Certificate of Analysis

QA SAMPLE - INFORMATIONAL ONLY

ICAL ID: 20210212-050
Sample: CA210212-033-095

Batch#: Batch 17, 50 liters
Primary Size:
Batch Size:
Collected: 02/17/2021; Received: 02/17/2021
Completed: 02/17/2021

Moisture	Δ9-THC	CBD	Total Cannabinoids	Total Terpenes
NT	**4.06 mg/unit**	**65.19 mg/unit**	**206.57 mg/unit**	**1.080 mg/g**
Water Activity				
NT				

Summary	SOP Used	Date Tested	
Batch			Pass
Cannabinoids	SOP:POT-T005-Tinc	02/16/2021	Complete
Terpenes	SOP:TERP.MS.Edible1	02/15/2021	Complete
Residual Solvents	SOP:NON-Inhalable	02/16/2021	Pass
Pesticides	PEST.002 Edible	02/17/2021	Pass
Heavy Metals	SOP:HM-001	02/15/2021	Pass

Cannabinoid Profile

1 Unit = bottle, 4.48 g.

Analyte	LOQ	LOD	%	mg/g	mg/unit
THCa	0.11	0.07	0.036	0.36	1.60
Δ9-THC	0.11	0.07	0.091	0.91	4.06
Δ8-THC	0.11	0.07	ND	ND	ND
THCV	0.11	0.07	ND	ND	ND
CBDa	0.11	0.07	2.815	28.15	126.09
CBD	0.11	0.07	1.455	14.55	65.19

Analyte	LOQ	LOD	%	mg/g	mg/unit
CBDV	0.11	0.07	0.007	0.07	0.32
CBN	0.11	0.07	<LOQ	<1	<LOQ
CBGa	0.11	0.07	0.088	0.88	3.94
CBG	0.11	0.07	0.043	0.43	1.94
CBC	0.11	0.07	0.076	0.76	3.42
Total			**4.611**	**46.11**	**206.57**

Total THC=THCa * 0.877 + d9-THC;Total CBD = CBDa * 0.877 + CBD; NR= Not Reported, ND= Not Detected, *Reported by Dry Mass*; *analytical instrumentation used Cannabinoids:UHPLC-DAD, Moisture:Mass by Drying,Water Activity:Water Activity Meter, Foreign Material:Microscope* *Density tested at a temperature range between 19-24 °C, *Water Activity tested at a humidity range between 0-90% Relative Humidity. All QA samples are sampled by the client, All California State Compiant samples sampled using SAMPL-SOP-001

Terpene Profile

Analyte	LOQ	LOD	%	mg/g
β-Caryophyllene	0.025	0.010	0.0230	0.230
α-Bisabolol	0.025	0.010	0.0220	0.220
(-)-Guaiol	0.025	0.010	0.0170	0.170
β-Myrcene	0.025	0.010	0.0160	0.160
α-Humulene	0.025	0.010	0.0090	0.090
α-Pinene	0.025	0.010	0.0080	0.080
Linalool	0.025	0.010	0.0070	0.070
β-Pinene	0.025	0.010	0.0030	0.030
δ-Limonene	0.025	0.010	0.0030	0.030
α-Terpinene	0.025	0.010	ND	ND
Camphene	0.025	0.010	ND	ND
Caryophyllene Oxide	0.025	0.010	ND	ND

Analyte	LOQ	LOD	%	mg/g
cis-Nerolidol	0.025	0.010	ND	ND
cis-Ocimene	0.025	0.010	ND	ND
δ-3-Carene	0.025	0.010	ND	ND
Eucalyptol	0.025	0.010	ND	ND
γ-Terpinene	0.025	0.010	ND	ND
Geraniol	0.025	0.010	ND	ND
(-)-Isopulegol	0.025	0.010	ND	ND
p-Cymene	0.025	0.010	ND	ND
Terpinolene	0.025	0.010	ND	ND
trans-Nerolidol	0.025	0.010	ND	ND
trans-Ocimene	0.025	0.010	ND	ND
Total			**0.1080**	**1.080**

NR= Not Reported thus no analysis was performed, ND= Not Detected thus the concentration is less then the Limit of Detection (LOD), *analytical instrumentation used:HS-GC-MS*

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Josh M Swider

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Lab Director, Managing Partner
02/17/2021

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Residual Solvent Analysis

Category 1		LOQ	LOD	Limit	Status
	µg/g	µg/g	µg/g	µg/g	
1,2-Dichloro-Ethane	ND	1	0.5	1	Pass
Benzene	ND	1	0.5	1	Pass
Chloroform	ND	1	0.5	1	Pass
Ethylene Oxide	ND	1	0.5	1	Pass
Methylene-Chloride	ND	1	0.5	1	Pass
Trichloroethene	ND	1	0.5	1	Pass

Category 2		LOQ	LOD	Limit	Status
	µg/g	µg/g	µg/g	µg/g	
Acetone	ND	300	200	5000	Pass
Acetonitrile	ND	150	100	410	Pass
Butane	ND	300	200	5000	Pass
Ethanol	ND	300	200	5000	Pass
Ethyl-Acetate	ND	300	200	5000	Pass
Ethyl-Ether	ND	300	200	5000	Pass
Heptane	ND	300	200	5000	Pass

Category 2		LOQ	LOD	Limit	Status
	µg/g	µg/g	µg/g	µg/g	
n-Hexane	ND	35	20	290	Pass
Isopropanol	ND	300	200	5000	Pass
Methanol	ND	300	200	3000	Pass
Pentane	ND	300	200	5000	Pass
Propane	ND	300	200	5000	Pass
Toluene	ND	150	100	890	Pass
Xylenes	ND	150	100	2170	Pass

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Heavy Metal Screening

		LOQ	LOD	Limit	Status
	µg/g	µg/g	µg/g	µg/g	
Arsenic	ND	0.048	0.016	1.5	Pass
Cadmium	ND	0.012	0.004	0.5	Pass
Lead	ND	0.011	0.004	0.5	Pass
Mercury	ND	0.033	0.011	3	Pass

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Microbiological Screening

	Result	Status

ND=Not Detected; *analytical instrumentation used:qPCR*

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Chemical Residue Screening

Category 1		LOQ	LOD	Status
	µg/g	µg/g	µg/g	
Aldicarb	ND	0.05	0.03	Pass
Carbofuran	ND	0.05	0.03	Pass
Chlordane	ND	0.1	0.05	Pass
Chlorfenapyr	ND	0.1	0.05	Pass
Chlorpyrifos	ND	0.05	0.03	Pass
Coumaphos	ND	0.05	0.03	Pass
Daminozide	ND	0.05	0.03	Pass
Dichlorvos	ND	0.05	0.03	Pass
Dimethoate	ND	0.05	0.03	Pass
Ethoprophos	ND	0.05	0.03	Pass
Etofenprox	ND	0.05	0.03	Pass
Fenoxycarb	ND	0.05	0.03	Pass
Fipronil	ND	0.05	0.03	Pass
Imazalil	ND	0.05	0.03	Pass
Methiocarb	ND	0.05	0.03	Pass
Parathion Methyl	ND	0.1	0.05	Pass
Mevinphos	ND	0.05	0.03	Pass
Paclobutrazol	ND	0.05	0.03	Pass
Propoxur	ND	0.05	0.03	Pass
Spiroxamine	ND	0.05	0.03	Pass
Thiacloprid	ND	0.05	0.03	Pass

Mycotoxins	LOQ	LOD	Limit	Status

Category 2		LOQ	LOD	Limit	Status
	µg/g	µg/g	µg/g	µg/g	
Abamectin	ND	0.05	0.03	0.3	Pass
Acephate	ND	0.05	0.03	5	Pass
Acequinocyl	ND	0.05	0.03	4	Pass
Acetamiprid	ND	0.05	0.03	5	Pass
Azoxystrobin	ND	0.05	0.03	40	Pass
Bifenazate	ND	0.05	0.03	5	Pass
Bifenthrin	ND	0.25	0.1	0.5	Pass
Boscalid	ND	0.05	0.03	10	Pass
Captan	ND	0.35	0.2	5	Pass
Carbaryl	ND	0.05	0.03	0.5	Pass
Chlorantraniliprole	ND	0.05	0.03	40	Pass
Clofentezine	ND	0.05	0.03	0.5	Pass
Cyfluthrin	ND	0.35	0.25	1	Pass
Cypermethrin	ND	0.35	0.2	1	Pass
Diazinon	ND	0.05	0.03	0.2	Pass
Dimethomorph	ND	0.05	0.03	20	Pass
Etoxazole	ND	0.05	0.03	1.5	Pass
Fenhexamid	ND	0.05	0.03	10	Pass
Fenpyroximate	ND	0.05	0.03	2	Pass
Flonicamid	ND	0.05	0.03	2	Pass
Fludioxonil	ND	0.05	0.03	30	Pass
Hexythiazox	ND	0.05	0.03	2	Pass
Imidacloprid	ND	0.35	0.1	3	Pass

Category 2		LOQ	LOD	Limit	Status
	µg/g	µg/g	µg/g	µg/g	
Kresoxim Methyl	ND	0.05	0.03	1	Pass
Malathion	ND	0.05	0.03	5	Pass
Metalaxyl	ND	0.05	0.03	15	Pass
Methomyl	ND	0.05	0.03	0.1	Pass
Myclobutanil	ND	0.05	0.03	9	Pass
Naled	ND	0.1	0.05	0.5	Pass
Oxamyl	ND	0.2	0.1	0.3	Pass
Pentachloronitrobenzene	ND	0.1	0.05	0.2	Pass
Permethrin	ND	0.25	0.1	20	Pass
Phosmet	ND	0.05	0.03	0.2	Pass
Piperonyl Butoxide	ND	0.25	0.1	8	Pass
Prallethrin	ND	0.05	0.03	0.4	Pass
Propiconazole	ND	0.05	0.03	20	Pass
Pyrethrins	ND	0.25	0.1	1	Pass
Pyridaben	ND	0.05	0.03	3	Pass
Spinetoram	ND	0.05	0.03	3	Pass
Spinosad	ND	0.05	0.03	3	Pass
Spiromesifen	ND	0.05	0.03	12	Pass
Spirotetramat	ND	0.05	0.03	13	Pass
Tebuconazole	ND	0.05	0.03	2	Pass
Thiamethoxam	ND	0.25	0.1	4.5	Pass
Trifloxystrobin	ND	0.05	0.03	30	Pass

Unknown Analyte(s):

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