



CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

HPTN.CM	CD31	NR: Not Reported NA: Not Available
HIGH POTENCY CHOCOLATE MINT TINCTURE	SERVING SIZE: 1 ML	LOQ: Limit Of Quantitation LOD: Limit Of Detection
LABORATORY: COLUMBIA LABORATORIES	OREGON ACCREDITATION: OR100028	1 g = 10⁻³ kg = 10³ mg = 10⁶ µg 1 mg/kg = 1 ppm = 1000 ppb

POTENCY	PER SERVING	PER GRAM	REGULATORY ACTION LEVEL
Cannabidiol (CBD)	50 mg/serving	52.91 mg/g	N/A
Total THC (d9-THC + d8-THC)	1.79 mg/serving	1.89 mg/g	3 mg/g
Cannabigerol (CBG)	0.735 mg/serving	0.78 mg/g	N/A
Cannabinol (CBN)	0.035 mg/serving	0.04 mg/g	N/A
Cannabichromene (CBC)	2.54 mg/serving	2.69 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

TERPENES	% OF SAMPLE
Farnesene	0.0543%
β-Caryophyllene	0.0937%
α-Bisabolol	0.0233%

TERPENES	% OF SAMPLE
Guaiol	0.0376%
Humulene	0.0379%
Caryophyllene Oxide	0.0310%

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: 20-003935/D02.R00
Report Date: 04/20/2020
ORELAP#: OR100028
Purchase Order:
Received: 04/13/20 16:05

Customer: Etz Hayim Holdings
Product identity: HPTN.CM-CD31
Client/Metric ID: FORM-0410-CD31
Laboratory ID: 20-003935-0001

Summary

Potency:

Analyte per 1ml	Result	Limits	Units	Status	
					CBD-Total per 1ml 50.0 mg/1ml
CBC per 1ml	2.54		mg/1ml		
CBD per 1ml	50.0		mg/1ml		
CBDV per 1ml	0.322		mg/1ml		THC-Total per 1ml 1.79 mg/1ml
CBG per 1ml	0.735		mg/1ml		(Reported in milligrams per serving)
CBL per 1ml	0.108		mg/1ml		
CBN per 1ml	0.0345		mg/1ml		
Δ9-THC per 1ml	1.79		mg/1ml		



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Product identity: HPTN.CM-CD31
Client/Metric ID: FORM-0410-CD31
Sample Date:
Laboratory ID: 20-003935-0001
Relinquished by: Michael MacKay
Temp: 26.7 °C

Sample Results

Potency per 1ml		Method J AOAC 2015 V98-6 (mod)		Batch: 2003274		Analyze: 1/1/70 12:00:00 AM	
Analyte	Result	Limits	Units	LOQ	Notes		
CBC per 1ml	2.54		mg/1ml	0.0302			
CBC-A per 1ml	< LOQ		mg/1ml	0.0302			
CBC-Total per 1ml	2.54		mg/1ml	0.0567			
CBD per 1ml	50.0		mg/1ml	0.302			
CBD-A per 1ml	< LOQ		mg/1ml	0.0302			
CBD-Total per 1ml	50.0		mg/1ml	0.328			
CBDV per 1ml	0.322		mg/1ml	0.0302			
CBDV-A per 1ml	< LOQ		mg/1ml	0.0302			
CBDV-Total per 1ml	0.322		mg/1ml	0.0564			
CBG per 1ml	0.735		mg/1ml	0.0302			
CBG-A per 1ml	< LOQ		mg/1ml	0.0302			
CBG-Total per 1ml	0.735		mg/1ml	0.0564			
CBL per 1ml	0.108		mg/1ml	0.0302			
CBN per 1ml	0.0345		mg/1ml	0.0302			
Δ8-THC per 1ml	< LOQ		mg/1ml	0.0302			
Δ9-THC per 1ml	1.79		mg/1ml	0.0302			
THC-A per 1ml	< LOQ		mg/1ml	0.0302			
THC-Total per 1ml	1.79		mg/1ml	0.0567			
THCV per 1ml	< LOQ		mg/1ml	0.0302			
THCV-A per 1ml	< LOQ		mg/1ml	0.0302			
THCV-Total per 1ml	< LOQ		mg/1ml	0.0567			
Total Cannabinoids 1ml[†]	55.5		mg/1ml				

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Density	0.945		g/ml			04/14/20	Client Provided	

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Received: 04/13/20 16:05

Customer: Etz Hayim Holdings
Product identity: HPTN.CM-CD31
Client/Metric ID: FORM-0410-CD31
Laboratory ID: 20-003935-0003

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
β-Caryophyllene†	0.0937	33.71%	farnesene†	0.0543	19.53%
Humulene†	0.0379	13.63%	Menthol†	0.0376	13.53%
(-)-caryophyllene oxide†	0.0310	11.15%	α-Bisabolol†	0.0233	8.38%
Total Terpenes†	0.278	100.00%			

Metals:

Less than LOQ for all analytes.

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Product identity: HPTN.CM-CD31
Client/Metric ID: FORM-0410-CD31
Sample Date:
Laboratory ID: 20-003935-0003
Relinquished by: Michael MacKay
Temp: 26.7 °C

Sample Results

Solvents		Method EPA5021A				Units µg/g	Batch 2003416	Analyze 04/22/20 07:55 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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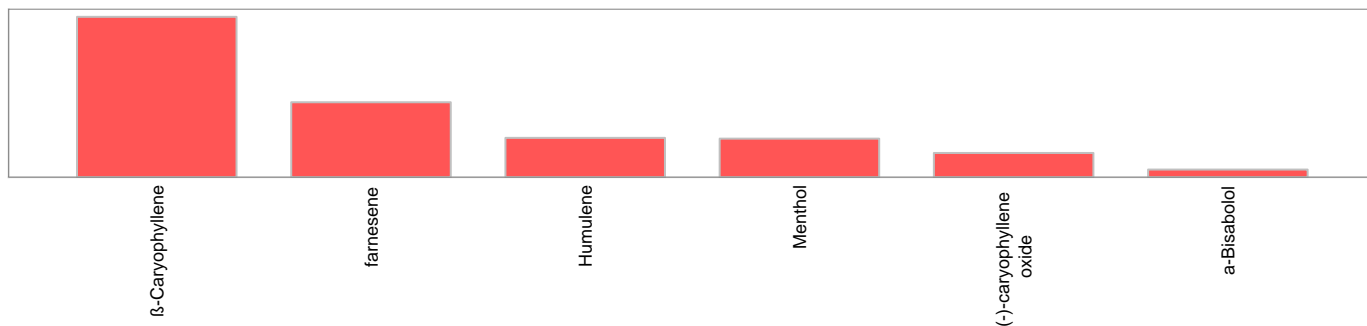


Pesticides											
Method AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 2003477 Analyze 04/23/20 01:04 PM											
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin	< LOQ	0.50	0.250	pass		Acephate	< LOQ	0.40	0.250	pass	
Acequinocyl	< LOQ	2.0	1.00	pass		Acetamiprid	< 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 2003457	Analyze 04/23/20 07:54 AM		
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
β-Caryophyllene†	0.0937	0.020	33.71%		farnesene†	0.0543	0.020	19.53%	
Humulene†	0.0379	0.020	13.63%		Menthol†	0.0376	0.020	13.53%	
(-)-caryophyllene oxide†	0.0310	0.020	11.15%		α-Bisabolol†	0.0233	0.020	8.38%	
(-)-α-Terpineol†	< 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%	
(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%	
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	0.278								



Metals									
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes	
Arsenic	< LOQ		mg/kg	0.0476	2003446	04/22/20	AOAC 2013.06 (mod.)	X	
Cadmium	< LOQ		mg/kg	0.0476	2003446	04/22/20	AOAC 2013.06 (mod.)	X	
Lead	< LOQ		mg/kg	0.0476	2003446	04/22/20	AOAC 2013.06 (mod.)	X	
Mercury	< LOQ		mg/kg	0.0238	2003446	04/22/20	AOAC 2013.06 (mod.)	X	



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Product identity: HPTN.CM-CD31
Client/Metric ID: FORM-0410-CD31
Laboratory ID: 20-003935-0002

Summary

Microbiology:

Less than LOQ for all analytes.



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Temp: 26.7 °C

Sample Results

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
E.coli	< LOQ		cfu/g	10	2003414	04/24/20	AOAC 991.14 (Petrifilm)	X
Total Coliforms	< LOQ		cfu/g	10	2003414	04/24/20	AOAC 991.14 (Petrifilm)	X
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2003409	04/24/20	AOAC 2014.05 (RAPID)	X
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2003409	04/24/20	AOAC 2014.05 (RAPID)	X