



# CERTIFICATE OF ANALYSIS

## Beak & Skiff Research

4473 Cherry Valley Turnpike  
Lafayette, NY 13084  
luke@beakandskiff.com  
(315) 506-4981  
Lic. #: DOH-P-000032

Sample: 230616TRI001.002

Sample Description: Ayrloom Hemp (5mgCBD/5mgCBG) Orchard Sunrise Gummy Chew  
Batch#: 061623MV\_GVL;  
Sample Received: 06/20/2023; Report Created: 06/23/2023;  
Sampled By: Client;

G0139 (060124)

Ingestible, Soft Chew



	ND	5.853 mg/unit	11.15 mg/unit
	Total THC	Total CBD	Total Cannabinoids
		5.263 mg/unit	
		Total CBG	

## Cannabinoids

Date Analyzed: 06/21/2023

Complete

Analyte	LOD	LOQ	Result	Result
	mg/unit	mg/unit	mg/unit	%
THCa	0.008193	0.02731	ND	ND
Δ9-THC	0.008193	0.02731	ND	ND
Δ8-THC	0.008193	0.02731	ND	ND
THCVa	0.008193	0.02731	ND	ND
THCV	0.008193	0.02731	ND	ND
CBDa	0.008193	0.02731	ND	ND
CBD	0.008193	0.02731	5.853	0.1304
CBDVa	0.008193	0.02731	<LOQ	<LOQ
CBDV	0.008193	0.02731	<LOQ	<LOQ
CBN	0.008193	0.02731	<LOQ	<LOQ
CBGa	0.008193	0.02731	ND	ND
CBG	0.008193	0.02731	5.263	0.1172
CBCa	0.01591	0.05303	ND	ND
CBC	0.008193	0.02731	0.03020	0.0006728
CBL	0.008193	0.02731	ND	ND
<b>Total</b>			<b>11.15</b>	<b>0.2483</b>

1 Unit = 1 Gummy, 4.4887g

SOP:102, AOAC 2018.11 (Modified); UHPLC-PDA. Total THC = THCa \* 0.877 + Δ9-THC; Total CBD = CBDa \* 0.877 + CBD; Total CBG = CBGa \* 0.878 + CBG. Pass/Fail THC criteria, if listed, is in accordance with 86 FR 5596 issued by the USDA for pre-harvest hemp clearance (total THC - uncertainty ≤ 0.3% THC). Dry weight percent of cannabinoids, if listed, is calculated using the dried weight determined by the moisture content prior to extraction, indicated as follows (SOP:702; Gravimetry).

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Kristen Goedde  
Lab Manager

Tom Barkley  
Technical Manager

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## Microbials

Date Analyzed: 06/23/2023

Pass

Analytes	Limit	Result	Status
Total Aerobic Count	CFU/g 100000	CFU/g <100	Pass
Salmonella SPP	Detected in 1g	Not Detected	Pass
E. Coli (STEC)	Detected in 1g	Not Detected	Pass
Yeast & Mold	10000	<100	Pass

SOP.602, SOP.606, SOP.607; qPCR, SOP.604; Plating, and/or SOP.605; MPN.

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## Mycotoxins

Date Analyzed: 06/22/2023

Pass

Analytes	LOD	LOQ	Limit	Result	Status
	µg/g	µg/g	µg/g	µg/g	
Aflatoxin B1	0.00146	0.00485		ND	Tested
Aflatoxin B2	0.00146	0.00485		ND	Tested
Aflatoxin G1	0.00146	0.00485		ND	Tested
Aflatoxin G2	0.00146	0.00485		ND	Tested
Total Aflatoxins			0.0200	ND	Pass
Ochratoxin A	0.00582	0.0194	0.0200	ND	Pass

SOP.402; LC-MS/MS.

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## Elemental

Date Analyzed: 06/22/2023

Pass

## Heavy Metals

Analytes	LOD	LOQ	Limit	Result	Status
	µg/g	µg/g	µg/g	µg/g	
Arsenic	0.00651	0.0482	1.50	ND	Pass
Cadmium	0.000512	0.0241	0.500	ND	Pass
Lead	0.00609	0.0241	1.00	0.0279	Pass
Mercury	0.00276	0.00722	1.50	ND	Pass
Chromium	0.0259	0.0722		<LOQ	Tested
Nickel	0.0266	0.0722		ND	Tested
Antimony	0.00805	0.0241		ND	Tested
Selenium	0.0126	0.0963		ND	Tested

## Nutrients

Analytes	LOD	LOQ	Limit	Result	Status
	µg/g	µg/g	µg/g	µg/g	
Copper	0.103	0.489		0.621	Tested
Iron	1.67	5.00		<LOQ	Tested
Manganese	0.0155	0.489		<LOQ	Tested
Zinc	1.67	5.00		ND	Tested

SOP 502; ICPMS.

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## Pesticides

Date Analyzed: 06/22/2023

Pass

Analytes	LOD	LOQ	Limit	Result	Status	Analytes	LOD	LOQ	Limit	Result	Status
	µg/g	µg/g	µg/g	µg/g			µg/g	µg/g	µg/g	µg/g	
Abamectin	0.0182	0.0606	0.300	ND	Pass	Fludioxonil	0.0182	0.0606	3.00	ND	Pass
Acephate	0.0182	0.0606	3.00	ND	Pass	Hexythiazox	0.0182	0.0606	2.00	ND	Pass
Acequinocyl	0.0182	0.0606	2.00	ND	Pass	Imazalil	0.0182	0.0606	0.100	ND	Pass
Acetamiprid	0.0182	0.0606	3.00	ND	Pass	Imidacloprid	0.0182	0.0606	3.00	ND	Pass
Aldicarb	0.0182	0.0606	0.100	ND	Pass	Kresoxim Methyl	0.0182	0.0606	1.00	ND	Pass
Azoxystrobin	0.0182	0.0606	3.00	ND	Pass	Malathion	0.0182	0.0606	2.00	ND	Pass
Bifenazate	0.0182	0.0606	3.00	ND	Pass	Metalaxyl	0.0182	0.0606	3.00	ND	Pass
Bifenthrin	0.0182	0.0606	0.500	ND	Pass	Methiocarb	0.0182	0.0606	0.100	ND	Pass
Boscalid	0.0182	0.0606	3.00	ND	Pass	Methomyl	0.0182	0.0606	0.100	ND	Pass
Captan	0.146	0.485	3.00	ND	Pass	Mevinphos	0.0182	0.0606	0.100	ND	Pass
Carbaryl	0.0182	0.0606	0.500	ND	Pass	MGK-264	0.0364	0.121		ND	Tested
Carbofuran	0.0182	0.0606	0.100	ND	Pass	Myclobutanil	0.0182	0.0606	3.00	ND	Pass
Chlorantraniliprole	0.0182	0.0606	3.00	ND	Pass	Naled	0.0182	0.0606	0.500	ND	Pass
Chlordane	0.0182	0.0606	0.100	ND	Pass	Oxamyl	0.0182	0.0606	0.500	ND	Pass
Chlorfenapyr	0.0182	0.0606	0.100	ND	Pass	Paclobotrazol	0.0182	0.0606	0.100	ND	Pass
Chlormequat chloride	0.0182	0.0606	3.00	ND	Pass	Parathion Methyl	0.0182	0.0606	0.100	ND	Pass
Chlorpyrifos	0.0182	0.0606	0.100	ND	Pass	Pentachloronitrobenzene	0.0182	0.0606	0.200	ND	Pass
Clofentezine	0.0182	0.0606	0.500	ND	Pass	Permethrins	0.0364	0.121	1.00	ND	Pass
Coumaphos	0.0182	0.0606	0.100	ND	Pass	Phosmet	0.0182	0.0606	0.200	ND	Pass
Cyfluthrin	0.0728	0.243	1.00	ND	Pass	Piperonyl Butoxide	0.0182	0.0606	3.00	ND	Pass
Cypermethrin	0.0364	0.121	1.00	ND	Pass	Prallethrin	0.0728	0.0606	0.400	ND	Pass
Daminozide	0.0182	0.0606	0.100	ND	Pass	Propiconazole	0.0182	0.0606	1.00	ND	Pass
Diazinon	0.0182	0.0606	0.200	ND	Pass	Propoxur	0.0182	0.0606	0.100	ND	Pass
Dichlorvos	0.0182	0.0606	0.100	ND	Pass	Pyrethrins	0.0728	0.243	1.00	ND	Pass
Dimethoate	0.0182	0.0606	0.100	ND	Pass	Pyridaben	0.0182	0.0606	3.00	ND	Pass
Dimethomorph	0.0182	0.0606	3.00	ND	Pass	Spinetoram	0.0182	0.0606	3.00	ND	Pass
Ethoprophos	0.0182	0.0606	0.100	ND	Pass	Spinosad	0.0182	0.0606	3.00	ND	Pass
Etofenprox	0.0182	0.0606	0.100	ND	Pass	Spiromesifen	0.0182	0.0606	3.00	ND	Pass
Etoxazole	0.0182	0.0606	1.50	ND	Pass	Spirotetramat	0.0182	0.0606	3.00	ND	Pass
Fenhexamid	0.0182	0.0606	3.00	ND	Pass	Spiroxamine	0.0182	0.0606	0.100	ND	Pass
Fenoxycarb	0.0182	0.0606	0.100	ND	Pass	Tebuconazole	0.0182	0.0606	1.00	ND	Pass
Fenpyroximate	0.0182	0.0606	0.100	ND	Pass	Thiacloprid	0.0182	0.0606	0.100	ND	Pass
Fipronil	0.0182	0.0606	0.100	ND	Pass	Thiamethoxam	0.0182	0.0606	1.00	ND	Pass
Fonicamid	0.0182	0.0606	2.00	ND	Pass	Trifloxystrobin	0.0182	0.0606	3.00	ND	Pass

SOP.402; LC-MS/MS & SOP.302; GC-MS



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Ingestible, Soft Chew



## Residual Solvents

Date Analyzed: 06/21/2023

Pass

Analytes	LOD	LOQ	Limit	Result	Status
	µg/g	µg/g	µg/g	µg/g	
1,1- Dichloroethene	0.0351	0.105	8.00	ND	Pass
1,2-Dichloroethane	0.140	0.421	5.00	ND	Pass
Acetone	14.0	42.1	5000	ND	Pass
Acetonitrile	14.0	42.1	410	ND	Pass
Benzene	0.0351	0.105	2.00	ND	Pass
Butane	14.0	42.1	2000	ND	Pass
Chloroform	0.0351	0.105	60.0	ND	Pass
Ethanol	14.0	42.1	5000	397	Pass
Ethyl acetate	14.0	42.1	5000	ND	Pass
Ethyl ether	14.0	42.1	5000	ND	Pass
Ethylene oxide	0.140	0.421	5.00	ND	Pass
Heptane	14.0	42.1	5000	ND	Pass
n-Hexane	7.01	21.0	290	ND	Pass
Isopropyl alcohol	14.0	42.1	5000	ND	Pass
Methanol	14.0	42.1	3000	ND	Pass
Methylene chloride	0.0701	0.210	600	ND	Pass
Pentane	3.51	10.5	5000	ND	Pass
Propane	7.01	21.0	5000	ND	Pass
Toluene	7.01	21.0	890	ND	Pass
Trichloroethylene	0.0351	0.105	80.0	ND	Pass
Xylenes	7.01	21.0	2170	ND	Pass

SOP.204; HS-GC-MS.

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