



HPTN BK08		NR: Not Reported NA: Not Available LOQ: Limit Of Quantitation LOD: Limit Of Detection $1\text{ g} = 10^3\text{ kg} = 10^3\text{ mg} = 10^6\text{ }\mu\text{g}$ $1\text{ mg/kg} = 1\text{ ppm} = 1000\text{ ppb}$
HIGH POTENCY TINCTURE	Serving Size: 1 ml	
Pixis Labs	Oregon Accreditation: OR100028	

POTENCY	PER SERVING	PER GRAM	REGULATORY ACTION LEVEL
Cannabidiol (CBD)	54.5 mg/serving	58.63 mg/g	N/A
Total THC (d9-THC + d8-THC)	2.03 mg/serving	2.03 mg/g	3 mg/g
Cannabigerol (CBG)	1.34 mg/serving	1.44 mg/g	N/A
Cannabinol (CBN)	0.11 mg/serving	0.12 mg/g	N/A
Cannabichromene (CBC)	2.38 mg/serving	2.56 mg/g	N/A

HEAVY METALS	PER SERVING	PER GRAM	REGULATORY ACTION LEVEL
Arsenic	<LOQ $\mu\text{g/serving}$	<LOQ $\mu\text{g/g}$	10 $\mu\text{g/day}^{[1]}$
Cadmium	<LOQ $\mu\text{g/serving}$	<LOQ $\mu\text{g/g}$	4.1 $\mu\text{g/day}^{[1]}$
Lead	<LOQ $\mu\text{g/serving}$	<LOQ $\mu\text{g/g}$	3.5 $\mu\text{g/day}^{[2]}$
Mercury	<LOQ $\mu\text{g/serving}$	<LOQ $\mu\text{g/g}$	2 $\mu\text{g/day}^{[1]}$

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

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

TERPENES	% OF SAMPLE
Farnesene	0.1000%
β -Caryophyllene	0.0659%
α -Bisabolol	0.0273%

TERPENES	% OF SAMPLE
Guaiol	0.0341%
Humulene	0.0273%
Caryophyllene Oxide	0.0201%

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.



Customer: Etz Hayim Holdings
Product identity: BK08 HPTN Top
Client/Metric ID: .
Laboratory ID: 19-013678-0001

Sample Date: 11/07/19 14:00

Summary

Potency:

Analyte per 1ml	Result	Limits	Units	Status		
					CBD-Total per 1ml	54.5 mg/1ml
CBC per 1ml [†]	2.38		mg/1ml			
CBD per 1ml	54.5		mg/1ml		THC-Total per 1ml	2.03 mg/1ml
CBD-A per 1ml	0.0419		mg/1ml			
CBDV per 1ml [†]	0.329		mg/1ml			
CBG per 1ml [†]	1.34		mg/1ml			
CBL per 1ml [†]	0.0692		mg/1ml			
CBN per 1ml	0.112		mg/1ml			
Δ9-THC per 1ml	2.03		mg/1ml			



Customer: Etz Hayim Holdings

Product identity: BK08 HPTN Top
Client/Metric ID: .
Sample Date: 11/07/19 14:00
Laboratory ID: 19-013678-0001
Relinquished by: ETZHH INC
Temp: 22.3 °C
Serving Size #1: 0.93 g

Sample Results

Potency per 1ml		Batch: 1910418					
Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBC- Δ^8 -THC	2.38		mg/F	0.0310	11/15/19	J AOAC 2015 V98-6	
CBC- Δ^9 -THC	< LOQ		mg/F	0.0310	11/15/19	J AOAC 2015 V98-6	
CBC-Total THC	2.38		mg/F	0.0582	11/15/19	J AOAC 2015 V98-6	
CBD	54.5		mg/F	0.0310	11/15/19	J AOAC 2015 V98-6	
CBD- Δ^8 -THC	0.0419		mg/F	0.0310	11/15/19	J AOAC 2015 V98-6	
CBD-Total THC	54.5		mg/F	0.0582	11/15/19	J AOAC 2015 V98-6	
CBDV	0.329		mg/F	0.0310	11/15/19	J AOAC 2015 V98-6	
CBDV- Δ^8 -THC	< LOQ		mg/F	0.0310	11/15/19	J AOAC 2015 V98-6	
CBDV-Total THC	0.329		mg/F	0.0578	11/15/19	J AOAC 2015 V98-6	
CBG	1.34		mg/F	0.0310	11/15/19	J AOAC 2015 V98-6	
CBG- Δ^8 -THC	< LOQ		mg/F	0.0310	11/15/19	J AOAC 2015 V98-6	
CBG-Total THC	1.34		mg/F	0.0582	11/15/19	J AOAC 2015 V98-6	
CBL	0.0692		mg/F	0.0310	11/15/19	J AOAC 2015 V98-6	
CBN	0.112		mg/F	0.0310	11/15/19	J AOAC 2015 V98-6	
Δ^8 -THC	< LOQ		mg/F	0.0310	11/15/19	J AOAC 2015 V98-6	
Δ^9 -THC	2.03		mg/F	0.0310	11/15/19	J AOAC 2015 V98-6	
THC- Δ^8 -THC	< LOQ		mg/F	0.0310	11/15/19	J AOAC 2015 V98-6	
THC-Total THC	2.03		mg/F	0.0582	11/15/19	J AOAC 2015 V98-6	
THCV	< LOQ		mg/F	0.0310	11/15/19	J AOAC 2015 V98-6	
THCV- Δ^8 -THC	< LOQ		mg/F	0.0310	11/15/19	J AOAC 2015 V98-6	
THCV-Total THC	< LOQ		mg/F	0.0578	11/15/19	J AOAC 2015 V98-6	



Customer: Etz Hayim Holdings
Product identity: BK08 HPTN
Client/Metric ID: .
Laboratory ID: 19-013678-0008

Sample Date: 11/07/19 14:00

Summary

Metals:

Less than LOQ for all analytes.



Customer: Etz Hayim Holdings

Product identity: BK08 HPTN
Client/Metric ID: .
Sample Date: 11/07/19 14:00
Laboratory ID: 19-013678-0008
Relinquished by: ETZHH INC
Temp: 22.3 °C

Sample Results

Metals								
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Arsenic	< LOQ		mg/kg	0.0457	1910609	11/20/19	AOAC 2013.06 (mod.)	X
Cadmium	< LOQ		mg/kg	0.0457	1910609	11/20/19	AOAC 2013.06 (mod.)	X
Lead	< LOQ		mg/kg	0.0457	1910609	11/20/19	AOAC 2013.06 (mod.)	X
Mercury	< LOQ		mg/kg	0.0229	1910609	11/20/19	AOAC 2013.06 (mod.)	X



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



Report Number: 19-013678/D05.R00
Report Date: 11/22/2019
ORELAP#: OR100028
Purchase Order:
Received: 11/08/19 16:40

Customer: Etz Hayim Holdings
Product identity: BK08 HPTN
Client/Metric ID: .
Laboratory ID: 19-013678-0004

Sample Date: 11/07/19 14:00

Summary

Pesticides:

All analytes passing and less than LOQ.



Customer: Etz Hayim Holdings

Product identity: BK08 HPTN
Client/Metric ID: .
Sample Date: 11/07/19 14:00
Laboratory ID: 19-013678-0004
Relinquished by: ETZHH INC
Temp: 22.3 °C

Sample Results

Pesticides **Method** AOAC 2007.01 & EN 15662 (mod) **Units** mg/kg **Batch** 1910570 **Analyze** 11/20/19 08:34 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							

Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Pixis quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.



Customer: Etz Hayim Holdings
Product identity: BK08 HPTN
Client/Metric ID: .
Laboratory ID: 19-013678-0009

Sample Date: 11/07/19 14:00

Summary

Residual Solvents:

All analytes passing and less than LOQ.



Customer: Etz Hayim Holdings

Product identity: BK08 HPTN
Client/Metric ID: .
Sample Date: 11/07/19 14:00
Laboratory ID: 19-013678-0009
Relinquished by: ETZHH INC
Temp: 22.3 °C

Sample Results

Solvents		Method EPA5021A				Units µg/g	Batch 1910721	Analyze 11/22/19 02:25 PM			
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		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	



Customer: Etz Hayim Holdings
Product identity: BK08 HPTN
Client/Metric ID: .
Laboratory ID: 19-013678-0005

Sample Date: 11/07/19 14:00

Summary

Terpenes:

Analyte	Percent by weight	Percent of Total	Analyte	Percent by weight	Percent of Total
farnesene†	0.100	32.57%	β-Caryophyllene†	0.0659	21.47%
α-Bisabolol†	0.0595	19.38%	(-)-Guaiol†	0.0341	11.11%
Humulene†	0.0273	8.89%	(-)-caryophyllene oxide†	0.0201	6.55%
Total Terpenes†	0.307	100.00%			



Terpenes				Method J AOAC 2015 V98-6	Units %	Batch 1910600	Analyze 11/20/19 02:58 PM		
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
farnesene [†]	0.100	0.020	32.57%		β-Caryophyllene [†]	0.0659	0.020	21.47%	
α-Bisabolol [†]	0.0595	0.020	19.38%		(-)-Guaial [†]	0.0341	0.020	11.11%	
Humulene [†]	0.0273	0.020	8.89%		(-)-caryophyllene oxide [†]	0.0201	0.020	6.55%	
(±)-trans-Nerolidol [†]	< LOQ	0.020	0.00%		(-)-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%		(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	0.307								



