



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



Report Number: 21-014799/D007.R000
Report Date: 12/24/2021
ORELAP#: OR100028
Purchase Order:
Received: 12/17/21 16:16

Customer: IHC LLC
Product identity: 01LIR209_PP
Client/Metric ID: .
Laboratory ID: 21-014799-0002

Summary

Terpenes:

Analyte	Percent by weight	Percent of Total	Analyte	Percent by weight	Percent of Total
farnesene [†]	2.22	20.56%	Terpinolene [†]	1.69	15.65%
β-Caryophyllene [†]	1.59	14.72%	β-Myrcene [†]	1.06	9.81%
α-Bisabolol [†]	0.975	9.03%	Humulene [†]	0.826	7.65%
(R)-(+)-Limonene [†]	0.517	4.79%	trans-β-Ocimene [†]	0.341	3.16%
(-)-Guaiol [†]	0.272	2.52%	(-)-β-Pinene [†]	0.176	1.63%
Linalool [†]	0.173	1.60%	(-)-α-Terpineol [†]	0.150	1.39%
α-pinene [†]	0.122	1.13%	(-)-caryophyllene oxide [†]	0.114	1.06%
(±)-trans-Nerolidol [†]	0.101	0.94%	(+)-fenchol [†]	0.0994	0.92%
α-phellandrene [†]	0.0781	0.72%	α-Terpinene [†]	0.0736	0.68%
d-3-Carene [†]	0.0554	0.51%	γ-Terpinene [†]	0.0536	0.50%
Geraniol [†]	0.0342	0.32%	(+)-Borneol [†]	0.0316	0.29%
Eucalyptol [†]	0.0300	0.28%	Sabinene [†]	0.0261	0.24%
(±)-fenchone [†]	0.0197	0.18%	cis-β-Ocimene [†]	0.0147	0.14%
Total Terpenes[†]	10.8	100.00%			



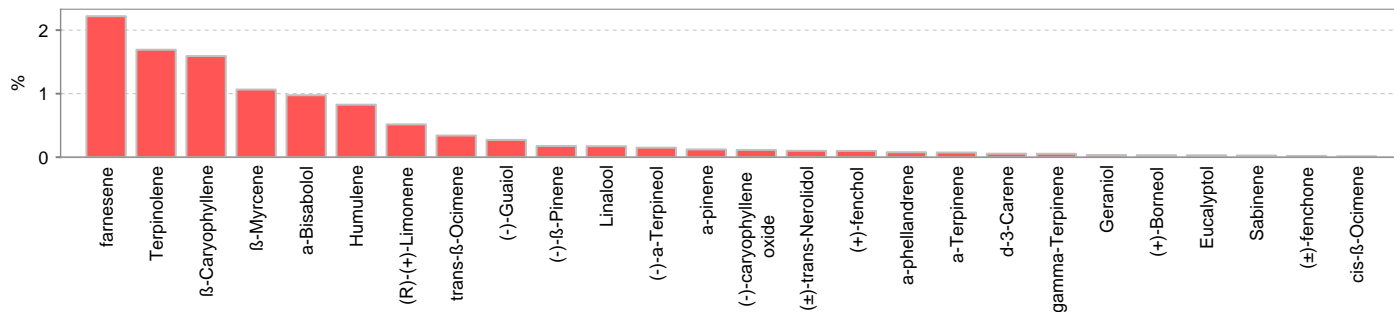
Customer: IHC LLC
 825 NW 16th Ave
 Portland Oregon 97209
 United States of America (USA)

Product identity: 01LIR209_PP
Client/Metric ID: .
Sample Date:
Laboratory ID: 21-014799-0002
Evidence of Cooling: No
Temp: 20 °C
Relinquished by: Client



Sample Results

Terpenes					Batch 2111407				
Method J AOAC 2015 V98-6					Analyze 12/22/21 07:50 PM				
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
farnesene [†]	2.22	0.019	20.56%		Terpinolene [†]	1.69	0.019	15.65%	
β-Caryophyllene [†]	1.59	0.019	14.72%		β-Myrcene [†]	1.06	0.019	9.81%	
α-Bisabolol [†]	0.975	0.019	9.028%		Humulene [†]	0.826	0.019	7.648%	
(R)-(+)-Limonene [†]	0.517	0.019	4.787%		trans-β-Ocimene [†]	0.341	0.012	3.157%	
(-)-Guaiol [†]	0.272	0.019	2.519%		(-)-β-Pinene [†]	0.176	0.019	1.630%	
Linalool [†]	0.173	0.019	1.602%		(-)-α-Terpineol [†]	0.150	0.019	1.389%	
α-pinene [†]	0.122	0.019	1.130%		(-)-caryophyllene oxide [†]	0.114	0.019	1.056%	
(±)-trans-Nerolidol [†]	0.101	0.019	0.935%		(+)-fenchol [†]	0.0994	0.019	0.9204%	
α-phellandrene [†]	0.0781	0.019	0.7231%		α-Terpinene [†]	0.0736	0.019	0.6815%	
d-3-Carene [†]	0.0554	0.019	0.5130%		γ-Terpinene [†]	0.0536	0.019	0.4963%	
Geraniol [†]	0.0342	0.019	0.3167%		(+)-Borneol [†]	0.0316	0.019	0.2926%	
Eucalyptol [†]	0.0300	0.019	0.2778%		Sabinene [†]	0.0261	0.019	0.2417%	
(±)-fenchone [†]	0.0197	0.019	0.1824%		Sabinene hydrate [†]	< LOQ	0.019	0.00%	
cis-β-Ocimene [†]	0.0147	0.006	0.1361%		(±)-Camphor [†]	< LOQ	0.019	0.00%	
nerol [†]	< LOQ	0.019	0.00%		p-Cymene [†]	< LOQ	0.019	0.00%	
valencene [†]	< LOQ	0.019	0.00%		Camphene [†]	< LOQ	0.019	0.00%	
Geranyl acetate [†]	< LOQ	0.019	0.00%		(+)-Pulegone [†]	< LOQ	0.019	0.00%	
(-)-Isopulegol [†]	< LOQ	0.019	0.00%		(+)-Cedrol [†]	< LOQ	0.019	0.00%	
(±)-cis-Nerolidol [†]	< LOQ	0.019	0.00%		α-cedrene [†]	< LOQ	0.019	0.00%	
Isoborneol [†]	< LOQ	0.019	0.00%		Menthyl [†]	< LOQ	0.019	0.00%	
Total Terpenes	10.8								





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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#: CFC023 Rev 02/24/2021 Eff: 03/04/2021
 ORELAP#: 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> It: <u>(b1) bU51b4</u> <input type="checkbox"/> Fax Results: () Billing (if different): <u>both@thehempcollect.com</u>				Analysis Requested Particulates - Oil 50 compounds Potassium Multiple Residues - 270 compounds Potency Radical 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"/> METHC 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	Particulates - Oil 50 compounds	Potassium Multiple Residues - 270 compounds	Potency	Radical Solvents	Moisture & Water Activity	Terpenes	Micro: Yeast and Mold	Micro: E. coli and Total Coliform	Heavy Metals	Mycotoxins	Other:	Sample Type ¹	Weight (units)	Comments/Metric ID
1	0103LIRVAP200	12/17				X									C		-Sample #4: Report in mg of analyte per 0.75g unit size
2	01LIRVAP200	12/17				X									C		
3	D8 Sprayed Suzie's Gift	12/17				X									V		
4	01SFT304_Veg	12/17				X									E	.75g / unit	
5																	
6																	
7																	
8																	
9																	
10																	
Requested by:		Date	Time	Requested by:		Date	Time	Lab Use Only:									
Kyle Farook		12/17	4:00	DS		12/17/21	16:16	<input type="checkbox"/> Shipped Via: _____ or <input checked="" type="checkbox"/> Client drop Evidence of cooling: <input type="checkbox"/> Yes <input type="checkbox"/> No - Temp (°C) <u>20.2</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"/> Rec: Prolong storage: _____									

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

Samples submitted to Columbia Laboratories with testing requirements outside an approved list are subject to an additional fee. All samples are subject to the laboratory's standard terms of service associated with the CFC. For pricing "Indicated by" prices are subject to their area.

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

Revision: 4.00 Control#: CF025 Rev 01/24/2021 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 Fax Results: () Billing (if different): beth@thehempcollect.com				Analysis Requested Pesticides - OR 59 compounds Pesticide Meta-Barcodes - 370 compounds Potency Residual Solvents Moisture & Water Activity Terpenes Micro: Yeast and Mold Micro: Coli and Total Coliforms 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* <small>*Check for availability</small>			
Lab ID	Clear Sample Identification	Date	Time	Pesticides - OR 59 compounds	Pesticide Meta-Barcodes - 370 compounds	Potency	Residual Solvents	Moisture & Water Activity	Terpenes	Micro: Yeast and Mold	Micro: Coli and Total Coliforms	Heavy Metals	Mycotoxins	Other	Sample Type 1	Weight (Units)	Comments/Memo ID
1	01LIR211_WS	12/17								X					C		
2	01LIR209_PP	12/17								X					C		
3	01LIR209_OGK	12/17								X					C		
4	01LIR209_SG	12/17								X					C		
5	01TRP209_SH	12/17								X					C		
6	01020506LIRBDR200	12/17				X									C		
7	01LIRSGR200	12/17				X									C		
8	01LIRCRM200	12/17				X									C		
9	0107LIRBDR200	12/17				X									C		
10	01ISO204	12/17		X		X	X					X			S		
Submitted by:			Date	Time	Received by:			Date	Time	Lab Use Only:							
Kyle Farook			12/17	4:00	DS			12/17/21	16:16	<input type="checkbox"/> Shipped Via: _____ or <input checked="" type="checkbox"/> Next drop Evidence of cooling: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No - Temp (°C): <u>0-2</u> Sample in good condition: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Cool <input type="checkbox"/> Check <input type="checkbox"/> CC <input type="checkbox"/> Wet: _____ Prelog storage: _____							

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

Sample submitted to Columbia Laboratories with testing requirements constitutes an agreement for services in accordance with the current price of service associated with this CCR. By signing "Submitted by" you are agreeing to these terms.

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Revision: Document ID:
Legacy ID: Effective:

Terpenes Quality Control Results

Method Reference: EPA 5035				Batch ID: 2111407					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	LCS	Units	LCS % Rec	Limits	Notes
a-pinene	<LOQ	< 200		503	500	µg/g	101%	70 - 130	
Camphene	<LOQ	< 200		468	500	µg/g	94%	70 - 130	
Sabinene	<LOQ	< 200		494	500	µg/g	99%	70 - 130	
b-Pinene	<LOQ	< 200		548	500	µg/g	110%	70 - 130	
b-Myrcene	<LOQ	< 200		424	500	µg/g	85%	70 - 130	
a-phellandrene	<LOQ	< 200		405	500	µg/g	81%	70 - 130	
d-3-Carene	<LOQ	< 200		486	500	µg/g	97%	70 - 130	
a-Terpinene	<LOQ	< 200		501	500	µg/g	100%	70 - 130	
p-Cymene	<LOQ	< 200		434	500	µg/g	87%	70 - 130	
D-Limonene	<LOQ	< 200		495	500	µg/g	99%	70 - 130	
Eucalyptol	<LOQ	< 200		482	500	µg/g	96%	70 - 130	
b-cis-Ocimene	<LOQ	< 67		153	167	µg/g	92%	70 - 130	
b-trans-Ocimene	<LOQ	< 133		305	333	µg/g	91%	70 - 130	
g-Terpinene	<LOQ	< 200		493	500	µg/g	99%	70 - 130	
Sabinene_Hydrate	<LOQ	< 200		531	500	µg/g	106%	70 - 130	
Terpinolene	<LOQ	< 200		474	500	µg/g	95%	70 - 130	
D-Fenchone	<LOQ	< 200		524	500	µg/g	105%	70 - 130	
Linalool	<LOQ	< 200		475	500	µg/g	95%	70 - 130	
Fenchol	<LOQ	< 200		523	500	µg/g	105%	70 - 130	
Camphor	<LOQ	< 200		455	500	µg/g	91%	70 - 130	
Isopulego	<LOQ	< 200		401	500	µg/g	80%	70 - 130	
Isoborneol	<LOQ	< 200		486	500	µg/g	97%	70 - 130	
Borneol	<LOQ	< 200		566	500	µg/g	113%	70 - 130	
DL-Menthol	<LOQ	< 200		459	500	µg/g	92%	70 - 130	
Terpineol	<LOQ	< 200		495	500	µg/g	99%	70 - 130	
Nerol	<LOQ	< 200		411	500	µg/g	82%	70 - 130	
Pulegone	<LOQ	< 200		521	500	µg/g	104%	70 - 130	
Geraniol	<LOQ	< 200		434	500	µg/g	87%	70 - 130	
Geranyl_Acetate	<LOQ	< 200		442	500	µg/g	88%	70 - 130	
a-Cedrene	<LOQ	< 200		551	500	µg/g	110%	70 - 130	
b-Caryophyllene	<LOQ	< 200		520	500	µg/g	104%	70 - 130	
a-Humulene	<LOQ	< 200		574	500	µg/g	115%	70 - 130	
Valenene	<LOQ	< 200		459	500	µg/g	92%	70 - 130	
cis-Nerolidol	<LOQ	< 200		486	500	µg/g	97%	70 - 130	
a-Farnesene	<LOQ	< 200		508	500	µg/g	102%	70 - 130	
trans-Nerolidol	<LOQ	< 200		565	500	µg/g	113%	70 - 130	
Caryophyllene_Oxide	<LOQ	< 200		460	500	µg/g	92%	70 - 130	
Guaiol	<LOQ	< 200		594	500	µg/g	119%	70 - 130	
Cedrol	<LOQ	< 200		541	500	µg/g	108%	70 - 130	
a-Bisabolol	<LOQ	< 200		528	500	µg/g	106%	70 - 130	

Definitions

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



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Terpenes Quality Control Results

Method Reference: EPA 5035		Batch ID: 2111407					
Sample/Sample Duplicate		Sample ID: 21-014768-0004					
Analyte	Result	Org. Result	LOQ	Units	% RPD	LIMIT	Notes
a-pinene	<LOQ	<LOQ	182	µg/g	0%	< 20	
Camphene	<LOQ	<LOQ	182	µg/g	0%	< 20	
Sabinene	<LOQ	<LOQ	182	µg/g	0%	< 20	
b-Pinene	<LOQ	<LOQ	182	µg/g	0%	< 20	
b-Myrcene	<LOQ	<LOQ	182	µg/g	0%	< 20	
a-phellandrene	<LOQ	<LOQ	182	µg/g	0%	< 20	
d-3-Carene	<LOQ	<LOQ	182	µg/g	0%	< 20	
a-Terpinene	<LOQ	<LOQ	182	µg/g	0%	< 20	
p-Cymene	<LOQ	<LOQ	182	µg/g	0%	< 20	
D-Limonene	<LOQ	<LOQ	182	µg/g	0%	< 20	
Eucalyptol	<LOQ	<LOQ	182	µg/g	0%	< 20	
b-cis-Ocimene	<LOQ	<LOQ	60.7	µg/g	0%	< 20	
b-trans-Ocimene	<LOQ	<LOQ	121	µg/g	0%	< 20	
g-Terpinene	<LOQ	<LOQ	182	µg/g	0%	< 20	
Sabinene_Hydrate	<LOQ	<LOQ	182	µg/g	0%	< 20	
Terpinolene	<LOQ	<LOQ	182	µg/g	0%	< 20	
D-Fenchone	<LOQ	<LOQ	182	µg/g	0%	< 20	
Linalool	<LOQ	<LOQ	182	µg/g	0%	< 20	
Fenchol	<LOQ	<LOQ	182	µg/g	0%	< 20	
Camphor	<LOQ	<LOQ	182	µg/g	0%	< 20	
Isopulego	<LOQ	<LOQ	182	µg/g	0%	< 20	
Isoborneol	<LOQ	<LOQ	182	µg/g	0%	< 20	
Borneol	<LOQ	<LOQ	182	µg/g	0%	< 20	
DL-Menthol	<LOQ	<LOQ	182	µg/g	0%	< 20	
Terpineol	<LOQ	<LOQ	182	µg/g	0%	< 20	
Nerol	<LOQ	<LOQ	182	µg/g	0%	< 20	
Pulegone	<LOQ	<LOQ	182	µg/g	0%	< 20	
Geraniol	<LOQ	<LOQ	182	µg/g	0%	< 20	
Geranyl_Acetate	<LOQ	<LOQ	182	µg/g	0%	< 20	
a-Cedrene	<LOQ	<LOQ	182	µg/g	0%	< 20	
b-Caryophyllene	1330	1340	182	µg/g	1%	< 20	
a-Humulene	786	782	182	µg/g	1%	< 20	
Valenene	<LOQ	<LOQ	182	µg/g	0%	< 20	
cis-Nerolidol	<LOQ	<LOQ	182	µg/g	0%	< 20	
a-Farnesene	2030	1960	182	µg/g	4%	< 20	
trans-Nerolidol	<LOQ	<LOQ	182	µg/g	0%	< 20	
Caryophyllene_Oxide	<LOQ	<LOQ	182	µg/g	0%	< 20	
Guaialol	605	601	182	µg/g	1%	< 20	
Cedrol	<LOQ	<LOQ	182	µg/g	0%	< 20	
a-Bisabolol	1630	1620	182	µg/g	1%	< 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.