



Certificate of Analysis

QA SAMPLE - INFORMATIONAL ONLY

1 of 3

ICAL ID: 20220119-014
Sample: CA220119-007-026
Koi CBD HHC Gummies | Strawberry
Strain: Koi CBD HHC Gummies | Strawberry
Category: Ingestible

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

Batch#: 21KC12DHS
Batch Size Collected:
Total Batch Size:
Collected: 01/21/2022; Received: 01/21/2022
Completed: 01/21/2022

Moisture NT Water Activity 0.540 aw	Δ 9-THC ND 0.00 mg/serving	CBD ND 0.00 mg/serving	Total Cannabinoids 1.53 mg/unit 0.07 mg/serving	Total Terpenes NT
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Summary	SOP Used	Date Tested	
Batch			Pass
Cannabinoids	POT-PREP-002	01/19/2022	Complete
Water Activity	WA-PREP-001	01/19/2022	Pass - 0.540 aw
Residual Solvents	RS-PREP-001	01/20/2022	Pass
Microbials	MICRO-PREP-001	01/21/2022	Pass
Mycotoxins	PESTMYCO-LC-PREP-001	01/19/2022	Pass
Heavy Metals	HM-PREP-001	01/19/2022	Pass
Foreign Matter	FM-PREP-001	01/19/2022	Pass
Pesticides	PESTMYCO-LC-PREP-001 / PEST-GC-PREP-001	01/19/2022	Pass



Scan to see results

Cannabinoid Profile

1 Unit = package, 76.73 g. 21 serving(s) per package.

Analyte	LOQ (mg/g)	LOD (mg/g)	%	mg/g	mg/unit	Analyte	LOQ (mg/g)	LOD (mg/g)	%	mg/g	mg/unit
THCa	0.0128	0.0043	ND	ND	ND	CBDV	0.0046	0.0004	ND	ND	ND
Δ 9-THC	0.0046	0.0010	ND	ND	ND	CBN	0.0046	0.0005	0.002	0.02	1.53
Δ 8-THC	0.0046	0.0014	ND	ND	ND	CBGa	0.0046	0.0015	ND	ND	ND
THCV	0.0046	0.0006	ND	ND	ND	CBG	0.0046	0.0005	ND	ND	ND
CBDa	0.0049	0.0016	ND	ND	ND	CBC	0.0076	0.0025	ND	ND	ND
CBD	0.0046	0.0008	ND	ND	ND	Total THC			ND	ND	ND
						Total CBD			ND	ND	ND
						Total			0.00	0.02	1.53

Total THC=THCa * 0.877 + Δ 9-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
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NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less than 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
01/21/2022

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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	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 than the Limit of Detection (LOD)). Analytical instrumentation used: HS-GC-MS; samples analyzed according to SOP RS-INST-003.

Heavy Metal Screening

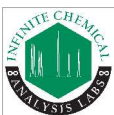
	LOQ	LOD	Limit	Status	
µg/g	µg/g	µg/g	µg/g		
Arsenic	ND	0.009	0.003	1.5	Pass
Cadmium	ND	0.002	0.001	0.5	Pass
Lead	ND	0.004	0.001	0.5	Pass
Mercury	ND	0.014	0.005	3	Pass

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less than 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		NR	NT
Aspergillus fumigatus		NR	NT
Aspergillus niger		NR	NT
Aspergillus terreus		NR	NT
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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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			
Aldicarb	ND	0.065	0.022	Pass	B1	ND	7.88	2.6	Tested	
Carbofuran	ND	0.030	0.009	Pass	B2	ND	6.18	2.04	Tested	
Chlordane	ND	0.075	0.025	Pass	G1	ND	8.99	2.97	Tested	
Chlorfenapyr	ND	0.075	0.025	Pass	G2	ND	5.72	1.89	Tested	
Chlorpyrifos	ND	0.053	0.018	Pass	Ochratoxin A	ND	11.72	3.87	20	Pass
Coumaphos	ND	0.056	0.018	Pass	Total Aflatoxins	ND		20	Pass	
Daminozide	ND	0.079	0.026	Pass						
Dichlorvos	ND	0.067	0.022	Pass						
Dimethoate	ND	0.036	0.012	Pass						
Ethoprophos	ND	0.053	0.017	Pass						
Etofenprox	ND	0.030	0.008	Pass						
Fenoxycarb	ND	0.043	0.014	Pass						
Fipronil	ND	0.045	0.015	Pass						
Imazalil	ND	0.047	0.016	Pass						
Methiocarb	ND	0.047	0.016	Pass						
Mevinphos	ND	0.042	0.014	Pass						
Paclobutrazol	ND	0.040	0.013	Pass						
Parathion Methyl	ND	0.024	0.008	Pass						
Propoxur	ND	0.047	0.016	Pass						
Spiroxamine	ND	0.032	0.011	Pass						
Thiacloprid	ND	0.042	0.014	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	0.030	0.010	0.3	Pass	Kresoxim Methyl	ND	0.038	0.012	1	Pass
Acephate	ND	0.050	0.016	5	Pass	Malathion	ND	0.035	0.012	5	Pass
Acequinocyl	ND	0.059	0.019	4	Pass	Metalaxyl	ND	0.031	0.010	15	Pass
Acetamiprid	ND	0.044	0.015	5	Pass	Methomyl	ND	0.048	0.016	0.1	Pass
Azoxystrobin	ND	0.029	0.010	40	Pass	Myclobutanil	ND	0.055	0.018	9	Pass
Bifenazate	ND	0.035	0.012	5	Pass	Naled	ND	0.051	0.017	0.5	Pass
Bifenthrin	ND	0.040	0.013	0.5	Pass	Oxamyl	ND	0.046	0.015	0.3	Pass
Boscalid	ND	0.060	0.020	10	Pass	Pentachloronitrobenzene	ND	0.054	0.018	0.2	Pass
Captan	ND	0.358	0.120	5	Pass	Permethrin	ND	0.030	0.008	20	Pass
Carbaryl	ND	0.049	0.016	0.5	Pass	Phosmet	ND	0.038	0.012	0.2	Pass
Chlorantraniliprole	ND	0.063	0.021	40	Pass	Piperonyl Butoxide	ND	0.030	0.008	8	Pass
Clofentezine	ND	0.039	0.013	0.5	Pass	Prallethrin	ND	0.068	0.023	0.4	Pass
Cyfluthrin	ND	0.056	0.019	1	Pass	Propiconazole	ND	0.059	0.019	20	Pass
Cypermethrin	ND	0.044	0.015	1	Pass	Pyrethrins	ND	0.030	0.004	1	Pass
Diazinon	ND	0.030	0.006	0.2	Pass	Pyridaben	ND	0.035	0.012	3	Pass
Dimethomorph	ND	0.042	0.014	20	Pass	Spinetoram	ND	0.030	0.006	3	Pass
Etoxazole	ND	0.030	0.008	1.5	Pass	Spinosad	ND	0.030	0.004	3	Pass
Fenhexamid	ND	0.039	0.013	10	Pass	Spiromesifen	ND	0.042	0.014	12	Pass
Fenpyroximate	ND	0.030	0.010	2	Pass	Spirotetramat	ND	0.041	0.013	13	Pass
Flonicamid	ND	0.081	0.027	2	Pass	Tebuconazole	ND	0.044	0.014	2	Pass
Fludioxonil	ND	0.046	0.015	30	Pass	Thiamethoxam	ND	0.055	0.018	4.5	Pass
Hexythiazox	ND	0.078	0.026	2	Pass	Trifloxystrobin	ND	0.031	0.010	30	Pass
Imidacloprid	ND	0.071	0.023	3	Pass						

Other Analyte(s):

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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1/20/2022

Dear Koi CBD,

Based on data obtained from UHPLC-PDA and previous studies on GC-MS, peaks 1, 2 and 3 from Koi CBD HHC Gummies | Strawberry appear to be consistent with a mixture of diastereomers of hexahydrocannabinol (HHC). Since there are no reference standards for hexahydrocannabinol currently available, neither a definitive assignment nor a precise quantitation can be performed. However, the three signals labeled peaks 1, 2 and 3 for Koi CBD HHC Gummies | Strawberry (Figure 1) had identical retention times and UV profiles on the UHPLC-PDA method to signals assigned to HHC from previous samples. The previous samples, when analyzed by GC-MS, presented four distinct signals (two major, two minor) with a molecular ion of 316.3 m/z, the expected mass of HHC. 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.

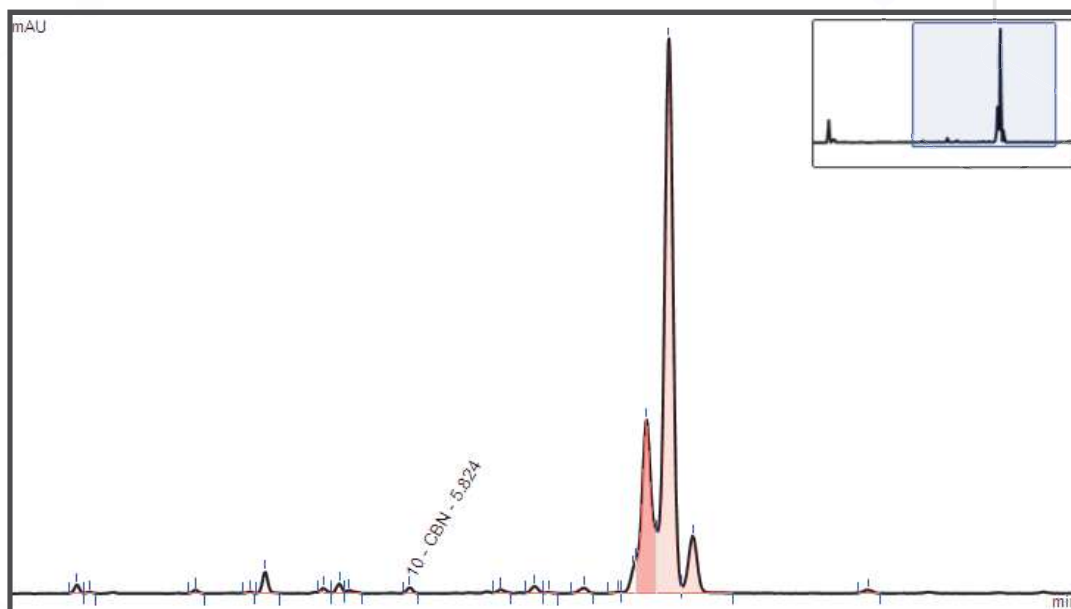


Figure 1. UHPLC-PDA chromatogram of Koi CBD HHC Gummies | Strawberry

The data allows us to provide a preliminary assignment of the three signals as isomers of hexahydrocannabinol. The estimated combined concentration of all isomers is ~11mg/gummy, with individual peaks 1, 2, and 3 around ~3mg/gummy, ~7mg/gummy, and ~1mg/gummy.

As reference standards become available, a more unequivocal assignment and precise quantitation will be possible. As it stands, the data are all consistent with hexahydrocannabinol.

Sincerely,

Erik Paulson

Erik Paulson Ph.D.
Lab Manager