



Certificate of Analysis

QA SAMPLE - INFORMATIONAL ONLY

1 of 3

ICAL ID: 20220214-050
Sample: CA220214-016-039
Koi CBD - THC-O w/ DELTA 8 | Cherry Pie (Hybrid)
Strain: Koi CBD - THC-O w/ DELTA 8 | Cherry Pie (Hybrid)
Category: Concentrates & Extracts

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

Batch#: 2243BB1223
Batch Size Collected:
Total Batch Size:
Collected: 02/17/2022; Received: 02/17/2022
Completed: 02/17/2022

Moisture NT Water Activity NT	Total THC 0.32%	Total CBD ND	Total Cannabinoids 8.86%	Total Terpenes 35.800 mg/g
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Summary	SOP Used	Date Tested	
Batch			Pass
Cannabinoids	POT-PREP-001	02/16/2022	Complete
Terpenes	TERP-PREP-001	02/16/2022	Complete
Residual Solvents	RS-PREP-001	02/16/2022	Pass
Microbials	MICRO-PREP-001	02/17/2022	Pass
Mycotoxins	PESTMYCO-LC-PREP-001	02/16/2022	Pass
Heavy Metals	HM-PREP-001	02/16/2022	Pass
Foreign Matter	FM-PREP-001	02/16/2022	Pass
Pesticides	PESTMYCO-LC-PREP-001 / PEST-GC-PREP-001	02/16/2022	Pass



Scan to see results

Cannabinoid Profile

Analyte	LOQ (mg/g)	LOD (mg/g)	%	mg/g	Analyte	LOQ (mg/g)	LOD (mg/g)	%	mg/g
THCa	0.3680	0.0924	ND	ND	CBDV	0.3680	0.0421	ND	ND
Δ9-THC	0.3680	0.1024	0.32	3.2	CBN	0.3680	0.0780	ND	ND
Δ8-THC	0.3680	0.0506	85.3	85.3	CBGa	0.3965	0.1322	ND	ND
THCV	0.3680	0.0423	ND	ND	CBG	0.3920	0.1307	ND	ND
CBDa	0.3680	0.0951	ND	ND	CBC	0.4549	0.1516	ND	ND
CBD	0.3680	0.0815	ND	ND	Total THC			0.32	3.22
					Total CBD			ND	ND
					Total			8.86	88.55

Total THC=THCa * 0.877 + Δ9-THC; Total CBD = CBDa * 0.877 + CBD. LOD= Limit of Detection, LOQ= Limit of Quantitation, ND= Not Detected, NR= Not Reported. Potency is reported on a dry weight basis. Instrumentation and analysis SOPs used: Cannabinoids:UHPLC-DAD(POT-INST-005),Moisture:Moisture Analyzer(MOISTURE-001),Water Activity:Water Activity Meter(WA-INST-002), Foreign Material:Microscope(FOREIGN-001). Density measured at 19-24 °C, Water Activity measured at 0-90% RH. All QA submitted by the client, All CA State Compliance sampled using SAMPL-SOP-001.

Terpene Profile

Analyte	LOQ (mg/g)	LOD (mg/g)	%	mg/g	Analyte	LOQ (mg/g)	LOD (mg/g)	%	mg/g
β-Myrcene	0.025	0.010	0.8270	8.270	Terpinolene	0.025	0.010	0.0220	0.220
β-Caryophyllene	0.025	0.010	0.7220	7.220	α-Terpinene	0.025	0.010	0.0200	0.200
δ-Limonene	0.025	0.010	0.4610	4.610	Camphene	0.025	0.010	0.0190	0.190
α-Humulene	0.025	0.010	0.3810	3.810	Eucalyptol	0.025	0.010	0.0140	0.140
α-Pinene	0.025	0.010	0.2820	2.820	p-Cymene	0.025	0.010	0.0050	0.050
Linalool	0.025	0.010	0.2500	2.500	cis-Nerolidol	0.025	0.010	ND	ND
β-Pinene	0.025	0.010	0.1720	1.720	δ-3-Carene	0.025	0.010	ND	ND
α-Bisabolol	0.025	0.010	0.1340	1.340	γ-Terpinene	0.025	0.010	ND	ND
Caryophyllene Oxide	0.025	0.010	0.1170	1.170	(-)-Guaiaol	0.025	0.010	ND	ND
cis-Ocimene	0.025	0.010	0.0780	0.780	(-)-Isopulegol	0.025	0.010	ND	ND
trans-Nerolidol	0.025	0.010	0.0500	0.500	trans-Ocimene	0.025	0.010	ND	ND
Geraniol	0.025	0.010	0.0260	0.260	Total			3.5800	35.800

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less then the Limit of Detection (LOD)). Analytical instrumentation used: HS-GC-MS; samples analyzed according to SOP TERP-INST-003.



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Josh M Swider

Josh Swider
Lab Director, Managing Partner
02/17/2022

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This product has been tested by Infinite Chemical Analysis, LLC using valid testing methodologies and a quality system as required by state law. All LQC samples were performed and met the prescribed acceptance criteria in 16 CCR section 15730, pursuant to 16 CCR section 15726(e)(13). Values reported relate only to the product tested. Infinite Chemical Analysis, LLC makes no claims as to the efficacy, safety or other risks associated with any detected or non-detected levels of any compounds reported herein. This Certificate shall not be reproduced except in full, without the written approval of Infinite Chemical Analysis, LLC.



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Residual Solvent Analysis

Category 1	LOQ	LOD	Limit	Status	Category 2	LOQ	LOD	Limit	Status	Category 2	LOQ	LOD	Limit	Status			
	µg/g	µg/g	µg/g			µg/g	µg/g	µg/g			µg/g	µg/g	µg/g				
1,2-Dichloro-Ethane	ND	1	0.5	1	Pass	Acetone	ND	300	200	5000	Pass	n-Hexane	ND	35	20	290	Pass
Benzene	ND	1	0.5	1	Pass	Acetonitrile	ND	150	100	410	Pass	Isopropanol	ND	300	200	5000	Pass
Chloroform	ND	1	0.5	1	Pass	Butane	ND	300	200	5000	Pass	Methanol	ND	300	200	3000	Pass
Ethylene Oxide	ND	1	0.5	1	Pass	Ethanol	ND	300	200	5000	Pass	Pentane	ND	300	200	5000	Pass
Methylene-Chloride	ND	1	0.5	1	Pass	Ethyl-Acetate	ND	300	200	5000	Pass	Propane	ND	300	200	5000	Pass
Trichloroethene	ND	1	0.5	1	Pass	Ethyl-Ether	ND	300	200	5000	Pass	Toluene	ND	150	100	890	Pass
						Heptane	ND	300	200	5000	Pass	Xylenes	ND	150	100	2170	Pass

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less then the Limit of Detection (LOD)). Analytical instrumentation used: HS-GC-MS; samples analyzed according to SOP RS-INST-003.

Heavy Metal Screening

		LOQ	LOD	Limit	Status
	µg/g	µg/g	µg/g	µg/g	
Arsenic	ND	0.009	0.003	0.2	Pass
Cadmium	ND	0.002	0.001	0.2	Pass
Lead	0.012	0.004	0.001	0.5	Pass
Mercury	ND	0.014	0.005	0.1	Pass

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less then the Limit of Detection (LOD)). Analytical instrumentation used: ICP-MS; samples analyzed according to SOP HM-INST-003.

Microbiological Screening

	Limit	Result	Status
	CFU/g	CFU/g	
Aspergillus flavus		Not Detected	Pass
Aspergillus fumigatus		Not Detected	Pass
Aspergillus niger		Not Detected	Pass
Aspergillus terreus		Not Detected	Pass
STEC		Not Detected	Pass
Salmonella SPP		Not Detected	Pass

ND=Not Detected. Analytical instrumentation used:qPCR; samples analyzed according to SOP MICRO-INST-001.



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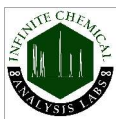
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Lab Director, Managing Partner
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Chemical Residue Screening

Category 1		LOQ	LOD	Status	Mycotoxins		LOQ	LOD	Limit	Status
	µg/g	µg/g	µg/g			µg/kg	µg/kg	µg/kg	µg/kg	
Aldicarb	ND	0.030	0.008	Pass	B1	ND	8.98	2.96		Tested
Carbofuran	ND	0.030	0.005	Pass	B2	ND	10.17	3.36		Tested
Chlordane	ND	0.075	0.025	Pass	G1	ND	5.25	1.73		Tested
Chlorfenapyr	ND	0.075	0.025	Pass	G2	ND	6.26	2.07		Tested
Chlorpyrifos	ND	0.046	0.015	Pass	Ochratoxin A	ND	13.37	4.41	20	Pass
Coumaphos	ND	0.030	0.004	Pass	Total Aflatoxins	ND			20	Pass
Daminozide	ND	0.053	0.018	Pass						
Dichlorvos	ND	0.055	0.018	Pass						
Dimethoate	ND	0.030	0.006	Pass						
Ethoprophos	ND	0.030	0.006	Pass						
Etofenprox	ND	0.030	0.004	Pass						
Fenoxycarb	ND	0.030	0.004	Pass						
Fipronil	ND	0.050	0.017	Pass						
Imazalil	ND	0.030	0.009	Pass						
Methiocarb	ND	0.030	0.002	Pass						
Mevinphos	ND	0.030	0.008	Pass						
Paclobutrazol	ND	0.030	0.009	Pass						
Parathion Methyl	ND	0.024	0.008	Pass						
Propoxur	ND	0.030	0.008	Pass						
Spiroxamine	ND	0.030	0.006	Pass						
Thiacloprid	ND	0.030	0.005	Pass						

Category 2	LOQ		LOD	Limit	Status	Category 2	LOQ		LOD	Limit	Status
	µg/g	µg/g	µg/g	µg/g			µg/g	µg/g	µg/g	µg/g	
Abamectin	ND	0.099	0.033	0.1	Pass	Kresoxim Methyl	ND	0.030	0.007	0.1	Pass
Acephate	ND	0.030	0.007	0.1	Pass	Malathion	ND	0.030	0.003	0.5	Pass
Acequinocyl	ND	0.046	0.015	0.1	Pass	Metalaxyl	ND	0.030	0.005	2	Pass
Acetamiprid	ND	0.030	0.005	0.1	Pass	Methomyl	ND	0.030	0.009	1	Pass
Azoxystrobin	ND	0.030	0.005	0.1	Pass	Myclobutanil	ND	0.030	0.007	0.1	Pass
Bifenazate	ND	0.030	0.007	0.1	Pass	Naled	ND	0.030	0.008	0.1	Pass
Bifenthrin	ND	0.030	0.004	3	Pass	Oxamyl	ND	0.030	0.007	0.5	Pass
Boscalid	ND	0.030	0.008	0.1	Pass	Pentachloronitrobenzene	ND	0.054	0.018	0.1	Pass
Captan	ND	0.358	0.120	0.7	Pass	Permethrin	ND	0.030	0.002	0.5	Pass
Carbaryl	ND	0.030	0.006	0.5	Pass	Phosmet	ND	0.030	0.005	0.1	Pass
Chlorantraniliprole	ND	0.030	0.009	10	Pass	Piperonyl Butoxide	ND	0.030	0.003	3	Pass
Clofentezine	ND	0.030	0.002	0.1	Pass	Prallethrin	ND	0.071	0.023	0.1	Pass
Cyfluthrin	ND	0.056	0.019	2	Pass	Propiconazole	ND	0.030	0.009	0.1	Pass
Cypermethrin	ND	0.181	0.060	1	Pass	Pyrethrins	ND	0.030	0.003	0.5	Pass
Diazinon	ND	0.030	0.005	0.1	Pass	Pyridaben	ND	0.030	0.002	0.1	Pass
Dimethomorph	ND	0.030	0.005	2	Pass	Spinetoram	ND	0.030	0.001	0.1	Pass
Etoxazole	ND	0.030	0.004	0.1	Pass	Spinosad	ND	0.030	0.001	0.1	Pass
Fenhexamid	ND	0.034	0.011	0.1	Pass	Spiromesifen	ND	0.030	0.009	0.1	Pass
Fenpyroximate	ND	0.030	0.004	0.1	Pass	Spirotetramat	ND	0.030	0.008	0.1	Pass
Flonicamid	ND	0.035	0.012	0.1	Pass	Tebuconazole	ND	0.030	0.006	0.1	Pass
Fludioxonil	ND	0.036	0.012	0.1	Pass	Thiamethoxam	ND	0.030	0.008	5	Pass
Hexythiazox	ND	0.030	0.001	0.1	Pass	Trifloxystrobin	ND	0.030	0.003	0.1	Pass
Imidacloprid	ND	0.033	0.011	5	Pass						

Other Analyte(s): THC-O-Acetate: 11.39 %

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less than the Limit of Detection (LOD)). Analytical instrumentation used: LC-MS-MS & GC-MS-MS; samples analyzed according to SOPs PESTMYCO-LC-INST-004 and PEST-GC-INST-003.



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Josh M Swider

Josh Swider
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2/18/2022

Dear Koi CBD,

Based on data obtained from UHPLC-PDA and GC-MS for Koi CBD - HHC w/ THC-O + DELTA 8 | Cherry Pie (Hybrid), the largest signal displayed in Figure 1 (directly to the left of the signal labeled "THC-O-ACETATE") appears to be consistent with another isomer of THC-O-Acetate, which we presume to be Delta-8-THC-O-Acetate. Since there are no reference standards for Delta-8-THC-O-Acetate currently available, neither a definitive assignment nor a precise quantitation can be performed. When Koi CBD - HHC w/ THC-O + DELTA 8 | Cherry Pie (Hybrid) was analyzed by GC-MS, the mass spectrum of the largest signal presents a molecular ion of 356.2 m/z, the expected mass of Delta-8-THC-O-Acetate. When this mass spectrum was cross-referenced to the NIST mass spectral database, the signal provides excellent agreement with the reference spectrum for Delta-8-THC-O-Acetate. Furthermore, the UV profiles of the signals correspond with a cannabinoid of this type, yet have a unique retention time compared to other known cannabinoids.

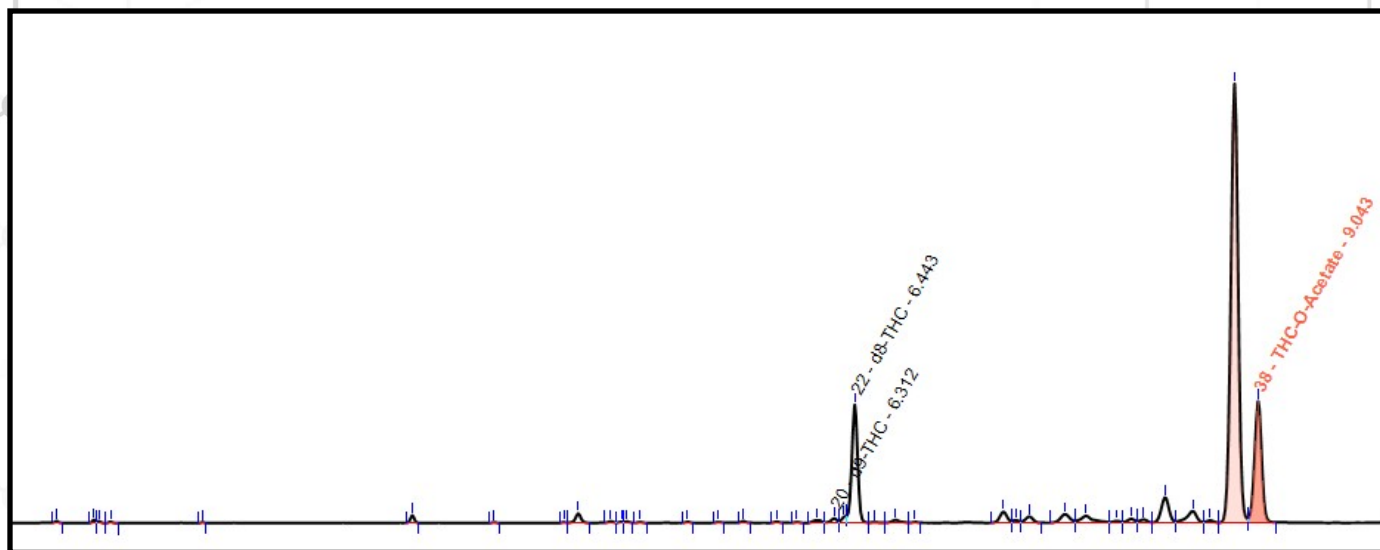


Figure 1. UHPLC-PDA chromatogram of Koi CBD - HHC w/ THC-O + DELTA 8 | Cherry Pie (Hybrid)

The data allows us to provide a preliminary assignment of the large signal as Delta-8-THC-O-Acetate. The estimated concentration of this signal equates to ~42%. The estimated combined concentration of Delta-8- and Delta-9-THC-O-Acetate is ~53%.

As reference standards become available, a more unequivocal assignment and precise quantitation will be possible. As it stands, the data are all consistent with Delta-8-THC-O-Acetate.

Sincerely,

Erik Paulson

Erik Paulson, Ph.D.
Lab Manager