



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



**Report Number:** 22-010580/D007.R000  
**Report Date:** 09/13/2022  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 09/06/22 13:15

**Customer:** IHC LLC  
**Product identity:** Live D8 - OG  
**Client/Metric ID:** .  
**Laboratory ID:** 22-010580-0003

### Summary

#### Terpenes:

Analyte	Percent by weight	Percent of Total	Analyte	Percent by weight	Percent of Total
$\beta$ -Myrcene	1.01	50.25%	p-Cymene	0.312	15.52%
a-pinene	0.136	6.77%	(R)-(+)-Limonene	0.124	6.17%
farnesene	0.0973	4.84%	$\beta$ -Caryophyllene	0.0892	4.44%
Terpinolene	0.0613	3.05%	(-)- $\beta$ -Pinene	0.0535	2.66%
a-Bisabolol	0.0523	2.60%	Humulene	0.0467	2.32%
trans- $\beta$ -Ocimene	0.0321	1.60%	<b>Total Terpenes</b>	<b>2.01</b>	<b>100.00%</b>



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

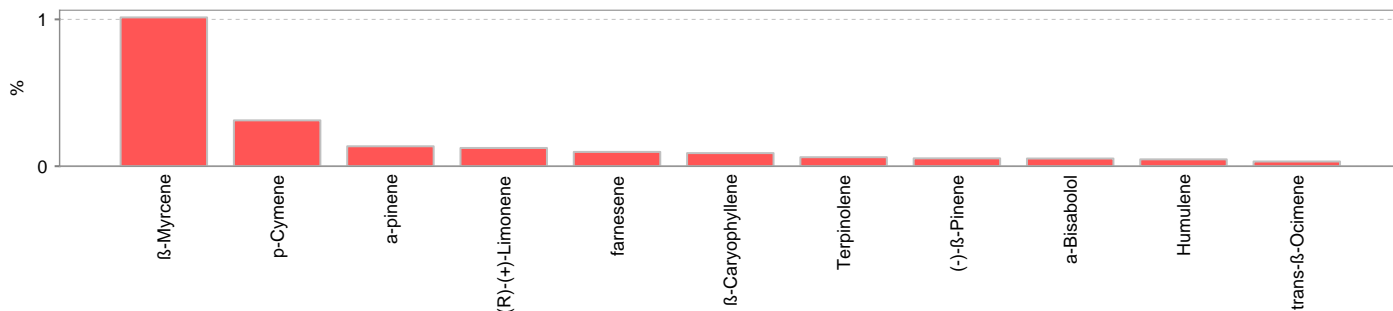
**Product identity:** Live D8 - OG  
**Client/Metric ID:** .  
**Sample Date:**  
**Laboratory ID:** 22-010580-0003  
**Evidence of Cooling:** No  
**Temp:** 7.4 °C  
**Relinquished by:** Giuffrida



## Sample Results



Terpenes				Method: J AOAC 2015 V98-6	Units %	Batch 2207586	Analyze 09/08/22 02:50 AM		
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
β-Myrcene	1.01	0.019	50.25%		p-Cymene	0.312	0.019	15.522%	
α-pinene	0.136	0.019	6.766%		(R)-(+)-Limonene	0.124	0.019	6.169%	
farnesene	0.0973	0.019	4.8408%		β-Caryophyllene	0.0892	0.019	4.4378%	
Terpinolene	0.0613	0.019	3.0498%		(-)-β-Pinene	0.0535	0.019	2.6617%	
α-Bisabolol	0.0523	0.019	2.6020%		Humulene	0.0467	0.019	2.3234%	
trans-β-Ocimene	0.0321	0.012	1.5970%		(-)-Guaiol	< LOQ	0.019	0.00%	
nerol	< LOQ	0.019	0.00%		α-phellandrene	< LOQ	0.019	0.00%	
valencene	< LOQ	0.019	0.00%		(-)-caryophyllene oxide	< LOQ	0.019	0.00%	
Geraniol	< LOQ	0.019	0.00%		Linalool	< LOQ	0.019	0.00%	
(-)-α-Terpineol	< LOQ	0.019	0.00%		Geranyl acetate	< LOQ	0.019	0.00%	
(-)-Isopulegol	< LOQ	0.019	0.00%		(+)-fenchol	< LOQ	0.019	0.00%	
(±)-trans-Nerolidol	< LOQ	0.019	0.00%		Menthol	< LOQ	0.019	0.00%	
(±)-Camphor	< LOQ	0.019	0.00%		d-3-Carene	< LOQ	0.019	0.00%	
(+)-Pulegone	< LOQ	0.019	0.00%		γ-Terpinene	< LOQ	0.019	0.00%	
(±)-cis-Nerolidol	< LOQ	0.019	0.00%		Sabinene hydrate	< LOQ	0.019	0.00%	
(+)-Borneol	< LOQ	0.019	0.00%		α-cedrene	< LOQ	0.019	0.00%	
Camphene	< LOQ	0.019	0.00%		Isoborneol	< LOQ	0.019	0.00%	
(+)-Cedrol	< LOQ	0.019	0.00%		(±)-fenchone	< LOQ	0.019	0.00%	
α-Terpinene	< LOQ	0.019	0.00%		cis-β-Ocimene	< LOQ	0.006	0.00%	
Eucalyptol	< LOQ	0.019	0.00%		Sabinene	< LOQ	0.019	0.00%	
<b>Total Terpenes</b>	<b>2.01</b>								





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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.

**Units of Measure**

% = Percentage of sample

% wt =  $\mu\text{g/g}$  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#: CPO23 Rev 02/24/2021 Eff: 03/04/2021  
 ORELAPID: OR300028

Company: <b>The Hemp Collect</b> Contact: <b>kyle@thehempcollect.com</b> Street: <b>431 NW Flinders st.</b> City: <b>Portland</b> State: <b>OR</b> Zip: <b>97209</b> <input checked="" type="checkbox"/> Email Results: <b>dropbox (IHL)</b> Fx: (b1) SUBSID# <input type="checkbox"/> Fx Results: ( ) Billing of different: <b>joel@thehempcollect.com</b>				<b>Analysis Requested</b>										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"/> 3 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	Client Sample Identification	Date	Time	Particles - OR 59 (required)	Pesticide Multi-Residue - 375 compounds	Potency	Individual Solvents	Moisture & Water Activity	Terpenes	Molds: Yeast and Mould	Molds: Total and Total Coliform	Heavy Metals	Mycotoxins	Drift:	Sample Type 1	Weight (units)	Comments/Memo ID
1	Live D8 - FV							X							C		Alternate Client name: ATLH
2	Live D8 - Llana							X							C		
3	Live D8 - OG							X							C		
4	Live D8 - PB							X							C		
5	D8 - SSC_HT							X							C		
6	D8 - FF_BT							X							C		
7																	
8																	
9																	
10																	
Released by:		Date:	Time:	Received by:		Date:	Time:	Lab Use Only:									
Kyle Farook		9/6	12:30	[Signature]		9/6/22	12:18	<input type="checkbox"/> Shipped Via: _____ or <input type="checkbox"/> Client drop Evidence of cooling: <input type="checkbox"/> Yes   <input type="checkbox"/> No - Temp (C): <u>7.4</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: _____ Prekg storage: _____									
[Signature]		9/6/22	12:40	AR		9/6/22	13:35										

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

Sample received by Columbia Laboratories with testing requirements constitutes an agreement for services in accordance with the current terms of service associated with this COC. By signing "Released by" you are agreeing to these terms.  
 12423 NE Whitaker Way  
 Portland, OR 97230  
 P: (503) 254-1794 / Fax: (503) 254-2432  
 E: info@columbiainc.com  
 Page \_\_\_\_\_ of \_\_\_\_\_  
 www.columbiainc.com



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

**Terpenes Quality Control Results**

Method Reference: EPA 5035				Batch ID: 2207586					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	LCS	Units	LCS % Rec	Limits	Notes
a-pinene	<LOQ	< 200		500	500	µg/g	100%	70 - 130	
Camphene	<LOQ	< 200		506	500	µg/g	101%	70 - 130	
Sabinene	<LOQ	< 200		502	500	µg/g	100%	70 - 130	
b-Pinene	<LOQ	< 200		508	500	µg/g	102%	70 - 130	
b-Myrcene	<LOQ	< 200		524	500	µg/g	105%	70 - 130	
a-phellandrene	<LOQ	< 200		544	500	µg/g	109%	70 - 130	
d-3-Carene	<LOQ	< 200		535	500	µg/g	107%	70 - 130	
a-Terpinene	<LOQ	< 200		502	500	µg/g	100%	70 - 130	
p-Cymene	<LOQ	< 200		540	500	µg/g	108%	70 - 130	
D-Limonene	<LOQ	< 200		498	500	µg/g	100%	70 - 130	
Eucalyptol	<LOQ	< 200		505	500	µg/g	101%	70 - 130	
b-cis-Ocimene	<LOQ	< 67		173	167	µg/g	104%	70 - 130	
b-trans-Ocimene	<LOQ	< 133		364	333	µg/g	109%	70 - 130	
g-Terpinene	<LOQ	< 200		503	500	µg/g	101%	70 - 130	
Sabinene_Hydrate	<LOQ	< 200		502	500	µg/g	100%	70 - 130	
Terpinolene	<LOQ	< 200		515	500	µg/g	103%	70 - 130	
D-Fenchone	<LOQ	< 200		476	500	µg/g	95%	70 - 130	
Linalool	<LOQ	< 200		620	500	µg/g	124%	70 - 130	
Fenchol	<LOQ	< 200		526	500	µg/g	105%	70 - 130	
Camphor	<LOQ	< 200		516	500	µg/g	103%	70 - 130	
Isopulego	<LOQ	< 200		559	500	µg/g	112%	70 - 130	
Isoborneol	<LOQ	< 200		535	500	µg/g	107%	70 - 130	
Borneol	<LOQ	< 200		523	500	µg/g	105%	70 - 130	
DL-Menthol	<LOQ	< 200		515	500	µg/g	103%	70 - 130	
Terpineol	<LOQ	< 200		528	500	µg/g	106%	70 - 130	
Nerol	<LOQ	< 200		544	500	µg/g	109%	70 - 130	
Pulegone	<LOQ	< 200		550	500	µg/g	110%	70 - 130	
Geraniol	<LOQ	< 200		565	500	µg/g	113%	70 - 130	
Geranyl_Acetate	<LOQ	< 200		535	500	µg/g	107%	70 - 130	
a-Cedrene	<LOQ	< 200		499	500	µg/g	100%	70 - 130	
b-Caryophyllene	<LOQ	< 200		529	500	µg/g	106%	70 - 130	
a-Humulene	<LOQ	< 200		558	500	µg/g	112%	70 - 130	
Valenene	<LOQ	< 200		516	500	µg/g	103%	70 - 130	
cis-Nerolidol	<LOQ	< 200		572	500	µg/g	114%	70 - 130	
a-Farnesene	<LOQ	< 200		542	500	µg/g	108%	70 - 130	
trans-Nerolidol	<LOQ	< 200		526	500	µg/g	105%	70 - 130	
Caryophyllene_Oxide	<LOQ	< 200		524	500	µg/g	105%	70 - 130	
Guaiol	<LOQ	< 200		546	500	µg/g	109%	70 - 130	
Cedrol	<LOQ	< 200		561	500	µg/g	112%	70 - 130	
a-Bisabolol	<LOQ	< 200		631	500	µg/g	126%	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: 2207586					
Sample/Sample Duplicate		Sample ID: 22-010450-0001					
Analyte	Result	Org. Result	LOQ	Units	% RPD	LIMIT	Notes
a-pinene	37700	37700	197	µg/g	0%	< 20	
Camphene	1590	1590	197	µg/g	0%	< 20	
Sabinene	1500	1510	197	µg/g	1%	< 20	
b-Pinene	19400	19300	197	µg/g	1%	< 20	
b-Myrcene	122000	122000	197	µg/g	0%	< 20	
a-phellandrene	<LOQ	<LOQ	197	µg/g	0%	< 20	
d-3-Carene	208	213	197	µg/g	2%	< 20	
a-Terpinene	1530	1530	197	µg/g	0%	< 20	
p-Cymene	676	667	197	µg/g	1%	< 20	
D-Limonene	61600	61400	197	µg/g	0%	< 20	
Eucalyptol	4460	4450	197	µg/g	0%	< 20	
b-cis-Ocimene	<LOQ	<LOQ	65.7	µg/g	0%	< 20	
b-trans-Ocimene	<LOQ	<LOQ	131	µg/g	0%	< 20	
g-Terpinene	1060	1070	197	µg/g	1%	< 20	
Sabinene_Hydrate	<LOQ	<LOQ	197	µg/g	0%	< 20	
Terpinolene	9850	9820	197	µg/g	0%	< 20	
D-Fenchone	<LOQ	<LOQ	197	µg/g	0%	< 20	
Linalool	67900	67900	197	µg/g	0%	< 20	
Fenchol	26100	26100	197	µg/g	0%	< 20	
Camphor	474	470	197	µg/g	1%	< 20	
Isopulego	<LOQ	<LOQ	197	µg/g	0%	< 20	
Isoborneol	<LOQ	<LOQ	197	µg/g	0%	< 20	
Borneol	7520	7510	197	µg/g	0%	< 20	
DL-Menthol	<LOQ	<LOQ	197	µg/g	0%	< 20	
Terpineol	19700	19700	197	µg/g	0%	< 20	
Nerol	<LOQ	<LOQ	197	µg/g	0%	< 20	
Pulegone	<LOQ	<LOQ	197	µg/g	0%	< 20	
Geraniol	892	878	197	µg/g	2%	< 20	
Geranyl_Acetate	<LOQ	<LOQ	197	µg/g	0%	< 20	
a-Cedrene	<LOQ	<LOQ	197	µg/g	0%	< 20	
b-Caryophyllene	244000	243000	197	µg/g	0%	< 20	
a-Humulene	238000	237000	197	µg/g	0%	< 20	
Valenene	20300	20200	197	µg/g	0%	< 20	
cis-Nerolidol	<LOQ	<LOQ	197	µg/g	0%	< 20	
a-Farnesene	<LOQ	<LOQ	197	µg/g	0%	< 20	
trans-Nerolidol	38000	38000	197	µg/g	0%	< 20	
Caryophyllene_Oxide	30100	30100	197	µg/g	0%	< 20	
Guaiol	<LOQ	<LOQ	197	µg/g	0%	< 20	
Cedrol	<LOQ	<LOQ	197	µg/g	0%	< 20	
a-Bisabolol	27300	27200	197	µg/g	0%	< 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.