

Koi Naturals Orange 1000mg

Sample ID: 2008CSALA9706.0089

Matrix: Concentrates & Extracts

Type: Tincture

Sample Size: 1 units

Batch Size: 1 units

Batch#: 1492BB0822

Produced: 08/07/2020

Collected: 08/10/2020

Received: 08/10/2020

Completed: 09/03/2020

Client

Koi CBD

Lic. #



Summary

Pass

1179.94 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/package	mg/ml
CBD	0.0059	0.018	1023.26	34.11
CBG	0.0047	0.0143	73.44	2.45
CBC	0.0009	0.0027	41.18	1.37
CBN	0.0014	0.0041	25.06	0.84
CBDV	0.0042	0.0126	11.23	0.37
Δ8-THC	0.0038	0.0115	3.74	0.12
CBDa	0.0012	0.0037	2.02	0.07
CBGa	0.0016	0.005	ND	ND
THCa	0.002	0.006	ND	ND
THCV	0.0036	0.0111	ND	ND
Δ9-THC	0.0038	0.0115	ND	ND
Total			1179.94	39.33

ND

Total THC

1025.03 mg/package

Total CBD

1 serving = 1 Dropper, 1.0 milliliters; Density = 0.96 g/ml; 30.0 servings per package; 0.0 mg/package Total THC; 1025.03 mg/package Total CBD;

Date Tested: 09/03/2020

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
δ-Limonene	0.005	0.0159	0.87	8.74
β-Myrcene	0.008	0.024	0.03	0.31
Camphene	0.005	0.0163	ND	ND
Caryophyllene Oxide	0.029	0.0874	ND	ND
Eucalyptol	0.006	0.0175	ND	ND
Geraniol	0.007	0.0205	ND	ND
Guaiol	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
trans-Nerolidol	0.007	0.0219	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-Pinene	0.005	0.0147	ND	ND
γ-Terpinene	0.006	0.0168	ND	ND
δ-3-Carene	0.005	0.016	ND	ND
Total			0.90	9.04

Date Tested: 08/12/2020

NT Moisture Moisture Analyzer SOP-103	NT Water Activity Water Activity Meter SOP-102	Pass Foreign Matter Visual Inspection SOP-600 Date Tested: 08/12/2020
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 LABORATORY
 Accreditation No. 73653



 Douglas Duncan
 Lab Director
 09/03/2020



 Amanda Bravo
 Quality Review
 09/03/2020



 Musa Aman
 COA Review
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Pesticides

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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	0.0009	0.003	0.3	ND	Pass	Fludioxonil	0.0143	0.048	30	ND	Pass
Acephate	0.005	0.017	5	ND	Pass	Hexythiazox	0.0237	0.079	2	ND	Pass
Acequinocyl	0.0193	0.064	4	ND	Pass	Imazalil *	0.0077	0.026	0.0077	ND	Pass
Acetamiprid	0.0073	0.024	5	ND	Pass	Imidacloprid	0.0053	0.018	3	ND	Pass
Aldicarb *	0.0094	0.031	0.0094	ND	Pass	Kresoxim Methyl	0.0182	0.061	1	ND	Pass
Azoxystrobin	0.015	0.05	40	ND	Pass	Malathion	0.015	0.05	5	ND	Pass
Bifenazate	0.0129	0.043	5	ND	Pass	Metalaxyl	0.0076	0.025	15	ND	Pass
Bifenthrin	0.029	0.097	0.5	ND	Pass	Methiocarb *	0.0103	0.034	0.0103	ND	Pass
Boscalid	0.0172	0.058	10	ND	Pass	Methomyl	0.0109	0.036	0.1	ND	Pass
Captan	0.036	0.12	5	ND	Pass	Methyl Parathion *	0.0091	0.0303	0.0091	ND	Pass
Carbaryl	0.0542	0.181	0.5	ND	Pass	Mevinphos *	0.0041	0.014	0.0041	ND	Pass
Carbofuran *	0.0077	0.026	0.0077	ND	Pass	Myclobutanil	0.01	0.033	9	ND	Pass
Chlorantraniliprole	0.0095	0.032	40	ND	Pass	Naled	0.0107	0.036	0.5	ND	Pass
Chlordane *	0.0055	0.0182	0.0055	ND	Pass	Oxamyl	0.0071	0.024	0.2	ND	Pass
Chlorfenapyr *	0.0048	0.0159	0.0048	ND	Pass	Paclobutrazol *	0.0092	0.031	0.0092	ND	Pass
Chlorpyrifos *	0.0197	0.066	0.0197	ND	Pass	Pentachloronitrobenzene	0.0084	0.0279	0.2	ND	Pass
Clofentezine	0.0216	0.072	0.5	ND	Pass	Permethrin	0.0142	0.048	20	ND	Pass
Coumaphos *	0.0196	0.065	0.0196	ND	Pass	Phosmet	0.0138	0.046	0.2	ND	Pass
Cyfluthrin	0.0107	0.036	1	ND	Pass	Piperonyl Butoxide	0.0156	0.052	8	ND	Pass
Cypermethrin	0.0105	0.035	1	ND	Pass	Prallethrin	0.018	0.06	0.4	ND	Pass
Daminozide *	0.0052	0.017	0.0052	ND	Pass	Propiconazole	0.013	0.043	20	ND	Pass
DDVP *	0.0081	0.027	0.0081	ND	Pass	Propoxur *	0.0097	0.033	0.0097	ND	Pass
Diazinon	0.0134	0.045	0.2	ND	Pass	Pyrethrins	0.0025	0.008	1	ND	Pass
Dimethoate *	0.0083	0.028	0.0083	ND	Pass	Pyridaben	0.0236	0.079	3	ND	Pass
Dimethomorph	0.0025	0.008	20	ND	Pass	Spinetoram	0.0042	0.014	3	ND	Pass
Ethoprophos *	0.0112	0.037	0.0112	ND	Pass	Spinosad	0.0002	0.001	3	ND	Pass
Etofenprox *	0.0247	0.082	0.0247	ND	Pass	Spiromesifen	0.0199	0.066	12	ND	Pass
Etoxazole	0.0269	0.09	1.5	ND	Pass	Spirotetramat	0.0068	0.023	13	ND	Pass
Fenhexamid	0.0215	0.072	10	ND	Pass	Spiroxamine *	0.0065	0.022	0.0065	ND	Pass
Fenoxycarb *	0.0186	0.062	0.0186	ND	Pass	Tebuconazole	0.0099	0.033	2	ND	Pass
Fenpyroximate	0.0253	0.084	2	ND	Pass	Thiacloprid *	0.0094	0.031	0.0094	ND	Pass
Fipronil *	0.0228	0.076	0.0228	ND	Pass	Thiamethoxam	0.005	0.017	4.5	ND	Pass
Flonicamid	0.0073	0.024	2	ND	Pass	Trifloxystrobin	0.0192	0.064	30	ND	Pass

Date Tested: 08/12/2020

* 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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Microbials

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Testing method: PCR-SOP 401

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

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Mycotoxins

Pass

Testing method: LCMS-SOP 301

Analyte	LOD	LOQ	Limit	Results	Status
	µg/kg	µg/kg	µg/kg	µg/kg	
Aflatoxin B1	0.0036	0.012		ND	Tested
Aflatoxin B2	0.0092	0.031		ND	Tested
Aflatoxin G1	0.0058	0.019		ND	Tested
Aflatoxin G2	0.0034	0.011		ND	Tested
Total Aflatoxins			20	ND	Pass
Ochratoxin A	0.0113	0.038	20	ND	Pass

Date Tested: 08/13/2020

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Heavy Metals

Pass

Testing method: ICPMS-SOP 502

Analyte	LOD	LOQ	Limit	Results	Status
	µg/g	µg/g	µg/g	µg/g	
Arsenic	0.02	0.06	1.5	ND	Pass
Cadmium	0.03	0.1	0.5	ND	Pass
Lead	0.002	0.005	0.5	0.017	Pass
Mercury	0.02	0.06	3	ND	Pass

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Residual Solvents

Testing method: HSGCMS-SOP 202

Pass

Analyte	LOD	LOQ	Limit	Results	Status
	µg/g	µg/g	µg/g	µg/g	
1,2-Dichloro-Ethane	0.1	0.4	1	ND	Pass
Acetone	64.0	214.0	5000	ND	Pass
Acetonitrile	36.0	119.0	410	ND	Pass
Benzene	0.1	0.2	1	ND	Pass
Butane	42.0	141.0	5000	ND	Pass
Chloroform	0.1	0.4	1	ND	Pass
Ethanol	59.0	197.0	5000	ND	Pass
Ethyl-Acetate	43.0	144.0	5000	ND	Pass
Ethylene Oxide	0.2	0.6	1	ND	Pass
Ethyl-Ether	40.0	134.0	5000	ND	Pass
Heptane	46.0	154.0	5000	ND	Pass
Isopropanol	41.0	138.0	5000	ND	Pass
Methanol	160.0	534.0	3000	ND	Pass
Methylene-Chloride	0.1	0.4	1	ND	Pass
n-Hexane	42.0	139.0	290	ND	Pass
Pentane	69.0	229.0	5000	ND	Pass
Propane	21.0	70.0	5000	ND	Pass
Toluene	47.0	156.0	890	ND	Pass
Trichloroethene	0.1	0.4	1	ND	Pass
Xylenes	86.0	287.0	2170	ND	Pass

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