



CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

RSO	BATCH #CH 16	NR: Not Reported NA: Not Available
100MG RSO	0.5 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)	56 mg/serving	113 mg/g	N/A
Total THC (d9-THC, d8-THC, THCA)	1.23 mg/serving	2.49 mg/g	3 mg/g
Cannabigerol (CBG)	0.78 mg/serving	1.58 mg/g	N/A
Cannabinol (CBN)	0.0437 mg/serving	0.0884 mg/g	N/A
Cannabichromene (CBC)	1.29 mg/serving	2.60 mg/g	N/A
Tetrahydrocannabinolic Acid (THCA)	<LOQ mg/serving	<LOQ mg/g	N/A
Delta-9-THC (d9-THC)	1.23 mg/serving	2.49 mg/g	N/A
Delta-8-THC (d8-THC)	<LOQ mg/serving	<LOQ 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
Water Activity	Pass

TERPENES	% OF SAMPLE
Farnesene	32.06%
β-Caryophyllene	29.84%
a-Bisabolol	20.97%

TERPENES	% OF SAMPLE
Guaiol	6.77%
Humulene	10.36%

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: 20-008885/D02.R00
Report Date: 08/28/2020
ORELAP#: OR100028
Purchase Order:
Received: 08/21/20 09:30

Customer: Etz Hayim Holdings
Product identity: CH16-10% RSO
Client/Metric ID: FORM-8/18-CH16
Laboratory ID: 20-008885-0001

Sample Date: 08/18/20 17:00

Summary

Potency:

Analyte per 1ml	Result	Limits	Units	Status	
CBC per 1ml	2.57		mg/1ml		CBD-Total per 1ml 112 mg/1ml
CBD per 1ml	112		mg/1ml		THC-Total per 1ml 2.46 mg/1ml
CBDV per 1ml	0.369		mg/1ml		(Reported in milligrams per serving)
CBG per 1ml	1.56		mg/1ml		
CBL per 1ml	0.104		mg/1ml		
CBN per 1ml	0.0874		mg/1ml		
Δ9-THC per 1ml	2.46		mg/1ml		

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 Columbia Laboratories 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.



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

Report Number: 20-008885/D02.R00
Report Date: 08/28/2020
ORELAP#: OR100028
Purchase Order:
Received: 08/21/20 09:30



Customer: Etz Hayim Holdings

Product identity: CH16-10% RSO
Client/Metric ID: FORM-8/18-CH16
Sample Date: 08/18/20 17:00
Laboratory ID: 20-008885-0001
Relinquished by: Client
Temp: 22.7 °C
Serving Size #1: 1.011 g
Density: 1.01 g/ml

Sample Results

Potency per 1ml		Method J AOAC 2015 V98-6 (mod)		Batch: 2007097		Analyze: 8/28/20 12:14:00 AM	
Analyte	Result	Limits	Units	LOQ	Notes		
CBC per 1ml	2.57		mg/1ml	0.0329			
CBC-A per 1ml	< LOQ		mg/1ml	0.0329			
CBC-Total per 1ml	2.57		mg/1ml	0.0617			
CBD per 1ml	112		mg/1ml	3.29			
CBD-A per 1ml	< LOQ		mg/1ml	0.0329			
CBD-Total per 1ml	112		mg/1ml	3.31			
CBDV per 1ml	0.369		mg/1ml	0.0329			
CBDV-A per 1ml	< LOQ		mg/1ml	0.0329			
CBDV-Total per 1ml	0.369		mg/1ml	0.0613			
CBG per 1ml	1.56		mg/1ml	0.0329			
CBG-A per 1ml	< LOQ		mg/1ml	0.0329			
CBG-Total per 1ml	1.56		mg/1ml	0.0613			
CBL per 1ml	0.104		mg/1ml	0.0329			
CBN per 1ml	0.0874		mg/1ml	0.0329			
Δ8-THC per 1ml	< LOQ		mg/1ml	0.0329			
Δ9-THC per 1ml	2.46		mg/1ml	0.0329			
THC-A per 1ml	< LOQ		mg/1ml	0.0329			
THC-Total per 1ml	2.46		mg/1ml	0.0617			
THCV per 1ml	< LOQ		mg/1ml	0.0329			
THCV-A per 1ml	< LOQ		mg/1ml	0.0329			
THCV-Total per 1ml	< LOQ		mg/1ml	0.0617			
Total Cannabinoids 1ml[†]	119		mg/1ml				

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 Columbia Laboratories 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.



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



Report Number: 20-008885/D03.R00
Report Date: 09/01/2020
ORELAP#: OR100028
Purchase Order:
Received: 08/21/20 09:30

Customer: Etz Hayim Holdings
Product identity: CH16-10% RSO
Client/Metric ID: FORM-8/18-CH16
Laboratory ID: 20-008885-0002

Sample Date: 08/18/20 17:00

Summary

Microbiology:

Less than LOQ for all analytes.



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



Report Number: 20-008885/D03.R00
Report Date: 09/01/2020
ORELAP#: OR100028
Purchase Order:
Received: 08/21/20 09:30

Customer: Etz Hayim Holdings

Product identity: CH16-10% RSO
Client/Metric ID: FORM-8/18-CH16
Sample Date: 08/18/20 17:00
Laboratory ID: 20-008885-0002
Relinquished by: Client
Temp: 22.7 °C

Sample Results

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
E.coli	< LOQ		cfu/g	10	2006928	08/26/20	AOAC 991.14 (Petrifilm)	X
Total Coliforms	< LOQ		cfu/g	10	2006928	08/26/20	AOAC 991.14 (Petrifilm)	X
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2006929	08/26/20	AOAC 2014.05 (RAPID)	X
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2006929	08/26/20	AOAC 2014.05 (RAPID)	X



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



Report Number: 20-008885/D04.R00
Report Date: 09/01/2020
ORELAP#: OR100028
Purchase Order:
Received: 08/21/20 09:30

Customer: Etz Hayim Holdings
Product identity: CH16-10% RSO
Client/Metric ID: FORM-8/18-CH16
Laboratory ID: 20-008885-0003

Sample Date: 08/18/20 17:00

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
farnesene†	0.159	32.06%	β-Caryophyllene†	0.148	29.84%
α-Bisabolol†	0.104	20.97%	Humulene†	0.0514	10.36%
(-)-Guaiol†	0.0336	6.77%	Total Terpenes†	0.496	100.00%

Metals:

Less than LOQ for all analytes.

†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 Columbia Laboratories 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.



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

Report Number: 20-008885/D04.R00
Report Date: 09/01/2020
ORELAP#: OR100028
Purchase Order:
Received: 08/21/20 09:30



Customer: Etz Hayim Holdings

Product identity: CH16-10% RSO
Client/Metric ID: FORM-8/18-CH16
Sample Date: 08/18/20 17:00
Laboratory ID: 20-008885-0003
Relinquished by: Client
Temp: 22.7 °C

Sample Results

Solvents					Method EPA5021A	Units µg/g	Batch 2006903	Analyze 08/26/20 09:12 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 ¹	< 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							

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 Columbia Laboratories 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.



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

Report Number: 20-008885/D04.R00
Report Date: 09/01/2020
ORELAP#: OR100028
Purchase Order:
Received: 08/21/20 09:30



Pesticides											
Method AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 2007063 Analyze 08/27/20 02:14 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							

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 Columbia Laboratories 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.

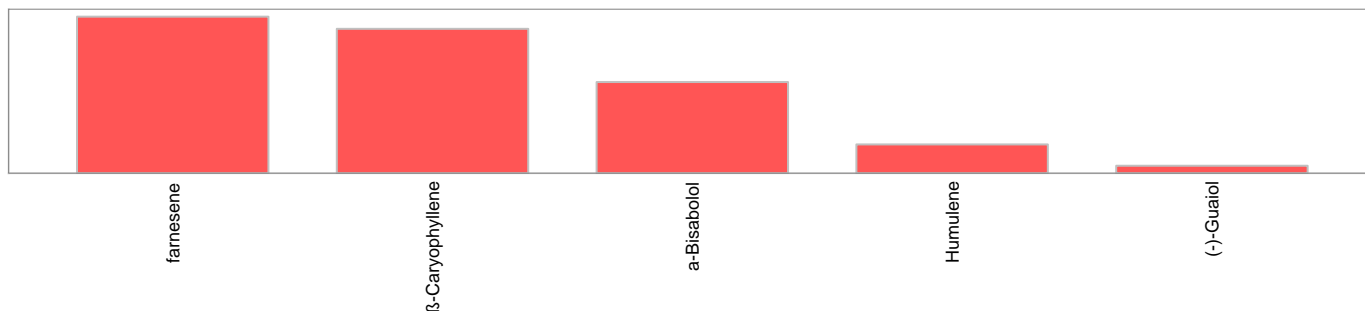


12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

Report Number: 20-008885/D04.R00
Report Date: 09/01/2020
ORELAP#: OR100028
Purchase Order:
Received: 08/21/20 09:30



Terpenes				Method J AOAC 2015 V98-6	Units %	Batch 2007008	Analyze 08/26/20 10:15 AM		
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
farnesene [†]	0.159	0.020	32.06%		β-Caryophyllene [†]	0.148	0.020	29.84%	
α-Bisabolol [†]	0.104	0.020	20.97%		Humulene [†]	0.0514	0.020	10.36%	
(-)-Guaiol [†]	0.0336	0.020	6.77%		(-)-α-Terpineol [†]	< LOQ	0.020	0.00%	
(-)-caryophyllene oxide [†]	< 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	0.496								



Metals									
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes	
Arsenic	< LOQ		mg/kg	0.0487	2007024	08/26/20	AOAC 2013.06 (mod.)	X	
Cadmium	< LOQ		mg/kg	0.0487	2007024	08/26/20	AOAC 2013.06 (mod.)	X	
Lead	< LOQ		mg/kg	0.0487	2007024	08/26/20	AOAC 2013.06 (mod.)	X	
Mercury	< LOQ		mg/kg	0.0243	2007024	08/26/20	AOAC 2013.06 (mod.)	X	

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 Columbia Laboratories 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.