



The Niva Labs
13171 Telfair Ave
Sylmar, CA 91342

(213) 225-6482
thenivalabs.com/
Lic# C8-0000024-LIC

Koi CBD Natural 250mg

Overall Status: Pass

Sample ID: 2106NIVA0862.2824
Strain: Natural
Matrix: Ingestible
Type: Tincture
Sample Size: ; Batch Size:

Produced:
Collected: 06/15/2021
Received: 06/15/2021
Completed: 06/18/2021
Batch#: 1960BB0623

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 0.33 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	9.469 mg/serving 9.469 mg/mL Total CBD	10.593 mg/serving 10.593 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	0.0030	0.0100	9.390	0.93	9.39	281.71
CBG	0.0030	0.0100	0.531	0.05	0.53	15.94
CBC	0.0030	0.0100	0.288	0.03	0.29	8.65
CBN	0.0030	0.0100	0.212	0.02	0.21	6.35
CBDa	0.0030	0.0100	0.090	0.01	0.09	2.70
CBDV	0.0030	0.0100	0.081	0.01	0.08	2.43
CBGa	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			<LOQ	<LOQ	<LOQ	<LOQ
Total CBD			9.469	0.936	9.469	284.080
Total			10.593	1.0467	10.593	317.778

Density: 1.012g per 1 mL

Cannabinoids Date Tested: 06/16/2021

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:; Water Activity Date Tested: 06/17/2021

; Moisture Date Tested:

Foreign Material Analytical Instrumentation: Illuminated Magnifying Lens. Foreign Material Analysis Date:; Foreign Matter Date Tested: 06/15/2021



Accreditation #101219
ISO/IEC 17025:2017

Noah Kaplan
Lab Director
06/18/2021

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Matrix: Ingestible	Received: 06/15/2021	Lic. #
Type: Tincture	Completed: 06/18/2021	14631 Best Ave
Sample Size: ; Batch Size:	Batch#: 1960BB0623	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: 06/17/2021

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Mycotoxins

Pass

Analyte	LOD µg/kg	LOQ µg/kg	Limit µg/kg	Units µg/kg	Status
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	ND	Pass
Ochratoxin A	16	20	20	ND	Pass

Date Tested: 06/15/2021

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Heavy Metals

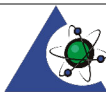
Pass

Analyte	LOD µg/g	LOQ µg/g	Limit µg/g	Units µg/g	Status
Arsenic	0.009	0.090	1.5	ND	Pass
Cadmium	0.009	0.090	0.5	ND	Pass
Lead	0.009	0.090	0.5	ND	Pass
Mercury	0.005	0.020	3	ND	Pass

Date Tested: 06/15/2021

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Matrix: Ingestible
Type: Tincture
Sample Size: ; Batch Size:

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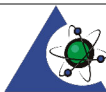
Client
Koi CBD
Lic. #
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Norwalk, CA 90650

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	0.3	ND	Pass	Fludioxonil	0.040	0.050	30	ND	Pass
Acephate	0.050	0.100	5	ND	Pass	Hexythiazox	0.010	0.020	2	ND	Pass
Acequinocyl	0.040	0.050	4	ND	Pass	Imazalil	0.040	0.050	0.04	ND	Pass
Acetamiprid	0.010	0.020	5	ND	Pass	Imidacloprid	0.010	0.020	3	ND	Pass
Aldicarb	0.010	0.020	0.01	ND	Pass	Kresoxim Methyl	0.020	0.050	1	ND	Pass
Azoxystrobin	0.010	0.020	40	ND	Pass	Malathion	0.010	0.020	5	ND	Pass
Bifenazate	0.010	0.020	5	ND	Pass	Metalaxyl	0.010	0.020	15	ND	Pass
Bifenthrin	0.010	0.020	0.5	ND	Pass	Methiocarb	0.010	0.020	0.01	ND	Pass
Boscalid	0.040	0.050	10	ND	Pass	Methomyl	0.010	0.020	0.1	ND	Pass
Captan	0.100	0.100	5	ND	Pass	Mevinphos	0.018	0.045	0.018	ND	Pass
Carbaryl	0.020	0.050	0.5	ND	Pass	Myclobutanil	0.040	0.050	9	ND	Pass
Carbofuran	0.010	0.020	0.01	ND	Pass	Naled	0.040	0.050	0.5	ND	Pass
Chlorantraniliprole	0.040	0.050	40	ND	Pass	Oxamyl	0.010	0.020	0.2	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	0.020	ND	Pass	Pentachloronitrobenzene	0.030	0.050	0.2	ND	Pass
Clofentezine	0.010	0.020	0.5	ND	Pass	Permethrin	0.020	0.050	20	ND	Pass
Coumaphos	0.050	0.100	0.05	ND	Pass	Phosmet	0.010	0.020	0.2	ND	Pass
Cyfluthrin	0.050	0.100	1	ND	Pass	Piperonyl Butoxide	0.010	0.020	8	ND	Pass
Cypermethrin	0.050	0.100	1	ND	Pass	Prallethrin	0.040	0.050	0.4	ND	Pass
Daminozide	0.040	0.050	0.04	ND	Pass	Propiconazole	0.040	0.050	20	ND	Pass
Diazinon	0.010	0.020	0.2	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	ND	Pass
Dimethoate	0.010	0.020	0.01	ND	Pass	Pyridaben	0.030	0.050	3	ND	Pass
Dimethomorph	0.020	0.050	20	ND	Pass	Spinetoram	0.041	0.061	3	ND	Pass
Ethoprophos	0.010	0.020	0.01	ND	Pass	Spinosad	0.019	0.048	3	ND	Pass
Etofenprox	0.010	0.020	0.01	ND	Pass	Spiromesifen	0.010	0.020	12	ND	Pass
Etoxazole	0.010	0.020	1.5	ND	Pass	Spirotetramat	0.020	0.050	13	ND	Pass
Fenhexamid	0.040	0.050	10	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	ND	Pass
Fenpyroximate	0.010	0.020	2	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	4.5	ND	Pass
Fonicamid	0.010	0.020	2	ND	Pass	Trifloxystrobin	0.010	0.020	30	ND	Pass

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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	1.0	ND	Pass
Acetone	5.0	10	5000	ND	Pass
Acetonitrile	5.0	10	410	ND	Pass
Benzene	0.25	0.50	1.0	ND	Pass
Butane	5.0	10	5000	ND	Pass
Chloroform	0.25	0.50	1.0	ND	Pass
Ethanol	5.0	10	5000	ND	Pass
Ethyl-Acetate	5.0	10	5000	ND	Pass
Ethyl-Ether	5.0	10	5000	ND	Pass
Ethylene Oxide	0.50	1.0	1.0	ND	Pass
Heptane	5.0	10	5000	ND	Pass
Isopropanol	5.0	10	5000	ND	Pass
Methanol	5.0	10	3000	ND	Pass
Methylene Chloride	0.25	0.50	1.0	ND	Pass
n-Hexane	5.0	10	290	ND	Pass
Pentane	5.0	10	5000	ND	Pass
Propane	5.0	10	5000	ND	Pass
Toluene	5.0	10	890	ND	Pass
Trichloroethene	0.25	0.50	1.0	ND	Pass
Xylenes	5.0	10	2170	ND	Pass

Date Tested: 06/15/2021 LOD = Limit of Detection; LOQ = Limit of Quantitation; ND = Not Detected; NT = Not Tested;
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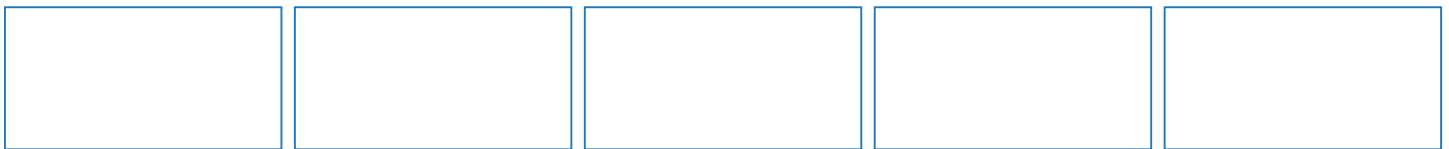
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Terpenes

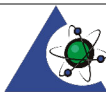
Analyte	LOD	LOQ	Mass	Mass
	mg/g	mg/g	mg/g	%
α-Bisabolol	0.03	0.10	ND	ND
α-Humulene	0.03	0.10	ND	ND
α-Pinene	0.03	0.10	ND	ND
α-Terpinene	0.03	0.10	ND	ND
β-Caryophyllene	0.03	0.10	ND	ND
β-Myrcene	0.03	0.10	ND	ND
β-Pinene	0.03	0.10	ND	ND
Camphene	0.03	0.10	ND	ND
Caryophyllene Oxide	0.03	0.10	ND	ND
cis-Nerolidol	0.03	0.10	ND	ND
δ-3-Carene	0.03	0.10	ND	ND
δ-Limonene	0.03	0.10	ND	ND
Eucalyptol	0.03	0.10	ND	ND
γ-Terpinene	0.03	0.10	ND	ND
Guaiol	0.03	0.10	ND	ND
Isopulegol	0.03	0.10	ND	ND
Linalool	0.03	0.10	ND	ND
Ocimene	0.03	0.10	ND	ND
p-Cymene	0.03	0.10	ND	ND
Terpinolene	0.03	0.10	ND	ND
trans-Nerolidol	0.03	0.10	ND	ND
Total			0.00	0

Primary Aromas



Date Tested: 06/15/2021

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



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Koi Naturals Hemp Extract CBD Oil Tincture | Natural Flavor (500 mg)

Sample ID: 2205CSALA0548.7815

Matrix: Concentrates & Extracts

Type: Tincture

Sample Size: 1 units

Batch Size: 1000 units

Batch#: 2409BB0524

Produced: 05/26/2022

Collected: 05/27/2022

Received: 05/27/2022

Completed: 05/31/2022

Client

Koi CBD

Lic. #

14631 Best Ave

Norwalk, CA 90650



Summary

Pass

524.2803 mg/package Total Cannabinoids	Pass Pesticides	Pass Residual Solvents
Pass Microbials	Pass Mycotoxins	Pass Heavy Metals

Cannabinoids

Pass

Testing method: HPLC-SOP 101

Analyte	LOD	LOQ	Results	Results
	mg/g	mg/g	mg/g	mg/package
CBD	0.0175	0.025	17.4961	491.5004
CBT	0.021	0.0975	0.4692	13.1808
CBN	0.0245	0.025	0.2309	6.4861
CBC	0.0213	0.025	0.2006	5.6355
CBG	0.0229	0.025	0.1391	3.9083
CBDV	0.0204	0.025	0.1271	3.5692
CBCA	0.0221	0.025	ND	ND
CBDa	0.0133	0.025	ND	ND
CBDVA	0.0238	0.025	ND	ND
CBGa	0.0187	0.025	ND	ND
THCa	0.0184	0.025	ND	ND
THCV	0.0242	0.025	ND	ND
THCVA	0.0243	0.025	ND	ND
Δ8-THC	0.022	0.025	ND	ND
Δ9-THC	0.0207	0.025	ND	ND

ND
Total THC
491.5004 mg/package
Total CBD

Package = 1 Tincture Bottle, 30.0 milliliters; Density = 0.9364 g/ml; 0.0 mg/package Total THC; 491.5004 mg/package Total CBD; 0.0 mg/g Total THC; 17.4961 mg/g Total CBD;

Date Tested: 05/31/2022

Total THC = THCa * 0.877 + d9-THC

Total CBD = CBDa * 0.877 + CBD

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

Terpenes

Complete

Testing method: HS-GC-FID - SOP 201

Analyte	LOD	LOQ	Results	Results
	mg/g	mg/g	mg/g	%
Guaiol	0.01	0.02	ND	ND
α-Bisabolol	0.01	0.02	ND	ND
Camphene	0.01	0.02	ND	ND
Caryophyllene Oxide	0.01	0.02	ND	ND
Eucalyptol	0.01	0.02	ND	ND
Geraniol	0.005	0.02	ND	ND
Isopulegol	0.01	0.02	ND	ND
Linalool	0.005	0.02	ND	ND
Ocimene	0.004	0.01	ND	ND
p-Cymene	0.01	0.02	ND	ND
Terpinolene	0.01	0.02	ND	ND
trans-Nerolidol	0.003	0.01	ND	ND
α-Humulene	0.01	0.02	ND	ND
α-Pinene	0.01	0.02	ND	ND
α-Terpinene	0.01	0.02	ND	ND
β-Caryophyllene	0.01	0.02	ND	ND
β-Myrcene	0.01	0.02	ND	ND
β-Pinene	0.01	0.02	ND	ND
γ-Terpinene	0.01	0.02	ND	ND
δ-3-Carene	0.01	0.02	ND	ND
δ-Limonene	0.01	0.02	ND	ND
Total			ND	ND

Date Tested: 05/27/2022

NT Moisture Moisture Analyzer SOP-103	NT Water Activity Water Activity Meter SOP-102	Pass Foreign Matter Visual Inspection SOP-600 Date Tested: 05/27/2022
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 ISO / IEC 17025:2017 ACCREDITED
 LABORATORY
 Accreditation No. 73653



 Ini Afia
 Chief Science Officer
 05/31/2022



 Neya Jourabchian
 COA Review
 05/31/2022

Koi Naturals Hemp Extract CBD Oil Tincture | Natural Flavor (500 mg)

Sample ID: 2205CSALA0548.7815

Matrix: Concentrates & Extracts

Type: Tincture

Sample Size: 1 units

Batch Size: 1000 units

Batch#: 2409BB0524

Produced: 05/26/2022

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Pesticides

Pass

Testing method: LCMS & GCMS-SOP 301 and 302

Analyte	LOD	LOQ	Limit	Results	Status	Analyte	LOD	LOQ	Limit	Results	Status
	µg/g	µg/g	µg/g	µg/g			µg/g	µg/g	µg/g	µg/g	
Abamectin	0.037	0.068	0.3	ND	Pass	Fludioxonil	0.05	0.078	30	ND	Pass
Acephate	0.035	0.078	5	ND	Pass	Hexythiazox	0.041	0.078	2	ND	Pass
Acequinocyl	0.033	0.078	4	ND	Pass	Imazalil *	0.047	0.078	0.047	ND	Pass
Acetamiprid	0.034	0.078	5	ND	Pass	Imidacloprid	0.033	0.078	3	ND	Pass
Aldicarb *	0.032	0.078	0.032	ND	Pass	Kresoxim Methyl	0.033	0.078	1	ND	Pass
Azoxystrobin	0.033	0.078	40	ND	Pass	Malathion	0.05	0.078	5	ND	Pass
Bifenazate	0.069	0.078	5	ND	Pass	Metalaxyl	0.036	0.078	15	ND	Pass
Bifenthrin	0.067	0.078	0.5	ND	Pass	Methiocarb *	0.05	0.078	0.05	ND	Pass
Boscalid	0.045	0.078	10	ND	Pass	Methomyl	0.04	0.078	0.1	ND	Pass
Captan	0.53	0.625	5	ND	Pass	Methyl Parathion *	0.052	0.078	0.052	ND	Pass
Carbaryl	0.04	0.078	0.5	ND	Pass	Mevinphos *	0.034	0.078	0.034	ND	Pass
Carbofuran *	0.034	0.078	0.034	ND	Pass	Myclobutanil	0.062	0.078	9	ND	Pass
Chlorantraniliprole	0.033	0.078	40	ND	Pass	Naled	0.052	0.078	0.5	ND	Pass
Chlordane *	0.067	0.078	0.067	ND	Pass	Oxamyl	0.033	0.078	0.2	ND	Pass
Chlorfenapyr *	0.067	0.078	0.067	ND	Pass	Paclobutrazol *	0.062	0.078	0.062	ND	Pass
Chlorpyrifos *	0.033	0.078	0.033	ND	Pass	Pentachloronitrobenzene	0.071	0.078	0.2	ND	Pass
Clofentezine	0.047	0.078	0.5	ND	Pass	Permethrin	0.05	0.078	20	ND	Pass
Coumaphos *	0.041	0.078	0.041	ND	Pass	Phosmet	0.033	0.078	0.2	ND	Pass
Cyfluthrin	0.148	0.156	1	ND	Pass	Piperonyl Butoxide	0.039	0.078	8	ND	Pass
Cypermethrin	0.079	0.156	1	ND	Pass	Prallethrin	0.041	0.078	0.4	ND	Pass
Daminozide *	0.043	0.078	0.043	ND	Pass	Propiconazole	0.04	0.078	20	ND	Pass
DDVP *	0.037	0.078	0.037	ND	Pass	Propoxur *	0.041	0.078	0.041	ND	Pass
Diazinon	0.031	0.078	0.2	ND	Pass	Pyrethrins	0.188	0.22	1	ND	Pass
Dimethoate *	0.028	0.078	0.028	ND	Pass	Pyridaben	0.059	0.078	3	ND	Pass
Dimethomorph	0.033	0.078	20	ND	Pass	Spinetoram	0.042	0.078	3	ND	Pass
Ethoprophos *	0.029	0.078	0.029	ND	Pass	Spinosad	0.038	0.079	3	ND	Pass
Etofenprox *	0.038	0.078	0.038	ND	Pass	Spiromesifen	0.038	0.078	12	ND	Pass
Etoxazole	0.034	0.078	1.5	ND	Pass	Spirotetramat	0.031	0.078	13	ND	Pass
Fenhexamid	0.072	0.078	10	ND	Pass	Spiroxamine *	0.031	0.078	0.031	ND	Pass
Fenoxycarb *	0.028	0.078	0.028	ND	Pass	Tebuconazole	0.034	0.078	2	ND	Pass
Fenpyroximate	0.025	0.078	2	ND	Pass	Thiacloprid *	0.033	0.078	0.033	ND	Pass
Fipronil *	0.057	0.078	0.057	ND	Pass	Thiamethoxam	0.039	0.078	4.5	ND	Pass
Fonicamid	0.043	0.078	2	ND	Pass	Trifloxystrobin	0.039	0.078	30	ND	Pass

Date Tested: 05/27/2022

* Denotes Category I pesticides, which fail when detected; LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.


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 Accreditation No. 73653

 Ini Afia
 Chief Science Officer
 05/31/2022

 Neya Jourabchian
 COA Review
 05/31/2022

Koi Naturals Hemp Extract CBD Oil Tincture | Natural Flavor (500 mg)

Sample ID: 2205CSALA0548.7815

Matrix: Concentrates & Extracts

Type: Tincture

Sample Size: 1 units

Batch Size: 1000 units

Batch#: 2409BB0524

Produced: 05/26/2022

Collected: 05/27/2022

Received: 05/27/2022

Completed: 05/31/2022

Client

Koi CBD

Lic. #

14631 Best Ave

Norwalk, CA 90650

Microbials

Pass

Testing method: PCR-SOP 401

Analyte	Result	Status
Salmonella	Not Detected	Pass
Shiga toxin-producing E. Coli	Not Detected	Pass

Date Tested: 05/31/2022

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

Mycotoxins

Pass

Testing method: LCMS-SOP 301

Analyte	LOD	LOQ	Limit	Results	Status
	µg/kg	µg/kg	µg/kg	µg/kg	
Aflatoxin B1	2.0	3.9		ND	Tested
Aflatoxin B2	3.0	3.9		ND	Tested
Aflatoxin G1	2.4	3.9		ND	Tested
Aflatoxin G2	3.1	3.9		ND	Tested
Total Aflatoxins	10.5	15.6	20	ND	Pass
Ochratoxin A	6.4	15.5	20	ND	Pass

Date Tested: 05/27/2022

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

Heavy Metals

Pass

Testing method: ICPMS-SOP 502

Analyte	LOD	LOQ	Limit	Results	Status
	µg/g	µg/g	µg/g	µg/g	
Arsenic	0.005	0.05	1.5	ND	Pass
Cadmium	0.003	0.05	0.5	<LOQ	Pass
Lead	0.01	0.05	0.5	ND	Pass
Mercury	0.002	0.05	3	<LOQ	Pass

Date Tested: 05/31/2022

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


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 Ini Afia
 Chief Science Officer
 05/31/2022

 Neya Jourabchian
 COA Review
 05/31/2022

Koi Naturals Hemp Extract CBD Oil Tincture | Natural Flavor (500 mg)

Sample ID: 2205CSALA0548.7815

Matrix: Concentrates & Extracts

Type: Tincture

Sample Size: 1 units

Batch Size: 1000 units

Batch#: 2409BB0524

Produced: 05/26/2022

Collected: 05/27/2022

Received: 05/27/2022

Completed: 05/31/2022

Client

Koi CBD

Lic. #

14631 Best Ave

Norwalk, CA 90650

Residual Solvents

Pass

Testing method: HSGCMS-SOP 202

Analyte	LOD	LOQ	Limit	Results	Status
	µg/g	µg/g	µg/g	µg/g	
1,2-Dichloroethane	0.08	1.0	1	ND	Pass
Acetone	9.19	50.0	5000	ND	Pass
Acetonitrile	17.49	58.35	410	ND	Pass
Benzene	0.09	1.0	1	ND	Pass
Butane	35.32	117.8	5000	ND	Pass
Chloroform	0.21	1.0	1	ND	Pass
Ethanol	14.96	50.0	5000	ND	Pass
Ethyl acetate	12.8	50.0	5000	ND	Pass
Ethylene Oxide	0.3	1.0	1	ND	Pass
Ethyl ether	16.0	53.36	5000	ND	Pass
Heptane	42.11	140.48	5000	ND	Pass
Isopropyl alcohol	19.79	66.02	5000	ND	Pass
Methanol	149.0	497.01	3000	ND	Pass
Methylene chloride	0.11	1.0	1	ND	Pass
Hexane	33.99	113.37	290	ND	Pass
Pentane	28.08	93.67	5000	ND	Pass
Propane	42.44	141.57	5000	ND	Pass
Toluene	23.99	80.03	890	ND	Pass
Trichloroethylene	0.06	1.0	1	ND	Pass
Total xylenes	65.49	218.45	2170	ND	Pass

Date Tested: 05/27/2022

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


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 Ini Afia
 Chief Science Officer
 05/31/2022

 Neya Jourabchian
 COA Review
 05/31/2022

Koi Naturals Hemp Extract CBD Oil Tincture | Natural Flavor (1000 mg)

Sample ID: 2112CSALA8355.2997

Matrix: Concentrates & Extracts

Type: Tincture

Sample Size: 1 units

Batch Size: 1600 units

Batch#: 2280BB1223

Produced: 12/15/2021

Collected: 12/16/2021

Received: 12/16/2021

Completed: 12/20/2021

Client

Koi CBD

Lic. #

14631 Best Ave

Norwalk, CA 90650



Summary

Pass

1191.5705 mg/package Total Cannabinoids	Pass Pesticides	Pass Residual Solvents
Pass Microbials	Pass Mycotoxins	Pass Heavy Metals

Cannabinoids

Pass

Testing method: HPLC-SOP 101

Analyte	LOD	LOQ	Results	Results
	mg/ml	mg/ml	mg/ml	mg/package
CBD	0.0165	0.0235	35.7659	1072.9759
CBC	0.02	0.0235	1.2418	37.2546
CBT *	0.0198	0.0918	1.2119	36.3565
CBN	0.0231	0.0235	0.7609	22.8261
CBG	0.0216	0.0235	0.4580	13.7402
CBDV	0.0192	0.0235	0.2806	8.4172
CBCA *	0.0208	0.0235	ND	ND
CBDa	0.0125	0.0235	ND	ND
CBDVA *	0.0224	0.0235	ND	ND
CBGa	0.0176	0.0235	ND	ND
THCa	0.0173	0.0235	ND	ND
THCV	0.0228	0.0235	ND	ND
THCVA *	0.0229	0.0235	ND	ND
Δ8-THC	0.0207	0.0235	ND	ND
Δ9-THC	0.0195	0.0235	ND	ND

ND

Total THC

1072.9759 mg/package

Total CBD

Package = 1 Tincture Bottle, 30.0 milliliters; Density = 0.9411 g/ml; 0.0

mg/package Total THC; 1072.9759 mg/package Total CBD;

Date Tested: 12/19/2021

Total THC = THCa * 0.877 + d9-THC

Total CBD = CBDa * 0.877 + CBD

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

* Denotes analytes pending ISO-17025 scope addition

Terpenes

Complete

Testing method: HS-GC-FID - SOP 201

Analyte	LOD	LOQ	Results	Results
	%	%	%	mg/g
Caryophyllene Oxide	0.029	0.0874	ND	ND
trans-Nerolidol	0.007	0.0219	ND	ND
Geraniol	0.007	0.0205	ND	ND
Camphene	0.005	0.0163	ND	ND
Eucalyptol	0.006	0.0175	ND	ND
Guaial	0.011	0.0334	ND	ND
Isopulegol	0.009	0.0282	ND	ND
Linalool	0.008	0.0228	ND	ND
Ocimene	0.004	0.0109	ND	ND
p-Cymene	0.005	0.0162	ND	ND
Terpinolene	0.006	0.0168	ND	ND
α-Bisabolol	0.01	0.0295	ND	ND
α-Humulene	0.006	0.0173	ND	ND
α-Pinene	0.006	0.0175	ND	ND
α-Terpinene	0.005	0.0165	ND	ND
β-Caryophyllene	0.006	0.0173	ND	ND
β-Myrcene	0.008	0.024	ND	ND
β-Pinene	0.005	0.0147	ND	ND
γ-Terpinene	0.006	0.0168	ND	ND
δ-3-Carene	0.005	0.016	ND	ND
δ-Limonene	0.005	0.0159	ND	ND
Total			ND	ND

Date Tested: 12/17/2021

NT Moisture Moisture Analyzer SOP-103	NT Water Activity Water Activity Meter SOP-102	Pass Foreign Matter Visual Inspection SOP-600 Date Tested: 12/17/2021
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Accreditation No. 73653

Neyabourchian

Neyabourchian
Laboratory Director
12/20/2021

Mikaela Gutierrez

Mikaela Gutierrez
COA Review
12/20/2021

Koi Naturals Hemp Extract CBD Oil Tincture | Natural Flavor (1000 mg)

Sample ID: 2112CSALA8355.2997

Matrix: Concentrates & Extracts

Type: Tincture

Sample Size: 1 units

Batch Size: 1600 units

Batch#: 2280BB1223

Produced: 12/15/2021

Collected: 12/16/2021

Received: 12/16/2021

Completed: 12/20/2021

Client

Koi CBD

Lic. #

14631 Best Ave

Norwalk, CA 90650

Pesticides

Pass

Testing method: LCMS & GCMS-SOP 301 and 302

Analyte	LOD	LOQ	Limit	Results	Status	Analyte	LOD	LOQ	Limit	Results	Status
	µg/g	µg/g	µg/g	µg/g			µg/g	µg/g	µg/g	µg/g	
Abamectin	0.037	0.068	0.3	ND	Pass	Fludioxonil	0.05	0.078	30	ND	Pass
Acephate	0.035	0.078	5	ND	Pass	Hexythiazox	0.041	0.078	2	ND	Pass
Acequinocyl	0.033	0.078	4	ND	Pass	Imazalil *	0.047	0.078	0.047	ND	Pass
Acetamiprid	0.034	0.078	5	ND	Pass	Imidacloprid	0.033	0.078	3	ND	Pass
Aldicarb *	0.032	0.078	0.032	ND	Pass	Kresoxim Methyl	0.033	0.078	1	ND	Pass
Azoxystrobin	0.033	0.078	40	ND	Pass	Malathion	0.05	0.078	5	ND	Pass
Bifenazate	0.069	0.078	5	ND	Pass	Metalaxyl	0.036	0.078	15	ND	Pass
Bifenthrin	0.067	0.078	0.5	ND	Pass	Methiocarb *	0.05	0.078	0.05	ND	Pass
Boscalid	0.045	0.078	10	ND	Pass	Methomyl	0.04	0.078	0.1	ND	Pass
Captan	0.3188	0.625	5	ND	Pass	Methyl Parathion *	0.0387	0.0781	0.0387	ND	Pass
Carbaryl	0.04	0.078	0.5	ND	Pass	Mevinphos *	0.034	0.078	0.034	ND	Pass
Carbofuran *	0.034	0.078	0.034	ND	Pass	Myclobutanil	0.062	0.078	9	ND	Pass
Chlorantraniliprole	0.033	0.078	40	ND	Pass	Naled	0.052	0.078	0.5	ND	Pass
Chlordane *	0.0245	0.0781	0.0245	ND	Pass	Oxamyl	0.033	0.078	0.2	ND	Pass
Chlorfenapyr *	0.0178	0.0781	0.0178	ND	Pass	Paclobutrazol *	0.062	0.078	0.062	ND	Pass
Chlorpyrifos *	0.033	0.078	0.033	ND	Pass	Pentachloronitrobenzene	0.0358	0.0781	0.2	ND	Pass
Clofentezine	0.047	0.078	0.5	ND	Pass	Permethrin	0.05	0.078	20	ND	Pass
Coumaphos *	0.041	0.078	0.041	ND	Pass	Phosmet	0.033	0.078	0.2	ND	Pass
Cyfluthrin	0.148	0.156	1	ND	Pass	Piperonyl Butoxide	0.039	0.078	8	ND	Pass
Cypermethrin	0.079	0.156	1	ND	Pass	Prallethrin	0.041	0.078	0.4	ND	Pass
Daminozide *	0.043	0.078	0.043	ND	Pass	Propiconazole	0.04	0.078	20	ND	Pass
DDVP *	0.037	0.078	0.037	ND	Pass	Propoxur *	0.041	0.078	0.041	ND	Pass
Diazinon	0.031	0.078	0.2	ND	Pass	Pyrethrins	0.188	0.22	1	ND	Pass
Dimethoate *	0.028	0.078	0.028	ND	Pass	Pyridaben	0.059	0.078	3	ND	Pass
Dimethomorph	0.033	0.078	20	ND	Pass	Spinetoram	0.042	0.078	3	ND	Pass
Ethoprophos *	0.029	0.078	0.029	ND	Pass	Spinosad	0.038	0.079	3	ND	Pass
Etofenprox *	0.038	0.078	0.038	ND	Pass	Spiromesifen	0.038	0.078	12	ND	Pass
Etoxazole	0.034	0.078	1.5	ND	Pass	Spirotetramat	0.031	0.078	13	ND	Pass
Fenhexamid	0.072	0.078	10	ND	Pass	Spiroxamine *	0.031	0.078	0.031	ND	Pass
Fenoxycarb *	0.028	0.078	0.028	ND	Pass	Tebuconazole	0.034	0.078	2	ND	Pass
Fenpyroximate	0.025	0.078	2	ND	Pass	Thiacloprid *	0.033	0.078	0.033	ND	Pass
Fipronil *	0.057	0.078	0.057	ND	Pass	Thiamethoxam	0.039	0.078	4.5	ND	Pass
Flonicamid	0.043	0.078	2	ND	Pass	Trifloxystrobin	0.039	0.078	30	ND	Pass

Date Tested: 12/17/2021

* Denotes Category I pesticides, which fail when detected; LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.


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 Accreditation No. 73653



 Ney Jourabchian
 Laboratory Director
 12/20/2021



 Mikaela Gutierrez
 COA Review
 12/20/2021

Koi Naturals Hemp Extract CBD Oil Tincture | Natural Flavor (1000 mg)

Sample ID: 2112CSALA8355.2997

Matrix: Concentrates & Extracts

Type: Tincture

Sample Size: 1 units

Batch Size: 1600 units

Batch#: 2280BB1223

Produced: 12/15/2021

Collected: 12/16/2021

Received: 12/16/2021

Completed: 12/20/2021

Client

Koi CBD

Lic. #

14631 Best Ave

Norwalk, CA 90650

Microbials

Pass

Testing method: PCR-SOP 401

Analyte	Result	Status
Salmonella	Not Detected	Pass
Shiga toxin-producing E. Coli	Not Detected	Pass

Date Tested: 12/20/2021

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

Mycotoxins

Pass

Testing method: LCMS-SOP 301

Analyte	LOD	LOQ	Limit	Results	Status
	µg/kg	µg/kg	µg/kg	µg/kg	
Aflatoxin B1	2.0	3.9		ND	Tested
Aflatoxin B2	3.0	3.9		ND	Tested
Aflatoxin G1	2.4	3.9		ND	Tested
Aflatoxin G2	3.1	3.9		ND	Tested
Total Aflatoxins	10.5	15.6	20	ND	Pass
Ochratoxin A	6.4	15.5	20	ND	Pass

Date Tested: 12/17/2021

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

Heavy Metals

Pass

Testing method: ICPMS-SOP 502

Analyte	LOD	LOQ	Limit	Results	Status
	µg/g	µg/g	µg/g	µg/g	
Arsenic	0.005	0.05	1.5	<LOQ	Pass
Cadmium	0.003	0.05	0.5	ND	Pass
Lead	0.01	0.05	0.5	<LOQ	Pass
Mercury	0.002	0.05	3	<LOQ	Pass

Date Tested: 12/17/2021

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


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 Neya Jourabchian
 Laboratory Director
 12/20/2021

 Mikaela Gutierrez
 COA Review
 12/20/2021

Koi Naturals Hemp Extract CBD Oil Tincture | Natural Flavor (1000 mg)

Sample ID: 2112CSALA8355.2997

Matrix: Concentrates & Extracts

Type: Tincture

Sample Size: 1 units

Batch Size: 1600 units

Batch#: 2280BB1223

Produced: 12/15/2021

Collected: 12/16/2021

Received: 12/16/2021

Completed: 12/20/2021

Client

Koi CBD

Lic. #

14631 Best Ave

Norwalk, CA 90650

Residual Solvents

Pass

Testing method: HSGCMS-SOP 202

Analyte	LOD	LOQ	Limit	Results	Status
	µg/g	µg/g	µg/g	µg/g	
1,2-Dichloroethane	0.08	1.0	1	ND	Pass
Acetone	9.19	50.0	5000	ND	Pass
Acetonitrile	17.49	58.35	410	ND	Pass
Benzene	0.09	1.0	1	ND	Pass
Butane	35.32	117.8	5000	ND	Pass
Chloroform	0.21	1.0	1	ND	Pass
Ethanol	14.96	50.0	5000	<LOQ	Pass
Ethyl acetate	12.8	50.0	5000	ND	Pass
Ethylene Oxide	0.3	1.0	1	ND	Pass
Ethyl ether	16.0	53.36	5000	ND	Pass
Heptane	42.11	140.48	5000	ND	Pass
Isopropyl alcohol	19.79	66.02	5000	ND	Pass
Methanol	149.0	497.01	3000	ND	Pass
Methylene chloride	0.11	1.0	1	ND	Pass
Hexane	33.99	113.37	290	ND	Pass
Pentane	28.08	93.67	5000	ND	Pass
Propane	42.44	141.57	5000	ND	Pass
Toluene	23.99	80.03	890	ND	Pass
Trichloroethylene	0.06	1.0	1	ND	Pass
Total xylenes	65.49	218.45	2170	ND	Pass

Date Tested: 12/17/2021

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


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 Neya Jourabchian
 Laboratory Director
 12/20/2021

 Mikaela Gutierrez
 COA Review
 12/20/2021