



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



Report Number: 22-015800/D008.R000
Report Date: 01/04/2023
ORELAP#: OR100028
Purchase Order:
Received: 12/28/22 16:43

Customer: IHC LLC
Product identity: 0102030506LIRVAP_GJ
Client/Metric ID: .
Laboratory ID: 22-015800-0013

Summary

Potency:

Analyte	Result (%)		
Δ8-THC	72.7		CBD-Total 2.06%
Δ8-THCV	4.58		THC-Total <LOQ
CBG	3.11		(Reported in percent of total sample)
CBDV	2.50		
CBD-A	2.35		
CBDV-A	1.02		
CBC-A	0.131		
THC-A	0.130		
CBT	0.105		



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Purchase Order:
Received: 12/28/22 16:43

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

Product identity: 0102030506LIRVAP_GJ

Client/Metric ID: .

Sample Date:

Laboratory ID: 22-015800-0013

Evidence of Cooling: No

Temp: 15.2 °C

Relinquished by: Client



Sample Results

Potency	Method: J AOAC 2015 V98-6 (mod) ^p			Units %	Batch: 2300024	Analyze: 12/30/22 7:53:00 PM
Analyte	As Received	Dry weight	LOQ	Notes		
CBC	< LOQ		0.0737			
CBC-A	0.131		0.0737			
CBC-Total	< LOQ		0.138			
CBD	< LOQ		0.0737			
CBD-A	2.35		0.0737			
CBD-Total	2.06		0.138			
CBDV	2.50		0.0737			
CBDV-A	1.02		0.0737			
CBDV-Total	3.38		0.138			
CBE	< LOQ		0.0737			
CBG	3.11		0.0737			
CBG-A	< LOQ		0.0737			
CBG-Total	3.11		0.138			
CBL	< LOQ		0.0737			
CBL-A	< LOQ		0.0737			
CBL-Total	< LOQ		0.138			
CBN	< LOQ		0.0737			
CBT	0.105		0.0737			
Δ10-THC	< LOQ		0.0737			
Δ8-THC	72.7		0.737			
Δ8-THCV	4.58		0.0737			
Δ9-THC	< LOQ		0.0737			
exo-THC	< LOQ		0.0737			
THC-A	0.130		0.0737			
THC-Total	< LOQ		0.138			
THCV	< LOQ		0.0737			
THCV-A	< LOQ		0.0737			
THCV-Total	< LOQ		0.138			
Total Cannabinoids	86.6					



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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.

^p = ISO/IEC 17025:2017 accredited method.

Units of Measure

% = Percentage of sample

% wt = $\mu\text{g/g}$ divided by 10,000

Approved Signatory

Derrick Tanner
General Manager



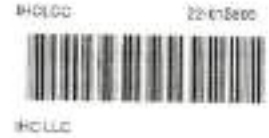
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Hemp / Cannabis Usable / Extract / Finished Products
Chain of Custody Record

Revision: 4.00 Control ID: CP023 Rev 02/24/2021 Eff: 03/04/2021
ORELAP ID: OR100028



Company: The Hemp Collect Contact: kyle@thehempcollect.com Street: 431 NW Flanders st. City: Portland State: OR Zip: 97209 <input checked="" type="checkbox"/> Email Results: dropbox (IHL) Ph: (503) 509104 <input type="checkbox"/> Fx Results: () Billing diff (if any): joel@thehempcollect.com				Analysis Requested										PO Number: _____ Project Number: _____ Project Name: _____ Custom Reporting: _____ Report to State: <input type="checkbox"/> METRIC or <input type="checkbox"/> Other: _____ Turnaround time: <input checked="" type="checkbox"/> 5 Business Day Standard Turnaround <input type="checkbox"/> 5 Business Day Rush Turnaround* <input type="checkbox"/> 2 Business Day Rush Turnaround* <small>*Check for availability</small>			
Lab ID	Client Sample Identification	Date	Time	Peptide Res - OM 59 compounds	Peptide Multi-Residuum - 379 compounds	Potency	Residual Solvents	Moisture & Water Activity	Terpenes	Micro, Yeast and Mold	Microm: A Col and Total Coliforms	Heavy Metals	Mycotoxins	Other	Sample Type?	Weight (Lb/oz)	Comments/Metric ID
1	010307LIRVAP200_PK					X									C		
2	010307LIRVAP200_Liama					X									C		
3	010307LIRVAP200_OGK					X									C		
4	0103LIRVAP200_WB					X									C		
5	0103LIRVAP200_Lava					X									C		
6	0103LIRVAP200_PB					X									C		
7	0103LIRVAP200_SP					X									C		
8	0103LIRVAP200_SG					X									C		
9	0103LIRVAP200_OG					X									C		
10	0103LIRVAP200_STs					X									C		
Relinquished by:		Date	Time	Received by:		Date	Time	Lab Use Only:									
Kyle Farook		12/27	12:00 P	A.C		12-27	16:31	<input type="checkbox"/> Shipped Via: _____ <input checked="" type="checkbox"/> Client drop Evidence of testing: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No - Temp (K): <u>15.2</u> Sample is 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 (I) ; Extract/Concentrate (C) ; Tincture/Tropical (T) ; Edible (E) ; Beverage (B)

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

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info@columbialaboratories.com

Page _____ of _____
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Purchase Order:
Received: 12/28/22 16:43



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

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

Company: The Hemp Collect Contact: kyle@thehempcollect.com Street: 431 NW Flinders St. City: Portland State: OR Zip: 97209 Email Results: dropbox (IHC) Ph: (503) 5067154 Fax Results: () Billing (if different): joel@thehempcollect.com				Analysis Requested Ferrocenes - DBP compounds Ferrocenes - DBP compounds - 379 compounds Ferrocenes Residual Solvents Moisture & Water Activity Pesticides Micro, Yeast and Mold pH for 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"/> 2 Business Day Rush Turnaround* <input type="checkbox"/> 3 Business Day Rush Turnaround* <small>*Check for availability</small>			
Lab ID	Client Sample Identification	Date	Time	Ferrocenes - DBP compounds	Ferrocenes - DBP compounds - 379 compounds	Ferrocenes	Residual Solvents	Moisture & Water Activity	Pesticides	Micro, Yeast and Mold	pH for E. Coli and Total Coliform	Heavy Metals	Mycotoxins	OTHER	Sample Type	Weight (Units)	Comments/Memo ID
1	0102030506LIRVAP_T G					X									C		Samples #6 & #7. Alternate client name: Vest Oils
2	0102030506LIRVAP_F V					X									C		
3	0102030506LIRVAP_G J					X									C		
4	DB - Sour Pineapple					X									V		
5	DB - Lemon Meringue					X									V		
6	DB Double - SSH					X									V		
7	DB Double - SHH					X									V		
8																	
9																	
10																	
Relinquished by:		Date:	Time:	Received by:		Date:	Time:	Lab Use Only									
Kyle Farook		12/27	12:00 P	AC		12-27	12:34	<input type="checkbox"/> Shipped Via: _____ or <input checked="" type="checkbox"/> Client drop Evidence of cooling: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No - Temp (C): 15.2 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: Protog storage: _____									

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

Samples submitted to Columbia Laboratories with storage requirements constitute an agreement for services in accordance with the current terms of service associated with this COC. By signing "Accepted/Relinquished" you are agreeing to these terms.

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Page _____ of _____
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Report Date: 01/04/2023
ORELAP#: OR100028
Purchase Order:
Received: 12/28/22 16:43

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

Laboratory Quality Control Results

J AOAC 2015 V98-6 Batch ID: 2300024

Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes
CBDVA	2	0.103	0.101	%	102	80.0	- 120	Acceptable	
CBDV	2	0.115	0.110	%	105	80.0	- 120	Acceptable	
CBE	2	0.107	0.106	%	101	80.0	- 120	Acceptable	
CBDA	1	0.101	0.103	%	97.9	90.0	- 110	Acceptable	
CBGA	1	0.102	0.103	%	98.4	80.0	- 120	Acceptable	
CBG	1	0.101	0.104	%	97.7	80.0	- 120	Acceptable	
CBD	1	0.101	0.104	%	97.2	90.0	- 110	Acceptable	
THCV	2	0.104	0.105	%	98.4	80.0	- 120	Acceptable	
d8THCV	2	0.104	0.107	%	97.9	80.0	- 120	Acceptable	
THCVA	2	0.104	0.099	%	106	80.0	- 120	Acceptable	
CBN	1	0.102	0.107	%	94.8	80.0	- 120	Acceptable	
exo-THC	2	0.0997	0.103	%	97.2	80.0	- 120	Acceptable	
d9THC	1	0.109	0.112	%	97.6	90.0	- 110	Acceptable	
d8THC	1	0.0976	0.108	%	90.4	90.0	- 110	Acceptable	
CBL	2	0.0995	0.100	%	99.6	80.0	- 120	Acceptable	
d10THC	1	NA	0.100	%	NA	80.0	- 120	Acceptable	Q6
CBG	2	0.104	0.109	%	95.4	80.0	- 120	Acceptable	
THCA	1	0.0941	0.102	%	92.4	90.0	- 110	Acceptable	
CBCA	2	0.107	0.103	%	103	80.0	- 120	Acceptable	
CBLA	2	0.107	0.105	%	102	80.0	- 120	Acceptable	
CBT	2	0.0931	0.109	%	85.4	80.0	- 120	Acceptable	

Method Blank						
Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.077	%	< 0.077	Acceptable	
CBDV	<LOQ	0.077	%	< 0.077	Acceptable	
CBE	<LOQ	0.077	%	< 0.077	Acceptable	
CBDA	<LOQ	0.077	%	< 0.077	Acceptable	
CBGA	<LOQ	0.077	%	< 0.077	Acceptable	
CBG	<LOQ	0.077	%	< 0.077	Acceptable	
CBD	<LOQ	0.077	%	< 0.077	Acceptable	
THCV	<LOQ	0.077	%	< 0.077	Acceptable	
d8THCV	<LOQ	0.077	%	< 0.077	Acceptable	
THCVA	<LOQ	0.077	%	< 0.077	Acceptable	
CBN	<LOQ	0.077	%	< 0.077	Acceptable	
exo-THC	<LOQ	0.077	%	< 0.077	Acceptable	
d9THC	<LOQ	0.077	%	< 0.077	Acceptable	
d8THC	<LOQ	0.077	%	< 0.077	Acceptable	
CBL	<LOQ	0.077	%	< 0.077	Acceptable	
d10THC	<LOQ	0.077	%	< 0.077	Acceptable	
CBG	<LOQ	0.077	%	< 0.077	Acceptable	
THCA	<LOQ	0.077	%	< 0.077	Acceptable	
CBCA	<LOQ	0.077	%	< 0.077	Acceptable	
CBLA	<LOQ	0.077	%	< 0.077	Acceptable	
CBT	<LOQ	0.077	%	< 0.077	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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Received: 12/28/22 16:43

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

Laboratory Quality Control Results

J AOAC 2015 V98-6		Batch ID: 2300024						
Sample Duplicate		Sample ID: 22-015800-0009						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBDA	5.07	5.03	0.077	%	0.829	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBD	0.115	0.131	0.077	%	13.0	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
d8THCV	0.283	0.267	0.077	%	5.99	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
d9THC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
d8THC	79.9	81.1	0.077	%	1.46	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
d10THC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
THCA	0.139	0.121	0.077	%	13.8	< 20	Acceptable	
CBCA	0.246	0.247	0.077	%	0.443	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBT	0.116	0.120	0.077	%	3.02	< 20	Acceptable	

Abbreviations

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

Units of Measure:



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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.



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Report Number: 23-000691/D004.R001
Report Date: 01/26/2023
ORELAP#: OR100028
Purchase Order:
Received: 01/17/23 14:16

This is an amended version of report# 23-000691/D004.R000.

Reason: Updated report format.

Customer: IHC LLC
Product identity: 01LIR209_GJ
Client/Metric ID: .
Laboratory ID: 23-000691-0007

Summary

Potency:

Analyte	Result (%)		
CBD-A	41.2		CBD-Total 36.8%
CBDV-A	20.5		THC-Total 1.81%
CBC-A	2.19		(Reported in percent of total sample)
THC-A	1.96		
THCV-A	1.14		
CBG-A	0.900		
CBD	0.707		
CBG	0.106		
Δ9-THC	0.0936		

Residual Solvents:

Analyte	Result (µg/g)	Limits (µg/g)	Status
Butanes (sum)	2860	5000	pass
n-Butane	2860		

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.



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Report Number: 23-000691/D004.R001
Report Date: 01/26/2023
ORELAP#: OR100028
Purchase Order:
Received: 01/17/23 14:16

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

Product identity: 01LIR209_GJ
Client/Metric ID: .
Sample Date:
Laboratory ID: 23-000691-0007
Evidence of Cooling: No
Temp: 20 °C
Relinquished by: ramos



Sample Results

Potency **Method:** J AOAC 2015 V98-6 (mod)^p **Units %** **Batch:** 2300680 **Analyze:** 1/21/23 4:59:00 AM

Analyte	As Received	Dry weight	LOQ	Notes
CBC	< LOQ		0.0711	
CBC-A	2.19		0.0711	
CBC-Total	1.92		0.134	
CBD	0.707		0.0711	
CBD-A	41.2		0.711	
CBD-Total	36.8		0.695	
CBDV	< LOQ		0.0711	
CBDV-A	20.5		0.0711	
CBDV-Total	17.8		0.133	
CBE	< LOQ		0.0711	
CBG	0.106		0.0711	
CBG-A	0.900		0.0711	
CBG-Total	0.896		0.133	
CBL	< LOQ		0.0711	
CBL-A	< LOQ		0.0711	
CBL-Total	< LOQ		0.134	
CBN	< LOQ		0.0711	
CBT	< LOQ		0.0711	
Δ10-THC-9R	< LOQ		0.0711	
Δ8-THC	< LOQ		0.0711	
Δ8-THCV	< LOQ		0.0711	
Δ9-THC	0.0936		0.0711	
exo-THC	< LOQ		0.0711	
THC-A	1.96		0.0711	
THC-Total	1.81		0.134	
THCV	< LOQ		0.0711	
THCV-A	1.14		0.0711	
THCV-Total	1.00		0.133	
Total Cannabinoids	68.8			



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 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 333-007-0430



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Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2300531	01/21/23 AOAC 2014.05 (RAPID) ^P		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2300531	01/21/23 AOAC 2014.05 (RAPID) ^P		

Solvents Method: Residual Solvents by GC/MS^B Units µg/g Batch 2300722 Analyze 01/24/23 12:13 PM

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-Dimethylbutane	< LOQ		30.0			2,2-Dimethylpropane (neo-pentane)	< LOQ		200		
2,3-Dimethylbutane	< 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)	2860	5000	400	pass	
Cyclohexane	< LOQ	3880	200	pass		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	2860		200		E
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	

Metals

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Arsenic	< LOQ	0.200	mg/kg	0.0911	2300594	01/18/23 AOAC 2013.06 (mod.) ^P	pass	
Cadmium	< LOQ	0.200	mg/kg	0.0911	2300594	01/18/23 AOAC 2013.06 (mod.) ^P	pass	
Lead	< LOQ	0.500	mg/kg	0.0911	2300594	01/18/23 AOAC 2013.06 (mod.) ^P	pass	
Mercury	< LOQ	0.100	mg/kg	0.0456	2300594	01/18/23 AOAC 2013.06 (mod.) ^P	pass	

Mycotoxins

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Aflatoxin B2 [‡]	< LOQ		µg/kg	5.00	2300576	01/19/23 AOAC 2007.01 & EN 15662 (mod) ^P		
Aflatoxin B1 [‡]	< LOQ		µg/kg	5.00	2300576	01/19/23 AOAC 2007.01 & EN 15662 (mod) ^P		
Aflatoxin G1 [‡]	< LOQ		µg/kg	5.00	2300576	01/19/23 AOAC 2007.01 & EN 15662 (mod) ^P		
Aflatoxin G2 [‡]	< LOQ		µg/kg	5.00	2300576	01/19/23 AOAC 2007.01 & EN 15662 (mod) ^P		
Ochratoxin A [‡]	< LOQ	20.0	µg/kg	5.00	2300576	01/19/23 AOAC 2007.01 & EN 15662 (mod) ^P	pass	
Total Aflatoxins [‡]	0.000	20.0	µg/kg	20.0		01/24/23 AOAC 2007.01 & EN 15662 (mod) ^P	pass	



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



Report Number: 23-000691/D004.R001
Report Date: 01/26/2023
ORELAP#: OR100028
Purchase Order:
Received: 01/17/23 14:16

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.

Ⓐ = ISO/IEC 17025:2017 accredited method.

* = TNI accredited analyte.

Units of Measure

cfu/g = Colony forming units per gram

µg/g = Microgram per gram

µg/kg = Micrograms per kilogram = parts per billion (ppb)

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

% = Percentage of sample

% wt = µg/g divided by 10,000

Glossary of Qualifiers

E: Analyte concentration exceeds the calibration range, results are estimated.

Approved Signatory

Derrick Tanner
General Manager



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



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Laboratory Quality Control Results

J AOAC 2015 V98-6 Batch ID: 2300680

Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes
CBDVA	2	0.104	0.100	%	104	80.0	- 120	Acceptable	
CBDV	2	0.110	0.106	%	104	80.0	- 120	Acceptable	
CBE	2	0.108	0.105	%	103	80.0	- 120	Acceptable	
CBDA	1	0.0968	0.096	%	101	90.0	- 110	Acceptable	
CBGA	1	0.0973	0.096	%	101	80.0	- 120	Acceptable	
CBG	1	0.100	0.099	%	102	80.0	- 120	Acceptable	
CBD	1	0.0969	0.097	%	99.6	90.0	- 110	Acceptable	
THCV	2	0.109	0.106	%	102	80.0	- 120	Acceptable	
d8THCV	2	0.108	0.103	%	105	80.0	- 120	Acceptable	
THCVA	2	0.102	0.099	%	103	80.0	- 120	Acceptable	
CBN	1	0.104	0.102	%	102	80.0	- 120	Acceptable	
exo-THC	2	0.101	0.097	%	104	80.0	- 120	Acceptable	
d9THC	1	0.112	0.105	%	107	90.0	- 110	Acceptable	
d8THC	1	0.0971	0.100	%	96.7	90.0	- 110	Acceptable	
CBL	2	0.108	0.104	%	104	80.0	- 120	Acceptable	
9S-HHC	3	0.0995	0.100	%	99.5	80.0	- 120	Acceptable	
d10THC	1	0.0471	0.047	%	99.8	80.0	- 120	Acceptable	
CBG	2	0.107	0.104	%	103	80.0	- 120	Acceptable	
9R-HHC	3	0.0889	0.100	%	88.9	80.0	- 120	Acceptable	
THCA	1	0.0964	0.095	%	101	90.0	- 110	Acceptable	
CBGA	2	0.106	0.103	%	103	80.0	- 120	Acceptable	
CBLA	2	0.108	0.105	%	104	80.0	- 120	Acceptable	
d8THCO	3	0.104	0.100	%	104	80.0	- 120	Acceptable	
CBT	2	0.109	0.105	%	104	80.0	- 120	Acceptable	
d9THCO	3	0.110	0.100	%	110	80.0	- 120	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBDV	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBE	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBDA	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBGA	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBG	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBD	<LOQ	0.0077	%	< 0.0077	Acceptable	
THCV	<LOQ	0.0077	%	< 0.0077	Acceptable	
d8THCV	<LOQ	0.0077	%	< 0.0077	Acceptable	
THCVA	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBN	<LOQ	0.0077	%	< 0.0077	Acceptable	
exo-THC	<LOQ	0.0077	%	< 0.0077	Acceptable	
d9THC	<LOQ	0.0077	%	< 0.0077	Acceptable	
d8THC	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBL	<LOQ	0.0077	%	< 0.0077	Acceptable	
9S-HHC	<LOQ	0.0077	%	< 0.0077	Acceptable	
d10THC	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBG	<LOQ	0.0077	%	< 0.0077	Acceptable	
9R-HHC	<LOQ	0.0077	%	< 0.0077	Acceptable	
THCA	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBGA	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBLA	<LOQ	0.0077	%	< 0.0077	Acceptable	
d8THCO	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBT	<LOQ	0.0077	%	< 0.0077	Acceptable	
d9THCO	<LOQ	0.0077	%	< 0.0077	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: 23-000691/D004.R001
Report Date: 01/26/2023
ORELAP#: OR100028
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Laboratory Quality Control Results

J AOAC 2015 V98-6		Batch ID: 2300680						
Sample Duplicate		Sample ID: 23-000673-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	0.0236	0.0235	0.077	%	0.271	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBN	0.0340	0.0342	0.077	%	0.526	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
d9THC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
d8THC	0.189	0.172	0.077	%	9.34	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
9S-HHC	39.6	38.5	0.077	%	2.70	< 20	Acceptable	
d10THC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
9R-HHC	36.9	35.2	0.077	%	4.96	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
d8THCO	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
d9THCO	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	

Abbreviations

- ND - None Detected at or above MRL
- RPD - Relative Percent Difference
- LOQ - Limit of Quantitation
- R2 - Sample replicates RPD non-calculable, as only one replicate is within analytical range.

Units of Measure:



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

Report Number: 23-000691/D004.R001
 Report Date: 01/26/2023
 ORELAP#: OR100028
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Laboratory Quality Control Results

Residual Solvents				Batch ID: 2300722					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		480	572	µg/g	83.9	60 - 120	
Isobutane	ND	< 200		623	731	µg/g	85.2	60 - 120	
Butane	ND	< 200		592	731	µg/g	81.0	60 - 120	
2,2-Dimethylpropane	ND	< 200		812	936	µg/g	86.8	60 - 120	
Methanol	ND	< 200		1410	1620	µg/g	87.0	60 - 120	
Ethylene Oxide	ND	< 30		49	56.2	µg/g	87.2	60 - 120	
2-Methylbutane	ND	< 200		1330	1610	µg/g	82.6	60 - 120	
Pentane	ND	< 200		1330	1600	µg/g	83.1	60 - 120	
Ethanol	ND	< 200		1400	1610	µg/g	87.0	70 - 130	
Ethyl Ether	ND	< 200		1340	1630	µg/g	82.2	60 - 120	
2,2-Dimethylbutane	ND	< 30		138	171	µg/g	80.7	60 - 120	
Acetone	ND	< 200		1340	1630	µg/g	82.2	60 - 120	
2-Propanol	ND	< 200		1440	1620	µg/g	88.9	60 - 120	
Ethyl Formate	ND	< 500		1380	1670	µg/g	82.6	70 - 130	
Acetonitrile	ND	< 100		409	498	µg/g	82.1	60 - 120	
Methyl Acetate	ND	< 500		1460	1730	µg/g	84.4	70 - 130	
2,3-Dimethylbutane	ND	< 30		135	171	µg/g	78.9	60 - 120	
Dichloromethane	ND	< 60		406	483	µg/g	84.1	60 - 120	
2-Methylpentane	ND	< 30		146	168	µg/g	86.9	60 - 120	
MTBE	ND	< 500		1520	1650	µg/g	92.1	70 - 130	
3-Methylpentane	ND	< 30		125	167	µg/g	74.9	60 - 120	
Hexane	ND	< 30		178	182	µg/g	97.8	60 - 120	
1-Propanol	ND	< 500		1420	1620	µg/g	87.7	70 - 130	
Methylethylketone	ND	< 500		1330	1620	µg/g	82.1	70 - 130	
Ethyl acetate	ND	< 200		1360	1610	µg/g	84.5	60 - 120	
2-Butanol	ND	< 200		1430	1600	µg/g	89.4	60 - 120	
Tetrahydrofuran	ND	< 100		397	483	µg/g	82.2	60 - 120	
Cyclohexane	ND	< 200		1300	1610	µg/g	80.7	60 - 120	
2-methyl-1-propanol	ND	< 500		1360	1620	µg/g	84.0	70 - 130	
Benzene	ND	< 1		4.42	5.02	µg/g	88.0	60 - 120	
Isopropyl Acetate	ND	< 200		1450	1620	µg/g	89.5	60 - 120	
Heptane	ND	< 200		1280	1610	µg/g	79.5	60 - 120	
1-Butanol	ND	< 500		1450	1630	µg/g	89.0	70 - 130	
Propyl Acetate	ND	< 500		1310	1610	µg/g	81.4	70 - 130	
1,4-Dioxane	ND	< 100		390	491	µg/g	79.4	60 - 120	
2-Ethoxyethanol	ND	< 30		296	181	µg/g	163.5	60 - 120	Q1
Methylisobutylketone	ND	< 500		1260	1620	µg/g	77.8	70 - 130	
3-Methyl-1-butanol	ND	< 500		1380	1630	µg/g	84.7	70 - 130	
Ethylene Glycol	ND	< 200		652	484	µg/g	134.7	60 - 120	Q1
Toluene	ND	< 100		373	485	µg/g	76.9	60 - 120	
Isobutyl Acetate	ND	< 500		1320	1630	µg/g	81.0	70 - 130	
1-Pentanol	ND	< 500		1330	1620	µg/g	82.1	70 - 130	
Butyl Acetate	ND	< 500		1280	1620	µg/g	79.0	70 - 130	
Ethylbenzene	ND	< 200		712	969	µg/g	73.5	60 - 120	
m,p-Xylene	ND	< 200		720	994	µg/g	72.4	60 - 120	
o-Xylene	ND	< 200		694	967	µg/g	71.8	60 - 120	
Cumene	ND	< 30		126	171	µg/g	73.7	60 - 120	
Anisole	ND	< 500		1120	1630	µg/g	68.7	70 - 130	Q6
DMSO	ND	< 500		2220	1680	µg/g	132.1	70 - 130	Q1
1,2-dimethoxyethane	ND	< 50		147	169	µg/g	87.0	70 - 130	
Triethylamine	ND	< 500		1340	1630	µg/g	82.2	70 - 130	
N,N-dimethylformamide	ND	< 150		573	482	µg/g	118.9	70 - 130	
N,N-dimethylacetamide	ND	< 150		533	510	µg/g	104.5	70 - 130	
Pyridine	ND	< 50		194	203	µg/g	95.6	70 - 130	
Sulfolane	ND	< 50		198	172	µg/g	115.1	70 - 130	
1,2-Dichloroethane	ND	< 1		0.857	1	µg/g	85.7	70 - 130	
Chloroform	ND	< 1		0.892	1	µg/g	89.2	70 - 130	
Trichloroethylene	ND	< 1		0.93	1	µg/g	93.0	70 - 130	
1,1-Dichloroethane	ND	< 1		0.899	1	µg/g	89.9	70 - 130	



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



Report Number: 23-000691/D004.R001
Report Date: 01/26/2023
ORELAP#: OR100028
Purchase Order:
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QC - Sample Duplicate		Sample ID: 23-000158-0002						
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	
Methyl ethyl ketone	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	
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
- Q1 - Quality control result biased high. Only non-detect samples reported.
- Q6 - Quality control outside QC limits. Data acceptable based on remaining QC.

Units of Measure:

µg/g- Microgram per gram or ppm



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



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Received: 01/17/23 14:16





12423 NE Whitaker Way
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 503-254-1794



Report Number: 23-000691/D004.R001
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Received: 01/17/23 14:16

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.