

Order #: 32774 Order Name: Koi Spectrum Catridge 250 mg Batch#: 0024_190411 Received: 07/02/2019 Completed: 07/08/2019



Koi CBD LLC 14631 Best Ave Norwalk California, 90650 (877) 774-4779 thinh@koicbd.com



Sample

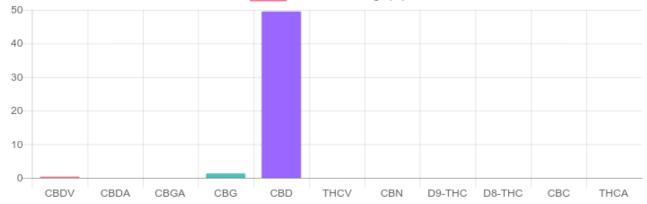




Cannabinoids Test

NOL D9-TI ID THC/ CBD		mg/g N/D N/D
ID THCA CBD	A N/D	N/D
CBD		
	49.503%	
		495.028
CBDA	A N/D	N/D
CBD	V 0.366%	3.662
CBC	N/D	N/D
CBN	N/D	N/D
CBG	1.291%	12.911
CBG	A N/D	N/D
NOL D8-T	HC N/D	N/D
THC	V N/D	N/D
	N/D 49.503% 51 160%	N/D 495.028 511.601
	CBD CBC CBN CBG CBG. NOL D8-T	CBDV 0.366% CBC N/D CBN N/D CBG 1.291% CBGA N/D N/D THCV N/D N/D

Cannabinoid Weight(%)



Reporting Limit 10 ppm

*Total CBD = CBD + CBDA x 0.877 N/D - Not Detected, B/LOQ - Below Limit of Quantification

Notes

255.8mg cannabinoids per 500mg cartridge



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Dylan Swart, Lab Director

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Order #: 32774 Order Name: Koi Spectrum Cartridge 250 mg Batch#: O024_190411 Received: 07/02/2019 Completed: 07/08/2019



GSL SOP 404

Prepared: 07/02/2019 21:13:43 Uploaded: 07/03/2019 18:51:23

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TERPENES: TOTAL (0.185%)

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

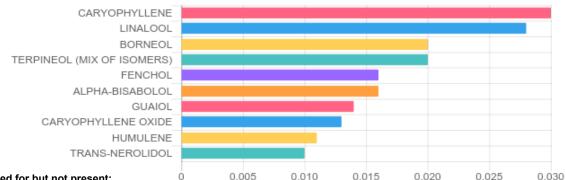
Terpene	Results (%)	LOQ (%) LOD (%)
ALPHA-BISABOLOL	0.016%	0.0067% 0.0063%
BORNEOL	0.020%	0.0067% 0.0063%
CARYOPHYLLENE	0.030%	0.0067% 0.0063%
CARYOPHYLLENE OXIDE	0.013%	0.0067% 0.0063%
EUCALYPTOL	B/LOQ	0.0067% 0.0063%
FENCHOL	0.016%	0.0067% 0.0063%
FENCHONE	B/LOQ	0.0067% 0.0063%
GUAIOL	0.014%	0.0067% 0.0063%
HUMULENE	0.011%	0.0067% 0.0063%

Terpene	Results (%)	LOQ (%)	LOD (%)
LINALOOL	0.028%	0.0067%	0.0063%
TERPINEOL (MIX OF ISOMERS)	0.020%	0.0067%	0.0063%
TRANS-NEROLIDOL	0.010%	0.0067%	0.0063%

Terpenes Breakdown



Top Terpenes Results:



Tested for but not present:

ALPHA-PINENE, CAMPHENE, SABINENE, BETA-MYRCENE, BETA-PINENE, ALPHA-PHELLANDRENE, 3-CARENE, ALPHA-TERPINENE, TRANS-BETA-OCIMENE, LIMONENE, CIS-BETA-OCIMENE, GAMMA.-TERPINENE, TERPINOLENE, SABINENE HYDRATE, ISOPULEGOL, CAMPHOR, ISOBORNEOL, MENTHOL, GAMMA-TERPINEOL, NEROL, GERANIOL, PULEGONE, GERANYL ACETATE, ALPHA-CEDRENE, VALENCENE, CIS-NEROLIDOL, CEDROL



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PESTICIDE ANALYSIS:

GSL SOP 401

PREPARED: 07/02/2019 17:53:03

UPLOADED: 07/03/2019 18:55:23

GCMS-MS - Shimadzu GCMS-TQ8040

Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
CAPTAN	0.700	N/D	0.003	0.001
CHLORDANE	0.100	N/D	0.003	0.001
CHLORFENAPYR	0.100	N/D	0.003	0.001
COUMAPHOS	0.100	N/D	0.003	0.001

Pesticide	Action Leve	l Results	LOQ	LOD
Festicide	(ppm)	(ppm)	(ppm)	(ppm)
CYFLUTHRIN	2.000	N/D	0.003	0.001
CYPERMETHRIN	1.000	N/D	0.003	0.001
PARATHION-METHYL	0.100	N/D	0.003	0.001
PENTACHLORONITROBENZENE	E 0.100	N/D	0.003	0.001

LCMS-MS - Shimadzu LCMS-8060

Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
ABAMECTIN B1A	0.100	N/D	0.003	0.001
ACEPHATE	0.100	N/D	0.003	0.001
ACEQUINOCYL	0.100	N/D	0.003	0.001
ACETAMIPRID	0.100	N/D	0.003	0.001
ALDICARB	0.100	N/D	0.003	0.001
AZOXYSTROBIN	0.100	N/D	0.003	0.001
BIFENAZATE	0.100	N/D	0.003	0.001
BIFENTHRIN	3.000	N/D	0.003	0.001
BOSCALID	0.100	N/D	0.003	0.001
CARBARYL	0.500	N/D	0.003	0.001
CARBOFURAN	0.100	N/D	0.003	0.001
CHLORANTRANILIPROLE	10.000	N/D	0.003	0.001
CHLORPYRIFOS	0.100	N/D	0.003	0.001
CLOFENTEZINE	0.100	N/D	0.003	0.001
DAMINOZIDE	0.100	N/D	0.003	0.001
DIAZANON	0.100	N/D	0.003	0.001
DICHLORVOS	0.100	N/D	0.003	0.001
DIMETHOATE	0.100	N/D	0.003	0.001
DIMETHOMORPH	2.000	N/D	0.003	0.001
ETHOPROPHOS	0.100	N/D	0.003	0.001
ETOFENPROX	0.100	N/D	0.003	0.001
ETOXAZOLE	0.100	N/D	0.003	0.001
FENHEXAMID	0.100	N/D	0.003	0.001
FENOXYCARB	0.100	N/D	0.003	0.001
FENPYROXIMATE	0.100	N/D	0.003	0.001
FIPRONIL	0.100	N/D	0.003	0.001
FLONICAMID	0.100	N/D	0.003	0.001
FLUDIOXONIL	0.100	N/D	0.003	0.001
HEXYTHIAZOX	0.100	N/D	0.003	0.001

Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
IMAZALIL	0.100	N/D	0.003	0.001
IMIDACLOPRID	5.000	N/D	0.003	0.001
KRESOXIM-METHYL	0.100	N/D	0.003	0.001
MALATHION	0.500	N/D	0.003	0.001
METALAXYL	2.000	N/D	0.003	0.001
METHIOCARB	0.100	N/D	0.003	0.001
METHOMYL	1.000	N/D	0.003	0.001
MEVINPHOS	0.100	N/D	0.003	0.001
MYCLOBUTANIL	0.100	N/D	0.003	0.001
NALED	0.100	N/D	0.003	0.001
OXAMYL	0.500	N/D	0.003	0.001
PACLOBUTRAZOL	0.100	N/D	0.003	0.001
PERMETHRINS	0.500	N/D	0.003	0.001
PHOSMET	0.100	N/D	0.003	0.001
PIPERONYL BUTOXIDE	3.000	N/D	0.003	0.001
PRALLETHRIN	0.100	N/D	0.003	0.001
PROPICONAZOLE	0.100	N/D	0.003	0.001
PROPOXUR	0.100	N/D	0.003	0.001
PYRETHRINS (PYRETHRIN I)	0.500	N/D	0.003	0.001
PYRIDABEN	0.100	N/D	0.003	0.001
SPINETORAM	0.100	N/D	0.003	0.001
SPINOSAD	0.100	N/D	0.003	0.001
SPIROMESIFEN	0.100	N/D	0.003	0.001
SPIROTETRAMAT	0.100	N/D	0.003	0.001
SPIROXAMINE	0.100	N/D	0.003	0.001
TEBUCONAZOLE	0.100	N/D	0.003	0.001
THIACLOPRID	0.100	N/D	0.003	0.001
THIAMETHOXAM	5.000	N/D	0.003	0.001
TRIFLOXYSTROBIN	0.100	N/D	0.003	0.001

N/D = Not Detected, A/LOQ = Above LOQ Level, B/LOQ = Below LOQ Level, B/LOD = Below LOD Level



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RESIDUAL SOLVENTS:

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

GSL SOP 405 Prepared: 07/02/2019 21:15:40 Uploaded: 07/03/2019 17:26:05

Residual Solvent	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
ACETONE	5,000	N/D	140	20
ACETONITRILE	410	N/D	25	1
BENZENE	1	N/D	1	0.5
UTANE	5,000	N/D	50	10
HLOROFORM	1	N/D	1	0.5
ICHLOROETHANE	1	N/D	1	0.5
DICHLOROMETHANE	1	N/D	1	0.5
THANOL	5,000	N/D	140	20
THYL ACETATE	5,000	N/D	140	20
THYL ETHER	5,000	N/D	140	20
SOPROPYL ALCOHOL	5,000	N/D	140	20
IETHANOL	3,000	N/D	100	20
I-HEPTANE	5,000	N/D	140	20
I-HEXANE	290	N/D	18	10
ENTANE	5,000	N/D	140	20
PROPANE	5,000	N/D	20	1
OLUENE	890	N/D	53	1
RICHLOROETHENE	0	N/D	0	0
YLENES	2,170	N/D	130	20



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Action Level (ppb)

200

200

100

500



Result (ppb)

B/LOQ

B/LOQ

B/LOQ

B/LOQ

Mycotoxin Analysis:

LC-MS - Shimadzu LCMS-8060 GSL SOP 401

Uploaded: 07/03/2019 15:20:08

Analyte	Action Lvl (ppb)	Results (ppb)
AFLATOXIN B1	20	N/D
AFLATOXIN B2	20	N/D
AFLATOXIN G1	20	N/D
AFLATOXIN G2	20	N/D
OCHRATOXIN A	20	N/D

LOQ is 4ppb, LOD is 1ppb

Microbial Analysis:

Microbial Analysis GSL SOP 406 Uploaded: 07/05/2019 19:46:48

Lower Limit of Quantitation (LOQ) is 75 ppb

Heavy Metals Analysis:

ICP-MS - Shimadzu ICPMS-2030

Uploaded: 07/03/2019 23:44:05

GSL SOP 403

ARSENIC (AS)

CADMIUM (CD)

MERCURY (HG)

LEAD (PB)

Metal

Test Method Used	Device Used	LOD	Allowable Amount	Actual Result	Pass/Fail
USP 61/62†	ARIAMX PCR	2 COPIES OF DNA	PRESENCE / ABSENT	BELOW LOD	PASS
USP 61/62†	ARIAMX PCR	5 COPIES OF DNA	PRESENCE / ABSENT	BELOW LOD	PASS
USP 61/62†	ARIAMX PCR	ASP_LOD***	PRESENCE / ABSENT	BELOW LOD	PASS
USP 61/62†	ARIAMX PCR	363.05518 CFU/G**	1,000	BELOW THRESHOLD	PASS
USP 61/62†	ARIAMX PCR	0.25316 CFU/G**	10,000	BELOW THRESHOLD	PASS
USP 61/62†	ARIAMX PCR	3.41539 CFU/G**	100	BELOW THRESHOLD	PASS
USP 61/62†	ARIAMX PCR	0.32951 CFU/G**	100	BELOW THRESHOLD	PASS
	USP 61/62† USP 61/62† USP 61/62† USP 61/62† USP 61/62† USP 61/62†	UsedDevice UsedUSP 61/62†ARIAMX PCRUSP 61/62†ARIAMX PCRUSP 61/62†ARIAMX PCRUSP 61/62†ARIAMX PCRUSP 61/62†ARIAMX PCRUSP 61/62†ARIAMX PCRUSP 61/62†ARIAMX PCR	UsedDevice UsedLODUSP 61/62†ARIAMX PCR2 COPIES OF DNAUSP 61/62†ARIAMX PCR5 COPIES OF DNAUSP 61/62†ARIAMX PCRASP_LOD***USP 61/62†ARIAMX PCR363.05518 CFU/G**USP 61/62†ARIAMX PCR0.25316 CFU/G**USP 61/62†ARIAMX PCR0.25316 CFU/G**USP 61/62†ARIAMX PCR3.41539 CFU/G**	UsedDevice UsedLODAllowable AmountUSP 61/62†ARIAMX PCR2 COPIES OF DNAPRESENCE / ABSENTUSP 61/62†ARIAMX PCR5 COPIES OF DNAPRESENCE / ABSENTUSP 61/62†ARIAMX PCRASP_LOD***PRESENCE / ABSENTUSP 61/62†ARIAMX PCR363.05518 CFU/G**1,000USP 61/62†ARIAMX PCR0.25316 CFU/G**10,000USP 61/62†ARIAMX PCR3.41539 CFU/G**100	UsedDevice UsedLODAllowable AmountResultUSP 61/62†ARIAMX PCR2 COPIES OF DNAPRESENCE / ABSENTBELOW LODUSP 61/62†ARIAMX PCR5 COPIES OF DNAPRESENCE / ABSENTBELOW LODUSP 61/62†ARIAMX PCRASP_LOD***PRESENCE / ABSENTBELOW LODUSP 61/62†ARIAMX PCR363.05518 CFU/G**1,000BELOW THRESHOLDUSP 61/62†ARIAMX PCR0.25316 CFU/G**10,000BELOW THRESHOLDUSP 61/62†ARIAMX PCR3.41539 CFU/G**100BELOW THRESHOLDUSP 61/62†ARIAMX PCR0.32951 CFU/G**100BELOW THRESHOLD

† USP 61 (enumeration of bacteria TAC, TYM, and ENT/Coliform), USP 62 (identifying specific species E.coli Aspergillus etc)

* STEC and Salmonella run as Multiplex ** CFU/g Calculation based on Select Category Type Gummy MIP/Extract Flower matrix

*** Flavus = 2 Copies of DNA / Fumigatis = 2 Copies of DNA Niger = 20 Copies of DNA / Terrus = 10 copies of DNA

Water Activity:

HD-3A Water Activity Meter - GSL SOP 407

Uploaded: 07/02/2019 22:44:23

Water

0.77

Filth and Foreign Materials Analysis:

Microscope - Amscope Simul-Focal Trinocular Stereo Zoom Microscope - GSL SOP 409

Uploaded: 07/02/2019 23:43:05

No foreign materials detected.



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