

Koi Spectrum 500mg

Sample ID: 1904CSALA2777.9644

Strain: Koi Spectrum 500mg
Matrix: Concentrates & Extracts
Type: Other
Sample Size: 2 units
Batch Size:

Produced: N/A
Collected: 04/15/2019
Received: 04/15/2019
Completed: 04/22/2019
Batch#: 0024-190319

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



Summary

Pass

55.38% Total Cannabinoids	Pass Pesticides	Pass Residual Solvents
Pass Microbials	Pass Mycotoxins	Pass Heavy Metals

Cannabinoids

Testing method: HPLC-SOP 101

Pass

Analyte	LOD	LOQ	Mass	Mass
	%	%	%	mg/g
CBD	0.00004	0.0001	48.81	488.12
CBG	0.00004	0.0001	5.54	55.40
CBDV	0.00001	0.0001	0.89	8.91
CBC	0.00001	0.0001	0.14	1.38
CBDa	0.00002	0.0001	ND	ND
CBGa	0.00002	0.0001	ND	ND
CBN	0.00002	0.0001	ND	ND
THCa	0.00002	0.0001	ND	ND
THCV	0.00004	0.0001	ND	ND
Δ8-THC	0.00004	0.0001	ND	ND
Δ9-THC	0.00004	0.0001	ND	ND
Total			55.38	553.81

ND	48.81%
Total THC	Total CBD

Date Tested: 04/22/2019

Total THC = THCa * 0.877 + d9-THC

Total CBD = CBDa * 0.877 + CBD

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Terpenes

Testing method: HS-GC-FID - SOP 201

Complete

Analyte	LOD	LOQ	Mass	Mass
	%	%	%	mg/g
β-Caryophyllene	0.00017	0.0013	3.27	32.71
α-Bisabolol	0.00015	0.0013	2.61	26.12
α-Humulene	0.00057	0.0013	0.74	7.44
trans-Nerolidol	0.00058	0.0013	0.31	3.10
Caryophyllene Oxide	0.00017	0.0013	0.31	3.06
Guaiol	0.00018	0.0013	0.25	2.53
Linalool	0.00015	0.0013	0.11	1.06
Isopulegol	0.00011	0.0013	0.07	0.71
Eucalyptol	0.00017	0.0013	0.03	0.28
δ-Limonene	0.00016	0.0013	0.01	0.12
Camphene	0.00072	0.0013	ND	ND
cis-Nerolidol	0.00009	0.0013	ND	ND
Geraniol	0.00013	0.0013	ND	ND
Ocimene	0.00013	0.0013	ND	ND
p-Cymene	0.0001	0.0013	ND	ND
Terpinolene	0.00016	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
γ-Terpinene	0.00012	0.0013	ND	ND
δ-3-Carene	0.0004	0.0013	ND	ND
Total			7.72	77.15

Date Tested: 04/17/2019

NT Moisture Moisture Analyzer SOP-103	NT Water Activity Water Activity Meter SOP-102	Pass Foreign Matter Visual Inspection SOP-001 Date Tested: 04/17/2019
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ISO / IEC 17025:2017 ACCREDITED LABORATORY
Accreditation No. 73653

Mallory Speakman
Laboratory Director - LA
04/22/2019

Anya Engen
Quality Manager
04/22/2019

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Pesticides

Testing method: LCMS & GCMS-SOP 301

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	0.018	0.059	0.1	ND	Pass	Fludioxonil	0.007	0.024	0.1	ND	Pass
Acephate	0.009	0.029	0.1	ND	Pass	Hexythiazox	0.007	0.024	0.1	ND	Pass
Acequinocyl	0.005	0.018	0.1	ND	Pass	Imazalil *	0.004	0.012	0.1	ND	Pass
Acetamiprid	0.004	0.013	0.1	ND	Pass	Imidacloprid	0.039	0.129	5.0	ND	Pass
Aldicarb *	0.004	0.013	0.1	ND	Pass	Kresoxim Methyl	0.005	0.017	0.1	ND	Pass
Azoxystrobin	0.006	0.019	0.1	ND	Pass	Malathion	0.01	0.032	0.5	ND	Pass
Bifenazate	0.004	0.014	0.1	ND	Pass	Metalaxyl	0.003	0.01	2.0	ND	Pass
Bifenthrin	0.008	0.027	3.0	ND	Pass	Methiocarb *	0.006	0.02	0.1	ND	Pass
Boscalid	0.006	0.019	0.1	ND	Pass	Methomyl	0.009	0.03	1.0	ND	Pass
Captan	0.0789	0.2631	0.7	ND	Pass	Methyl Parathion *	0.007	0.0233	0.1	ND	Pass
Carbaryl	0.005	0.015	0.5	ND	Pass	Mevinphos *	0.003	0.011	0.1	ND	Pass
Carbofuran *	0.005	0.018	0.1	ND	Pass	Myclobutanil	0.017	0.058	0.1	ND	Pass
Chlorantraniliprole	0.007	0.024	10.0	ND	Pass	Naled	0.007	0.024	0.1	ND	Pass
Chlordane *	0.0291	0.0969	0.1	ND	Pass	Oxamyl	0.003	0.009	0.5	ND	Pass
Chlorfenapyr *	0.01	0.033	0.1	ND	Pass	Paclobutrazol *	0.013	0.044	0.1	ND	Pass
Chlorpyrifos *	0.005	0.017	0.1	ND	Pass	Pentachloronitrobenzene	0.0046	0.0152	0.1	ND	Pass
Clofentezine	0.006	0.019	0.1	ND	Pass	Permethrin	0.011	0.036	0.5	ND	Pass
Coumaphos *	0.009	0.028	0.1	ND	Pass	Phosmet	0.007	0.025	0.1	ND	Pass
Cyfluthrin	0.008	0.026	2.0	ND	Pass	Piperonyl Butoxide	0.005	0.018	3.0	ND	Pass
Cypermethrin	0.013	0.044	1.0	ND	Pass	Prallethrin	0.007	0.024	0.1	ND	Pass
Daminozide *	0.021	0.07	0.1	ND	Pass	Propiconazole	0.008	0.026	0.1	ND	Pass
DDVP *	0.004	0.012	0.1	ND	Pass	Propoxur *	0.004	0.013	0.1	ND	Pass
Diazinon	0.005	0.017	0.1	ND	Pass	Pyrethrins	0.003	0.01	0.5	ND	Pass
Dimethoate *	0.003	0.011	0.1	ND	Pass	Pyridaben	0.008	0.027	0.1	ND	Pass
Dimethomorph	0.007	0.023	2.0	ND	Pass	Spinetoram	0.007	0.022	0.1	ND	Pass
Ethoprophos *	0.004	0.013	0.1	ND	Pass	Spinosad	0.005	0.016	0.1	ND	Pass
Etofenprox *	0.005	0.017	0.1	ND	Pass	Spiromesifen	0.007	0.023	0.1	ND	Pass
Etoxazole	0.006	0.018	0.1	ND	Pass	Spirotetramat	0.009	0.03	0.1	ND	Pass
Fenhexamid	0.009	0.03	0.1	ND	Pass	Spiroxamine *	0.006	0.019	0.1	ND	Pass
Fenoxycarb *	0.007	0.022	0.1	ND	Pass	Tebuconazole	0.013	0.042	0.1	ND	Pass
Fenpyroximate	0.009	0.03	0.1	ND	Pass	Thiacloprid *	0.007	0.023	0.1	ND	Pass
Fipronil *	0.017	0.056	0.1	ND	Pass	Thiamethoxam	0.004	0.013	5.0	ND	Pass
Flonicamid	0.0244	0.0814	0.1	ND	Pass	Trifloxystrobin	0.004	0.014	0.1	ND	Pass

Date Tested: 04/19/2019

* 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

Testing method: PCR-SOP 401

Pass

Analyte	Result	Status
Aspergillus flavus	Not Detected	Pass
Aspergillus fumigatus	Not Detected	Pass
Aspergillus niger	Not Detected	Pass
Aspergillus terreus	Not Detected	Pass
Salmonella	Not Detected	Pass
Shiga toxin-producing E. Coli	Not Detected	Pass

Date Tested: 04/18/2019

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Mycotoxins

Testing method: LCMS-SOP 301

Pass

Analyte	LOD	LOQ	Limit	Units	Status
	µg/kg	µg/kg	µg/kg	µg/kg	
Aflatoxin B1	0.001	0.005		ND	Tested
Aflatoxin B2	0.007	0.022		ND	Tested
Aflatoxin G1	0.007	0.022		ND	Tested
Aflatoxin G2	0.006	0.021		ND	Tested
Total Aflatoxins			20.0	ND	Pass
Ochratoxin A	0.013	0.045	20.0	ND	Pass

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Heavy Metals

Testing method: ICPMS-SOP 501

Pass

Analyte	LOD	LOQ	Limit	Mass	Status
	µg/g	µg/g	µg/g	µg/g	
Arsenic	0.001	0.01	0.2	0.010	Pass
Cadmium	0.001	0.01	0.2	ND	Pass
Lead	0.001	0.01	0.5	0.085	Pass
Mercury	0.001	0.01	0.1	0.016	Pass

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Residual Solvents

Testing method: HSGCMS-SOP 202

Pass

Analyte	LOD	LOQ	Limit	Mass	Status
	µg/g	µg/g	µg/g	µg/g	
1,2-Dichloro-Ethane	0.024	0.24	1	ND	Pass
Acetone	0.112	1.12	5000	ND	Pass
Acetonitrile	0.0196	0.196	410	ND	Pass
Benzene	0.0096	0.096	1	ND	Pass
Butane	0.2	2.0	5000	ND	Pass
Chloroform	0.0288	0.288	1	ND	Pass
Ethanol	0.112	1.12	5000	31.97	Pass
Ethyl-Acetate	0.112	1.12	5000	ND	Pass
Ethylene Oxide	0.024	0.24	1	ND	Pass
Ethyl-Ether	0.112	1.12	5000	ND	Pass
Heptane	0.112	1.12	5000	ND	Pass
Isopropanol	0.112	1.12	5000	ND	Pass
Methanol	0.144	1.44	3000	ND	Pass
Methylene-Chloride	0.0288	0.288	1	ND	Pass
n-Hexane	0.1392	1.392	290	ND	Pass
Pentane	0.112	1.12	5000	ND	Pass
Propane	0.08	0.8	5000	ND	Pass
Toluene	0.4272	4.272	890	ND	Pass
Trichloroethene	0.0384	0.384	1	ND	Pass
Xylenes	1.0416	10.416	2170	ND	Pass

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