Columbia LABORATORIES
A Tentamus Company

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

Report Number:	23-001439/D006.R000
Report Date:	02/09/2023
ORELAP#:	OR100028
Purchase Order:	
Received:	02/02/23 15:16

Customer:	IHC LLC
Product identity:	Bubba D8 Flower
Client/Metrc ID:	.
Laboratory ID:	23-001439-0006

Summary

Residual Solvents:

All analytes passing and less than LOQ.

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

Product identity: Bubba D8 Flower
Client/Metrc ID: .
Sample Date:
Laboratory ID: 23-001439-0006
Evidence of Cooling: No
Temp: 20.1
Relinquished by: client

THE HEMP COLLECT

Sample Results

Solvents **Method:** Residual Solvents by GC/MSᵖ **Units** µg/g **Batch** 2301264 **Analyze** 02/09/23 10:55 AM

Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
1,2-Dichloroethane	< LOQ	1.00	1.00	pass		2-Propanol (IPA)	< LOQ	5000	200	pass	
Acetone	< LOQ	5000	200	pass		Acetonitrile	< LOQ	410	100	pass	
Benzene	< LOQ	1.00	1.00	pass		Chloroform	< LOQ	1.00	1.00	pass	
Ethyl acetate	< LOQ	5000	200	pass		Ethyl ether	< LOQ	5000	200	pass	
Ethylene oxide	< LOQ	1.00	1.00	pass		m,p-Xylene	< LOQ		200		
Methanol	< LOQ	3000	200	pass		Methylene chloride	< LOQ	1.00	1.00	pass	
n-Butane	< LOQ	5000	200	pass		n-Heptane	< LOQ	5000	200	pass	
n-Hexane	< LOQ	290	30.0	pass		n-Pentane	< LOQ	5000	200	pass	
o-Xylene	< LOQ		200			Propane	< LOQ	5000	200	pass	
Toluene	< LOQ	890	100	pass		Total Xylenes	< LOQ	2170	400	pass	
Trichloroethylene	< LOQ	1.00	1.00	pass							

Mycotoxins

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed	Method	Status	Notes
Aflatoxin B2¥	< LOQ		µg/kg	5.00	2301199	02/08/23	AOAC 2007.01 & EN 15662 (mod)ᵖ		
Aflatoxin B1¥	< LOQ		µg/kg	5.00	2301199	02/08/23	AOAC 2007.01 & EN 15662 (mod)ᵖ		
Aflatoxin G1¥	< LOQ		µg/kg	5.00	2301199	02/08/23	AOAC 2007.01 & EN 15662 (mod)ᵖ		
Aflatoxin G2¥	< LOQ		µg/kg	5.00	2301199	02/08/23	AOAC 2007.01 & EN 15662 (mod)ᵖ		
Ochratoxin A¥	< LOQ		µg/kg	5.00	2301199	02/08/23	AOAC 2007.01 & EN 15662 (mod)ᵖ		
Total Aflatoxins¥	0.000		µg/kg	20.0		02/09/23	AOAC 2007.01 & EN 15662 (mod)ᵖ		

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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.

ᵇ = ISO/IEC 17025:2017 accredited method.
¥ = TNI accredited analyte.

Units of Measure

µg/g = Microgram per gram
µg/kg = Micrograms per kilogram = parts per billion (ppb)
% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner
General Manager

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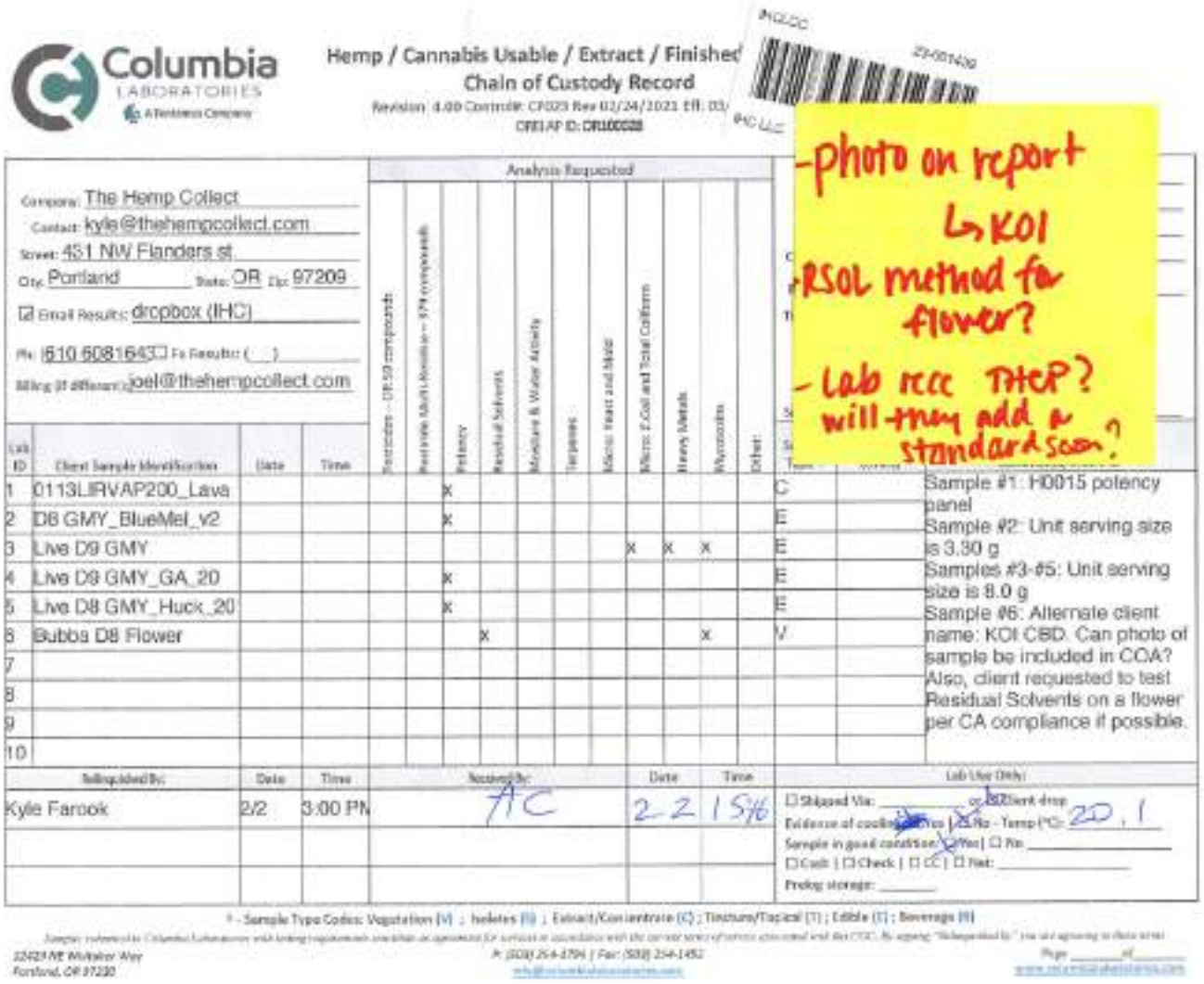

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Hemp / Cannabis Usable / Extract / Finished
Chain of Custody Record

Revision: 4.00 Controlled: CF023 Rev 02/24/2021 Eff. 03/
ORELAP ID: OR100028

-photo on report
↳ KOI
-RSOL method for flower?
- Lab ECCC THCP? will they add a standard soon?

Company: The Hemp Collect
Contact: kyle@thehempcollect.com
Street: 451 NW Flanders st
City: Portland State: OR Zip: 97209
☑ Email Results: dropbox (IHC)
Ph: (610 6081643☐ Fx Results: (__)
Billing (if different): joel@thehempcollect.com

Analysis Requested

Lab ID	Client Sample Identification	Date	Time	Potency	Residual Solvents	Terpenes	Yeast and Mold	Aflatox./E.Coli and Total Coliform	Heavy Metals	Mycotoxins	Other
1	0113LIRVAP200_Lava			X							
2	D8 GMY_BlueMel_v2			X							
3	Live D9 GMY							X	X	X	
4	Live D9 GMY_GA_20			X							
5	Live D8 GMY_Huck_20			X							
6	Bubba D8 Flower				X					X	
7											
8											
9											
10											

Sample #1: H0015 potency panel
Sample #2: Unit serving size is 3.30 g
Samples #3-#5: Unit serving size is 8.0 g
Sample #6: Alternate client name: KOI CBD. Can photo of sample be included in COA? Also, client requested to test Residual Solvents on a flower per CA compliance if possible.

Relinquished By:	Date	Time	Received By:	Date	Time
Kyle Farook	2/2	3:00 PM	AC	2-2	15%

Lab Use Only
☐ Shipped Via: _____ or ☐ Client drop
Evidence of cooling: ☑ Yes | ☐ No - Temp (°C): 20.1
Sample in good condition: ☑ Yes | ☐ No: _____
☐ Cash | ☐ Check | ☐ CC | ☐ Net: _____
Prelog storage: _____

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

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P: (503) 254-1794 | Fax: (503) 254-1452

Page ____ of ____

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Revision: 2 Document ID: 7087
Legacy ID: CFL-E33Effective:

Laboratory Quality Control Results

Residual Solvents							Batch ID:	2301264					
Method Blank					Laboratory Control Sample								
Analyte	Result		LOQ	Notes	Result	Spike	Units	% Rec	Limits			Notes	
Propane	ND	<	200		441	572	µg/g	77.1	60	-	120		
Isobutane	ND	<	200		582	731	µg/g	79.6	60	-	120		
Butane	ND	<	200		551	731	µg/g	75.4	60	-	120		
2,2-Dimethylpropane	ND	<	200		702	936	µg/g	75.0	60	-	120		
Methanol	ND	<	200		1310	1620	µg/g	80.9	60	-	120		
Ethylene Oxide	ND	<	30		42.4	56.2	µg/g	75.4	60	-	120		
2-Methylbutane	ND	<	200		1220	1610	µg/g	75.8	60	-	120		
Pentane	ND	<	200		1220	1600	µg/g	76.3	60	-	120		
Ethanol	ND	<	200		1310	1610	µg/g	81.4	70	-	130		
Ethyl Ether	ND	<	200		1290	1630	µg/g	79.1	60	-	120		
2,2-Dimethylbutane	ND	<	30		133	171	µg/g	77.8	60	-	120		
Acetone	ND	<	200		1300	1630	µg/g	79.8	60	-	120		
2-Propanol	ND	<	200		1320	1620	µg/g	81.5	60	-	120		
Ethyl Formate	ND	<	500		1380	1670	µg/g	82.6	70	-	130		
Acetonitrile	ND	<	100		382	498	µg/g	76.7	60	-	120		
Methyl Acetate	ND	<	500		1370	1730	µg/g	79.2	70	-	130		
2,3-Dimethylbutane	ND	<	30		132	171	µg/g	77.2	60	-	120		
2-Methylpentane	ND	<	30		135	168	µg/g	80.4	60	-	120		
MTBE	ND	<	500		1360	1650	µg/g	82.4	70	-	130		
3-Methylpentane	ND	<	30		120	167	µg/g	71.9	60	-	120		
Hexane	ND	<	30		169	182	µg/g	92.9	60	-	120		
1-Propanol	ND	<	500		1250	1620	µg/g	77.2	70	-	130		
Methylethylketone	ND	<	500		1290	1620	µg/g	79.6	70	-	130		
Ethyl acetate	ND	<	200		1270	1610	µg/g	78.9	60	-	120		
2-Butanol	ND	<	200		1280	1600	µg/g	80.0	60	-	120		
Tetrahydrofuran	ND	<	100		391	483	µg/g	81.0	60	-	120		
Cyclohexane	ND	<	200		1300	1610	µg/g	80.7	60	-	120		
2-methyl-1-propanol	ND	<	500		1240	1620	µg/g	76.5	70	-	130		
Benzene	ND	<	1		4.44	5.02	µg/g	88.4	60	-	120		
Isopropyl Acetate	ND	<	200		1300	1620	µg/g	80.2	60	-	120		
Heptane	ND	<	200		1250	1610	µg/g	77.6	60	-	120		
1-Butanol	ND	<	500		1290	1630	µg/g	79.1	70	-	130		
Propyl Acetate	ND	<	500		1260	1610	µg/g	78.3	70	-	130		
1,4-Dioxane	ND	<	100		397	491	µg/g	80.9	60	-	120		
2-Ethoxyethanol	ND	<	30		139	181	µg/g	76.8	60	-	120		
Methylisobutylketone	ND	<	500		1290	1620	µg/g	79.6	70	-	130		
3-Methyl-1-butanol	ND	<	500		1270	1630	µg/g	77.9	70	-	130		
Ethylene Glycol	ND	<	200		380	484	µg/g	78.5	60	-	120		
Toluene	ND	<	100		389	485	µg/g	80.2	60	-	120		
Isobutyl Acetate	ND	<	500		1260	1630	µg/g	77.3	70	-	130		
1-Pentanol	ND	<	500		1220	1620	µg/g	75.3	70	-	130		
Butyl Acetate	ND	<	500		1230	1620	µg/g	75.9	70	-	130		
Ethylbenzene	ND	<	200		767	969	µg/g	79.2	60	-	120		
m,p-Xylene	ND	<	200		777	994	µg/g	78.2	60	-	120		
o-Xylene	ND	<	200		771	967	µg/g	79.7	60	-	120		
Cumene	ND	<	30		130	171	µg/g	76.0	60	-	120		
Anisole	ND	<	500		1270	1630	µg/g	77.9	70	-	130		
DMSO	ND	<	500		1250	1680	µg/g	74.4	70	-	130		
1,2-dimethoxyethane	ND	<	50		135	169	µg/g	79.9	70	-	130		
Triethylamine	ND	<	500		1300	1630	µg/g	79.8	70	-	130		
N,N-dimethylformamide	ND	<	150		391	482	µg/g	81.1	70	-	130		
N,N-dimethylacetamide	ND	<	150		364	510	µg/g	71.4	70	-	130		
Pyridine	ND	<	50		162	203	µg/g	79.8	70	-	130		
Sulfolane	ND	<	50		124	172	µg/g	72.1	70	-	130		
1,2-Dichloroethane	ND	<	1		0.733	1	µg/g	73.3	70	-	130		
Chloroform	ND	<	1		0.757	1	µg/g	75.7	70	-	130		
Trichloroethylene	ND	<	1		0.722	1	µg/g	72.2	70	-	130		
Dichloromethane	ND	<	1		0.644	1	µg/g	64.4	70	-	130	Q2	
1,1-Dichloroethane	ND	<	1		0.702	1	µg/g	70.2	70	-	130		

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Revision: 2 Document ID: 7087
Legacy ID: CFL-E33Effective:

QC- Sample Duplicate — Sample ID: 23-001410-0003

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	
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	
Sulfolane	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	
Dichloromethane	8.91	9.75	1	µg/g	9.0	< 20	Acceptable	
1,1-Dichloroethane	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
Q2- Quality control outside QClimits. Data considered estimate.

Units of Measure:

µg/g- Microgram per gram or ppm

Testing in accordance with: OAR 333-007-0410

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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	Quantitaion 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.