



CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

HPTN	CEO1(A)	NR: Not Reported NA: Not Available
HIGH POTENCY 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)	51.2 mg/serving	55.05 mg/g	N/A
Total THC (d9-THC + d8-THC)	2.13 mg/serving	2.29 mg/g	3 mg/g
Cannabigerol (CBG)	1.43 mg/serving	1.54 mg/g	N/A
Cannabinol (CBN)	<LOQ mg/serving	<LOQ mg/g	N/A
Cannabichromene (CBC)	2.12 mg/serving	2.28 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	0.042 µg/serving	0.045 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

TERPENES	% OF SAMPLE
Farnesene	0.0633%
β-Caryophyllene	0.0768%
α-Bisabolol	0.0347%

TERPENES	% OF SAMPLE
Guaiol	0.0268%
Humulene	0.0325%
Caryophyllene Oxide	0.0218%

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: 20-004580/D02.R00
Report Date: 05/06/2020
ORELAP#: OR100028
Purchase Order:
Received: 05/04/20 15:50

Customer: Etz Hayim Holdings
Product identity: HPTN CE01(A)
Client/Metric ID: FORM-0504-CEO1
Laboratory ID: 20-004580-0001

Sample Date: 05/04/20 13:00

Summary

Potency:

Analyte per 1ml	Result	Limits	Units	Status	
CBC per 1ml	2.12		mg/1ml		CBD-Total per 1ml 51.2 mg/1ml
CBD per 1ml	51.2		mg/1ml		
CBDV per 1ml	0.541		mg/1ml		THC-Total per 1ml 2.13 mg/1ml
CBG per 1ml	1.43		mg/1ml		(Reported in milligrams per serving)
CBL per 1ml	0.0545		mg/1ml		
CBN per 1ml	0.0555		mg/1ml		
Δ 9-THC per 1ml	2.13		mg/1ml		
THCV per 1ml	0.0902		mg/1ml		



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Customer: Etz Hayim Holdings

Product identity: HPTN CE01(A)
Client/Metric ID: FORM-0504-CEO1
Sample Date: 05/04/20 13:00
Laboratory ID: 20-004580-0001
Relinquished by: Michael Mackay
Temp: 19.7 °C

Sample Results

Potency per 1ml	Method J AOAC 2015 V98-6 (mod)	Batch: 2003832	Analyze: 1/1/70 12:00:00 AM		
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1ml	2.12		mg/1ml	0.0301	
CBC-A per 1ml	< LOQ		mg/1ml	0.0301	
CBC-Total per 1ml	2.12		mg/1ml	0.0565	
CBD per 1ml	51.2		mg/1ml	0.301	
CBD-A per 1ml	< LOQ		mg/1ml	0.0301	
CBD-Total per 1ml	51.2		mg/1ml	0.327	
CBDV per 1ml	0.541		mg/1ml	0.0301	
CBDV-A per 1ml	< LOQ		mg/1ml	0.0301	
CBDV-Total per 1ml	0.541		mg/1ml	0.0562	
CBG per 1ml	1.43		mg/1ml	0.0301	
CBG-A per 1ml	< LOQ		mg/1ml	0.0301	
CBG-Total per 1ml	1.43		mg/1ml	0.0562	
CBL per 1ml	0.0545		mg/1ml	0.0301	
CBN per 1ml	0.0555		mg/1ml	0.0301	
Δ8-THC per 1ml	< LOQ		mg/1ml	0.0301	
Δ9-THC per 1ml	2.13		mg/1ml	0.0301	
THC-A per 1ml	< LOQ		mg/1ml	0.0301	
THC-Total per 1ml	2.13		mg/1ml	0.0565	
THCV per 1ml	0.0902		mg/1ml	0.0301	
THCV-A per 1ml	< LOQ		mg/1ml	0.0301	
THCV-Total per 1ml	0.0902		mg/1ml	0.0565	
Total Cannabinoids 1ml[†]	57.7		mg/1ml		

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Density	0.930		g/ml			05/05/20	Client Provided	

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Report Number: 20-004580/D03.R00
Report Date: 05/12/2020
ORELAP#: OR100028
Purchase Order:
Received: 05/04/20 15:50

Customer: Etz Hayim Holdings
Product identity: HPTN CE01(A)
Client/Metric ID: FORM-0504-CEO1
Laboratory ID: 20-004580-0002

Sample Date: 05/04/20 13:00

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
β-Caryophyllene†	0.0768	30.00%	farnesene†	0.0633	24.73%
α-Bisabolol†	0.0347	13.55%	Humulene†	0.0325	12.70%
(-)-Guaiol†	0.0268	10.47%	(-)-caryophyllene oxide†	0.0218	8.52%
Total Terpenes†	0.256	100.00%			

Metals:

Analyte	Result	Limits
Lead	0.0450	

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Customer: Etz Hayim Holdings

Product identity: HPTN CE01(A)
Client/Metric ID: FORM-0504-CEO1
Sample Date: 05/04/20 13:00
Laboratory ID: 20-004580-0002
Relinquished by: Michael Mackay
Temp: 19.7 °C

Sample Results

Solvents		Method EPA5021A				Units µg/g	Batch 2003890	Analyze 05/08/20 07:45 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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Report Date: 05/12/2020
ORELAP#: OR100028
Purchase Order:
Received: 05/04/20 15:50

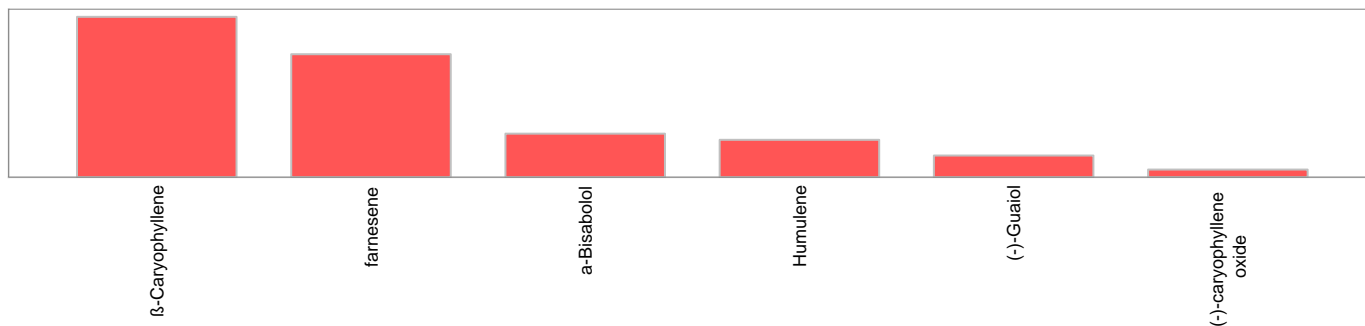


Pesticides											
Method AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 2003926 Analyze 05/10/20 09:24 AM											
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin	< LOQ	0.50	0.250	pass		Acephate	< LOQ	0.40	0.250	pass	
Acequinocyl	< LOQ	2.0	1.00	pass		Acetamiprid	< 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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Terpenes				Method J AOAC 2015 V98-6	Units %	Batch 2003892	Analyze 05/08/20 08:15 AM		
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
β-Caryophyllene†	0.0768	0.020	30.00%		farnesene†	0.0633	0.020	24.73%	
α-Bisabolol†	0.0347	0.020	13.55%		Humulene†	0.0325	0.020	12.70%	
(-)-Guaïol†	0.0268	0.020	10.47%		(-)-caryophyllene oxide†	0.0218	0.020	8.52%	
(-)-α-Terpineol†	< 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%		(R)-(+)-Limonene†	< LOQ	0.020	0.00%	
α-cedrene†	< LOQ	0.020	0.00%		α-phellandrene†	< LOQ	0.020	0.00%	
α-pinene†	< LOQ	0.020	0.00%		α-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%	
γ-Terpinene†	< LOQ	0.020	0.00%		Geraniol†	< LOQ	0.020	0.00%	
Geranyl acetate†	< 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-Myrcene†	< LOQ	0.020	0.00%		Terpinolene†	< LOQ	0.020	0.00%	
trans-β-Ocimene†	< LOQ	0.013	0.00%		valencene†	< LOQ	0.020	0.00%	
Total Terpenes	0.256								



Metals									
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes	
Arsenic	< LOQ		mg/kg	0.0444	2003969	05/08/20	AOAC 2013.06 (mod.)	X	
Cadmium	< LOQ		mg/kg	0.0444	2003969	05/08/20	AOAC 2013.06 (mod.)	X	
Lead	0.0450		mg/kg	0.0444	2003969	05/08/20	AOAC 2013.06 (mod.)	X	
Mercury	< LOQ		mg/kg	0.0222	2003969	05/08/20	AOAC 2013.06 (mod.)	X	



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Purchase Order:
Received: 05/04/20 15:50

Customer: Etz Hayim Holdings
Product identity: HPTN CE01(A)
Client/Metric ID: FORM-0504-CEO1
Laboratory ID: 20-004580-0003

Sample Date: 05/04/20 13:00

Summary

Microbiology:

Less than LOQ for all analytes.



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Report Number: 20-004580/D04.R00
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Purchase Order:
Received: 05/04/20 15:50

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Client/Metric ID: FORM-0504-CEO1
Sample Date: 05/04/20 13:00
Laboratory ID: 20-004580-0003
Relinquished by: Michael Mackay
Temp: 19.7 °C

Sample Results

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
E.coli	< LOQ		cfu/g	10	2003852	05/09/20	AOAC 991.14 (Petrifilm)	X
Total Coliforms	< LOQ		cfu/g	10	2003852	05/09/20	AOAC 991.14 (Petrifilm)	X
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2003853	05/09/20	AOAC 2014.05 (RAPID)	X
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2003853	05/09/20	AOAC 2014.05 (RAPID)	X