



CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

SPTN	CA64(A)	NR: Not Reported NA: Not Available
STANDARD 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)	16.2 mg/serving	17.7 mg/g	N/A
Total THC (d9-THC + d8-THC)	0.586 mg/serving	0.62 mg/g	3 mg/g
Cannabigerol (CBG)	0.312 mg/serving	0.33 mg/g	N/A
Cannabinol (CBN)	<LOQ mg/serving	<LOQ mg/g	N/A
Cannabichromene (CBC)	0.981 mg/serving	1.04 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	0.0359%
β-Caryophyllene	0.0328%

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: 20-001542/D02.R01
Report Date: 02/13/2020
ORELAP#: OR100028
Purchase Order:
Received: 02/07/20 16:37

This is an amended version of report# 20-001542/D02.R00.
Reason: Corrected Product Identity.

Customer: Etz Hayim Holdings
Product identity: CA64(A) SPTN
Client/Metric ID: .
Laboratory ID: 20-001542-0001

Sample Date: 02/07/20 13:30

Summary

Potency:

Analyte per 1ml	Result	Limits	Units	Status		
					CBD-Total per 1ml	16.3 mg/1ml
CBC per 1ml [†]	0.981		mg/1ml			
CBD per 1ml	16.2		mg/1ml		THC-Total per 1ml	0.586 mg/1ml
CBD-A per 1ml	0.0531		mg/1ml			
CBDV per 1ml [†]	0.0819		mg/1ml			
CBG per 1ml [†]	0.312		mg/1ml			
Δ9-THC per 1ml	0.586		mg/1ml			

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Customer: Etz Hayim Holdings

Product identity: CA64(A) SPTN
Client/Metric ID: .
Sample Date: 02/07/20 13:30
Laboratory ID: 20-001542-0001
Temp: 20.4 °C
Relinquished by: Etz Hayim - see COC
Serving Size #1: 0.943 g

Sample Results

Potency per 1ml		Batch: 2001294					
Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBC per 1ml†	0.981		mg/1ml	0.0314	02/11/20	J AOAC 2015 V98-6	
CBC-A per 1ml†	< LOQ		mg/1ml	0.0314	02/11/20	J AOAC 2015 V98-6	
CBC-Total per 1ml†	0.981		mg/1ml	0.0591	02/11/20	J AOAC 2015 V98-6	
CBD per 1ml	16.2		mg/1ml	0.0314	02/11/20	J AOAC 2015 V98-6	
CBD-A per 1ml	0.0531		mg/1ml	0.0314	02/11/20	J AOAC 2015 V98-6	
CBD-Total per 1ml	16.3		mg/1ml	0.0591	02/11/20	J AOAC 2015 V98-6	
CBDV per 1ml†	0.0819		mg/1ml	0.0314	02/11/20	J AOAC 2015 V98-6	
CBDV-A per 1ml†	< LOQ		mg/1ml	0.0314	02/11/20	J AOAC 2015 V98-6	
CBDV-Total per 1ml†	0.0819		mg/1ml	0.0587	02/11/20	J AOAC 2015 V98-6	
CBG per 1ml†	0.312		mg/1ml	0.0314	02/11/20	J AOAC 2015 V98-6	
CBG-A per 1ml†	< LOQ		mg/1ml	0.0314	02/11/20	J AOAC 2015 V98-6	
CBG-Total per 1ml†	0.312		mg/1ml	0.0591	02/11/20	J AOAC 2015 V98-6	
CBL per 1ml†	< LOQ		mg/1ml	0.0314	02/11/20	J AOAC 2015 V98-6	
CBN per 1ml	< LOQ		mg/1ml	0.0314	02/11/20	J AOAC 2015 V98-6	
Δ8-THC per 1ml†	< LOQ		mg/1ml	0.0314	02/11/20	J AOAC 2015 V98-6	
Δ9-THC per 1ml	0.586		mg/1ml	0.0314	02/11/20	J AOAC 2015 V98-6	
THC-A per 1ml	< LOQ		mg/1ml	0.0314	02/11/20	J AOAC 2015 V98-6	
THC-Total per 1ml	0.586		mg/1ml	0.0591	02/11/20	J AOAC 2015 V98-6	
THCV per 1ml†	< LOQ		mg/1ml	0.0314	02/11/20	J AOAC 2015 V98-6	
THCV-A per 1ml†	< LOQ		mg/1ml	0.0314	02/11/20	J AOAC 2015 V98-6	
THCV-Total per 1ml†	< LOQ		mg/1ml	0.0587	02/11/20	J AOAC 2015 V98-6	

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



Report Number: 20-001542/D04.R00
Report Date: 02/20/2020
ORELAP#: OR100028
Purchase Order:
Received: 02/07/20 16:37

Customer: Etz Hayim Holdings
Product identity: CA64(A) SPTN
Client/Metric ID: .
Laboratory ID: 20-001542-0003

Sample Date: 02/07/20 13:30

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
farnesene†	0.0359	52.26%	β-Caryophyllene†	0.0328	47.74%
Total Terpenes†	0.0687	100.00%			

Metals:

Less than LOQ for all analytes.

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Customer: Etz Hayim Holdings
Product identity: CA64(A) SPTN
Client/Metric ID: .
Sample Date: 02/07/20 13:30
Laboratory ID: 20-001542-0003
Temp: 20.4 °C
Relinquished by: Etz Hayim - see COC

Sample Results

Solvents		Method EPA5021A				Units µg/g	Batch 2001559	Analyze 02/18/20 01:34 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	

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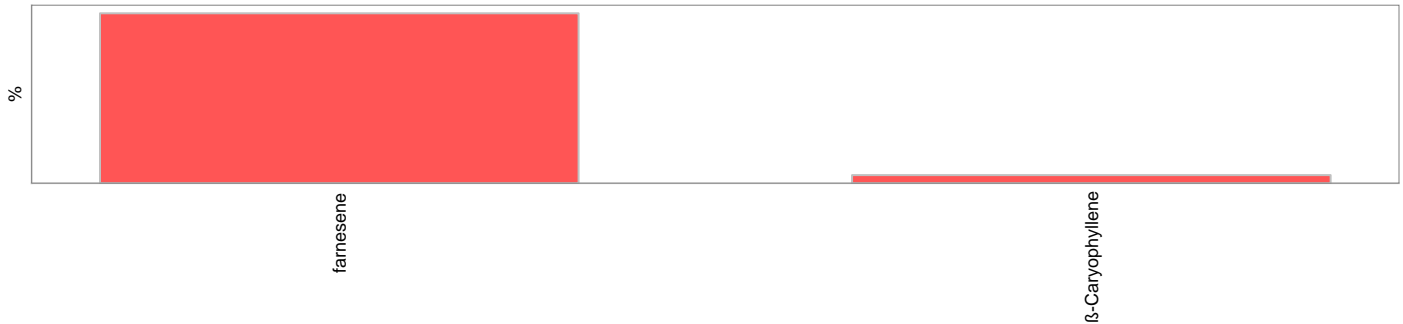
Pesticides Method AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 2001536 Analyze 02/18/20 08:47 AM

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							

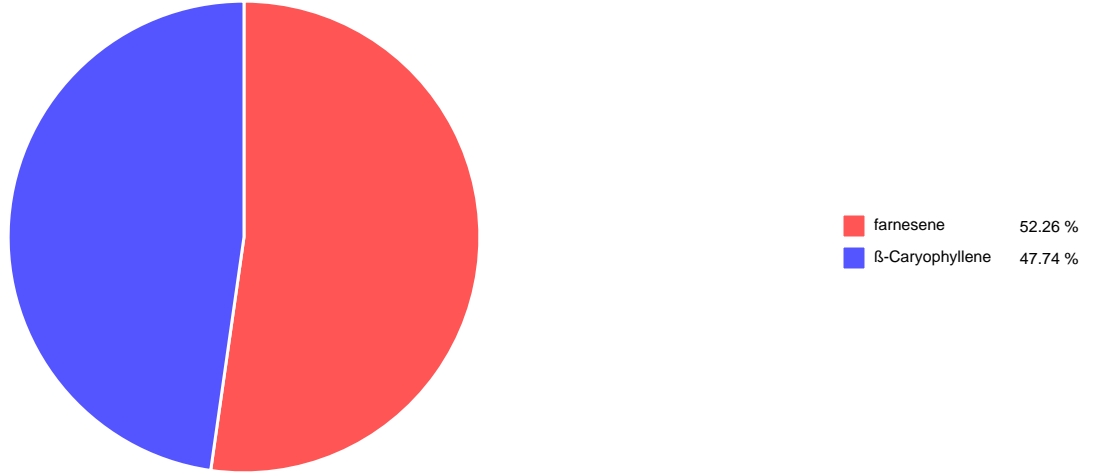
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Terpenes				Method J AOAC 2015 V98-6	Units %	Batch 2001539	Analyze 02/18/20 09:33 AM		
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
farnesene [†]	0.0359	0.020	52.26%		β-Caryophyllene [†]	0.0328	0.020	47.74%	
Humulene [†]	< LOQ	0.020	0.00%		(-)-α-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%	
(R)-(+)-Limonene [†]	< LOQ	0.020	0.00%		a-Bisabolol [†]	< 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	0.0687								



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Metals

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Arsenic	< LOQ		mg/kg	0.0440	2001615	02/19/20	AOAC 2013.06 (mod.)	X
Cadmium	< LOQ		mg/kg	0.0440	2001615	02/19/20	AOAC 2013.06 (mod.)	X
Lead	< LOQ		mg/kg	0.0440	2001615	02/19/20	AOAC 2013.06 (mod.)	X
Mercury	< LOQ		mg/kg	0.0220	2001615	02/19/20	AOAC 2013.06 (mod.)	X

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Portland, OR 97230
503-254-1794



Report Number: 20-001542/D03.R00
Report Date: 02/20/2020
ORELAP#: OR100028
Purchase Order:
Received: 02/07/20 16:37

Customer: Etz Hayim Holdings
Product identity: CA64(A) SPTN
Client/Metric ID: .
Laboratory ID: 20-001542-0002

Sample Date: 02/07/20 13:30

Summary

Microbiology:

Less than LOQ for all analytes.

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Customer: Etz Hayim Holdings

Product identity: CA64(A) SPTN
Client/Metric ID: .
Sample Date: 02/07/20 13:30
Laboratory ID: 20-001542-0002
Temp: 20.4 °C
Relinquished by: Etz Hayim - see COC

Sample Results

Microbiology								
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
E.coli	< LOQ		cfu/g	10	2001470	02/17/20	AOAC 991.14 (Petrifilm)	X
Total Coliforms	< LOQ		cfu/g	10	2001470	02/17/20	AOAC 991.14 (Petrifilm)	X
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2001472	02/17/20	AOAC 2014.05 (RAPID)	X
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2001472	02/17/20	AOAC 2014.05 (RAPID)	X

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