CERTIFICATE OF ANALYSIS

Beak & Skiff Research

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

Sample: 230510TRI001.001

Sample Description: 2400mg CBD Tincture
Batch# : 05102023MV_GVL;
Sample Received: 05/12/2023; Report Created: 05/17/2023;
Sampled By: Client;

T0077 (050825)

Ingestible, Tincture

2.280 mg/ml	73.07 mg/ml	77.15 mg/ml
Total THC	Total CBD	Total Cannabinoids
	0.9418 mg/ml	
	Total CBG	

Cannabinoids

Complete

Date Analyzed: 05/12/2023

Analyte	LOD	LOQ	Result	Result
	mg/mL	mg/mL	mg/mL	%
THCa	0.01345	0.04482	ND	ND
Δ9-THC	0.01345	0.04482	2.280	0.2406
Δ8-THC	0.01345	0.04482	ND	ND
THCVa	0.01345	0.04482	ND	ND
THCV	0.01345	0.04482	ND	ND
CBDa	0.01345	0.04482	ND	ND
CBD	0.01345	0.04482	73.07	7.712
CBDVa	0.01345	0.04482	ND	ND
CBDV	0.01345	0.04482	0.5116	0.05399
CBN	0.01345	0.04482	0.04574	0.004827
CBGa	0.01345	0.04482	ND	ND
CBG	0.01345	0.04482	0.9418	0.09939
CBCa	0.02611	0.08704	ND	ND
CBC	0.01345	0.04482	0.2016	0.02128
CBL	0.01345	0.04482	0.09086	0.009588
Total			**77.15**	**8.141**

1 mL = 0.9476 g

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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T0077 (050825)

Ingestible, Tincture

Microbials

Pass

Date Analyzed: 05/16/2023

Analytes	Limit	Result	Status
	CFU/g	CFU/g	
Total Aerobic Count	100000	<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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Ingestible, Tincture

Mycotoxins

Pass

Date Analyzed: 05/15/2023

Analytes	LOD	LOQ	Limit	Result	Status
	µg/g	µg/g	µg/g	µg/g	
Aflatoxin B1	0.00149	0.00497		ND	Tested
Aflatoxin B2	0.00149	0.00497		ND	Tested
Aflatoxin G1	0.00149	0.00497		ND	Tested
Aflatoxin G2	0.00149	0.00497		ND	Tested
Total Aflatoxins			0.0200	ND	Pass
Ochratoxin A	0.00597	0.0199	0.0200	ND	Pass

SOP.402; LC-MS/MS.

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Ingestible, Tincture

Elemental
Pass

Date Analyzed: 05/15/2023

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	ND	Pass
Mercury	0.00276	0.00722	1.50	ND	Pass
Chromium	0.0259	0.0722		ND	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		ND	Tested
Iron	1.67	5.00		ND	Tested
Manganese	0.0155	0.489		ND	Tested
Zinc	1.67	5.00		ND	Tested

SOP 502; ICPMS.

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T0077 (050825)

Ingestible, Tincture

Pesticides

Pass

Date Analyzed: 05/16/2023

Analytes	LOD	LOQ	Limit	Result	Status
	µg/g	µg/g	µg/g	µg/g	
Abamectin	0.0186	0.0622	0.300	ND	Pass
Acephate	0.0186	0.0622	3.00	ND	Pass
Acequinocyl	0.0186	0.0622	2.00	ND	Pass
Acetamiprid	0.0186	0.0622	3.00	ND	Pass
Aldicarb	0.0186	0.0622	0.100	ND	Pass
Azoxystrobin	0.0186	0.0622	3.00	ND	Pass
Bifenazate	0.0186	0.0622	3.00	ND	Pass
Bifenthrin	0.0186	0.0622	0.500	ND	Pass
Boscalid	0.0186	0.0622	3.00	ND	Pass
Captan	0.149	0.497	3.00	ND	Pass
Carbaryl	0.0186	0.0622	0.500	ND	Pass
Carbofuran	0.0186	0.0622	0.100	ND	Pass
Chlorantraniliprole	0.0186	0.0622	3.00	ND	Pass
Chlordane	0.0186	0.0622	0.100	ND	Pass
Chlorfenapyr	0.0186	0.0622	0.100	ND	Pass
Chlormequat chloride	0.0186	0.0622	3.00	ND	Pass
Chlorpyrifos	0.0186	0.0622	0.100	ND	Pass
Clofentezine	0.0186	0.0622	0.500	ND	Pass
Coumaphos	0.0186	0.0622	0.100	ND	Pass
Cyfluthrin	0.0746	0.249	1.00	ND	Pass
Cypermethrin	0.0373	0.124	1.00	ND	Pass
Daminozide	0.0186	0.0622	0.100	ND	Pass
Diazinon	0.0186	0.0622	0.200	ND	Pass
Dichlorvos	0.0186	0.0622	0.100	ND	Pass
Dimethoate	0.0186	0.0622	0.100	ND	Pass
Dimethomorph	0.0186	0.0622	3.00	ND	Pass
Ethoprophos	0.0186	0.0622	0.100	ND	Pass
Etofenprox	0.0186	0.0622	0.100	ND	Pass
Etoxazole	0.0186	0.0622	1.50	ND	Pass
Fenhexamid	0.0186	0.0622	3.00	ND	Pass
Fenoxycarb	0.0186	0.0622	0.100	ND	Pass
Fenpyroximate	0.0186	0.0622	0.100	ND	Pass
Fipronil	0.0186	0.0622	0.100	ND	Pass
Flonicamid	0.0186	0.0622	2.00	ND	Pass

Analytes	LOD	LOQ	Limit	Result	Status
	µg/g	µg/g	µg/g	µg/g	
Fludioxonil	0.0186	0.0622	3.00	ND	Pass
Hexythiazox	0.0186	0.0622	2.00	ND	Pass
Imazalil	0.0186	0.0622	0.100	ND	Pass
Imidacloprid	0.0186	0.0622	3.00	ND	Pass
Kresoxim Methyl	0.0186	0.0622	1.00	ND	Pass
Malathion	0.0186	0.0622	2.00	ND	Pass
Metalaxyl	0.0186	0.0622	3.00	ND	Pass
Methiocarb	0.0186	0.0622	0.100	ND	Pass
Methomyl	0.0186	0.0622	0.100	ND	Pass
Mevinphos	0.0186	0.0622	0.100	ND	Pass
MGK-264	0.0373	0.124		ND	Tested
Myclobutanil	0.0186	0.0622	3.00	ND	Pass
Naled	0.0186	0.0622	0.500	ND	Pass
Oxamyl	0.0186	0.0622	0.500	ND	Pass
Paclobutrazol	0.0186	0.0622	0.100	ND	Pass
Parathion Methyl	0.0186	0.0622	0.100	ND	Pass
Pentachloronitrobenzene	0.0186	0.0622	0.200	ND	Pass
Permethrins	0.0373	0.124	1.00	ND	Pass
Phosmet	0.0186	0.0622	0.200	ND	Pass
Piperonyl Butoxide	0.0186	0.0622	3.00	ND	Pass
Prallethrin	0.0746	0.0622	0.400	ND	Pass
Propiconazole	0.0186	0.0622	1.00	ND	Pass
Propoxur	0.0186	0.0622	0.100	ND	Pass
Pyrethrins	0.0746	0.249	1.00	ND	Pass
Pyridaben	0.0186	0.0622	3.00	ND	Pass
Spinetoram	0.0186	0.0622	3.00	ND	Pass
Spinosad	0.0186	0.0622	3.00	ND	Pass
Spiromesifen	0.0186	0.0622	3.00	ND	Pass
Spirotetramat	0.0186	0.0622	3.00	ND	Pass
Spiroxamine	0.0186	0.0622	0.100	ND	Pass
Tebuconazole	0.0186	0.0622	1.00	ND	Pass
Thiacloprid	0.0186	0.0622	0.100	ND	Pass
Thiamethoxam	0.0186	0.0622	1.00	ND	Pass
Trifloxystrobin	0.0186	0.0622	3.00	ND	Pass

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

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T0077 (050825)

Ingestible, Tincture

Residual Solvents

Pass

Date Analyzed: 05/15/2023

Analytes	LOD	LOQ	Limit	Result	Status
	µg/g	µg/g	µg/g	µg/g	
1,1- Dichloroethene	0.0346	0.104	8.00	ND	Pass
1,2-Dichloroethane	0.139	0.416	5.00	ND	Pass
Acetone	13.9	41.6	5000	ND	Pass
Acetonitrile	13.9	41.6	410	ND	Pass
Benzene	0.0346	0.104	2.00	ND	Pass
Butane	13.9	41.6	2000	ND	Pass
Chloroform	0.0346	0.104	60.0	ND	Pass
Ethanol	13.9	41.6	5000	ND	Pass
Ethyl acetate	13.9	41.6	5000	ND	Pass
Ethyl ether	13.9	41.6	5000	ND	Pass
Ethylene oxide	0.139	0.416	5.00	ND	Pass
Heptane	13.9	41.6	5000	ND	Pass
n-Hexane	6.93	20.8	290	ND	Pass
Isopropyl alcohol	13.9	41.6	5000	ND	Pass
Methanol	13.9	41.6	3000	ND	Pass
Methylene chloride	0.0693	0.208	600	ND	Pass
Pentane	3.46	10.4	5000	ND	Pass
Propane	6.93	20.8	5000	ND	Pass
Toluene	6.93	20.8	890	ND	Pass
Trichloroethylene	0.0346	0.104	80.0	ND	Pass
Xylenes	6.93	20.8	2170	ND	Pass

SOP.204; HS-GC-MS.

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