detected in 1g
Salmonella SPP	Not Detected in 1g



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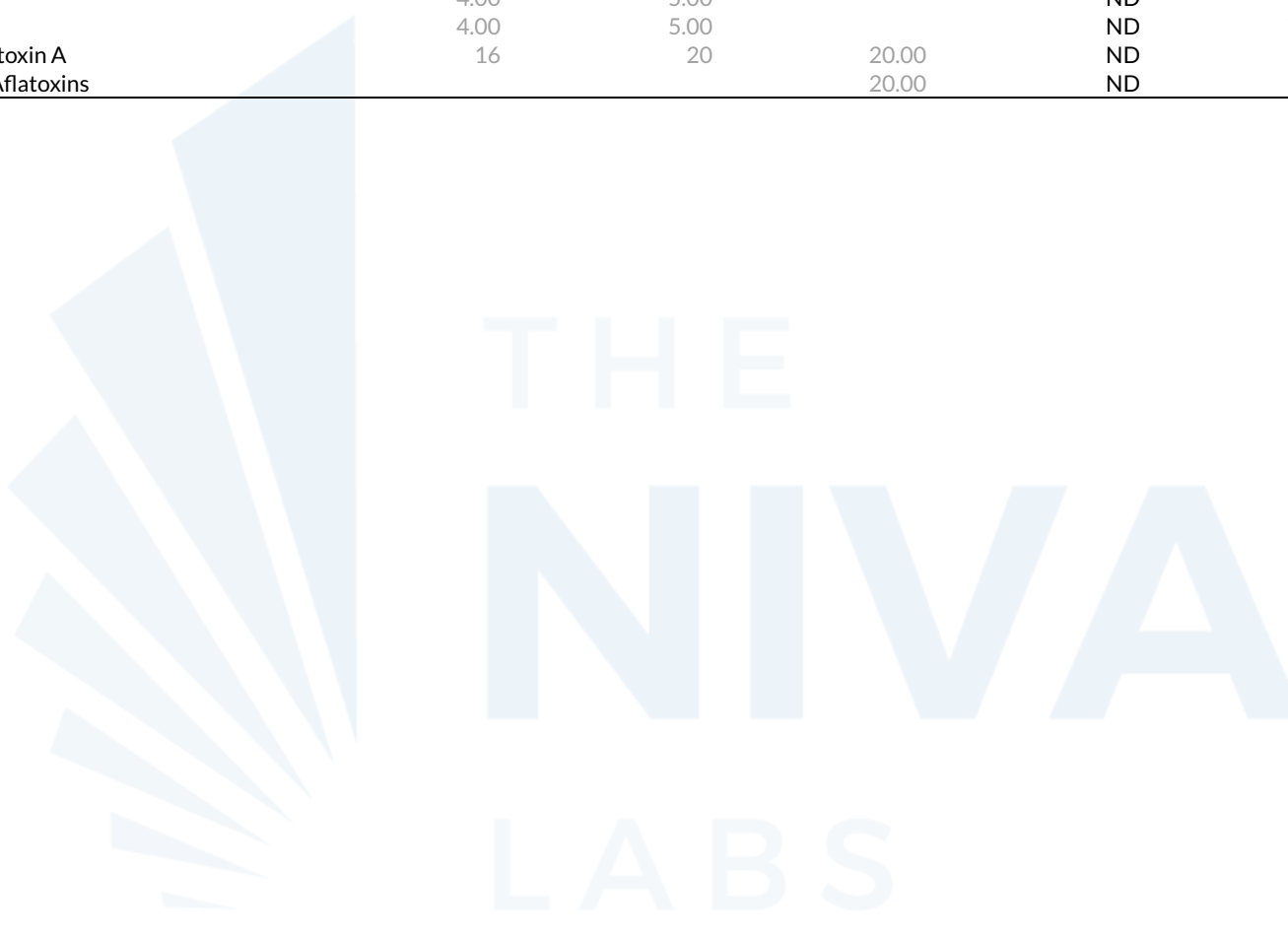
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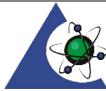
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Mycotoxins

Analyte	LOD	LOQ	Limit	Mass	Status
	µg/kg	µg/kg	µg/kg	µg/kg	
B1	4.00	5.00		ND	Tested
B2	4.00	5.00		ND	Tested
G1	4.00	5.00		ND	Tested
G2	4.00	5.00		ND	Tested
Ochratoxin A	16	20	20.00	ND	Pass
Total Aflatoxins			20.00	ND	Pass



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Sample Size: ; Batch Size:	Batch#: 1502BB0822	Norwalk, CA 90650

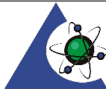
Heavy Metals

Pass

Analyte	LOD	LOQ	Limit	Mass	Status
	µg/g	µg/g	µg/g	µg/g	
Arsenic	0.009	0.090	1.500	ND	Pass
Cadmium	0.009	0.090	0.500	ND	Pass
Lead	0.009	0.090	0.500	ND	Pass
Mercury	0.005	0.020	3.000	ND	Pass



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QA Testing

5 of 7

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Koi CBD

Matrix: Ingestible

Received: 09/09/2020

Lic. #

Type: Tincture

Completed: 10/09/2020

14631 Best Ave

Sample Size: ; Batch Size:

Batch#: 1502BB0822

Norwalk, CA 90650

Pesticides

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	0.040	0.050	0.30	ND	Pass	Fludioxonil	0.040	0.050	30.00	ND	Pass
Acephate	0.050	0.100	5.00	ND	Pass	Hexythiazox	0.010	0.020	2.00	ND	Pass
Acequinocyl	0.040	0.050	4.00	ND	Pass	Imazalil	0.040	0.050	0.04	ND	Pass
Acetamiprid	0.010	0.020	5.00	ND	Pass	Imidacloprid	0.010	0.020	3.00	ND	Pass
Aldicarb	0.010	0.020	0.01	ND	Pass	Kresoxim Methyl	0.020	0.050	1.00	ND	Pass
Azoxystrobin	0.010	0.020	40.00	ND	Pass	Malathion	0.010	0.020	5.00	ND	Pass
Bifenazate	0.010	0.020	5.00	ND	Pass	Metalaxyl	0.010	0.020	15.00	ND	Pass
Bifenthrin	0.010	0.020	0.50	ND	Pass	Methiocarb	0.010	0.020	0.01	ND	Pass
Boscalid	0.040	0.050	10.00	ND	Pass	Methomyl	0.010	0.020	0.10	ND	Pass
Captan	0.100	0.100	5.00	ND	Pass	Mevinphos	0.018	0.045	0.02	ND	Pass
Carbaryl	0.020	0.050	0.50	ND	Pass	Myclobutanil	0.040	0.050	9.00	ND	Pass
Carbofuran	0.010	0.020	0.01	ND	Pass	Naled	0.040	0.050	0.50	ND	Pass
Chlorantraniliprole	0.040	0.050	40.00	ND	Pass	Oxamyl	0.010	0.020	0.20	ND	Pass
Chlordane	0.030	0.050	0.03	ND	Pass	Paclobutrazol	0.040	0.050	0.04	ND	Pass
Chlorfenapyr	0.030	0.050	0.03	ND	Pass	Parathion Methyl	0.030	0.050	0.03	ND	Pass
Chlorpyrifos	0.020	0.050	0.02	ND	Pass	Pentachloronitrobenzene	0.030	0.050	0.20	ND	Pass
Clofentezine	0.010	0.020	0.50	ND	Pass	Permethrin	0.020	0.050	20.00	ND	Pass
Coumaphos	0.050	0.100	0.05	ND	Pass	Phosmet	0.010	0.020	0.20	ND	Pass
Cyfluthrin	0.050	0.100	1.00	ND	Pass	Piperonyl Butoxide	0.010	0.020	8.00	ND	Pass
Cypermethrin	0.050	0.100	1.00	ND	Pass	Prallethrin	0.040	0.050	0.40	ND	Pass
Daminozide	0.040	0.050	0.04	ND	Pass	Propiconazole	0.040	0.050	20.00	ND	Pass
Diazinon	0.010	0.020	0.20	ND	Pass	Propoxur	0.010	0.020	0.01	ND	Pass
Dichlorvos	0.050	0.100	0.05	ND	Pass	Pyrethrins	0.042	0.084	1.00	ND	Pass
Dimethoate	0.010	0.020	0.01	ND	Pass	Pyridaben	0.030	0.050	3.00	ND	Pass
Dimethomorph	0.020	0.050	20.00	ND	Pass	Spinetoram	0.041	0.061	3.00	ND	Pass
Ethoprophos	0.010	0.020	0.01	ND	Pass	Spinosad	0.019	0.048	3.00	ND	Pass
Etofenprox	0.010	0.020	0.01	ND	Pass	Spiromesifen	0.010	0.020	12.00	ND	Pass
Etoxazole	0.010	0.020	1.50	ND	Pass	Spirotetramat	0.020	0.050	13.00	ND	Pass
Fenhexamid	0.040	0.050	10.00	ND	Pass	Spiroxamine	0.010	0.020	0.01	ND	Pass
Fenoxycarb	0.010	0.020	0.01	ND	Pass	Tebuconazole	0.050	0.100	2.00	ND	Pass
Fenpyroximate	0.010	0.020	2.00	ND	Pass	Thiacloprid	0.010	0.020	0.01	ND	Pass
Fipronil	0.040	0.050	0.04	ND	Pass	Thiamethoxam	0.010	0.020	4.50	ND	Pass
Fonicamid	0.010	0.020	2.00	ND	Pass	Trifloxystrobin	0.010	0.020	30.00	ND	Pass

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Kris Marsh

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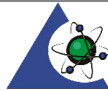
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Residual Solvents

Analyte	LOD	LOQ	Limit	Mass	Status
	µg/g	µg/g	µg/g	µg/g	
1,2-Dichloroethane	0.25	0.50	1.000	ND	Pass
Acetone	5.0	10	5000.000	ND	Pass
Acetonitrile	5.0	10	410.000	ND	Pass
Benzene	0.25	0.50	1.000	ND	Pass
Butane	5.0	10	5000.000	ND	Pass
Chloroform	0.25	0.50	1.000	ND	Pass
Ethanol	5.0	10	5000.000	ND	Pass
Ethyl-Acetate	5.0	10	5000.000	ND	Pass
Ethyl-Ether	5.0	10	5000.000	ND	Pass
Ethylene Oxide	0.50	1.0	1.000	ND	Pass
Heptane	5.0	10	5000.000	ND	Pass
Isopropanol	5.0	10	5000.000	ND	Pass
Methanol	5.0	10	3000.000	ND	Pass
Methylene Chloride	0.25	0.50	1.000	ND	Pass
n-Hexane	5.0	10	290.000	ND	Pass
Pentane	5.0	10	5000.000	ND	Pass
Propane	5.0	10	5000.000	ND	Pass
Toluene	5.0	10	890.000	ND	Pass
Trichloroethene	0.25	0.50	1.000	ND	Pass
Xylenes	5.0	10	2170.000	ND	Pass

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Norwalk, CA 90650


Terpenes

Analyte	LOD	LOQ	Mass	Mass
	mg/g	mg/g	mg/g	%
cis-Nerolidol	0.1	0.2	27.4	2.74
δ-Limonene	0.1	0.2	2.0	0.20
γ-Terpinene	0.1	0.2	0.4	0.04
β-Pinene	0.1	0.2	0.3	0.03
α-Bisabolol	0.1	0.2	<LOQ	<LOQ
α-Humulene	0.1	0.2	ND	ND
α-Pinene	0.1	0.2	<LOQ	<LOQ
α-Terpinene	0.1	0.2	ND	ND
β-Caryophyllene	0.1	0.2	ND	ND
β-Myrcene	0.1	0.2	ND	ND
Camphene	0.1	0.2	ND	ND
Caryophyllene Oxide	0.1	0.2	ND	ND
δ-3-Carene	0.1	0.2	ND	ND
Eucalyptol	0.1	0.2	ND	ND
Guaiol	0.1	0.2	ND	ND
Isopulegol	0.1	0.2	ND	ND
Linalool	0.1	0.2	ND	ND
Ocimene	0.1	0.2	ND	ND
p-Cymene	0.1	0.2	ND	ND
Terpinolene	0.1	0.2	<LOQ	<LOQ
trans-Nerolidol	0.1	0.2	ND	ND
Total			30.1	3.01


Primary Aromas




Flowers



Orange



Wood



Pine

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This terpenes method has not yet been evaluated for ISO/IEC 17025 accreditation.



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