



## CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

<b>PETTN</b>	<b>CD57</b>	<b>NR: Not Reported</b> <b>NA: Not Available</b>
<b>PET TINCTURE</b>	<b>SERVING SIZE: 1 ML</b>	<b>LOQ: Limit Of Quantitation</b> <b>LOD: Limit Of Detection</b>
<b>LABORATORY: COLUMBIA LABORATORIES</b>	<b>OREGON ACCREDITATION: OR100028</b>	$1 \text{ g} = 10^{-3} \text{ kg} = 10^3 \text{ mg} = 10^6 \text{ }\mu\text{g}$ $1 \text{ mg/kg} = 1 \text{ ppm} = 1000 \text{ ppb}$

POTENCY	PER SERVING	PER GRAM	REGULATORY ACTION LEVEL
Cannabidiol (CBD)	20.8 mg/serving	22.06 mg/g	N/A
Total THC (d9-THC + d8-THC)	0.736 mg/serving	0.78 mg/g	3 mg/g
Cannabigerol (CBG)	0.283 mg/serving	0.30 mg/g	N/A
Cannabinol (CBN)	<LOQ mg/serving	<LOQ mg/g	N/A
Cannabichromene (CBC)	1.10 mg/serving	1.17 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 quantitation in the sample.	10 ppb <sup>[1]</sup>

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
$\beta$ -Caryophyllene	0.0435%

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:** 20-004162/D02.R00  
**Report Date:** 04/24/2020  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 04/21/20 16:00

**Customer:** Etz Hayim Holdings  
**Product identity:** PETTN-CD57  
**Client/Metric ID:** FORM-0417-CD57  
**Laboratory ID:** 20-004162-0001

### Summary

**Potency:**

Analyte per 1ml	Result	Limits	Units	Status	
CBD per 1ml	1.10		mg/1ml		CBD-Total per 1ml 20.8 mg/1ml
CBD per 1ml	20.8		mg/1ml		
CBDV per 1ml	0.143		mg/1ml		THC-Total per 1ml 0.736 mg/1ml
CBG per 1ml	0.283		mg/1ml		
CBL per 1ml	0.0323		mg/1ml		
Δ9-THC per 1ml	0.736		mg/1ml		(Reported in milligrams per serving)



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**Received:** 04/21/20 16:00



**Customer:** Etz Hayim Holdings

**Product identity:** PETTN-CD57  
**Client/Metric ID:** FORM-0417-CD57  
**Sample Date:**  
**Laboratory ID:** 20-004162-0001  
**Relinquished by:** Michael MacKay  
**Temp:** 22.6 °C

### Sample Results

Potency per 1ml	Method J AOAC 2015 V98-6 (mod)	Batch: 2003464	Analyze: 1/1/70 12:00:00 AM		
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1ml	1.10		mg/1ml	0.0310	
CBC-A per 1ml	< LOQ		mg/1ml	0.0310	
CBC-Total per 1ml	1.10		mg/1ml	0.0581	
CBD per 1ml	20.8		mg/1ml	0.310	
CBD-A per 1ml	< LOQ		mg/1ml	0.0310	
CBD-Total per 1ml	20.8		mg/1ml	0.337	
CBDV per 1ml	0.143		mg/1ml	0.0310	
CBDV-A per 1ml	< LOQ		mg/1ml	0.0310	
CBDV-Total per 1ml	0.143		mg/1ml	0.0578	
CBG per 1ml	0.283		mg/1ml	0.0310	
CBG-A per 1ml	< LOQ		mg/1ml	0.0310	
CBG-Total per 1ml	0.283		mg/1ml	0.0578	
CBL per 1ml	0.0323		mg/1ml	0.0310	
CBN per 1ml	< LOQ		mg/1ml	0.0310	
Δ8-THC per 1ml	< LOQ		mg/1ml	0.0310	
Δ9-THC per 1ml	0.736		mg/1ml	0.0310	
THC-A per 1ml	< LOQ		mg/1ml	0.0310	
THC-Total per 1ml	0.736		mg/1ml	0.0581	
THCV per 1ml	< LOQ		mg/1ml	0.0310	
THCV-A per 1ml	< LOQ		mg/1ml	0.0310	
THCV-Total per 1ml	< LOQ		mg/1ml	0.0581	
<b>Total Cannabinoids 1ml<sup>†</sup></b>	<b>23.1</b>		mg/1ml		

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Density	0.943		g/ml			04/22/20	Client Provided	

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**Report Number:** 20-004162/D04.R00  
**Report Date:** 05/01/2020  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 04/21/20 16:00

**Customer:** Etz Hayim Holdings  
**Product identity:** PETTN-CD57  
**Client/Metric ID:** FORM-0417-CD57  
**Laboratory ID:** 20-004162-0003

### 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
$\beta$ -Caryophyllene <sup>†</sup>	0.0435	100.00%	<b>Total Terpenes<sup>†</sup></b>	<b>0.0435</b>	<b>100.00%</b>

**Metals:**

*Less than LOQ for all analytes.*

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**Report Date:** 05/01/2020  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 04/21/20 16:00



**Customer:** Etz Hayim Holdings

**Product identity:** PETTN-CD57  
**Client/Metric ID:** FORM-0417-CD57  
**Sample Date:**  
**Laboratory ID:** 20-004162-0003  
**Relinquished by:** Michael MacKay  
**Temp:** 22.6 °C

### Sample Results

Solvents					Method EPA5021A	Units µg/g	Batch 2003566	Analyze 04/28/20 08:00 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 <sup>l</sup>	< 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 Number:** 20-004162/D04.R00  
**Report Date:** 05/01/2020  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 04/21/20 16:00

Pesticides											
Method AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 2003695 Analyze 05/01/20 09:43 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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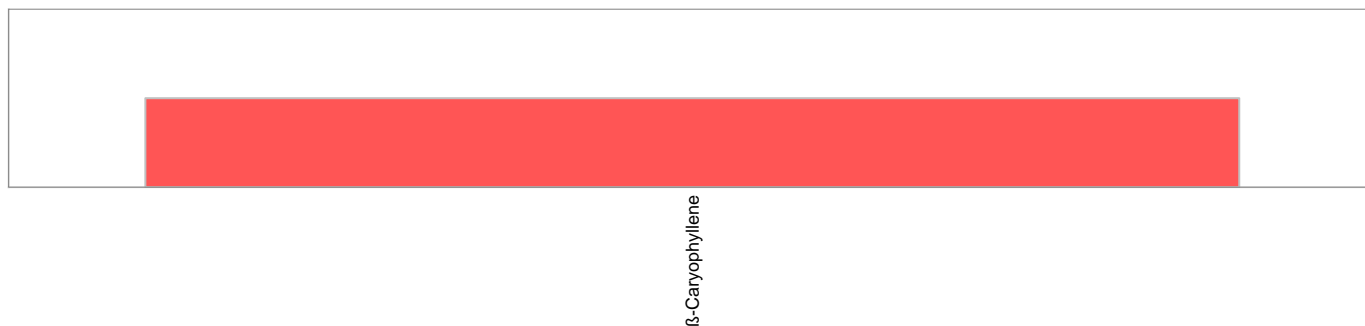


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503-254-1794

**Report Number:** 20-004162/D04.R00  
**Report Date:** 05/01/2020  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 04/21/20 16:00



Terpenes				Method J AOAC 2015 V98-6	Units %	Batch 2003565	Analyze 04/28/20 07:40 AM		
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
β-Caryophyllene†	0.0435	0.020	100.00%		(-)-a-Terpineol†	< LOQ	0.020	0.00%	
(-)-caryophyllene oxide†	< LOQ	0.020	0.00%		(-)-Guaial†	< 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%	
farnesene†	< 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%	
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-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%	
<b>Total Terpenes</b>	<b>0.0435</b>								



Metals									
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes	
Arsenic	< LOQ		mg/kg	0.0475	2003660	04/29/20	AOAC 2013.06 (mod.)	X	
Cadmium	< LOQ		mg/kg	0.0475	2003660	04/29/20	AOAC 2013.06 (mod.)	X	
Lead	< LOQ		mg/kg	0.0475	2003660	04/29/20	AOAC 2013.06 (mod.)	X	
Mercury	< LOQ		mg/kg	0.0237	2003660	04/29/20	AOAC 2013.06 (mod.)	X	

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**Report Number:** 20-004162/D03.R00  
**Report Date:** 05/01/2020  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 04/21/20 16:00

**Customer:** Etz Hayim Holdings  
**Product identity:** PETTN-CD57  
**Client/Metric ID:** FORM-0417-CD57  
**Laboratory ID:** 20-004162-0002

## Summary

### Microbiology:

*Less than LOQ for all analytes.*





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**Report Number:** 20-004162/D03.R00  
**Report Date:** 05/01/2020  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 04/21/20 16:00

**Customer:** Etz Hayim Holdings

**Product identity:** PETTN-CD57  
**Client/Metric ID:** FORM-0417-CD57  
**Sample Date:**  
**Laboratory ID:** 20-004162-0002  
**Relinquished by:** Michael MacKay  
**Temp:** 22.6 °C

### Sample Results

#### Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
E.coli	< LOQ		cfu/g	10	2003549	04/29/20	AOAC 991.14 (Petrifilm)	X
Total Coliforms	< LOQ		cfu/g	10	2003549	04/29/20	AOAC 991.14 (Petrifilm)	X
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2003543	04/29/20	AOAC 2014.05 (RAPID)	X
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2003543	04/29/20	AOAC 2014.05 (RAPID)	X