



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



Report Number: 22-001139/D032.R000
Report Date: 02/08/2022
ORELAP#: OR100028
Purchase Order:
Received: 01/31/22 16:12

Customer: IHC LLC
Product identity: 0105FLTBMCFV
Client/Metric ID: .
Laboratory ID: 22-001139-0030

Summary

Potency:

Analyte	Result (%)			
CBD-A	8.04		CBD-Total	7.33%
CBDV-A†	4.88		THC-Total	0.248%
CBG-A†	0.352		(Reported in percent of total sample)	
THC-A	0.283			
CBD	0.272			
CBDV†	0.152			
CBG†	0.0742			
CBC	0.0389			

Terpenes:

Analyte	Percent by weight	Percent of Total	Analyte	Percent by weight	Percent of Total
β-Myrcene†	0.691	34.21%	β-Caryophyllene†	0.361	17.87%
trans-β-Ocimene†	0.233	11.53%	Humulene†	0.169	8.37%
(R)-(+)-Limonene†	0.161	7.97%	α-pinene†	0.103	5.10%
α-Bisabolol†	0.0557	2.76%	farnesene†	0.0487	2.41%
(-)-β-Pinene†	0.0438	2.17%	(-)-Guaiol†	0.0422	2.09%
Linalool†	0.0421	2.08%	(-)-caryophyllene oxide†	0.0335	1.66%
(±)-trans-Nerolidol†	0.0235	1.16%	cis-β-Ocimene†	0.00819	0.41%
Total Terpenes†	2.02	100.00%			



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Received: 01/31/22 16:12

Customer: IHC LLC
 825 NW 16th Ave
 Portland Oregon 97209
 United States of America (USA)

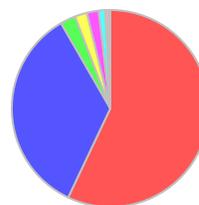
Product identity: 0105FLTBMCFV
Client/Metric ID: .
Sample Date:
Laboratory ID: 22-001139-0030
Evidence of Cooling: No
Temp: 20.3 °C
Relinquished by: Client



**THE HEMP
 COLLECT**

Sample Results

Potency	Method J AOAC 2015 V98-6 (mod)			Units %	Batch: 2201028	Analyze: 2/3/22 10:48:00 PM
Analyte	As Received	Dry weight	LOQ	Notes		
CBC	0.0389		0.0297			
CBC-A†	< LOQ		0.0297			
CBC-Total†	< LOQ		0.0558			
CBD	0.272		0.0297			
CBD-A	8.04		0.0297			
CBD-Total	7.33		0.0558			
CBDV†	0.152		0.0297			
CBDV-A†	4.88		0.0297			
CBDV-Total†	4.38		0.0555			
CBE†	< LOQ		0.0297			
CBG†	0.0742		0.0297			
CBG-A†	0.352		0.0297			
CBG-Total	0.383		0.0555			
CBL†	< LOQ		0.0297			
CBL-A†	< LOQ		0.0297			
CBL-Total†	< LOQ		0.0558			
CBN	< LOQ		0.0297			
CBT†	< LOQ		0.0297			
Δ8-THC†	< LOQ		0.0297			
Δ8-THCV	< LOQ		0.0297			
Δ9-THC	< LOQ		0.0297			
THC-A	0.283		0.0297			
THC-Total	0.248		0.0558			
THCV†	< LOQ		0.0297			
THCV-A†	< LOQ		0.0297			
THCV-Total†	< LOQ		0.0555			
Total Cannabinoids†	14.1					



- CBD-A
- CBDV-A
- CBG-A
- THC-A
- CBD
- CBDV
- CBG
- CBC

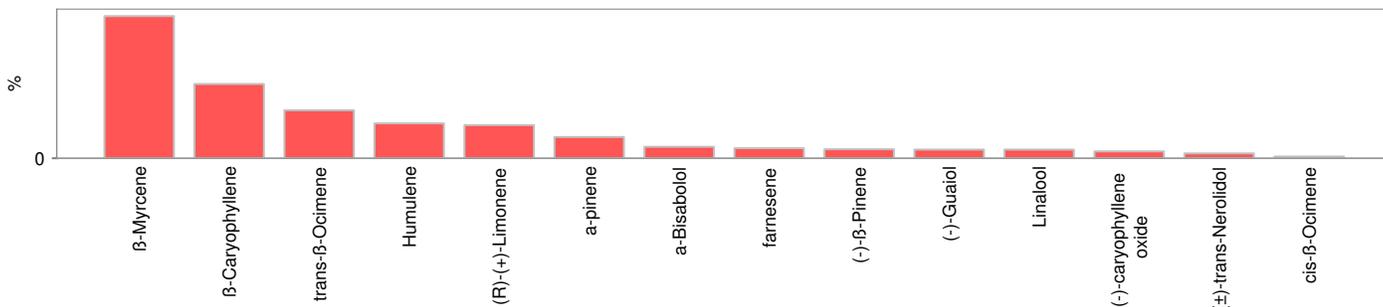


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Terpenes				Method J AOAC 2015 V98-6	Units %	Batch 2201077	Analyze 02/04/22 06:47 PM		
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
β-Myrcene [†]	0.691	0.019	34.208%		β-Caryophyllene [†]	0.361	0.019	17.871%	
trans-β-Ocimene [†]	0.233	0.012	11.535%		Humulene [†]	0.169	0.019	8.366%	
(R)-(+)-Limonene [†]	0.161	0.019	7.970%		α-pinene [†]	0.103	0.019	5.099%	
α-Bisabolol [†]	0.0557	0.019	2.7574%		farnesene [†]	0.0487	0.019	2.4109%	
(-)-β-Pinene [†]	0.0438	0.019	2.1683%		(-)-Guaiol [†]	0.0422	0.019	2.0891%	
Linalool [†]	0.0421	0.019	2.0842%		(-)-caryophyllene oxide [†]	0.0335	0.019	1.6584%	
(±)-trans-Nerolidol [†]	0.0235	0.019	1.1634%		(+)-fenchol [†]	< LOQ	0.019	0.00%	
Geraniol [†]	< LOQ	0.019	0.00%		(-)-α-Terpineol [†]	< LOQ	0.019	0.00%	
α-phellandrene [†]	< LOQ	0.019	0.00%		(+)-Cedrol [†]	< LOQ	0.019	0.00%	
cis-β-Ocimene [†]	0.00819	0.006			Menthyl [†]	< LOQ	0.019	0.00%	
Geranyl acetate [†]	< LOQ	0.019	0.00%		nerol [†]	< LOQ	0.019	0.00%	
Camphene [†]	< LOQ	0.019	0.00%		Isoborneol [†]	< LOQ	0.019	0.00%	
(+)-Borneol [†]	< LOQ	0.019	0.00%		(±)-Camphor [†]	< LOQ	0.019	0.00%	
(+)-Pulegone [†]	< LOQ	0.019	0.00%		d-3-Carene [†]	< LOQ	0.019	0.00%	
(-)-Isopulegol [†]	< LOQ	0.019	0.00%		Sabinene hydrate [†]	< LOQ	0.019	0.00%	
(±)-cis-Nerolidol [†]	< LOQ	0.019	0.00%		(±)-fenchone [†]	< LOQ	0.019	0.00%	
α-cedrene [†]	< LOQ	0.019	0.00%		α-Terpinene [†]	< LOQ	0.019	0.00%	
Eucalyptol [†]	< LOQ	0.019	0.00%		γ-Terpinene [†]	< LOQ	0.019	0.00%	
p-Cymene [†]	< LOQ	0.019	0.00%		Sabinene [†]	< LOQ	0.019	0.00%	
Terpinolene [†]	< LOQ	0.019	0.00%		valencene [†]	< LOQ	0.019	0.00%	
Total Terpenes	2.02								





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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

% = Percentage of sample

% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner
General Manager



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Hemp / Cannabis Usable / Extract / Finished Products
Chain of Custody Record

Revision: 4.00 Control#: CF023 Rev 02/24/2021 Eff: 03/04/2021
ORELAP ID: OR100028

Company: <u>IHC</u> Contact: <u>Kyle Farook</u> Street: <u>431 NW Flanders st.</u> City: <u>Portland</u> State: <u>OR</u> Zip: <u>97209</u> <input type="checkbox"/> Email Results: <u>dropbox</u> Ph: <u>(503) 608164</u> <input type="checkbox"/> Fx Results: () Billing (if different): <u>beth@thehempcollect.com</u>				Analysis Requested <input type="checkbox"/> Pesticides - OR 59 compounds <input type="checkbox"/> Pesticide Multi-Residue - 379 compounds <input type="checkbox"/> Potency <input type="checkbox"/> Residual Solvents <input type="checkbox"/> Moisture & Water Activity <input type="checkbox"/> Terpenes <input type="checkbox"/> Micro: Yeast and Mold <input type="checkbox"/> Micro: E.Coli and Total Coliform <input type="checkbox"/> Heavy Metals <input type="checkbox"/> Mycotoxins <input type="checkbox"/> Other:										PO Number: _____ Project Number: _____ Project Name: _____ Custom Reporting: _____ Report to State - <input type="checkbox"/> METRC or <input type="checkbox"/> Other: _____ Turnaround time: <input checked="" type="checkbox"/> 5 Business Day Standard Turnaround <input type="checkbox"/> 3 Business Day Rush Turnaround* <input type="checkbox"/> 2 Business Day Rush Turnaround* <small>*Check for availability</small> Sampled by: _____			
Lab ID	Client Sample Identification	Date	Time	Pesticides - OR 59 compounds	Pesticide Multi-Residue - 379 compounds	Potency	Residual Solvents	Moisture & Water Activity	Terpenes	Micro: Yeast and Mold	Micro: E.Coli and Total Coliform	Heavy Metals	Mycotoxins	Other	Sample Type †	Weight (Units)	Comments/Metric ID
1	0102030506LIRVAP200-FV	1/31				X									C		
2	0102030506LIRVAP200-TG	1/31				X									C		
3	010307LIRVAP200-OGK	1/31				X									C		
4	010307LIRVAP200-llama	1/31				X									C		
5	010307LIRVAP200-lava	1/31				X									C		
6	010307LIRVAP200-PP	1/31				X									C		
7	01LIRVAP200-ST	1/31				X									C		
8	01LIRVAP200-SG	1/31				X									C		
9	01LIRVAP200-PB	1/31				X									C		
10	01LIRVAP200-OG	1/31				X									C		
Relinquished By:		Date	Time	Received By:		Date	Time	Lab Use Only:									
Kyle Farook		1/31	4:30	Jmv				<input type="checkbox"/> Shipped Via: _____ or <input type="checkbox"/> Client drop Evidence of cooling: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No - Temp (°C): <u>20.3</u> Sample in good condition: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Cash <input type="checkbox"/> Check <input type="checkbox"/> CC <input type="checkbox"/> Net: _____ Prelog storage: _____									

† - Sample Type Codes: Vegetation (V) ; Isolates (S) ; Extract/Concentrate (C) ; Tincture/Topical (T) ; Edible (E) ; Beverage (B)

Samples submitted to Columbia Laboratories with testing requirements constitute an agreement for services in accordance with the current terms of service associated with this COC. By signing "Relinquished by" you are agreeing to these terms
 12423 NE Whitaker Way Portland, OR 97230 P: (503) 254-1794 | Fax: (503) 254-1452 info@columbiaboratories.com Page _____ of _____ www.columbiaboratories.com



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**Hemp / Cannabis Usable / Extract / Finished Products
 Chain of Custody Record**

Revision: 4.00 Control#: CF023 Rev 02/24/2021 Eff: 03/04/2021
 ORELAP ID: **OR100028**

Company: IHC Contact: Kyle Farook Street: 431 NW Flanders st. City: Portland State: OR Zip: 97209 <input type="checkbox"/> Email Results: dropbox Ph: (503) 6081664 <input type="checkbox"/> Fx Results: () Billing (if different): beth@thehempcollect.com				Analysis Requested Pesticides - OR 59 compounds Pesticide Multi-Residue - 379 compounds Potency Residual Solvents Moisture & Water Activity Terpenes Micro: Yeast and Mold Micro: E.Coli and Total Coliform Heavy Metals Mycotoxins Other:										PO Number: _____ Project Number: _____ Project Name: _____ Custom Reporting: _____ Report to State - <input type="checkbox"/> METRC or <input type="checkbox"/> Other: _____ Turnaround time: <input checked="" type="checkbox"/> 5 Business Day Standard Turnaround <input type="checkbox"/> 3 Business Day Rush Turnaround* <input type="checkbox"/> 2 Business Day Rush Turnaround* <i>*Check for availability</i>			
Lab ID	Client Sample Identification	Date	Time	Pesticides - OR 59 compounds	Pesticide Multi-Residue - 379 compounds	Potency	Residual Solvents	Moisture & Water Activity	Terpenes	Micro: Yeast and Mold	Micro: E.Coli and Total Coliform	Heavy Metals	Mycotoxins	Other	Sample Type †	Weight (Units)	Comments/Metrc ID
11	0107LIRVAP200-11ama	1/31				X									C		
12	01020506LIRVAP200-TG	1/31				X									C		
13	0103LIRSUG200-SP	1/31				X									C		
14	0103LIRSUG200-SG	1/31				X									C		
15	0103LIRSUG200-OG-K	1/31				X									C		
16	0103LIRSUG200-PB	1/31				X									C		
17	0102030506LIRVAP200-PW	1/31				X									C		
18	0102030506LIRSUG200-PW	1/31				X									C		
19	0102030506LIR ^{SUG} 200-FW	1/31				X									C		
20	0102030506LIRSUG200-TG	1/31				X									C		
Relinquished By:		Date	Time	Received By:		Date	Time	Lab Use Only:									
Kyle Farook		1/31	4:30	Amw		1/31/22	16:17	<input type="checkbox"/> Shipped Via: _____ or <input type="checkbox"/> Client drop Evidence of cooling: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No - Temp (°C): <u>20.3</u> Sample in good condition: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Cash <input type="checkbox"/> Check <input type="checkbox"/> CC <input type="checkbox"/> Net: _____ Prelog storage: _____									

† - Sample Type Codes: Vegetation (V) ; Isolates (S) ; Extract/Concentrate (C) ; Tincture/Topical (T) ; Edible (E) ; Beverage (B)

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Report Number: 22-001139/D032.R000
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 ORELAP#: OR100028
 Purchase Order:
 Received: 01/31/22 16:12



Hemp / Cannabis Usable / Extract / Finished Products
 Chain of Custody Record

Revision: 4.00 Control#: CF023 Rev 02/24/2021 Eff: 03/04/2021
 ORELAP ID: OR100028

Company: IHC Contact: Kyle Farook Street: 431 NW Flanders st. City: Portland State: OR Zip: 97209 <input type="checkbox"/> Email Results: dropbox Ph: (503) 608164 <input type="checkbox"/> Fx Results: () Billing (if different): beth@thehempcollector.com				Analysis Requested <input type="checkbox"/> Pesticides - OR 59 compounds <input type="checkbox"/> Pesticide Multi-Residue - 379 compounds <input type="checkbox"/> Potency <input type="checkbox"/> Residual Solvents <input type="checkbox"/> Moisture & Water Activity <input type="checkbox"/> Terpenes <input type="checkbox"/> Micro: Yeast and Mold <input type="checkbox"/> Micro: E.Coli and Total Coliform <input type="checkbox"/> Heavy Metals <input type="checkbox"/> Mycotoxins <input type="checkbox"/> Other:										PO Number: _____ Project Number: _____ Project Name: _____ Custom Reporting: _____ Report to State - <input type="checkbox"/> METRC or <input type="checkbox"/> Other: _____ Turnaround time: <input checked="" type="checkbox"/> 5 Business Day Standard Turnaround <input type="checkbox"/> 3 Business Day Rush Turnaround* <input type="checkbox"/> 2 Business Day Rush Turnaround* <i>*Check for availability</i> Sampled by: _____			
Lab ID	Client Sample Identification	Date	Time	Pesticides - OR 59 compounds	Pesticide Multi-Residue - 379 compounds	Potency	Residual Solvents	Moisture & Water Activity	Terpenes	Micro: Yeast and Mold	Micro: E.Coli and Total Coliform	Heavy Metals	Mycotoxins	Other:	Sample Type †	Weight (Units)	Comments/Metrc ID
21	010307LIRBDR200-06K	1/31				X									C		
22	01LIRS06-200-SP	1/31				X									C		
23	01LIRS06-200-PB	1/31				X									C		
24	01LIRS06-200-06	1/31				X									C		
25	01020506LIRBDR200-T6	1/31				X									C		
26	0107LIRBDR200-06K	1/31				X									C		
27	0107LIRBDR200-PP	1/31				X									C		
28	01LIRCRM200-PB	1/31				X									C		
29	01LIRCRM200-SP	1/31				X									C		
30	0105FLTBMCM-FV	1/31				X			X						V		
Relinquished By:		Date	Time	Received By:		Date	Time	Lab Use Only:									
Kyle Farook		1/31	4:30	Amu		1/31/22	16:17	<input type="checkbox"/> Shipped Via: _____ or <input type="checkbox"/> Client drop Evidence of cooling: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No - Temp (°C): 20.3 Sample in good condition: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Cash <input type="checkbox"/> Check <input type="checkbox"/> CC <input type="checkbox"/> Net: _____ Prelog storage: _____									

† - Sample Type Codes: Vegetation (V) ; Isolates (S) ; Extract/Concentrate (C) ; Tincture/Topical (T) ; Edible (E) ; Beverage (B)

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Revision: 1 Document ID: 7148
Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6								
Batch ID: 2201028								
Laboratory Control Sample								
Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes	
CBDVA	0.0395	0.04	%	98.7	85.0 - 115	Acceptable		
CBDV	0.0396	0.04	%	98.9	85.0 - 115	Acceptable		
CBE	0.0396	0.04	%	98.9	85.0 - 115	Acceptable		
CBDA	0.0426	0.04	%	107	85.0 - 115	Acceptable		
CBGA	0.0378	0.04	%	94.5	85.0 - 115	Acceptable		
CBG	0.0401	0.04	%	100	85.0 - 115	Acceptable		
CBD	0.0437	0.04	%	109	85.0 - 115	Acceptable		
THCV	0.0391	0.04	%	97.8	85.0 - 115	Acceptable		
d8THCV	0.0390	0.04	%	97.5	85.0 - 115	Acceptable		
THCVA	0.0344	0.04	%	85.9	85.0 - 115	Acceptable		
CBN	0.0453	0.04	%	113	85.0 - 115	Acceptable		
exo-THC	0.0378	0.04	%	94.5	85.0 - 115	Acceptable		
d9THC	0.0426	0.04	%	107	85.0 - 115	Acceptable		
d8THC	0.0390	0.04	%	97.5	85.0 - 115	Acceptable		
CBL	0.0366	0.04	%	91.6	85.0 - 115	Acceptable		
CBC	0.0406	0.04	%	101	85.0 - 115	Acceptable		
THCA	0.0402	0.04	%	100	85.0 - 115	Acceptable		
CBCA	0.0383	0.04	%	95.8	85.0 - 115	Acceptable		
CBLA	0.0405	0.04	%	101	85.0 - 115	Acceptable		
CBT	0.0398	0.04	%	99.4	85.0 - 115	Acceptable		

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes	
CBDVA	<LOQ	0.03	%	< 0.03	Acceptable		
CBDV	<LOQ	0.03	%	< 0.03	Acceptable		
CBE	<LOQ	0.03	%	< 0.03	Acceptable		
CBDA	<LOQ	0.03	%	< 0.03	Acceptable		
CBGA	<LOQ	0.03	%	< 0.03	Acceptable		
CBG	<LOQ	0.03	%	< 0.03	Acceptable		
CBD	<LOQ	0.03	%	< 0.03	Acceptable		
THCV	<LOQ	0.03	%	< 0.03	Acceptable		
d8THCV	<LOQ	0.03	%	< 0.03	Acceptable		
THCVA	<LOQ	0.03	%	< 0.03	Acceptable		
CBN	<LOQ	0.03	%	< 0.03	Acceptable		
exo-THC	<LOQ	0.03	%	< 0.03	Acceptable		
d9THC	<LOQ	0.03	%	< 0.03	Acceptable		
d8THC	<LOQ	0.03	%	< 0.03	Acceptable		
CBL	<LOQ	0.03	%	< 0.03	Acceptable		
CBC	<LOQ	0.03	%	< 0.03	Acceptable		
THCA	<LOQ	0.03	%	< 0.03	Acceptable		
CBCA	<LOQ	0.03	%	< 0.03	Acceptable		
CBLA	<LOQ	0.03	%	< 0.03	Acceptable		
CBT	<LOQ	0.03	%	< 0.03	Acceptable		

Abbreviations

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

Units of Measure:

% - Percent



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Revision: 1 Document ID: 7148
Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6		Batch ID: 2201028						
Sample Duplicate		Sample ID: 22-000930-0001-01						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.03	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.03	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.03	%	NA	< 20	Acceptable	
CBDA	7.22	7.08	0.03	%	1.98	< 20	Acceptable	
CBGA	0.264	0.260	0.03	%	1.51	< 20	Acceptable	
CBG	0.0763	0.0749	0.03	%	1.87	< 20	Acceptable	
CBD	2.05	2.00	0.03	%	2.12	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.03	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.03	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.03	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.03	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.03	%	NA	< 20	Acceptable	
d9THC	0.180	0.176	0.03	%	2.31	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.03	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.03	%	NA	< 20	Acceptable	
CBC	0.234	0.231	0.03	%	1.54	< 20	Acceptable	
THCA	0.196	0.191	0.03	%	2.42	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.03	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.03	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.03	%	NA	< 20	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

Report Number: 22-001139/D032.R000
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 Legacy ID: CFL-E57Worksheet Validated 11/04/2020

Terpenes Quality Control Results

Method Reference: EPA5035				Batch ID: 2201077					
Method Blank				Laboratory Control Sample					
Analyte	Result	LQ	Notes	Result	LCS	Units	LCS% Rec	Limits	Notes
a-pinene	<LOQ	< 200		499	500	µg/g	100%	70 - 130	
Camphene	<LOQ	< 200		513	500	µg/g	103%	70 - 130	
Sabinene	<LOQ	< 200		527	500	µg/g	105%	70 - 130	
b-Pinene	<LOQ	< 200		501	500	µg/g	100%	70 - 130	
b-Myrcene	<LOQ	< 200		476	500	µg/g	95%	70 - 130	
a-phellandrene	<LOQ	< 200		484	500	µg/g	97%	70 - 130	
d-3-Carene	<LOQ	< 200		507	500	µg/g	101%	70 - 130	
a-Terpinene	<LOQ	< 200		495	500	µg/g	99%	70 - 130	
p-Cymene	<LOQ	< 200		450	500	µg/g	90%	70 - 130	
D-Limonene	<LOQ	< 200		498	500	µg/g	100%	70 - 130	
Eucalyptol	<LOQ	< 200		488	500	µg/g	98%	70 - 130	
b-cis-Cimene	<LOQ	< 67		139	167	µg/g	84%	70 - 130	
b-trans-Cimene	<LOQ	< 133		296	333	µg/g	89%	70 - 130	
g-Terpinene	<LOQ	< 200		519	500	µg/g	104%	70 - 130	
Sabinene Hydrate	<LOQ	< 200		480	500	µg/g	96%	70 - 130	
Terpinolene	<LOQ	< 200		477	500	µg/g	95%	70 - 130	
D-Fenchone	<LOQ	< 200		523	500	µg/g	105%	70 - 130	
Linalool	<LOQ	< 200		410	500	µg/g	82%	70 - 130	
Fenchol	<LOQ	< 200		468	500	µg/g	94%	70 - 130	
Camphor	<LOQ	< 200		462	500	µg/g	92%	70 - 130	
Isopulego	<LOQ	< 200		522	500	µg/g	104%	70 - 130	
Isoborneol	<LOQ	< 200		500	500	µg/g	100%	70 - 130	
Borneol	<LOQ	< 200		473	500	µg/g	95%	70 - 130	
DL-Menthol	<LOQ	< 200		499	500	µg/g	100%	70 - 130	
Terpineol	<LOQ	< 200		415	500	µg/g	83%	70 - 130	
Nerd	<LOQ	< 200		421	500	µg/g	84%	70 - 130	
Pulegone	<LOQ	< 200		438	500	µg/g	88%	70 - 130	
Geraniol	<LOQ	< 200		401	500	µg/g	80%	70 - 130	
Geranyl Acetate	<LOQ	< 200		454	500	µg/g	91%	70 - 130	
a-Cedrene	<LOQ	< 200		471	500	µg/g	94%	70 - 130	
b-Caryophyllene	<LOQ	< 200		501	500	µg/g	100%	70 - 130	
a-Humulene	<LOQ	< 200		476	500	µg/g	95%	70 - 130	
Valene	<LOQ	< 200		482	500	µg/g	96%	70 - 130	
cis-Nerolidol	<LOQ	< 200		494	500	µg/g	99%	70 - 130	
a-Farnesene	<LOQ	< 200		449	500	µg/g	90%	70 - 130	
trans-Nerolidol	<LOQ	< 200		462	500	µg/g	92%	70 - 130	
Caryophyllene Oxide	<LOQ	< 200		535	500	µg/g	107%	70 - 130	
Quaiol	<LOQ	< 200		479	500	µg/g	96%	70 - 130	
Cedrol	<LOQ	< 200		489	500	µg/g	98%	70 - 130	
a-Bisabolol	<LOQ	< 200		586	500	µg/g	117%	70 - 130	

Definitions

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



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Terpenes Quality Control Results

Method Reference: EPA5035		Batch ID: 2201077					
Sample/ Sample Duplicate		Sample ID: 22-001139-0030					
Analyte	Result	Org. Result	LOQ	Units	% RPD	LIMIT	Notes
a-pinene	988	1030	194	µg/g	4%	< 20	
Camphene	<LOQ	<LOQ	194	µg/g	0%	< 20	
Sabinene	<LOQ	<LOQ	194	µg/g	0%	< 20	
b-Pinene	423	438	194	µg/g	3%	< 20	
b-Myrcene	6740	6910	194	µg/g	2%	< 20	
a-phellandrene	<LOQ	<LOQ	194	µg/g	0%	< 20	
d-3-Carene	<LOQ	<LOQ	194	µg/g	0%	< 20	
a-Terpinene	<LOQ	<LOQ	194	µg/g	0%	< 20	
p-Cymene	<LOQ	<LOQ	194	µg/g	0%	< 20	
D-Limonene	1580	1610	194	µg/g	2%	< 20	
Eucalyptol	<LOQ	<LOQ	194	µg/g	0%	< 20	
b-cis-Cimene	79	82	64.6	µg/g	3%	< 20	
b-trans-Cimene	2280	2330	129	µg/g	2%	< 20	
g-Terpinene	<LOQ	<LOQ	194	µg/g	0%	< 20	
Sabinene Hydrate	<LOQ	<LOQ	194	µg/g	0%	< 20	
Terpinolene	<LOQ	<LOQ	194	µg/g	0%	< 20	
D-Fenchone	<LOQ	<LOQ	194	µg/g	0%	< 20	
Linalool	405	421	194	µg/g	4%	< 20	
Fenchol	<LOQ	<LOQ	194	µg/g	0%	< 20	
Camphor	<LOQ	<LOQ	194	µg/g	0%	< 20	
Isopulego	<LOQ	<LOQ	194	µg/g	0%	< 20	
Isoborneol	<LOQ	<LOQ	194	µg/g	0%	< 20	
Borneol	<LOQ	<LOQ	194	µg/g	0%	< 20	
DL-Menthol	<LOQ	<LOQ	194	µg/g	0%	< 20	
Terpineol	<LOQ	<LOQ	194	µg/g	0%	< 20	
Nerd	<LOQ	<LOQ	194	µg/g	0%	< 20	
Pulegone	<LOQ	<LOQ	194	µg/g	0%	< 20	
Geraniol	<LOQ	<LOQ	194	µg/g	0%	< 20	
Geranyl Acetate	<LOQ	<LOQ	194	µg/g	0%	< 20	
a-Cedrene	<LOQ	<LOQ	194	µg/g	0%	< 20	
b-Caryophyllene	3600	3610	194	µg/g	0%	< 20	
a-Humulene	1700	1690	194	µg/g	1%	< 20	
Valene	<LOQ	<LOQ	194	µg/g	0%	< 20	
cis-Nerolidol	<LOQ	<LOQ	194	µg/g	0%	< 20	
a-Farnesene	515	487	194	µg/g	6%	< 20	
trans-Nerolidol	220	236	194	µg/g	7%	< 20	
Caryophyllene Oxide	337	335	194	µg/g	1%	< 20	
Guaiol	432	422	194	µg/g	2%	< 20	
Cedrol	<LOQ	<LOQ	194	µg/g	0%	< 20	
a-Bisabolol	569	557	194	µg/g	2%	< 20	

Definitions

RPD Relative Percent Difference



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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.