

Certificate of Analysis

Octopi Brewing LLC

1131 Uniek Ave
Waunakee Wisconsin 53597 United States

Sample Name:	Green Canvas	Eurofins Sample:	12276916
Project ID	OCTOPI_BR-20221014-0016	Receipt Date	15-Oct-2022
PO Number	NA	Receipt Condition	Ambient temperature
Lot Number	2123207Oct2024	Login Date	14-Oct-2022
Sample Serving Size	355 g	Date Started	17-Oct-2022
Description	Lemonade Tea	Sampled	Sample results apply as received
		Online Order	901-2022-E012670

Analysis	Result	Result per Serving
Industrial Hemp Cannabinoid Profile		
CBDVA	None detected at detection limit of 0.00008 %	None detected at detection limit of 0.00008 % mg/Serving Size
CBDV	None detected at detection limit of 0.00017 %	None detected at detection limit of 0.00017 % mg/Serving Size
CBDA	None detected at detection limit of 0.00008 %	None detected at detection limit of 0.00008 % mg/Serving Size
CBGA	None detected at detection limit of 0.00008 %	None detected at detection limit of 0.00008 % mg/Serving Size
CBG	<0.000500 %	<1.78 mg/Serving Size
CBD	0.00443 %	15.7 mg/Serving Size
THCV	None detected at detection limit of 0.00017 %	None detected at detection limit of 0.00017 % mg/Serving Size
CBN	<0.000500 %	<1.78 mg/Serving Size
Delta 9-THC	0.000672 %	2.39 mg/Serving Size
Delta 8-THC	None detected at detection limit of 0.00033 %	None detected at detection limit of 0.00033 % mg/Serving Size
THCA	None detected at detection limit of 0.00033 %	None detected at detection limit of 0.00033 % mg/Serving Size
CBC	None detected at detection limit of 0.00017 %	None detected at detection limit of 0.00017 % mg/Serving Size
THCVA	None detected at detection limit of 0.00008 %	None detected at detection limit of 0.00008 % mg/Serving Size
CBNA	None detected at detection limit of 0.00008 %	None detected at detection limit of 0.00008 % mg/Serving Size
CBCA	None detected at detection limit of 0.00033 %	None detected at detection limit of 0.00033 % mg/Serving Size
CBL	None detected at detection limit of 0.00008 %	None detected at detection limit of 0.00008 % mg/Serving Size
Total Cannabinoids	0.00510 %	18.1 mg/Serving Size
Total THC (THC + (THCA x 0.877))	0.000672 %	2.39 mg/Serving Size
Total CBD (CBD + (CBDA x 0.877))	0.00443 %	15.7 mg/Serving Size

Analysis	Limit	Result	Pass/Fail
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BCC - Residual Solvent Analysis in Cannabis and Hemp Matrices

Category I Residual Solvent or Processing Chemical

1,2-Dichloroethane	1.0 ppm	<1.0 ppm	Pass
Benzene	1.0 ppm	<1.0 ppm	Pass
Chloroform	1.0 ppm	<1.0 ppm	Pass
Ethylene Oxide	25.0 ppm	<25.0 ppm	Pass
Methylene Chloride	1.0 ppm	<1.0 ppm	Pass
Trichloroethylene	1.0 ppm	<1.0 ppm	Pass

The BCC limit of 1 ppm for Ethylene Oxide is not achieved by this method. Reporting limit of 25 ppm is the limit recommended by the AOAC CASP.

Category II Residual Solvent or Processing Chemical

Isopropal Alcohol	5000 ppm	<500 ppm	Pass
Acetone	5000 ppm	<200 ppm	Pass
Acetonitrile	410 ppm	<200 ppm	Pass
Ethanol	5000 ppm	2010 ppm	Pass
Ethyl Acetate	5000 ppm	<500 ppm	Pass
Ethyl Ether	5000 ppm	<500 ppm	Pass
Methanol	3000 ppm	<500 ppm	Pass
Butane	5000 ppm	<500 ppm	Pass
Heptane	5000 ppm	<50.0 ppm	Pass
Hexane	290 ppm	<30.0 ppm	Pass
Pentane	5000 ppm	<25.0 ppm	Pass
Propane	5000 ppm	<1000 ppm	Pass
Toluene	890 ppm	<90.0 ppm	Pass
Xylenes (ortho-, meta-, para-)	2170 ppm	<160 ppm	Pass

The Pass/Fail reporting designations are relative to the limits set forth by the Bureau of Cannabis Control, Title 16, Division 42.

Summed Group 1 (Butanes)

Isobutane (2-Methylpropane)		<500 ppm	
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BCC - Residual Solvent Analysis in Cannabis and Hemp Matrices

Summed Group 2 (Heptanes)

2,2,3-Trimethylbutane		<50.0 ppm	
2,3-Dimethylpentane		<50.0 ppm	
2,4-Dimethylpentane		<50.0 ppm	
2-Methylhexane		<50.0 ppm	
3,3-Dimethylpentane		<50.0 ppm	
3-Ethylpentane		<50.0 ppm	
3-Methylhexane		<50.0 ppm	

Summed Group 3 (Petroleum Ether)

2,2-Dimethylbutane		<25.0 ppm	
2,3-Dimethylbutane		<25.0 ppm	
2-Methylpentane		<25.0 ppm	
3-Methylpentane		<25.0 ppm	

Summed Group 4 (Xylenes)

Xylenes-1 (Ethylbenzene)		<40.0 ppm	
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Multi-Residue Analysis for hemp products - BCC Pesticide List

Abamectin	0.3 mg/kg	<300 ppb	Pass
Acephate	5 mg/kg	<100 ppb	Pass
Acequinocyl	4 mg/kg	<1000 ppb	Pass
Acetamiprid	5 mg/kg	<100 ppb	Pass
Aldicarb	0.1 mg/kg	<100 ppb	Pass
Aldicarb sulfone (Aldoxycarb)	0.1 mg/kg	<0.10 mg/kg	Pass
Aldicarb sulfoxide	0.1 mg/kg	<0.10 mg/kg	Pass
Azoxystrobin	40 mg/kg	<100 ppb	Pass
Bifenazate	5 mg/kg	<100 ppb	Pass
Bifenthrin	0.5 mg/kg	<100 ppb	Pass
Boscalid	10 mg/kg	<100 ppb	Pass
Captan	5 mg/kg	<200 ppb	Pass
Carbaryl	0.5 mg/kg	<100 ppb	Pass
Carbofuran	0.1 mg/kg	<100 ppb	Pass

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Multi-Residue Analysis for hemp products - BCC Pesticide List

Carbofuran-3-hydroxy-	0.1 mg/kg	<0.10 mg/kg	Pass
Chlorantraniliprole	40 mg/kg	<100 ppb	Pass
Chlordane, cis-	0.1 mg/kg	<100 ppb	Pass
Chlordane, trans-	0.1 mg/kg	<100 ppb	Pass
Chlorfenapyr	0.1 mg/kg	<100 ppb	Pass
Chlorpyrifos	0.1 mg/kg	<100 ppb	Pass
Clofentezine	0.5 mg/kg	<100 ppb	Pass
Coumaphos	0.1 mg/kg	<100 ppb	Pass
Cyfluthrin	1 mg/kg	<100 ppb	Pass
Cypermethrin	1 mg/kg	<100 ppb	Pass
Diazinon	0.2 mg/kg	<100 ppb	Pass
Dichlorvos	0.1 mg/kg	<100 ppb	Pass
Dimethoate	0.1 mg/kg	<100 ppb	Pass
Dimethomorph	20 mg/kg	<100 ppb	Pass
Ethoprophos	0.1 mg/kg	<100 ppb	Pass
Etofenprox	0.1 mg/kg	<100 ppb	Pass
Etoxazole	1.5 mg/kg	<100 ppb	Pass
Fenoxycarb	0.1 mg/kg	<100 ppb	Pass
Fenpyroximate	2 mg/kg	<100 ppb	Pass
Fipronil	0.1 mg/kg	<100 ppb	Pass
Fipronil desulfinyl	0.1 mg/kg	<0.10 mg/kg	Pass
Fipronil sulfone	0.1 mg/kg	<0.10 mg/kg	Pass
Flonicamid	2 mg/kg	<100 ppb	Pass
Fludioxonil	30 mg/kg	<100 ppb	Pass
Hexythiazox	2 mg/kg	<100 ppb	Pass
Imazalil	0.1 mg/kg	<100 ppb	Pass
Imidacloprid	3 mg/kg	<100 ppb	Pass
Kresoxim-methyl	1 mg/kg	<100 ppb	Pass
Malathion	5 mg/kg	<100 ppb	Pass
Metalaxyl	15 mg/kg	<100 ppb	Pass

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Analysis	Limit	Result	Pass/Fail
Multi-Residue Analysis for hemp products - BCC Pesticide List			
Methiocarb	0.1 mg/kg	<100 ppb	Pass
Methiocarb sulfone	0.1 mg/kg	<0.10 mg/kg	Pass
Methiocarb sulfoxide	0.1 mg/kg	<0.10 mg/kg	Pass
Methomyl	0.1 mg/kg	<100 ppb	Pass
Mevinphos	0.1 mg/kg	<100 ppb	Pass
Myclobutanil	9 mg/kg	<100 ppb	Pass
Naled	0.5 mg/kg	<100 ppb	Pass
Oxamyl	0.2 mg/kg	<100 ppb	Pass
Paclobutrazol	0.1 mg/kg	<100 ppb	Pass
Methyl parathion	0.1 mg/kg	<100 ppb	Pass
Pentachloroaniline	0.2 mg/kg	<100 ppb	Pass
Pentachlorobenzene	0.2 mg/kg	<100 ppb	Pass
Pentachlorobenzonitrile	0.2 mg/kg	<100 ppb	Pass
Pentachlorothioanisole	0.2 mg/kg	<100 ppb	Pass
Permethrin	20 mg/kg	<100 ppb	Pass
Phosmet	0.2 mg/kg	<100 ppb	Pass
Piperonylbutoxide	8 mg/kg	<100 ppb	Pass
Prallethrin	0.4 mg/kg	<1000 ppb	Pass
Propiconazole (sum of isomers)	20 mg/kg	<100 ppb	Pass
Propoxur	0.1 mg/kg	<100 ppb	Pass
Pyrethrins	1 mg/kg	<1000 ppb	Pass
Pyridaben	3 mg/kg	<100 ppb	Pass
Pentachloronitrobenzene	0.2 mg/kg	<100 ppb	Pass
Spinetoram	3 mg/kg	<100 ppb	Pass
Spinosad	3 mg/kg	<100 ppb	Pass
Spiromesifen	12 mg/kg	<100 ppb	Pass
Spirotetramat	13 mg/kg	<100 ppb	Pass
Spiroxamine	0.1 mg/kg	<100 ppb	Pass
Tebuconazole	2 mg/kg	<100 ppb	Pass
Thiacloprid	0.1 mg/kg	<100 ppb	Pass

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Multi-Residue Analysis for hemp products - BCC Pesticide List

Thiamethoxam	4.5 mg/kg	<100 ppb	Pass
Trifloxystrobin	30 mg/kg	<100 ppb	Pass

The Pass/Fail reporting designations are relative to the limits set forth by the Bureau of Cannabis Control, Title 16, Division 42.

Prallethrin reporting limit is higher than BCC action level, but EPA tolerance is 1 ppm.

Multi-Residue Analysis for hemp products - BCC Pesticides Fenhexamid and Daminozide

Daminozide	0.1 mg/kg	<100 ppb	Pass
Fenhexamid	10 mg/kg	<100 ppb	Pass

The Pass/Fail reporting designations are relative to the limits set forth by the Bureau of Cannabis Control, Title 16, Division 42.

Method References	Testing Location
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BCC - Residual Solvent Analysis in Cannabis and Hemp Matrices (CANN_SOL_S)

Internally Developed Method

Food Integrity Innovation-Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

Industrial Hemp Cannabinoid Profile (IHCBD_S)

Official Methods of Analysis, AOAC 2018.11, AOAC International, Gaithersburg, MD (Modified).

Food Integrity Innovation-Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

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Method References	Testing Location
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Multi-Residue Analysis for hemp products - BCC Pesticide List (PEST_HEMP)

Food Integrity Innovation-Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

Official Methods of Analysis, AOAC Official Method 2007.01, Pesticide Residues in Foods by Acetonitrile Extraction and Partitioning with Magnesium Sulfate, AOAC INTERNATIONAL (modified).

CEN Standard Method EN 15662: Food of plant origin - Determination of pesticide residues using GC-MS and/or LC-MS/MS following acetonitrile extraction/partitioning and clean-up by dispersive SPE - QuEChERS method.

List of the tested pesticides and their limits of quantification (LOQs) are available upon request.

Multi-Residue Analysis for hemp products - BCC Pesticides Fenhexamid and Daminoside (PEST_HEMP)

Food Integrity Innovation-Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

Official Methods of Analysis, AOAC Official Method 2007.01, Pesticide Residues in Foods by Acetonitrile Extraction and Partitioning with Magnesium Sulfate, AOAC INTERNATIONAL (modified).

CEN Standard Method EN 15662: Food of plant origin - Determination of pesticide residues using GC-MS and/or LC-MS/MS following acetonitrile extraction/partitioning and clean-up by dispersive SPE - QuEChERS method.

List of the tested pesticides and their limits of quantification (LOQs) are available upon request.

Testing Location(s)	Released on Behalf of Eurofins by
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Food Integrity Innovation-Madison

Edward Ladwig - President Eurofins Food Chemistry Testing Madison

Eurofins Food Chemistry Testing Madison, Inc.
6304 Ronald Reagan Ave
Madison WI 53704
800-675-8375



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