Overall Status: Pass

Lemon Lime 2000mg

Sample ID: 2012NIVA0521.1486 Strain: Lemon Lime 2000mg Matrix: Ingestible Type: Tincture

Sample Size: ; Batch Size:

Produced: Collected:

Received: 12/28/2020 Completed: 12/30/2020 Batch#: 1708BB1222 Client **Koi CBD**

Lic. # 14631 Best Ave Norwalk, CA 90650

Pass

Heavy Metals



PassForeign Matter

Microbials

Pass

Pass

Solvents

Not Tested

Moisture

SOP.TS.4.001

Pass

0.51 aw

Water Activity

Pass

Pass

Pesticides

Mycotoxins

SOPTS 4 300 LC-MS/M

Cannabinoids (SOPTS.4.100 HPLC Analysis)

ND ND Total THC 78.173 mg/serving 71.319 mg/mL Total CBD **87.182 mg/serving** 79.538 mg/mL

Total Cannabinoids

NT

Moisture

Analyte	LOD	LOQ	Mass	Mass	Mass	Mass	
	mg/g	mg/g	mg/mL	%	mg/serving	mg/package	
CBD	0.0030	0.0100	71.319	7.53	78.17	2345.20	
CBG	0.0030	0.0100	4.190	0.44	4.59	137.77	
CBC	0.0030	0.0100	2.119	0.22	2.32	69.69	
CBN	0.0030	0.0100	1.441	0.15	1.58	47.40	
CBDV	0.0030	0.0100	0.456	0.05	0.50	14.98	
CBGa	0.0030	0.0100	0.013	0.00	0.02	0.44	
CBDa	0.0030	0.0100	ND	ND	ND	ND	
THCa	0.0030	0.0100	ND	ND	ND	ND	
THCV	0.0030	0.0100	ND	ND	ND	ND	
Δ8-THC	0.0030	0.0100	ND	ND	ND	ND	
Δ9-THC	0.0030	0.0100	ND	ND	ND	ND	
Total THC			ND	ND	ND	ND	
Total CBD			71.319	7.531	78.173	2345.199	
Total				8.3989	87.182	2615.468	

Density: 0.947g per 1 mL

Cannabinoids Date Tested: 12/29/2020

Total THC = (THCa x 0.877) + $\Delta 9$ -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:

Foreign Material Analytical Instrumentation: Illuminated Magnifying Lens. Foreign Material Analysis Date:









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2 of 5

Overall Status: Pass

Lemon Lime 2000mg

Sample ID: 2012NIVA0521.1486 Strain: Lemon Lime 2000mg Matrix: Ingestible

Type: Tincture Sample Size: ; Batch Size: Produced: Collected: Received: 12/28/2020

Completed: 12/30/2020 Batch#: 1708BB1222

Client Koi CBD Lic.#

14631 Best Ave Norwalk, CA 90650

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

Date Tested: 12/29/2020 LOD = Limit of Detection; LOQ = Limit of Quantitation; ND = Not Detected; NT = Not Tested; Unless otherwise stated, all quality control samples performed within specifications established by the Laboratory. Analytical Instrumentation: PathogenDx (PCR)

Mycotoxins **Pass**

Analyte	LOD	LOQ	Limit	Units	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
Total Aflatoxins			20.00	ND	Pass
Ochratoxin A	16	20	20.00	ND	Pass

Date Tested: 12/29/2020 LOD = Limit of Detection; LOQ = Limit of Quantitation; ND = Not Detected; NT = Not Tested;

Unless otherwise stated, all quality control samples performed within specifications established by the Laboratory. Analytical Instrumentation: Agilent 6470A LC-MS

Heavy Metals **Pass**

Analyte	LOD	LOQ	Limit	Units	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

Date Tested: 12/29/2020

LOD = Limit of Detection; LOQ = Limit of Quantitation; ND = Not Detected; NT = Not Tested; Unless otherwise stated, all quality control samples performed within specifications established by the Laboratory. Analytical Instrumentation: Agilent 7900 ICP-MS





Lab Director

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Overall Status: Pass

Lemon Lime 2000mg

Sample ID: 2012NIVA0521.1486 Strain: Lemon Lime 2000mg Matrix: Ingestible Type: Tincture

Sample Size: ; Batch Size:

Produced: Collected:

Received: 12/28/2020 Completed: 12/30/2020 Batch#: 1708BB1222 Client Koi CBD Lic.#

14631 Best Ave 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	lmazalil	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
Flonicamid	0.010	0.020	2.00	ND	Pass	Trifloxystrobin	0.010	0.020	30.00	ND	Pass

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4 of 5

Overall Status: Pass

Lemon Lime 2000mg

Sample ID: 2012NIVA0521.1486 Strain: Lemon Lime 2000mg Matrix: Ingestible

Type: Tincture Sample Size: ; Batch Size:

Produced: Collected:

Received: 12/28/2020 Completed: 12/30/2020 Batch#: 1708BB1222 Client Koi CBD Lic.#

14631 Best Ave Norwalk, CA 90650

Residual Solvents

Analyte	LOD	LOQ	Limit	Mass	Status
	µg/g	µg/g	µg/g	μg/g	Pass
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
Xvlenes	5.0	10	2170.000	ND	Pass



Date Tested: 12/29/2020 LOD = Limit of Detection; LOQ = Limit of Quantitation; ND = Not Detected; NT = Not Tested; Unless otherwise stated, all quality control samples performed within specifications established by the Laboratory. Analytical Instrumentation: Agilent 5977B GC-MS-FID





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Overall Status: Pass

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5 of 5

Lemon Lime 2000mg

Sample ID: 2012NIVA0521.1486 Strain: Lemon Lime 2000mg Matrix: Ingestible

Type: Tincture Sample Size: ; Batch Size: Produced: Collected:

Received: 12/28/2020 Completed: 12/30/2020 Batch#: 1708BB1222

Client Koi CBD

Lic.# 14631 Best Ave Norwalk, CA 90650

Terpenes

Analyte	LOD	LOQ	Mass	Mass	
	mg/g	mg/g	mg/g	%	
δ-Limonene	0.03	0.10	9.73	0.973	
y-Terpinene	0.03	0.10	1.73	0.173	
β-Pinene	0.03	0.10	1.56	0.156	
Terpinolene	0.03	0.10	0.82	0.082	
α-Pinene	0.03	0.10	0.43	0.043	
p-Cymene	0.03	0.10	0.32	0.032	
α-Bisabolol	0.03	0.10	0.20	0.020	
β-Myrcene	0.03	0.10	0.20	0.020	
α-Terpinene	0.03	0.10	0.15	0.015	
α-Humulene	0.03	0.10	ND	ND	
β-Caryophyllene	0.03	0.10	ND	ND	
Camphene	0.03	0.10	<loq< td=""><td><loq< td=""><td></td></loq<></td></loq<>	<loq< td=""><td></td></loq<>	
Caryophyllene Oxide	0.03	0.10	ND	ND	
cis-Nerolidol	0.03	0.10	ND	ND	
δ-3-Carene	0.03	0.10	ND	ND	
Eucalyptol	0.03	0.10	<loq< td=""><td><loq< td=""><td></td></loq<></td></loq<>	<loq< td=""><td></td></loq<>	
Guaiol	0.03	0.10	<loq< td=""><td><loq< td=""><td></td></loq<></td></loq<>	<loq< td=""><td></td></loq<>	
Isopulegol	0.03	0.10	ND	ND	
Linalool	0.03	0.10	ND	ND	
Ocimene	0.03	0.10	ND	ND	
trans-Nerolidol	0.03	0.10	ND	ND	
Total			15.14	1.514	

Primary Aromas















Date Tested: 12/30/2020

LOD = Limit of Detection; LOQ = Limit of Quantitation; ND = Not Detected; NT = Not Tested; Unless otherwise stated, all quality control samples performed within specications established by the Laboratory. Analytical Instrumentation: Agilent 5977B HS-GC-MS; SOP.TS.4.200" This terpenes method has not yet been evaluated for ISO/IEC 17025 accreditation.





Kris Marsh Lab Director

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