

CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

BULK SKU SG100	BATCH # ED19	LOQ: Limit Of Quantitation LOD: Limit Of Detection 1 g = 10 ⁻³ kg = 10 ³ mg = 10 ⁶ µg 1 mg/kg = 1 ppm = 1000 ppb	
PRODUCT NAME CBD Softgels - 100 mg	SERVING SIZE 1 softgel (0.425 mL)		
LABORATORY: Columbia Laboratories	OREGON ACCREDITATION: OR100028		
POTENCY	PER SERVING	PER GRAM	Percent
Cannabidiol (CBD)	102 mg/serving	240 mg/g	24.0 %
Total THC (d9-THC, THCA)	0.952 mg/serving	2.24 mg/g	0.22 %
Cannabigerol (CBG)	0.451 mg/serving	1.06 mg/g	0.11 %
Cannabinol (CBN)	<LOQ mg/serving	<LOQ mg/g	<LOQ %
Cannabichromene (CBC)	0.816 mg/serving	1.92 mg/g	0.19 %
Tetrahydrocannabinolic Acid (THCA)	<LOQ mg/serving	<LOQ mg/g	<LOQ %
Delta-9-THC (d9-THC)	0.952 mg/serving	2.24 mg/g	0.22 %
Delta-8-THC (d8-THC)	<LOQ mg/serving	<LOQ mg/g	<LOQ %
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 other 59 pesticides tested found above limit of detection in the sample.	10 ppb ^[1]		
RESIDUAL SOLVENTS	Results	REGULATORY ACTION LEVEL	
Ethanol	<LOQ	50,000 mg/day	
Heptane	<LOQ	50,000 mg/day	
None of the 34 residual solvents tested found above limit of quantitation in the sample.			
MICROBIAL	PASS/FAIL		
Yeast & Mold	Pass		
Coliform	Pass		
TERPENES	% OF SAMPLE		
Farnesene	<LOQ %		
β-Caryophyllene	10.65 %		
α-Bisabolol	0.26 %		
Guaiol	<LOQ %		
Humulene	1.00 %		
Caryophyllene Oxide	0.14 %		



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: 22-004788/D005.R000
Report Date: 05/12/2022
ORELAP#: OR100028
Purchase Order:
Received: 04/27/22 15:10

Customer: Etz Hayim Holdings
Product identity: FORM-ED19-SG100
Client/Metric ID: .
Laboratory ID: 22-004788-0001

Summary

Potency:

Analyte per 1g	Result	Limits	Units	Status	
CBC per 1g [†]	1.92		mg/1g		CBD-Total per 1g 240 mg/1g
CBD per 1g	240		mg/1g		
CBDV per 1g [†]	0.838		mg/1g		THC-Total per 1g 2.24 mg/1g
CBE per 1g [†]	1.26		mg/1g		(Reported in milligrams per serving)
CBG per 1g [†]	1.06		mg/1g		
CBT per 1g [†]	2.17		mg/1g		
Δ9-THC per 1g	2.24		mg/1g		

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
(R)-(+)-Limonene [†]	11.3	61.08%	β-Myrcene [†]	4.97	26.86%
β-Caryophyllene [†]	1.97	10.65%	Humulene [†]	0.185	1.00%
α-Bisabolol [†]	0.0483	0.26%	(-)-caryophyllene oxide [†]	0.0259	0.14%
d-3-Carene [†]	0.0213	0.12%	Total Terpenes[†]	18.5	100.00%

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.



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Purchase Order:
Received: 04/27/22 15:10

Customer: Etz Hayim Holdings
 16427 NE Airport Way
 PORTLAND 97230
 United States of America (USA)

Product identity: FORM-ED19-SG100

Client/Metric ID: .

Sample Date:

Laboratory ID: 22-004788-0001

Evidence of Cooling: No

Temp: 20.1 °C

Relinquished by: Client

Serving Size #1: 1 g

Sample Results

Potency per 1g					
Method J AOAC 2015 V98-6 (mod)Units mg/se Batch: 2203744 Analyze: 5/2/22 2:28:00 PM					
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1g†	1.92		mg/1g	0.0329	
CBC-A per 1g†	< LOQ		mg/1g	0.0329	
CBC-Total per 1g†	1.92		mg/1g	0.0617	
CBD per 1g	240		mg/1g	3.29	
CBD-A per 1g	< LOQ		mg/1g	0.0329	
CBD-Total per 1g	240		mg/1g	3.32	
CBDV per 1g†	0.838		mg/1g	0.0329	
CBDV-A per 1g†	< LOQ		mg/1g	0.0329	
CBDV-Total per 1g†	0.838		mg/1g	0.0613	
CBE per 1g†	1.26		mg/1g	0.0329	
CBG per 1g†	1.06		mg/1g	0.0329	
CBG-A per 1g†	< LOQ		mg/1g	0.0329	
CBG-Total per 1g†	1.06		mg/1g	0.0613	
CBL per 1g†	< LOQ		mg/1g	0.0329	
CBL-A per 1g†	< LOQ		mg/1g	0.0329	
CBL-Total per 1g†	< LOQ		mg/1g	0.0617	
CBN per 1g	< LOQ		mg/1g	0.0329	
CBT per 1g†	2.17		mg/1g	0.0329	
Δ8-THCV per 1g†	< LOQ		mg/1g	0.0329	
Δ8-THC per 1g†	< LOQ		mg/1g	0.0329	
Δ9-THC per 1g	2.24		mg/1g	0.0329	
exo-THC per 1g†	< LOQ		mg/1g	0.0329	
THC-A per 1g	< LOQ		mg/1g	0.0329	
THC-Total per 1g	2.24		mg/1g	0.0617	
THCV per 1g†	< LOQ		mg/1g	0.0329	
THCV-A per 1g†	< LOQ		mg/1g	0.0329	
THCV-Total per 1g†	< LOQ		mg/1g	0.0617	
Total Cannabinoids per 1g	249		mg/1g		



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Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2203842	05/07/22	AOAC 991.14 (Petrifilm)	X, I	
Total Coliforms	< LOQ		cfu/g	10	2203842	05/07/22	AOAC 991.14 (Petrifilm)	X, I	
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2203843	05/08/22	AOAC 2014.05 (RAPID)	X, I	
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2203843	05/08/22	AOAC 2014.05 (RAPID)	X, I	

Solvents Method Residual Solvents by GC/MS Units µg/g Batch 2204069 Analyze 05/12/22 08:59 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 (Isopentane)	< LOQ		200		
2-Methylpentane	< LOQ		30.0			2-Propanol (IPA)	< LOQ	5000	200	pass	
2,2-Dimethyl butane	< LOQ		30.0			2,2-Dimethylpropane (neo-pentane)	< LOQ		200		
2,3-Dimethyl butane	< 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	20.0	pass		Hexanes (sum)	< LOQ	290	150	pass	
Isopropyl acetate	< LOQ	5000	200	pass		Isopropylbenzene (Cumene)	< LOQ	70.0	30.0	pass	
m,p-Xylene	< LOQ		200			Methanol	< LOQ	3000	200	pass	
Methylene chloride	< LOQ	600	60.0	pass		Methylpropane (Isobutane)	< 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 benzene	< LOQ	2170	600	pass							



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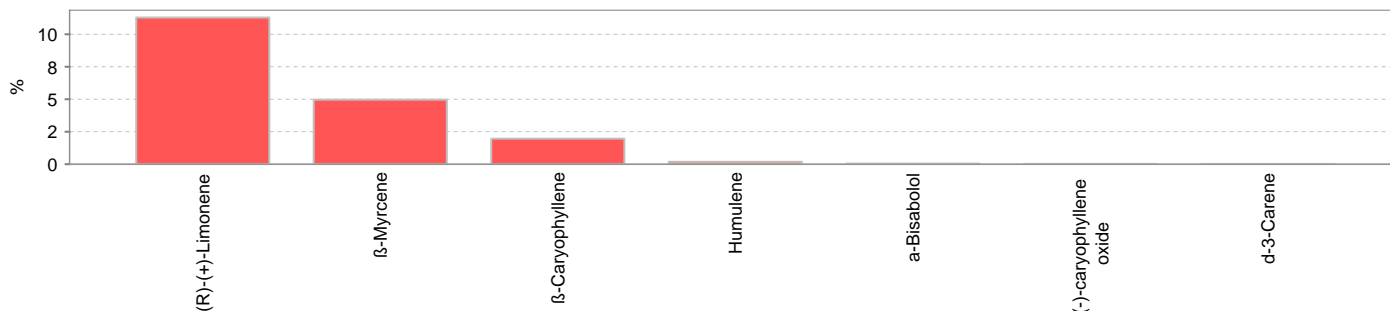


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Purchase Order:
Received: 04/27/22 15:10

Pesticides											
Method AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 2203921 Analyze 05/06/22 01:56 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		Paclotrazole	< 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							



Terpenes				Method J AOAC 2015 V98-6	Units %	Batch 2203907	Analyze 05/06/22 02:23 AM		
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
(R)-(+)-Limonene [†]	11.3	0.182	61.08%		β-Myrcene [†]	4.97	0.182	26.86%	
β-Caryophyllene [†]	1.97	0.018	10.65%		Humulene [†]	0.185	0.018	1.000%	
α-Bisabolol [†]	0.0483	0.018	0.2611%		(-)-caryophyllene oxide [†]	0.0259	0.018	0.1400%	
d-3-Carene [†]	0.0213	0.018	0.1151%		α-Terpinene [†]	< LOQ	0.018	0.00%	
(-)-Guaiol [†]	< LOQ	0.018	0.00%		farnesene [†]	< LOQ	0.018	0.00%	
nerol [†]	< LOQ	0.018	0.00%		(+)-Pulegone [†]	< LOQ	0.018	0.00%	
γ-Terpinene [†]	< LOQ	0.018	0.00%		p-Cymene [†]	< LOQ	0.018	0.00%	
(±)-Camphor [†]	< LOQ	0.018	0.00%		Geraniol [†]	< LOQ	0.018	0.00%	
(-)-α-Terpineol [†]	< LOQ	0.018	0.00%		Sabinene hydrate [†]	< LOQ	0.018	0.00%	
(-)-β-Pinene [†]	< LOQ	0.018	0.00%		(+)-fenchol [†]	< LOQ	0.018	0.00%	
Sabinene [†]	< LOQ	0.018	0.00%		(-)-Isopulegol [†]	< LOQ	0.018	0.00%	
Menthol [†]	< LOQ	0.018	0.00%		(+)-Cedrol [†]	< LOQ	0.018	0.00%	
Geranyl acetate [†]	< LOQ	0.018	0.00%		(±)-trans-Nerolidol [†]	< LOQ	0.018	0.00%	
(+)-Borneol [†]	< LOQ	0.018	0.00%		(±)-cis-Nerolidol [†]	< LOQ	0.018	0.00%	
(±)-fenchone [†]	< LOQ	0.018	0.00%		α-cedrene [†]	< LOQ	0.018	0.00%	
α-phellandrene [†]	< LOQ	0.018	0.00%		α-pinene [†]	< LOQ	0.018	0.00%	
Camphene [†]	< LOQ	0.018	0.00%		cis-β-Ocimene [†]	< LOQ	0.006	0.00%	
Eucalyptol [†]	< LOQ	0.018	0.00%		Isoborneol [†]	< LOQ	0.018	0.00%	
Linalool [†]	< LOQ	0.018	0.00%		Terpinolene [†]	< LOQ	0.018	0.00%	
trans-β-Ocimene [†]	< LOQ	0.012	0.00%		valencene [†]	< LOQ	0.018	0.00%	
Total Terpenes	18.5								



Metals									
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
Arsenic	< LOQ	0.200	mg/kg	0.0949	2203916	05/05/22	AOAC 2013.06 (mod.)	pass	X
Cadmium	< LOQ	0.200	mg/kg	0.0949	2203916	05/05/22	AOAC 2013.06 (mod.)	pass	X
Lead	< LOQ	0.500	mg/kg	0.0949	2203916	05/05/22	AOAC 2013.06 (mod.)	pass	X
Mercury	< LOQ	0.100	mg/kg	0.0475	2203916	05/05/22	AOAC 2013.06 (mod.)	pass	X



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These test results are representative of the individual sample selected and submitted by the client.

Abbreviations

Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220, CCR title 16-division 42. BCC-section 5723

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

† = Analyte not NELAP accredited.

Units of Measure

cfu/g = Colony forming units per gram

g = g

µg/g = Microgram per gram

mg/kg = Milligram per kilogram = parts per million (ppm)

mg/1g = Milligram per 1g

% = Percentage of sample

% wt = µg/g divided by 10,000

Glossary of Qualifiers

I: Insufficient sample received to meet method requirements.

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner
General Manager



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12423 NE Whitaker Way Portland OR 97230 p.503-254-1794

Cannabis Chain of Custody Record



ORELAP ID: OR100028

Field ID		Date/Time Collected	Pesticides - OR 59 compounds	Pesticide Multi-Residue - 379 compounds	Potency	Residual Solvents	Water Activity	Moisture	Terpenes	Micro: Yeast and Mold	Micro: E.Coli and Total Coliform	Heavy Metals	Mycotoxins	Other	Matrix	Weight	Serving size for edibles	Comments/Metric ID
Form-ED19-SG100		4/27 12p			X										Liquid TU		mg/g	Lab Nat. Discount
Form-ED19-SG100		4/27 12p	X			X			X	X	X	X						Potency 1st

Purchase Order Number:
Project Number:
Project Name:
 Report Instructions:
 Send to State - METRC
 Email Final Results:
 Fax Final Results
 Cash/Check/CC/Net 30
Other:

Collected By:	Relinquished By:	Date:	Time:	Received by:	Date:	Time:	Lab Use Only:
<input checked="" type="checkbox"/> Standard (5 day) <input type="checkbox"/> Rush (3-4 day) (1.5x Standard) <input type="checkbox"/> Priority Rush (2 day) (2x Standard)							Client Alias: Order Number: Proper Container: Sample Condition: Temperature: 20.1°C Shipped Via: CL: eT Evidence of cooling: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SUBMISSION OF SAMPLES WITH TESTING REQUIREMENTS TO PIXIS WILL BE UNDERSTOOD TO BE AN AGREEMENT FOR SERVICES IN ACCORDANCE WITH THE CONDITIONS LISTED ON THE BACK OF THIS FORM
Revision: 1.02 Control#: CF023 Effective 01/31/2019 Revised 01/31/2019 www.pixislabs.com Page 1 of 2

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.
Testing in accordance with: OAR 333-007-0390 OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430



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Revision 1 Documen D 7148
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Laboratory Quality Control Results

JAOAC2015 V986		Batch ID: 2203744							
Laboratory Control Sample									
Analyte	Result	Spike	Units	% Rec	Limits		Evaluation	Notes	
CBDVA	0.0334	0.033	%	100	80.0	- 120	Acceptable		
CBDV	0.0368	0.033	%	110	80.0	- 120	Acceptable		
CBE	0.0324	0.033	%	97.3	80.0	- 120	Acceptable		
CBDA	0.0328	0.033	%	98.3	90.0	- 110	Acceptable		
CBGA	0.0325	0.033	%	97.4	80.0	- 120	Acceptable		
CBG	0.0323	0.033	%	96.8	80.0	- 120	Acceptable		
CBD	0.0339	0.033	%	102	90.0	- 110	Acceptable		
THCV	0.0331	0.033	%	99.2	80.0	- 120	Acceptable		
d8THCV	0.0331	0.033	%	99.2	80.0	- 120	Acceptable		
THCVA	0.0320	0.033	%	96.1	80.0	- 120	Acceptable		
CBN	0.0347	0.033	%	104	90.0	- 110	Acceptable		
exo-THC	0.0314	0.033	%	94.3	80.0	- 120	Acceptable		
d9THC	0.0334	0.033	%	100	90.0	- 110	Acceptable		
d8THC	0.0337	0.033	%	101	90.0	- 110	Acceptable		
CBL	0.0333	0.033	%	99.9	80.0	- 120	Acceptable		
CBC	0.0338	0.033	%	101	80.0	- 120	Acceptable		
THCA	0.0320	0.033	%	96.0	90.0	- 110	Acceptable		
CBCA	0.0329	0.033	%	98.8	80.0	- 120	Acceptable		
CBLA	0.0337	0.033	%	101	80.0	- 120	Acceptable		
CBT	0.0332	0.033	%	99.7	80.0	- 120	Acceptable		

Method Blank

Analyte	Result	LOQ	Units	Limits		Evaluation	Notes
CBDVA	< LOQ	0.003	%	< 0.003		Acceptable	
CBDV	< LOQ	0.003	%	< 0.003		Acceptable	
CBE	< LOQ	0.003	%	< 0.003		Acceptable	
CBDA	< LOQ	0.003	%	< 0.003		Acceptable	
CBGA	< LOQ	0.003	%	< 0.003		Acceptable	
CBG	< LOQ	0.003	%	< 0.003		Acceptable	
CBD	< LOQ	0.003	%	< 0.003		Acceptable	
THCV	< LOQ	0.003	%	< 0.003		Acceptable	
d8THCV	< LOQ	0.003	%	< 0.003		Acceptable	
THCVA	< LOQ	0.003	%	< 0.003		Acceptable	
CBN	< LOQ	0.003	%	< 0.003		Acceptable	
exo-THC	< LOQ	0.003	%	< 0.003		Acceptable	
d9THC	< LOQ	0.003	%	< 0.003		Acceptable	
d8THC	< LOQ	0.003	%	< 0.003		Acceptable	
CBL	< LOQ	0.003	%	< 0.003		Acceptable	
CBC	< LOQ	0.003	%	< 0.003		Acceptable	
THCA	< LOQ	0.003	%	< 0.003		Acceptable	
CBCA	< LOQ	0.003	%	< 0.003		Acceptable	
CBLA	< LOQ	0.003	%	< 0.003		Acceptable	
CBT	< LOQ	0.003	%	< 0.003		Acceptable	

Abbreviations

ND - None Detected at or above MRL
 RPD - Relative Percent Difference
 LOQ - Limit of Quantitation

Units of Measure:

% - Percent



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



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Revision 1 Document D 7148
Legacy D Worksheet Validated 04/20/2021

Laboratory Quality Control Results

JAOAC2015 V986		Batch ID: 2203744						
Sample Duplicate		Sample D: 22-004710-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	0.0131	0.0126	0.003	%	3.92	< 20	Acceptable	
CBE	0.0232	0.0233	0.003	%	0.189	< 20	Acceptable	
CBDA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBG	0.0393	0.0395	0.003	%	0.491	< 20	Acceptable	
CBD	2.54	2.56	0.003	%	0.784	< 20	Acceptable	
THCV	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
d8THCV	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
THCVA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBN	0.00526	0.00546	0.003	%	3.63	< 20	Acceptable	
exo-THC	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
d9THC	0.0609	0.0613	0.003	%	0.617	< 20	Acceptable	
d8THC	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBL	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBC	0.0969	0.0946	0.003	%	2.35	< 20	Acceptable	
THCA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
BCA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBLA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBT	0.0207	0.0213	0.003	%	2.87	< 20	Acceptable	

Abbreviations

ND - None Detected at or above MRL
RPD - Relative Percent Difference
LOQ - Limit of Quantitation

Units of Measure:

% - Percent


 Revision: 1 Document ID: 7086
 Legacy ID: CFL-E57Worksheet Validated 11/04/2020

Terpenes Quality Control Results

Method Reference: EPA5035				Batch ID: 2203907					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	LCS	Units	LCS% Rec	Limits	Notes
a-pinene	< OQ	< 200		588	500	µg/g	118%	70 - 30	
Camphene	< OQ	< 200		453	500	µg/g	91%	70 - 30	
Sabinene	< OQ	< 200		598	500	µg/g	120%	70 - 30	
b-Pinene	< OQ	< 200		588	500	µg/g	118%	70 - 30	
b-Myrcene	< OQ	< 200		43	500	µg/g	86%	70 - 30	
a-phellandrene	< OQ	< 200		4 5	500	µg/g	83%	70 - 30	
d-3-Carene	< OQ	< 200		434	500	µg/g	87%	70 - 30	
a-Terpinene	< OQ	< 200		602	500	µg/g	120%	70 - 30	
p-Cymene	< OQ	< 200		469	500	µg/g	94%	70 - 30	
D-imonene	< OQ	< 200		590	500	µg/g	118%	70 - 30	
α-caryophyllol	< OQ	< 200		428	500	µg/g	86%	70 - 30	
b-cis-Ocimene	< OQ	< 67		52	67	µg/g	91%	70 - 30	
b-trans-Ocimene	< OQ	< 33		298	333	µg/g	89%	70 - 30	
γ-Terpinene	< OQ	< 200		587	500	µg/g	117%	70 - 30	
Sabinene hydrate	< OQ	< 200		602	500	µg/g	120%	70 - 30	
Terpinolene	< OQ	< 200		580	500	µg/g	116%	70 - 30	
D-enchone	< OQ	< 200		537	500	µg/g	107%	70 - 30	
linalool	< OQ	< 200		444	500	µg/g	89%	70 - 30	
α-enchol	< OQ	< 200		6 9	500	µg/g	124%	70 - 30	
Camphor	< OQ	< 200		440	500	µg/g	88%	70 - 30	
sopulego	< OQ	< 200		437	500	µg/g	87%	70 - 30	
soborneol	< OQ	< 200		4 6	500	µg/g	83%	70 - 30	
Borneol	< OQ	< 200		624	500	µg/g	125%	70 - 30	
D-Menthol	< OQ	< 200		420	500	µg/g	84%	70 - 30	
Terpineol	< OQ	< 200		6 6	500	µg/g	123%	70 - 30	
Nerol	< OQ	< 200		425	500	µg/g	85%	70 - 30	
Pulegone	< OQ	< 200		570	500	µg/g	114%	70 - 30	
Geraniol	< OQ	< 200		639	500	µg/g	128%	70 - 30	
Geranyl Acetate	< OQ	< 200		428	500	µg/g	86%	70 - 30	
α-Cedrene	< OQ	< 200		6 3	500	µg/g	123%	70 - 30	
b-Caryophyllene	< OQ	< 200		4 4	500	µg/g	83%	70 - 30	
α-Humulene	< OQ	< 200		6 9	500	µg/g	124%	70 - 30	
Valenene	< OQ	< 200		42	500	µg/g	84%	70 - 30	
cis-Nerolidol	< OQ	< 200		439	500	µg/g	88%	70 - 30	
α-arnesene	< OQ	< 200		456	500	µg/g	91%	70 - 30	
trans-Nerolidol	< OQ	< 200		62	500	µg/g	124%	70 - 30	
Caryophyllene Oxide	< OQ	< 200		423	500	µg/g	85%	70 - 30	
Guaiol	< OQ	< 200		639	500	µg/g	128%	70 - 30	
Cedrol	< OQ	< 200		4 9	500	µg/g	84%	70 - 30	
α-Bisabolol	< OQ	< 200		435	500	µg/g	87%	70 - 30	

Definitions

LOQ	Limit of Quantitation
LCS	Laboratory Control Sample
% REC	Percent Recovery



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Terpenes Quality Control Results

Method Reference: EPA5035		Batch ID: 2203907					
Sample/ Sample Duplicate		Sample ID: 22-004868-001					
Analyte	Result	Org. Result	LOQ	Units	% RPD	LIMIT	Notes
a-pinene	< OQ	< OQ	96	µg/g	0%	< 20	
Camphene	< OQ	< OQ	96	µg/g	0%	< 20	
Sabinene	< OQ	< OQ	96	µg/g	0%	< 20	
b-Pinene	< OQ	< OQ	96	µg/g	0%	< 20	
b-Myrcene	< OQ	< OQ	96	µg/g	0%	< 20	
a-phellandrene	< OQ	< OQ	96	µg/g	0%	< 20	
d-3-Carene	< OQ	< OQ	96	µg/g	0%	< 20	
a-Terpinene	< OQ	< OQ	96	µg/g	0%	< 20	
p-Cymene	< OQ	< OQ	96	µg/g	0%	< 20	
D-imonene	< OQ	< OQ	96	µg/g	0%	< 20	
α-caryophyllol	< OQ	< OQ	96	µg/g	0%	< 20	
b-cis-Ocimene	< OQ	< OQ	65.2	µg/g	0%	< 20	
b-trans-Ocimene	< OQ	< OQ	30	µg/g	0%	< 20	
g-Terpinene	< OQ	< OQ	96	µg/g	0%	< 20	
Sabinene hydrate	< OQ	< OQ	96	µg/g	0%	< 20	
Terpinolene	< OQ	< OQ	96	µg/g	0%	< 20	
D-enchone	< OQ	< OQ	96	µg/g	0%	< 20	
α-inalool	< OQ	< OQ	96	µg/g	0%	< 20	
α-enchol	< OQ	< OQ	96	µg/g	0%	< 20	
Camphor	< OQ	< OQ	96	µg/g	0%	< 20	
α-sopulego	< OQ	< OQ	96	µg/g	0%	< 20	
α-soborneol	< OQ	< OQ	96	µg/g	0%	< 20	
Borneol	< OQ	< OQ	96	µg/g	0%	< 20	
D-Menthol	< OQ	< OQ	96	µg/g	0%	< 20	
Terpineol	< OQ	< OQ	96	µg/g	0%	< 20	
Nerol	< OQ	< OQ	96	µg/g	0%	< 20	
Pulegone	< OQ	< OQ	96	µg/g	0%	< 20	
Geraniol	< OQ	< OQ	96	µg/g	0%	< 20	
Geranyl Acetate	< OQ	< OQ	96	µg/g	0%	< 20	
α-Cedrene	< OQ	< OQ	96	µg/g	0%	< 20	
b-Caryophyllene	< OQ	< OQ	96	µg/g	0%	< 20	
α-Humulene	< OQ	< OQ	96	µg/g	0%	< 20	
Valenene	< OQ	< OQ	96	µg/g	0%	< 20	
cis-Nerolidol	< OQ	< OQ	96	µg/g	0%	< 20	
α-arnesene	< OQ	< OQ	96	µg/g	0%	< 20	
trans-Nerolidol	< OQ	< OQ	96	µg/g	0%	< 20	
Caryophyllene Oxide	< OQ	< OQ	96	µg/g	0%	< 20	
Guaiol	< OQ	< OQ	96	µg/g	0%	< 20	
Cedrol	< OQ	< OQ	96	µg/g	0%	< 20	
α-Bisabolol	< OQ	< OQ	96	µg/g	0%	< 20	

Definitions

RPD Relative Percent Difference



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Laboratory Quality Control Results

Residual Solvents				Batch D: 2204069					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		599	572	µg/g	104.7	60 - 120	
Isobutane	ND	< 200		762	731	µg/g	104.2	60 - 120	
Butane	ND	< 200		750	731	µg/g	102.6	60 - 120	
2,2-Dimethylpropane	ND	< 200		1020	936	µg/g	109.0	60 - 120	
Methanol	ND	< 200		1430	1620	µg/g	88.3	60 - 120	
Ethylene Oxide	ND	< 30		66.2	56.2	µg/g	117.8	60 - 120	
2-Methylbutane	ND	< 200		1500	1620	µg/g	92.6	60 - 120	
Pentane	ND	< 200		1470	1610	µg/g	91.3	60 - 120	
Ethanol	ND	< 200		1520	1630	µg/g	93.3	70 - 130	
Ethyl ether	ND	< 200		1510	1620	µg/g	93.2	60 - 120	
2,2-Dimethylbutane	ND	< 30		165	174	µg/g	94.8	60 - 120	
Acetone	ND	< 200		1530	1650	µg/g	92.7	60 - 120	
2-Propanol	ND	< 200		1460	1610	µg/g	90.7	60 - 120	
Ethyl Formate	ND	< 500		1430	1600	µg/g	89.4	70 - 130	
Acetonitrile	ND	< 100		444	498	µg/g	89.2	60 - 120	
Methyl Acetate	ND	< 500		1480	1610	µg/g	91.9	70 - 130	
2,3-Dimethylbutane	ND	< 30		165	176	µg/g	93.8	60 - 120	
Dichloromethane	ND	< 60		492	510	µg/g	96.5	60 - 120	
2-Methylpentane	ND	< 30		163	176	µg/g	92.6	60 - 120	
MTBE	ND	< 500		1510	1600	µg/g	94.4	70 - 130	
3-Methylpentane	ND	< 30		160	175	µg/g	91.4	60 - 120	
Hexane	ND	< 30		162	177	µg/g	91.5	60 - 120	
1-Propanol	ND	< 500		1410	1610	µg/g	87.6	70 - 130	
Methylethylketone	ND	< 500		1500	1600	µg/g	93.8	70 - 130	
Ethyl acetate	ND	< 200		1500	1630	µg/g	92.0	60 - 120	
2-Butanol	ND	< 200		1510	1620	µg/g	93.2	60 - 120	
Tetrahydrofuran	ND	< 100		462	500	µg/g	92.4	60 - 120	
Cyclohexane	ND	< 200		1530	1620	µg/g	94.4	60 - 120	
2-methyl-1-propanol	ND	< 500		1360	1620	µg/g	84.0	70 - 130	
Benzene	ND	< 1		4.78	5.32	µg/g	89.8	60 - 120	
Isopropyl Acetate	ND	< 200		1480	1620	µg/g	91.4	60 - 120	
Heptane	ND	< 200		1440	1770	µg/g	81.4	60 - 120	
1-Butanol	ND	< 500		1240	1600	µg/g	77.5	70 - 130	
Propyl Acetate	ND	< 500		1510	1600	µg/g	94.4	70 - 130	
1,4-Dioxane	ND	< 100		474	504	µg/g	94.0	60 - 120	
2-Ethoxyethanol	ND	< 30		168	181	µg/g	92.8	60 - 120	
Methylisobutylketone	ND	< 500		1400	1610	µg/g	87.0	70 - 130	
3-Methyl-1-butanol	ND	< 500		1300	1610	µg/g	80.7	70 - 130	
Ethylene Glycol	ND	< 200		350	494	µg/g	70.9	60 - 120	
Toluene	ND	< 100		464	491	µg/g	94.5	60 - 120	
Isobutyl Acetate	ND	< 500		1570	1600	µg/g	98.1	70 - 130	
1-Pentanol	ND	< 500		1350	1610	µg/g	83.9	70 - 130	
Butyl Acetate	ND	< 500		1370	1610	µg/g	85.1	70 - 130	
Ethylbenzene	ND	< 200		940	973	µg/g	96.6	60 - 120	
m,p-Xylene	ND	< 200		969	996	µg/g	97.3	60 - 120	
o-Xylene	ND	< 200		967	973	µg/g	99.4	60 - 120	
Cumene	ND	< 30		172	170	µg/g	101.2	60 - 120	
Anisole	ND	< 500		1290	1610	µg/g	80.1	70 - 130	
DMSO	ND	< 500		1430	1630	µg/g	87.7	70 - 130	
1,2-dimethoxyethane	ND	< 50		156	164	µg/g	95.1	70 - 130	
Triethylamine	ND	< 500		1490	1600	µg/g	93.1	70 - 130	
N,N-dimethylformamide	ND	< 150		433	497	µg/g	87.1	70 - 130	
N,N-dimethylacetamide	ND	< 150		421	498	µg/g	84.5	70 - 130	
Pyridine	ND	< 50		182	180	µg/g	101.1	70 - 130	
1,2-Dichloroethane	ND	< 1		1.15	1	µg/g	115.0	70 - 130	
Chloroform	ND	< 1		1.12	1	µg/g	112.0	70 - 130	
Trichloroethylene	ND	< 1		1.15	1	µg/g	115.0	70 - 130	



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QC- Sample Duplicate		Sample ID: 22-004788-0001						
Analyte	Result	Org. Result	LOQ Units	RPD	Limits	Accept/ Fail	Notes	
Propane	ND	ND	200 µg/g	0.0	< 20	Acceptable		
Isobutane	ND	ND	200 µg/g	0.0	< 20	Acceptable		
Butane	ND	ND	200 µg/g	0.0	< 20	Acceptable		
2,2-Dimethylpropane	ND	ND	200 µg/g	0.0	< 20	Acceptable		
Methanol	ND	ND	200 µg/g	0.0	< 20	Acceptable		
Ethylene Oxide	ND	ND	30 µg/g	0.0	< 20	Acceptable		
2-Methylbutane	ND	ND	200 µg/g	0.0	< 20	Acceptable		
Pentane	ND	ND	200 µg/g	0.0	< 20	Acceptable		
Ethanol	ND	ND	200 µg/g	0.0	< 20	Acceptable		
Ethyl Ether	ND	ND	200 µg/g	0.0	< 20	Acceptable		
2,2-Dimethylbutane	ND	ND	30 µg/g	0.0	< 20	Acceptable		
Acetone	ND	ND	200 µg/g	0.0	< 20	Acceptable		
2-Propanol	ND	ND	200 µg/g	0.0	< 20	Acceptable		
Ethyl Formate	ND	ND	500 µg/g	0.0	< 20	Acceptable		
Acetonitrile	ND	ND	100 µg/g	0.0	< 20	Acceptable		
Methyl Acetate	ND	ND	500 µg/g	0.0	< 20	Acceptable		
2,3-Dimethylbutane	ND	ND	30 µg/g	0.0	< 20	Acceptable		
Dichloromethane	ND	ND	60 µg/g	0.0	< 20	Acceptable		
2-Methylpentane	ND	ND	30 µg/g	0.0	< 20	Acceptable		
MTBE	ND	ND	500 µg/g	0.0	< 20	Acceptable		
3-Methylpentane	ND	ND	30 µg/g	0.0	< 20	Acceptable		
Hexane	ND	ND	30 µg/g	0.0	< 20	Acceptable		
1-Propanol	ND	ND	500 µg/g	0.0	< 20	Acceptable		
Methylethylketone	ND	ND	500 µg/g	0.0	< 20	Acceptable		
Ethyl acetate	ND	ND	200 µg/g	0.0	< 20	Acceptable		
2-Butanol	ND	ND	200 µg/g	0.0	< 20	Acceptable		
Tetrahydrofuran	ND	ND	100 µg/g	0.0	< 20	Acceptable		
Cyclohexane	ND	ND	200 µg/g	0.0	< 20	Acceptable		
2-methyl-1-propanol	ND	ND	500 µg/g	0.0	< 20	Acceptable		
Benzene	ND	ND	1 µg/g	0.0	< 20	Acceptable		
Isopropyl Acetate	ND	ND	200 µg/g	0.0	< 20	Acceptable		
Heptane	ND	ND	200 µg/g	0.0	< 20	Acceptable		
1-Butanol	ND	ND	500 µg/g	0.0	< 20	Acceptable		
Propyl Acetate	ND	ND	500 µg/g	0.0	< 20	Acceptable		
1,4-Dioxane	ND	ND	100 µg/g	0.0	< 20	Acceptable		
2-Ethoxyethanol	ND	ND	30 µg/g	0.0	< 20	Acceptable		
Methylisobutylketone	ND	ND	500 µg/g	0.0	< 20	Acceptable		
3-Methyl-1-butanol	ND	ND	500 µg/g	0.0	< 20	Acceptable		
Ethylene Glycol	ND	ND	200 µg/g	0.0	< 20	Acceptable		
Toluene	ND	ND	100 µg/g	0.0	< 20	Acceptable		
Isobutyl Acetate	ND	ND	500 µg/g	0.0	< 20	Acceptable		
1-Pentanol	ND	ND	500 µg/g	0.0	< 20	Acceptable		
Butyl Acetate	ND	ND	500 µg/g	0.0	< 20	Acceptable		
Ethylbenzene	ND	ND	200 µg/g	0.0	< 20	Acceptable		
m,p-Xylene	ND	ND	200 µg/g	0.0	< 20	Acceptable		
o-Xylene	ND	ND	200 µg/g	0.0	< 20	Acceptable		
Cumene	ND	ND	30 µg/g	0.0	< 20	Acceptable		
Anisole	ND	ND	500 µg/g	0.0	< 20	Acceptable		
DMSO	ND	ND	500 µg/g	0.0	< 20	Acceptable		
1,2-dimethoxyethane	ND	ND	50 µg/g	0.0	< 20	Acceptable		
Triethylamine	ND	ND	500 µg/g	0.0	< 20	Acceptable		
N,N-dimethylformamide	ND	ND	150 µg/g	0.0	< 20	Acceptable		
N,N-dimethylacetamide	ND	ND	150 µg/g	0.0	< 20	Acceptable		
Pyridine	ND	ND	50 µg/g	0.0	< 20	Acceptable		
1,2-Dichloroethane	ND	ND	1 µg/g	0.0	< 20	Acceptable		
Chloroform	ND	ND	1 µg/g	0.0	< 20	Acceptable		
Trichloroethylene	ND	ND	1 µg/g	0.0	< 20	Acceptable		

Abbreviations

ND - None Detected at or above MRL
RPD - Relative Percent Difference
LOQ - Limit of Quantitation

Units of Measure:

µg/g - Microgram per gram or ppm



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



Report Number: 22-004788/D005.R000
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Explanation of QC Flag Comments:

Code	Explanation
Q	Matrix interferences affecting spike or surrogate recoveries.
Q1	Quality control result biased high. Only non-detect samples reported.
Q2	Quality control outside QC limits. Data considered estimate.
Q3	Sample concentration greater than four times the amount spiked.
Q4	Non-homogenous sample matrix, affecting RPD result and/or % recoveries.
Q5	Spike results above calibration curve.
Q6	Quality control outside QC limits. Data acceptable based on remaining QC.
R	Relative percent difference (RPD) outside control limit.
R1	RPD non-calculable, as sample or duplicate results are less than five times the LOQ.
R2	Sample replicates RPD non-calculable, as only one replicate is within the analytical range.
LOQ1	Quantitation level raised due to low sample volume and/or dilution.
LOQ2	Quantitation level raised due to matrix interference.
B	Analyte detected in method blank, but not in associated samples.
B1	The sample concentration is greater than 5 times the blank concentration.
B2	The sample concentration is less than 5 times the blank concentration.