



CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

BOTN	CE114	NR: Not Reported NA: Not Available
BLOOD ORANGE TINCTURE	SERVING SIZE: 1 ML	LOQ: Limit Of Quantitation LOD: Limit Of Detection
LABORATORY: COLUMBIA LABORATORIES	OREGON ACCREDITATION: OR100028	1 g = 10 ⁻³ kg = 10 ³ mg = 10 ⁶ µg 1 mg/kg = 1 ppm = 1000 ppb

POTENCY	PER SERVING	PER GRAM	REGULATORY ACTION LEVEL
Cannabidiol (CBD)	50.2 mg/serving	53.75 mg/g	N/A
Total THC (d9-THC + d8-THC)	<LOQ mg/serving	<LOQ mg/g	3 mg/g
Cannabigerol (CBG)	<LOQ mg/serving	<LOQ mg/g	N/A
Cannabinol (CBN)	<LOQ mg/serving	<LOQ mg/g	N/A
Cannabichromene (CBC)	<LOQ mg/serving	<LOQ mg/g	N/A

HEAVY METALS	PER SERVING	PER GRAM	REGULATORY ACTION LEVEL
Arsenic	<LOQ µg/serving	<LOQ µg/g	10 µg/day ^[1]
Cadmium	<LOQ µg/serving	<LOQ µg/g	4.1 µg/day ^[1]
Lead	<LOQ µg/serving	<LOQ µg/g	3.5 µg/day ^[2]
Mercury	<LOQ µg/serving	<LOQ µg/g	2 µg/day ^[1]

PESTICIDES	REGULATORY ACTION LEVEL
None of the 59 pesticides tested found above limit of quantitation in the sample.	10 ppb ^[1]

RESIDUAL SOLVENTS
None of the 36 residual solvents tested found above limit of quantitation in the sample.

MICROBIAL	PASS/FAIL
Yeast & Mold	Pass
Coliform	Pass

1. American Herbal Pharmacopoeia. (2014). *Cannabis Inflorescence: Standards of Identity, Analysis, and Quality Control*. Washington DC: AHP.
 2. US Food and Drug Administration. (2019). *Lead in Food, Foodwares, and Dietary Supplements*. Washington DC: FDA. US Food and Drug Administration. (2019). *Lead in Food, Foodwares, and Dietary Supplements*. Washington DC: FDA.



12423 NE Whitaker Way
 Portland, OR 97230
 503-254-1794



Report Number: 20-005513/D02.R00
Report Date: 06/09/2020
ORELAP#: OR100028
Purchase Order:
Received: 05/29/20 14:30

Customer: Etz Hayim Holdings
Product identity: BOTN - CE114
Client/Metric ID: .
Laboratory ID: 20-005513-0001

Summary

Potency:

Analyte per 1ml	Result	Limits	Units	Status	
CBD per 1ml	50.2		mg/1ml		CBD-Total per 1ml 50.2 mg/1ml
CBDV per 1ml	0.207		mg/1ml		THC-Total per 1ml <LOQ
(Reported in milligrams per serving)					



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Customer: Etz Hayim Holdings

Product identity: BOTN - CE114
Client/Metric ID: .
Sample Date:
Laboratory ID: 20-005513-0001
Evidence of Cooling: No
Temp: 28 °C
Relinquished by: Michael Mackay

Sample Results

Potency per 1ml	Method J AOAC 2015 V98-6 (mod)	Batch: 2004807	Analyze: 1/1/70 12:00:00 AM		
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1ml	< LOQ		mg/1ml	0.0303	
CBC-A per 1ml	< LOQ		mg/1ml	0.0303	
CBC-Total per 1ml	< LOQ		mg/1ml	0.0569	
CBD per 1ml	50.2		mg/1ml	0.303	
CBD-A per 1ml	< LOQ		mg/1ml	0.0303	
CBD-Total per 1ml	50.2		mg/1ml	0.330	
CBDV per 1ml	0.207		mg/1ml	0.0303	
CBDV-A per 1ml	< LOQ		mg/1ml	0.0303	
CBDV-Total per 1ml	0.207		mg/1ml	0.0566	
CBG per 1ml	< LOQ		mg/1ml	0.0303	
CBG-A per 1ml	< LOQ		mg/1ml	0.0303	
CBG-Total per 1ml	< LOQ		mg/1ml	0.0566	
CBL per 1ml	< LOQ		mg/1ml	0.0303	
CBN per 1ml	< LOQ		mg/1ml	0.0303	
Δ8-THC per 1ml	< LOQ		mg/1ml	0.0303	
Δ9-THC per 1ml	< LOQ		mg/1ml	0.0303	
THC-A per 1ml	< LOQ		mg/1ml	0.0303	
THC-Total per 1ml	< LOQ		mg/1ml	0.0569	
THCV per 1ml	< LOQ		mg/1ml	0.0303	
THCV-A per 1ml	< LOQ		mg/1ml	0.0303	
THCV-Total per 1ml	< LOQ		mg/1ml	0.0570	
Total Cannabinoids 1ml†	50.5		mg/1ml		

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Density	0.934		g/ml			06/09/20	Client Provided	

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Report Number: 20-005513/D03.R00
Report Date: 06/16/2020
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Purchase Order:
Received: 05/29/20 14:30

Customer: Etz Hayim Holdings
Product identity: BOTN - CE114
Client/Metric ID: .
Laboratory ID: 20-005513-0003

Summary

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

All analytes passing and less than LOQ.

Terpenes:

Analyte	Percent by weight	Percent of Total	Analyte	Percent by weight	Percent of Total
(R)-(+)-Limonene†	0.128	100.00%	Total Terpenes†	0.128	100.00%

Metals:

Less than LOQ for all analytes.

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Received: 05/29/20 14:30



Customer: Etz Hayim Holdings

Product identity: BOTN - CE114

Client/Metric ID: .

Sample Date:

Laboratory ID: 20-005513-0003

Evidence of Cooling: No

Temp: 28 °C

Relinquished by: Michael Mackay

Sample Results

Solvents					Method EPA5021A	Units µg/g	Batch 2004904	Analyze 06/12/20 08:07 AM				
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes	
1,4-Dioxane	< LOQ	380	100	pass		2-Butanol	< LOQ	5000	200	pass		
2-Ethoxyethanol	< LOQ	160	30.0	pass		2-Methylbutane	< LOQ		200			
2-Methylpentane	< LOQ		30.0			2-Propanol (IPA)	< LOQ	5000	200	pass		
2,2-Dimethylbutane	< LOQ		30.0			2,2-Dimethylpropane	< LOQ		200			
2,3-Dimethylbutane	< LOQ		30.0			3-Methylpentane	< LOQ		30.0			
Acetone	< LOQ	5000	200	pass		Acetonitrile	< LOQ	410	100	pass		
Benzene	< LOQ	2.00	1.00	pass		Butanes (sum)	< LOQ	5000	400	pass		
Cyclohexane	< LOQ	3880	200	pass		Ethanol ^l	< LOQ		200			
Ethyl acetate	< LOQ	5000	200	pass		Ethyl benzene	< LOQ		200			
Ethyl ether	< LOQ	5000	200	pass		Ethylene glycol	< LOQ	620	200	pass		
Ethylene oxide	< LOQ	50.0	30.0	pass		Hexanes (sum)	< LOQ	290	150	pass		
Isopropyl acetate	< LOQ	5000	200	pass		Isopropylbenzene	< LOQ	70.0	30.0	pass		
m,p-Xylene	< LOQ		200			Methanol	< LOQ	3000	200	pass		
Methylene chloride	< LOQ	600	200	pass		Methylpropane	< LOQ		200			
n-Butane	< LOQ		200			n-Heptane	< LOQ	5000	200	pass		
n-Hexane	< LOQ		30.0			n-Pentane	< LOQ		200			
o-Xylene	< LOQ		200			Pentanes (sum)	< LOQ	5000	600	pass		
Propane	< LOQ	5000	200	pass		Tetrahydrofuran	< LOQ	720	100	pass		
Toluene	< LOQ	890	100	pass		Total Xylenes	< LOQ		400			
Total Xylenes and Ethyl	< LOQ	2170	600	pass								

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Pesticides											
Method AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 2004947 Analyze 06/14/20 09:14 AM											
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin	< LOQ	0.50	0.250	pass		Acephate	< LOQ	0.40	0.250	pass	
Acequinocyl	< LOQ	2.0	1.00	pass		Acetamiprid	< LOQ	0.20	0.100	pass	
Aldicarb	< LOQ	0.40	0.200	pass		Azoxystrobin	< LOQ	0.20	0.100	pass	
Bifenazate	< LOQ	0.20	0.100	pass		Bifenthrin	< LOQ	0.20	0.100	pass	
Boscalid	< LOQ	0.40	0.200	pass		Carbaryl	< LOQ	0.20	0.100	pass	
Carbofuran	< LOQ	0.20	0.100	pass		Chlorantraniliprole	< LOQ	0.20	0.100	pass	
Chlorfenapyr	< LOQ	1.0	0.500	pass		Chlorpyrifos	< LOQ	0.20	0.100	pass	
Clofentezine	< LOQ	0.20	0.100	pass		Cyfluthrin	< LOQ	1.0	0.500	pass	
Cypermethrin	< LOQ	1.0	0.500	pass		Daminozide	< LOQ	1.0	0.500	pass	
Diazinon	< LOQ	0.20	0.100	pass		Dichlorvos	< LOQ	1.0	0.500	pass	
Dimethoate	< LOQ	0.20	0.100	pass		Ethoprophos	< LOQ	0.20	0.100	pass	
Etofenprox	< LOQ	0.40	0.200	pass		Etoxazole	< LOQ	0.20	0.100	pass	
Fenoxycarb	< LOQ	0.20	0.100	pass		Fenpyroximate	< LOQ	0.40	0.200	pass	
Fipronil	< LOQ	0.40	0.200	pass		Fonicamid	< LOQ	1.0	0.400	pass	
Fludioxonil	< LOQ	0.40	0.200	pass		Hexythiazox	< LOQ	1.0	0.400	pass	
Imazalil	< LOQ	0.20	0.100	pass		Imidacloprid	< LOQ	0.40	0.200	pass	
Kresoxim-methyl	< LOQ	0.40	0.200	pass		Malathion	< LOQ	0.20	0.100	pass	
Metalaxyl	< LOQ	0.20	0.100	pass		Methiocarb	< LOQ	0.20	0.100	pass	
Methomyl	< LOQ	0.40	0.200	pass		MGK-264	< LOQ	0.20	0.100	pass	
Myclobutanil	< LOQ	0.20	0.100	pass		Naled	< LOQ	0.50	0.250	pass	
Oxamyl	< LOQ	1.0	0.500	pass		Paclobutrazole	< LOQ	0.40	0.200	pass	
Parathion-Methyl	< LOQ	0.20	0.200	pass		Permethrin	< LOQ	0.20	0.100	pass	
Phosmet	< LOQ	0.20	0.100	pass		Piperonyl butoxide	< LOQ	2.0	1.00	pass	
Prallethrin	< LOQ	0.20	0.200	pass		Propiconazole	< LOQ	0.40	0.200	pass	
Propoxur	< LOQ	0.20	0.100	pass		Pyrethrin I (total)	< LOQ	1.0	0.500	pass	
Pyridaben	< LOQ	0.20	0.100	pass		Spinosad	< LOQ	0.20	0.100	pass	
Spiromesifen	< LOQ	0.20	0.100	pass		Spirotetramat	< LOQ	0.20	0.100	pass	
Spiroxamine	< LOQ	0.40	0.200	pass		Tebuconazole	< LOQ	0.40	0.200	pass	
Thiacloprid	< LOQ	0.20	0.100	pass		Thiamethoxam	< LOQ	0.20	0.100	pass	
Trifloxystrobin	< LOQ	0.20	0.100	pass							

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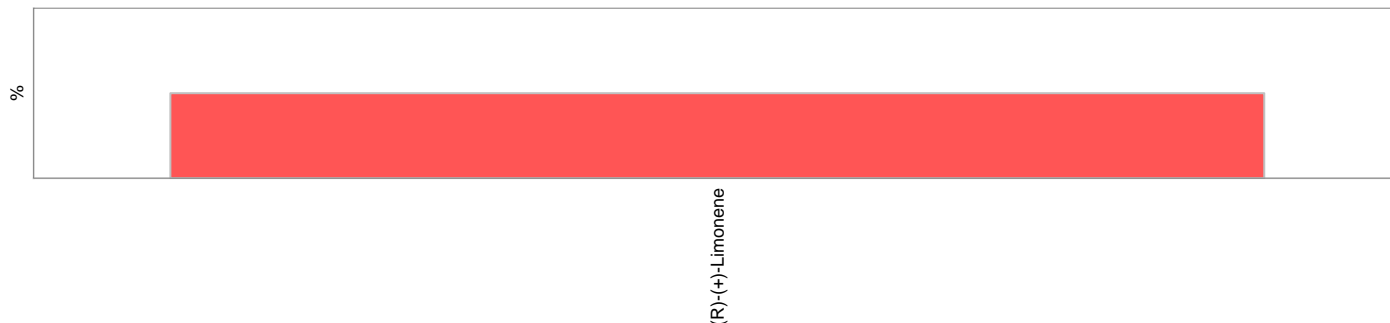


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Received: 05/29/20 14:30



Terpenes				Method J AOAC 2015 V98-6	Units %	Batch 2004906	Analyze 06/12/20 08:22 AM		
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
(R)-(+)-Limonene [†]	0.128	0.020	100.00%		(-)-a-Terpineol [†]	< LOQ	0.020	0.00%	
(-)-caryophyllene oxide [†]	< LOQ	0.020	0.00%		(-)-Guaiol [†]	< LOQ	0.020	0.00%	
(-)-Isopulegol [†]	< LOQ	0.020	0.00%		(-)-β-Pinene [†]	< LOQ	0.020	0.00%	
(+)-Borneol [†]	< LOQ	0.020	0.00%		(+)-Cedrol [†]	< LOQ	0.020	0.00%	
(+)-fenchol [†]	< LOQ	0.020	0.00%		(+)-Pulegone [†]	< LOQ	0.020	0.00%	
(±)-Camphor [†]	< LOQ	0.020	0.00%		(±)-cis-Nerolidol [†]	< LOQ	0.020	0.00%	
(±)-fenchone [†]	< LOQ	0.020	0.00%		(±)-trans-Nerolidol [†]	< LOQ	0.020	0.00%	
a-Bisabolol [†]	< LOQ	0.020	0.00%		a-cedrene [†]	< LOQ	0.020	0.00%	
a-phellandrene [†]	< LOQ	0.020	0.00%		a-pinene [†]	< LOQ	0.020	0.00%	
a-Terpinene [†]	< LOQ	0.020	0.00%		Camphene [†]	< LOQ	0.020	0.00%	
cis-β-Ocimene [†]	< LOQ	0.006	0.00%		d-3-Carene [†]	< LOQ	0.020	0.00%	
Eucalyptol [†]	< LOQ	0.020	0.00%		farnesene [†]	< LOQ	0.020	0.00%	
gamma-Terpinene [†]	< LOQ	0.020	0.00%		Geraniol [†]	< LOQ	0.020	0.00%	
Geranyl acetate [†]	< LOQ	0.020	0.00%		Humulene [†]	< LOQ	0.020	0.00%	
Isoborneol [†]	< LOQ	0.020	0.00%		Linalool [†]	< LOQ	0.020	0.00%	
Menthol [†]	< LOQ	0.020	0.00%		nerol [†]	< LOQ	0.020	0.00%	
p-Cymene [†]	< LOQ	0.020	0.00%		Sabinene [†]	< LOQ	0.020	0.00%	
Sabinene hydrate [†]	< LOQ	0.020	0.00%		β-Caryophyllene [†]	< LOQ	0.020	0.00%	
β-Myrcene [†]	< LOQ	0.020	0.00%		Terpinolene [†]	< LOQ	0.020	0.00%	
trans-β-Ocimene [†]	< LOQ	0.013	0.00%		valencene [†]	< 0.0200	0.020	0.00%	
Total Terpenes	0.128								



Metals									
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes	
Arsenic	< LOQ		mg/kg	0.0372	2004956	06/12/20	AOAC 2013.06 (mod.)	X	
Cadmium	< LOQ		mg/kg	0.0372	2004956	06/12/20	AOAC 2013.06 (mod.)	X	
Lead	< LOQ		mg/kg	0.0372	2004956	06/12/20	AOAC 2013.06 (mod.)	X	
Mercury	< LOQ		mg/kg	0.0186	2004956	06/12/20	AOAC 2013.06 (mod.)	X	

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Received: 05/29/20 14:30

Customer: Etz Hayim Holdings
Product identity: BOTN - CE114
Client/Metric ID: .
Laboratory ID: 20-005513-0002

Summary

Microbiology:

Less than LOQ for all analytes.



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Product identity: BOTN - CE114

Client/Metric ID: .

Sample Date:

Laboratory ID: 20-005513-0002

Evidence of Cooling: No

Temp: 28 °C

Relinquished by: Michael Mackay

Sample Results

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
E.coli	< LOQ		cfu/g	10	2004908	06/14/20	AOAC 991.14 (Petrifilm)	X
Total Coliforms	< LOQ		cfu/g	10	2004908	06/14/20	AOAC 991.14 (Petrifilm)	X
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2004910	06/14/20	AOAC 2014.05 (RAPID)	X
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2004910	06/14/20	AOAC 2014.05 (RAPID)	X