



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



**Report Number:** 23-003643/D003.R000  
**Report Date:** 04/12/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 03/28/23 13:18

**Customer:** IHC LLC  
**Product identity:** 0113LIRVAP200\_SP  
**Client/Metric ID:** .  
**Laboratory ID:** 23-003643-0003

### Summary

**Potency:**

Analyte	Result (%)		
HHC (9R-Hexahydrocannabinol)	45.5		CBD-Total 6.63%
HHC (9S-Hexahydrocannabinol)	26.2		THC-Total 0.401%
CBD-A	7.35		(Reported in percent of total sample)
Δ8-THC	1.87		
THC-A	0.457		
CBC-A	0.349		
CBDV-A	0.260		
CBN	0.238		
CBG-A	0.225		
CBD	0.181		



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**Report Date:** 04/12/2023  
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**Purchase Order:**  
**Received:** 03/28/23 13:18

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

**Product identity:** 0113LIRVAP200\_SP

**Client/Metric ID:** .

**Sample Date:**

**Laboratory ID:** 23-003643-0003

**Evidence of Cooling:** No

**Temp:** 14.4

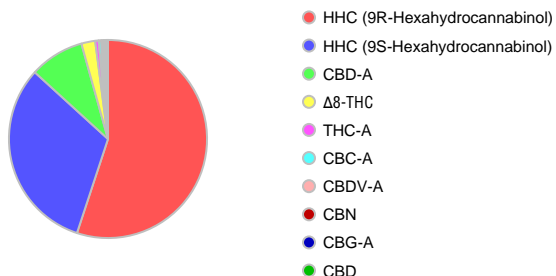
**Relinquished by:** Hinton



### Sample Results

Potency **Method:** J AOAC 2015 V98-6 (mod)<sup>P</sup> **Units %** **Batch:** 2306077 **Analyze:** 4/11/23 12:11:00 PM

Analyte	As Received	Dry weight	LOQ	Notes
CBC	< LOQ		0.0744	
CBC-A	0.349		0.0744	
CBC-Total	0.306		0.140	
CBD	0.181		0.0744	
CBD-A	7.35		0.0744	
CBD-Total	6.63		0.140	
CBDV	< LOQ		0.0744	
CBDV-A	0.260		0.0744	
CBDV-Total	0.225		0.139	
CBE	< LOQ		0.0744	
CBG	< LOQ		0.0744	
CBG-A	0.225		0.0744	
CBG-Total	0.198		0.139	
CBL	< LOQ		0.0744	
CBL-A	< LOQ		0.0744	
CBL-Total	< LOQ		0.140	
CBN	0.238		0.0744	
CBT	< LOQ		0.0744	
Δ10-THC-9R	< LOQ		0.0744	
Δ10-THC-9S	< LOQ		0.0744	
Δ10-THC-Total	< LOQ		0.149	
Δ8-THC	1.87		0.0744	
Δ8-THCV	< LOQ		0.0744	
Δ9-THC	< LOQ		0.0744	
exo-THC	< LOQ		0.0744	
HHC (9R-Hexahydrocannabinol)	45.5		0.755	
HHC (9S-Hexahydrocannabinol)	26.2		0.755	
THC-A	0.457		0.0744	
THC-O-Acetate, delta-8	< LOQ		0.0755	
THC-O-Acetate, delta-9	< LOQ		0.0755	
THC-Total	0.401		0.140	





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Potency	Method: J AOAC 2015 V98-6 (mod) <sup>p</sup>			Units %	Batch: 2306077	Analyze: 4/11/23 12:11:00 PM
Analyte	As Received	Dry weight	LOQ	Notes		
THCV	< LOQ		0.0744			
THCV-A	< LOQ		0.0744			
THCV-Total	< LOQ		0.139			
<b>Total Cannabinoids</b>	82.6					



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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.

<sup>p</sup> = ISO/IEC 17025:2017 accredited method.

**Units of Measure**

% = Percentage of sample

% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner  
General Manager



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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: 2305437

Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes
CBDVA	2	0.102	0.101	%	101	80.0	- 120	Acceptable	
CBDV	2	0.102	0.100	%	101	80.0	- 120	Acceptable	
CBE	2	0.0996	0.100	%	99.3	80.0	- 120	Acceptable	
CBDA	1	0.0934	0.093	%	101	90.0	- 110	Acceptable	
CBGA	1	0.0787	0.077	%	102	80.0	- 120	Acceptable	
CBG	1	0.0953	0.093	%	102	80.0	- 120	Acceptable	
CBD	1	0.0833	0.082	%	101	90.0	- 110	Acceptable	
THCV	2	0.0985	0.103	%	95.9	80.0	- 120	Acceptable	
d8THCV	2	0.101	0.100	%	101	80.0	- 120	Acceptable	
THCVA	2	0.101	0.100	%	101	80.0	- 120	Acceptable	
CBN	1	0.0817	0.081	%	101	80.0	- 120	Acceptable	
exo-THC	2	0.0953	0.097	%	98.1	80.0	- 120	Acceptable	
d9THC	1	0.0911	0.093	%	97.5	90.0	- 110	Acceptable	
d8THC	1	0.0929	0.094	%	99.2	90.0	- 110	Acceptable	
9S-d10THC	1	0.0921	0.094	%	97.7	80.0	- 120	Acceptable	
CBL	2	0.0957	0.100	%	95.7	80.0	- 120	Acceptable	
9S-HHC	3	0.0917	0.100	%	91.7	80.0	- 120	Acceptable	
9R-d10THC	1	0.0901	0.096	%	94.0	80.0	- 120	Acceptable	
CBC	2	0.0978	0.100	%	97.7	80.0	- 120	Acceptable	
9R-HHC	3	0.0844	0.100	%	84.4	80.0	- 120	Acceptable	
THCA	1	0.105	0.108	%	97.5	90.0	- 110	Acceptable	
CBCA	2	0.103	0.103	%	100	80.0	- 120	Acceptable	
CBLA	2	0.105	0.104	%	101	80.0	- 120	Acceptable	
d8THCO	3	0.0946	0.100	%	94.6	80.0	- 120	Acceptable	
CBT	2	0.0920	0.101	%	91.1	80.0	- 120	Acceptable	
d9THCO	3	0.0982	0.100	%	98.2	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	
9S-d10THC	<LOQ	0.077	%	< 0.077	Acceptable	
CBL	<LOQ	0.077	%	< 0.077	Acceptable	
9S-HHC	<LOQ	0.077	%	< 0.077	Acceptable	
9R-d10THC	<LOQ	0.077	%	< 0.077	Acceptable	
CBC	<LOQ	0.077	%	< 0.077	Acceptable	
9R-HHC	<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	
d8THCO	<LOQ	0.077	%	< 0.077	Acceptable	
CBT	<LOQ	0.077	%	< 0.077	Acceptable	
d9THCO	<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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Revision: 1 Document ID: 7148  
Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6		Batch ID: 2305437						
Sample Duplicate		Sample ID: 23-003035-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBDV	0.354	0.352	0.077	%	0.662	< 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	2.40	2.39	0.077	%	0.423	< 20	Acceptable	
CBD	85.6	86.1	0.077	%	0.602	< 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	<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	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
9S-HHC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBc	0.676	0.674	0.077	%	0.416	< 20	Acceptable	
9R-HHC	<LOQ	<LOQ	0.077	%	NA	< 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

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Laboratory Quality Control Results

J AOAC 2015 V98-6 Batch ID: 2306077

Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes
CBDVA	2	0.104	0.102	%	102	80.0	- 120	Acceptable	
CBDV	2	0.101	0.098	%	103	80.0	- 120	Acceptable	
CBE	2	0.0984	0.100	%	98.1	80.0	- 120	Acceptable	
CBD	1	0.0948	0.093	%	102	90.0	- 110	Acceptable	
CBGA	1	0.0798	0.077	%	103	80.0	- 120	Acceptable	
CBG	1	0.0968	0.093	%	104	80.0	- 120	Acceptable	
CBD	1	0.0852	0.082	%	104	90.0	- 110	Acceptable	
THCV	2	0.0975	0.100	%	97.0	80.0	- 120	Acceptable	
d8THCV	2	0.0993	0.100	%	99.1	80.0	- 120	Acceptable	
THCVA	2	0.103	0.101	%	102	80.0	- 120	Acceptable	
CBN	1	0.0823	0.081	%	102	80.0	- 120	Acceptable	
exo-THC	2	0.0951	0.097	%	98.0	80.0	- 120	Acceptable	
d9THC	1	0.0925	0.093	%	99.0	90.0	- 110	Acceptable	
d8THC	1	0.0931	0.094	%	99.5	90.0	- 110	Acceptable	
9S-d10THC	1	0.0927	0.094	%	98.3	80.0	- 120	Acceptable	
CBL	2	0.0955	0.099	%	96.2	80.0	- 120	Acceptable	
9R-d10THC	1	0.0907	0.096	%	94.6	80.0	- 120	Acceptable	
CB	2	0.0979	0.100	%	98.1	80.0	- 120	Acceptable	
THCA	1	0.105	0.108	%	97.4	90.0	- 110	Acceptable	
CBCA	2	0.106	0.104	%	102	80.0	- 120	Acceptable	
CBLA	2	0.107	0.106	%	102	80.0	- 120	Acceptable	
CBT	2	0.0896	0.100	%	89.5	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	
CBD	<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	
9S-d10THC	<LOQ	0.077	%	< 0.077	Acceptable	
CBL	<LOQ	0.077	%	< 0.077	Acceptable	
9R-d10THC	<LOQ	0.077	%	< 0.077	Acceptable	
CB	<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:

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Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6		Batch ID: 2306077						
Sample Duplicate		Sample ID: 99-004074-0001						
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	<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	0.343	0.339	0.077	%	1.31	< 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	80.7	79.7	0.077	%	1.34	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.077	%	NA	< 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	
CBT	0.0997	0.0981	0.077	%	1.67	< 20	Acceptable	

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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.

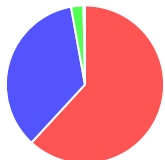


This is an amended version of report# 23-004523/D003.R000.  
Reason: Combine results with report 23-003150/D003.R000.

**Customer:** The Hemp Collect  
**Product identity:** 13DST225  
**Client/Metric ID:** .  
**Laboratory ID:** 23-004523-0003

### Summary

**Potency:**

Analyte	Result (%)		
HHC (9R-Hexahydrocannabinol)	55.1	 <ul style="list-style-type: none"> <li>● HHC (9R-Hexahydrocannabinol)</li> <li>● HHC (9S-Hexahydrocannabinol)</li> <li>● Δ8-THC</li> <li>● CBN</li> </ul>	CBD-Total <LOQ
HHC (9S-Hexahydrocannabinol)	31.5		THC-Total <LOQ
Δ8-THC	2.26		(Reported in percent of total sample)
CBN	0.271		

**Residual Solvents:**

All analytes passing and less than LOQ.

**Pesticides:**

Analyte	Result (mg/kg)	Limits (mg/kg)	Status
Multi-Residue Pesticide Profile	< LOQ for all analytes		

**Metals:**

Less than LOQ for all analytes.



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**Purchase Order:**  
**Received:** 04/13/23 00:00

**Customer:** The Hemp Collect  
 825 NW 16th Ave  
 Portland Oregon 97209  
 United States of America (USA)

**Product identity:** 13DST225  
**Client/Metric ID:** .  
**Sample Date:**  
**Laboratory ID:** 23-004523-0003  
**Evidence of Cooling:** No  
**Temp:** 25 °C

### Sample Results

Potency	Method: J AOAC 2015 V98-6 (mod) <sup>b</sup>			Units %	Batch: 2306463	Analyze: 4/18/23 4:05:00 AM
Analyte	As Received	Dry weight	LOQ	Notes		
CBD	< LOQ		0.0684		<ul style="list-style-type: none"> <li>● HHC (9R-Hexahydrocannabinol)</li> <li>● HHC (9S-Hexahydrocannabinol)</li> <li>● Δ8-THC</li> <li>● CBN</li> </ul>	
CBD-A	< LOQ		0.0684			
CBD-Total	< LOQ		0.128			
CBG	< LOQ		0.0684			
CBG-A	< LOQ		0.0684			
CBG-Total	< LOQ		0.128			
CBN	0.271		0.0684			
Δ10-THC-9R	< LOQ		0.0684			
Δ10-THC-9S	< LOQ		0.0684			
Δ10-THC-Total	< LOQ		0.137			
Δ8-THC	2.26		0.0684			
Δ9-THC	< LOQ		0.0684			
HHC (9R-Hexahydrocannabinol)	55.1		0.684			
HHC (9S-Hexahydrocannabinol)	31.5		0.684			
THC-A	< LOQ		0.0684			
THC-O-Acetate, delta-8	< LOQ		0.0684			
THC-O-Acetate, delta-9	< LOQ		0.0684			
THC-Total	< LOQ		0.128			
<b>Total Cannabinoids</b>	<b>89.1</b>					



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



**Report Number:** 23-003150/D003.R000  
**Report Date:** 04/10/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 03/14/23 13:59

Solvents		Method: Residual Solvents by GC/MS <sup>b</sup>				Units µg/g	Batch 2305389	Analyze 04/03/23 09:08 AM			
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)	< LOQ	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	< LOQ		200		
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	

Pesticides		Method: AOAC 2007.01 & EN 15662 (mod) <sup>b</sup>			Units mg/kg	Batch 2305403	Analyze 04/03/23 10:59 AM		
Analyte	Result	Limits	Status	Notes					
Multi-Residue Pesticide Profile	< LOQ for all analytes								

Metals									
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes	
Arsenic*	< LOQ	0.200	mg/kg	0.0849	2305993	04/07/23 AOAC 2013.06 (mod.) <sup>b</sup>	pass		
Cadmium*	< LOQ	0.200	mg/kg	0.0849	2305993	04/07/23 AOAC 2013.06 (mod.) <sup>b</sup>	pass		
Lead*	< LOQ	0.500	mg/kg	0.0849	2305993	04/07/23 AOAC 2013.06 (mod.) <sup>b</sup>	pass		
Mercury*	< LOQ	0.100	mg/kg	0.0425	2305993	04/07/23 AOAC 2013.06 (mod.) <sup>b</sup>	pass		



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



**Report Number:** 23-004523/D003.R001  
**Report Date:** 04/18/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 04/13/23 00:00

**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.

<sup>p</sup> = ISO/IEC 17025:2017 accredited method.

**Units of Measure**

% = Percentage of sample

% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner  
General Manager



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



**Report Number:** 23-003150/D003.R000  
**Report Date:** 04/10/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 03/14/23 13:59



Cannabis Multi-Residue Profile, Limits of Quantitation

Compound	LOQ (mg/kg)	Compound	LOQ (mg/kg)	Compound	LOQ (mg/kg)
Abamectin	0.100	Celthodim	0.050	Endrin	0.100
Acephate	0.100	Celthodim Sulfone	0.050	EPN	0.050
Acequinocyl	0.100	Celthodim Sulfoxide	0.050	EPIC	0.100
Acetamiprid	0.020	Cb fenfentzine	0.020	Esfenvalerate/ Fenvalerate	0.200
Acetochlor	0.100	Cb mazone	0.020	Etaconazole	0.100
Acrinathrin	0.100	Cb thianidin	0.200	Ethalfuralin	0.100
Alachlor	0.100	Cumaphos	0.050	Ethiofencarb	0.050
Aldicarb	0.100	Crtoxypfos	0.020	Ethion	0.200
Aldicarb sulfoxide	0.100	Cyarazine	0.020	Ethirimol	0.100
Aldoxycarb (Aldicarb-sulfone)	0.100	Cyartofenphos	0.020	Ethofumesate	0.050
Aldrin	0.100	Cyatraniiprole	0.050	Ethoprophos	0.020
Ametoctradin	0.020	Cyazflamid	0.020	Etofenprox	0.020
Ametryn	0.500	Cytoate	0.100	Etoazole	0.020
Aspon	0.100	Cyfluthrin	0.200	Eridiazole	0.100
Asulam	0.100	Cyhalothrin, lambda	0.200	Erimfos	0.020
Atrazine	0.100	Cymoxanil	0.050	Famoxadone	0.200
Atrazine-desethyl	0.100	Cypermethrin	0.200	Famphur	0.100
Azinphos-ethyl	0.020	Cyprodinil	0.100	Fenamidone	0.020
Azinphos-methyl	0.020	Dadhal	0.100	Fenamiphos	0.020
Azoxystrobin	0.020	Damnozide	0.100	Fenamiphos sulfone	0.020
Beralaxyl	0.020	DCEMU	0.050	Fenamiphos sulfoxide	0.020
Berdiocarb	0.020	DDD, op'	0.100	Fenazaquin	0.100
Berfluralin	0.100	DDD, p,p'	0.100	Fenbuconazole	0.100
Berxacor	0.050	DDE, o,p'	0.100	Fenchlorphos	0.100
Bersulide	0.050	DDE, p,p'	0.100	Fenchlorphos-oxon	0.100
BHC alpha isomer	0.100	DDT, o,p'	0.100	Fenhexamid	0.100
BHC beta isomer	0.100	DDT, p,p'	0.100	Fenitrothion	0.100
BHC delta isomer	0.500	DEF (Tribufos)	0.100	Fenobucarb	0.050
Bifenazate	0.020	Deltamethrin	0.100	Fenoxycarb	0.020
Bifenthrin	0.020	Desmedipham	0.100	Fenpropathrin	0.050
Boscalid	0.020	Diallate	0.100	Fenpyroximate	0.020
Bromophos-ethyl	0.100	Diazinon	0.020	Fenson	0.100
Bromophos-methyl	0.200	Diazoxon	0.100	Fensulfiothion	0.020
Bromopropylate	0.100	Dichlobenil	0.100	Fensulfiothion oxon	0.020
Bromuconazole	0.100	Dichlofluanid	0.100	Fensulfiothion sulfone	0.100
Bupirimate	0.020	Dichlorvos	0.100	Fensulfiothion-oxon-sulfone	0.020
Buprofezin	0.050	Diclobutrazol	0.050	Fenthion	0.050
Butachlor	0.500	Dicofol	0.100	Fenthion oxon	0.020
Butralin	0.200	Dicrotophos	0.050	Fenthion oxon sulfone	0.100
Butylate	0.100	Dieldrin	0.100	Fenthion sulfone	0.050
Cadusafos	0.020	Diethofencarb	0.020	Fenuron	0.020
Captaf	1.000	Diethyltoluamide (DEET)	0.050	Fipronil	0.100
Carbaryl	0.050	Difenoconazole	0.100	Fonicamid	0.100
Carbendazim	0.100	Dimethenamid	0.050	Fuchloralin	0.100
Carbofuran	0.020	Dimethoate	0.050	Flucythrinate	0.100
Carbophenothion	0.200	Dimethomorph	0.050	Fludioxonil	0.200
Carboxin	0.020	Diniconazole	0.200	Rufenacet	0.020
Carfentrazone-ethyl	0.100	Dinotefuran	0.200	Flumioxazin	0.100
Chlorantraniliprole	0.020	Dioxathion	0.100	Flumeturon	0.020
Chordane, cis-	0.200	Diphenamid	0.020	Fluopicolide	0.050
Chordane, trans-	0.200	Diphenylamine	0.100	Fluopyram	0.020
Chlorfenapyr	0.500	Disulfoton	0.100	Fluoxastrobin	0.050
Chlorfenson	0.200	Disulfoton sulfone	0.100	Flupyradifurone	0.020
Chlorfenvinphos	0.050	Disulfoton sulfoxide	0.100	Fluridone	0.100
Chlorobenzilate	0.100	Diuron	0.050	Flusilazole	0.020
Chloroneb	0.200	Edifenphos	0.050	Flutolanil	0.020
Chlorpyrifos	0.050	Endosulfan alpha	0.200	Flutriafol	0.020
Chlorpyrifos-methyl	0.200	Endosulfan beta	0.200	Fluvalinate, tau-	0.100
CIPC	1.000	Endosulfan sulfate	0.100	Fluxapyroxad	0.020



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

**Report Number:** 23-003150/D003.R000  
**Report Date:** 04/10/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 03/14/23 13:59



Cannabis Multi-Residue Profile, Limits of Quantitation

Compound	LOQ(mg/kg)	Compound	LOQ(mg/kg)	Compound	LOQ(mg/kg)
Fomesafen	0.100	Mexacarbate	0.020	Propamocarb	0.050
Fonofos	0.100	MGK 264	0.020	Proparil	0.050
Forchlorfenuron	0.050	Mirex	0.100	Propargite	0.050
Formetanate	0.050	Molinate	0.050	Propazine	0.020
Furathiocarb	0.020	Monocrotophos	0.100	Propetamphos	0.050
Heptachlor	0.100	Monolinuron	0.020	Propham	0.050
Heptachlor epoxide	0.100	Myclobutanil	0.050	Propiconazole	0.050
Heptenophos	0.100	Naled	0.100	Propoxur	0.050
Hexachlorobenzene	0.100	Napropamide	0.050	Propoxycarbazone Na	0.050
Hexaconazole	0.100	Neburon	0.020	Propyzamide	0.050
Hexazinone	0.100	Nitrapyrin	0.100	Prthiofos	0.100
Hexythiazox	0.020	Norflurazon	0.050	Pyraclostrobin	0.020
Imazalil	0.100	Omethoate	0.100	Pyrazophos	0.050
Imidacoprid	0.100	O-Phenylphenol	0.100	Pyrethrins	0.050
Indaziflam	0.020	Oxadixyl	0.100	Pyridaben	0.020
Indoxacarb	0.020	Oxamyl	0.100	Pyridafol	0.100
Iprobenfos	0.100	Oxamyl-oxime	0.100	Pyridate	0.020
Iprodione	0.100	Oxychlorane	0.100	Pyrimethanil	0.050
Isobenzan	0.100	Oxydemeton-Methyl	0.100	Pyriproxifen	0.020
Isocarbophos	0.500	Oxythioquinox	0.200	Pyroxasulfone	0.020
Isodrin	0.100	Padobutrazol	0.050	Pyroxulam	0.020
Isofenphos	0.050	Paraoxon-ethyl	0.020	Quinalphos	0.050
Isofenphos-methyl	0.020	Paraoxon methyl	0.100	Quinoxyfen	0.050
Isofenphos oxon	0.050	Parathion ethyl	0.100	Quintozene (PQNB)	0.200
Isoprocarb	0.020	Parathion methyl	0.200	Resmethrin	0.050
Isopropalin	0.200	Perconazole	0.050	Rotenone	0.050
Isoprothiolane	0.050	Perdimethalin	0.050	S421	0.100
Isoproturon	0.050	Perflufen	0.020	Smaazine	0.100
Isoxaben	0.050	Pertachloroaniline	0.100	Smectryn	0.200
Isoxaflutole	0.050	Pertachloroanisole	0.100	Spinetoram	0.020
Kresoxim-methyl	0.050	Pentachlorobenzene (PCB)	0.100	Spinosad	0.050
Lactofen	0.500	Pentachlorothiobenzene (PCTA)	0.100	Spirodiclofen	0.100
Lenacl	0.100	Perthiopyrad	0.020	Spiromesifen	0.050
Lindane (gammaBHC)	0.100	Permethrin	0.050	Spirotetramat	0.050
Linuron	0.020	Pethane	0.100	Spiroxamine	0.020
Malaaxon	0.050	Phenmedipharm	0.050	Sulfotep	0.050
Malathion	0.050	Phanthoate	0.050	Sulfoxaflor	0.050
Mandipropamid	0.020	Phorate	0.050	Sulprofos	0.020
Mecarbam	0.020	Phorate Sulfone	0.050	Tebuconazole	0.100
Mepanipyrim	0.050	Phorate Sulfoxide	0.050	Tebufenozide	0.020
Merphos	0.500	Phosalone	0.050	Tebuthiuron	0.020
Metalaxyl	0.050	Phosmet	0.100	Tecnazene	0.100
Metaldehyde	0.050	Phosphamidon	0.050	Tefluthrin	0.100
Metconazole	0.100	Phoxim	0.050	Terbufos	0.020
Methadifos	0.100	Pinoxaden	0.020	Terbufos sulfone	0.050
Methamidophos	0.050	Piperonyl butoxide	0.050	Terbufos sulfoxide	0.050
Methidathion	0.050	Pirimicarb	0.020	Terbutylazine	0.020
Methiocarb	0.050	Pirimiphos-methyl	0.050	Terbutryn	0.020
Methiocarb sulfone	0.100	Pirimiphos-ethyl	0.020	Tetrachlorvinphos	0.050
Methiocarb sulfoxide	0.100	Prallethrin	0.100	Tetraconazole	0.050
Methomyl	0.100	Prochloraz	0.020	Tetradfon	0.200
Methoxychlor	0.100	Procyimdone	0.100	Tetramethrin	0.050
Methoxyfenozide	0.020	Prfenofos	0.100	Tetrasul	0.100
Metobromuron	0.050	Prfluralin	0.100	Thiabendazole	0.100
Metolachlor	0.100	Prmecarb	0.050	Thiabendazole, 5-hydroxy	0.100
Metolcarb	0.050	Prometon	0.100	Thiadoprid	0.050
Metraferone	0.050	Prometryn	0.020	Thiamethoxam	0.100
Metribuzin	0.100	Propachlor	0.020	Thiobencarb	0.050
Mevinphos	0.100			Thiodicarb	0.050
				Thiophanate-methyl	0.050





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



**Report Number:** 23-003150/D003.R000  
**Report Date:** 04/10/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 03/14/23 13:59



Cannabis Multi-Residue Profile, Limits of Quantitation

Compound	LOQ(mg/kg)	Compound	LOQ(mg/kg)	Compound	LOQ(mg/kg)
Tolclofos-methyl	0.100	Triazophos	0.020	Trifloxystrobin	0.020
Triforin	0.100	Tolyfluarid	0.050	Triticonazole	0.050
Tralkoxydim	0.100	Tridiphane	0.500	Vindozolin	0.100
Triadimefon	0.050	Triflumizole	0.020	Zoxamide	0.020
Triallate	0.100	Trifluralin	0.100		

LOQ= Limit of Quantitation, mg/kg

Factors affecting the LOQ include instrumentation sensitivity for a particular analyte, sample size, moisture content (percent solids) of the sample, effectiveness of the cleanup on the sample extract, and especially the type of sample matrix.



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



**Report Number:** 23-000690/D004.R000  
**Report Date:** 01/24/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 01/17/23 14:16

**Customer:** IHC LLC  
**Product identity:** 01LIR209\_SP  
**Client/Metric ID:** .  
**Laboratory ID:** 23-000690-0017

### Summary

#### Potency:

Analyte	Result (%)		
CBD-A	59.0		
CBDV-A	5.17		
CBC-A	2.83		
THC-A	2.39		
CBG-A	1.97		
CBD	0.909		
THCV-A	0.667		
Δ9-THC	0.252		
CBG	0.175		
CBC	0.0720		

CBD-Total 52.7%

THC-Total 2.35%

(Reported in percent of total sample)

#### Residual Solvents:

Analyte	Result (µg/g)	Limits (µg/g)	Status
Butanes (sum)	931	5000	pass
n-Butane	931		

#### Pesticides:

Analyte	Result (mg/kg)	Limits (mg/kg)	Status
Multi-Residue Pesticide Profile	< LOQ for all analytes		

#### Metals:

Less than LOQ for all analytes.



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



**Report Number:** 23-000690/D004.R000  
**Report Date:** 01/24/2023  
**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\_SP  
**Client/Metric ID:** .  
**Sample Date:**  
**Laboratory ID:** 23-000690-0017  
**Evidence of Cooling:** No  
**Temp:** 20 °C  
**Relinquished by:** ramos



### Sample Results

Potency	Method: J AOAC 2015 V98-6 (mod) <sup>p</sup>			Units %	Batch: 2300599	Analyze: 1/19/23 8:47:00 AM
Analyte	As Received	Dry weight	LOQ	Notes		
CBC	0.0720		0.0698			
CBC-A	2.83		0.0698			
CBC-Total	2.55		0.131			
CBD	0.909		0.0698			
CBD-A	59.0		0.698			
CBD-Total	52.7		0.682			
CBDV	< LOQ		0.0698			
CBDV-A	5.17		0.0698			
CBDV-Total	4.48		0.130			
CBE	< LOQ		0.0698			
CBG	0.175		0.0698			
CBG-A	1.97		0.0698			
CBG-Total	1.90		0.130			
CBL	< LOQ		0.0698			
CBL-A	< LOQ		0.0698			
CBL-Total	< LOQ		0.131			
CBN	< LOQ		0.0698			
CBT	< LOQ		0.0698			
Δ10-THC-9R	< LOQ		0.0698			
Δ8-THC	< LOQ		0.0698			
Δ8-THCV	< LOQ		0.0698			
Δ9-THC	0.252		0.0698			
exo-THC	< LOQ		0.0698			
THC-A	2.39		0.0698			
THC-Total	2.35		0.131			
THCV	< LOQ		0.0698			
THCV-A	0.667		0.0698			
THCV-Total	0.586		0.130			
<b>Total Cannabinoids</b>	<b>73.4</b>					



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



**Report Number:** 23-000690/D004.R000  
**Report Date:** 01/24/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 01/17/23 14:16

Solvents											Method: Residual Solvents by GC/MS <sup>b</sup>					Units µg/g		Batch 2300691		Analyze 01/23/23 03:03 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)	931	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	931		200														
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													

Pesticides											Method: AOAC 2007.01 & EN 15662 (mod) <sup>b</sup>		Units mg/kg		Batch 2300713		Analyze 01/24/23 10:07 AM			
Analyte	Result	Limits	Units	Status	Notes															
Multi-Residue Pesticide Profile	< LOQ for all analytes																			

Metals										
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes		
Arsenic	< LOQ	0.200	mg/kg	0.0751	2300594	01/18/23 AOAC 2013.06 (mod.) <sup>b</sup>	pass			
Cadmium	< LOQ	0.200	mg/kg	0.0751	2300594	01/18/23 AOAC 2013.06 (mod.) <sup>b</sup>	pass			
Lead	< LOQ	0.500	mg/kg	0.0751	2300724	01/23/23 AOAC 2013.06 (mod.) <sup>b</sup>	pass			
Mercury	< LOQ	0.100	mg/kg	0.0376	2300594	01/18/23 AOAC 2013.06 (mod.) <sup>b</sup>	pass			



12423 NE Whitaker Way  
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503-254-1794



**Report Number:** 23-000690/D004.R000  
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**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.

<sup>p</sup> = ISO/IEC 17025:2017 accredited method.

**Units of Measure**

µg/g = Microgram per gram

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

% = Percentage of sample

% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner  
General Manager


**P2320 Multi-Residue Pesticide Profile  
 Cannabis**

Analyte	LOQ (mg/kg)
2,4-D	0.1
Abamectin	0.1
Acephate	0.2
Acequinocyl	0.2
Acetamiprid	0.1
Acetochlor	0.2
Acrinathrin	0.1
Alachlor	0.1
Aldicarb	0.1
Aldoxycarb	0.1
Aldrin	0.1
Ametoctradin	0.1
Ametryn	0.1
Anilazine	0.1
Aspon	0.1
Asulam	0.1
Atrazine	0.1
Atrazine-desethyl	0.1
Azinphos-ethyl	0.1
Azinphos-methyl	0.1
Azoxystrobin	0.1
Benalaxyl	0.1
Bendiocarb	0.1
Benoxacor	0.1
Bensulide	0.1
Bentazon	0.1
Bifenazate	0.1
Bifenox	0.1
Bifenthrin	0.1
Binapacryl	0.1
Boscalid	0.1
Bromacil	0.1
Bromophos-ethyl	0.1
Bromopropylate	0.1
Bromoxynil	0.1
Bupirimate	0.1
Buprofezin	0.1
Butachlor	0.1
Butylate	0.1
Cadusafos	0.1
Captan	0.2
Carbaryl	0.1
Carbendazim	0.1
Carbofuran	0.1
Carbofuran 3-hydroxy	0.1
Carbophenothion	0.1
Carbophenothion-methyl	0.1
Carboxin	0.1

Analyte	LOQ (mg/kg)
Chlorantraniliprol	0.1
Chlordane, cis-	0.1
Chlordane, trans-	0.1
Chlorfenapyr	0.1
Chlorfenvinphos	0.1
Chlorobenzilate	0.1
Chlorpyrifos-ethyl	0.1
Chlorpyrifos-methyl	0.1
Chlorthal-dimethyl (Dacthal)	0.1
Clethodim	0.1
Clethodim sulfone	0.1
Clethodim sulfoxide	0.1
Clofentezine	0.1
Clomazone	0.1
Clopyralid	0.1
Clothianidin	0.1
Coumaphos	0.1
Crotoxyphos	0.1
Cyanofenphos	0.1
Cyanophos	0.1
Cyantraniliprole	0.1
Cyazofamid	0.1
Cyfluthrin	0.1
Cyhalothrin, lambda	0.1
Cymoxanil	0.1
Cypermethrin	0.1
Cyprodinil	0.1
DDD, o,p'-	0.1
DDD, p,p'-	0.1
DDE, o,p'-	0.1
DDE, p,p'-	0.1
DDT, o,p'-	0.1
DDT, p,p'-	0.1
DEET	0.1
Deltamethrin	0.1
Demeton-S	0.1
Demeton-s-methyl	0.1
Demeton-S-methyl-sulfone	0.1
Desmedipham	0.1
Diazinon	0.1
Dicamba	0.1
Dichlofenthion	0.1
Dichlofluandil	0.1
Dichlorbenzamid	0.1
Dichlorvos	0.1
Diclofop	0.1
Diclofop-methyl	0.1
Dicrotophos	0.1

Analyte	LOQ (mg/kg)
Dieldrin	0.1
Diethofencarb	0.1
Difenoconazol	0.1
Diflubenzuron	0.1
Diflufenzopyr	0.1
Dimethenamid	0.1
Dimethoat	0.1
Dimethomorph	0.1
Dinoseb	0.1
Dinotefuran	0.1
Dioxaathion	0.1
Diphenamid	0.1
Diphenylamine (DPA)	0.1
Disulfoton	0.1
Disulfoton-sulfone	0.1
Disulfoton-Sulfoxide	0.1
Diuron	0.1
DNOC	0.1
Edifenphos	0.1
Endosulfan (alpha isomer)	0.1
Endosulfan (beta isomer)	0.1
Endosulfan-sulfate	0.1
Endrin	0.1
EPN	0.1
EPTC	0.1
Esfenvalerate/Fenvalerate	0.1
Ethiofencarb	0.1
Ethion	0.1
Ethofumesate	0.1
Ethoprophos	0.1
Etofenprox	0.1
Etozazole	0.1
Etrimfos	0.1
Famoxadone	0.1
Famphur	0.1
Fenamiphos	0.1
Fenamiphos-Sulfone	0.1
Fenamiphos-Sulfoxide	0.1
Fenazaquin	0.1
Fenbuconazole	0.1
Fenhexamid	0.1
Fenobucarb	0.1
Fenoxycarb	0.1
Fenpropathrin	0.1
Fensulfothion	0.1
Fenthion	0.1
Fenuron	0.1
Fipronil	0.1

LOQ= Limit of Quantitation  
 mg/kg= milligram per kilogram (ppm)



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



**Report Number:** 23-000690/D004.R000  
**Report Date:** 01/24/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 01/17/23 14:16



**P2320 Multi-Residue Pesticide Profile  
Cannabis**

Analyte	LOQ (mg/kg)
Flonicamid	0.1
Fluazifop	0.1
Fluazinam	0.1
Flucythrinate	0.1
Fludioxonil	0.1
Flufenacet	0.1
Flumioxazin	0.1
Flupicolide	0.1
Fluopyram	0.1
Fluoxastrobin	0.1
Flupyradifurone	0.1
Fluridone	0.1
Fluroxypyr	0.1
Fluthiacet-methyl	0.1
Flutolanil	0.1
Flutriafol	0.1
Fluvalinate	0.1
Fluxapyroxad	0.1
Fomesafen	0.1
Formetanate	0.1
Furathiocarb	0.1
Haloxypop	0.1
Heptachlor	0.1
Heptachlor epoxide	0.1
Hexaconazole	0.1
Hexazinone	0.1
Hexythiazox	0.1
Hydropene	0.1
Imazalil	0.1
Imazethapyr	0.1
Imidacloprid	0.1
Indaziflam	0.1
Indoxacarb	0.1
Iprobenfos	0.1
Iprodion	0.1
Isobenzan	0.1
Isufenphos	0.1
Isufenphos-methyl	0.1
Isufenphos-oxon	0.1
Isoprocab	0.1
Isoprothiolane	0.1
Isoproturon	0.1
Isoxaben	0.1
Kresoxim-methyl	0.1
Lindane	0.1
Linuron	0.1
Malaoxon	0.1
Malathion	0.1

Analyte	LOQ (mg/kg)
Mandipropamid	0.1
MCPA	0.1
MCPB	0.1
MCPP	0.1
Mecabarm	0.1
Mepanipyrim	0.1
Mesotrione	0.1
Metaxyl	0.1
Methamidophos	0.1
Methiocarb	0.1
Methiocarb sulfone	0.1
Methiocarb sulfoxide	0.1
Methomyl	0.1
Methoxyfenozide	0.1
Metolachlor	0.1
Metolcarb	0.1
Metrafenone	0.1
Mevinphos	0.1
MGK 264	0.1
Molinat	0.1
Monocrotophos	0.1
Monolinuron	0.1
Myclobutanil	0.1
Naled	0.1
Napropamide	0.1
Neburon	0.1
Norflurazon	0.1
Novaluron	0.1
Omethoat	0.1
Oryzalin	0.1
Oxadiazon	0.1
Oxadixyl	0.1
Oxamyl	0.1
Oxamyl-oxime	0.1
Oxychlorane	0.1
Oxydemeton-Methyl	0.1
Oxyfluorfen	0.1
Paclobutrazol	0.1
Paraoxon-ethyl	0.1
Paraoxon-methyl	0.1
Parathion-methyl	0.1
Penconazole	0.1
Pendimethalin	0.1
Penflufen	0.1
Penthiopyrad	0.1
Permethrin	0.1
Perthane	0.1
Phenmedipham	0.1

Analyte	LOQ (mg/kg)
Phenothrin	0.1
Phenthoate	0.1
Phorate	0.1
Phorate-Sulfone	0.1
Phorate-Sulfoxide	0.1
Phosalone	0.1
Phosmet	0.1
Phosphamidon	0.1
Phoxim	0.1
Pinoxaden	0.1
Piperonyl Butoxide	0.1
Pirimicarb	0.1
Pirimiphos-ethyl	0.1
Pirimiphos-methyl	0.1
Prallethrin	0.1
Prochloraz	0.1
Procymidone	0.1
Profenofos	0.1
Promecarb	0.1
Prometon	0.1
Prometryn	0.1
Propachlor	0.1
Propamocarb	0.1
Propanil	0.1
Propazine	0.1
Propetamophos	0.1
Propham	0.1
Propiconazole	0.1
Propoxur	0.1
Propyzamide	0.1
Prothiofos	0.1
Pyraclostrobin	0.1
Pyraflufen Ethyl	0.1
Pyrazophos	0.1
Pyrethrin	0.1
Pyridaben	0.1
Pyrimethanil	0.1
Pyriproxifen	0.1
Pyroxasulfone	0.1
Pyroxulam	0.1
Quinalphos	0.1
Quinclorac	0.1
Quinoxifen	0.1
Quintozene(PCNB)	0.2
Quizalofop	0.1
Resmethrin	0.1
Rotenone	0.1
Safufenacil	0.1

LOQ= Limit of Quantitation  
mg/kg= milligram per kilogram (ppm)



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



**Report Number:** 23-000690/D004.R000  
**Report Date:** 01/24/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 01/17/23 14:16



**P2320 Multi-Residue Pesticide Profile  
 Cannabis**

Analyte	LOQ (mg/kg)
Sebuthylazin	0.1
Sethoxydim	0.1
Simazine	0.1
Simetryn	0.1
Spinetoram J/L	0.1
Spinosyn A/D	0.1
Spirodiclofen	0.1
Spiromesifen	0.1
Spirotetramat	0.1
Spiroxamine	0.1
Sulfentrazone	0.1
Sulfotep	0.1
Sulfoxaflor	0.1
Sulprofos	0.1
Tebuconazole	0.1
Tebufenozide	0.1
Terbufos	0.1
Terbutylazine	0.1
Terbutryn	0.1
Tetrachlorvinphos	0.1
Tetraconazole	0.1
Tetramethrin	0.1
Thiabendazol	0.1
Thiabendazol-5-hydroxy	0.1
Thiacloprid	0.1
Thiamethoxam	0.1
Thiobencarb	0.1
Thiodicarb	0.1
Thiometon	0.1
Thiophanate-methyl	0.2
Tolfenpyrad	0.1
Tolyfluanid	0.1
Triadimefon	0.1
Triadimenol	0.1
Triazophos	0.1
Trifloxystrobin	0.1
Triflumizole	0.1
Triticonazole	0.1
Zoxamid	0.1

LOQ= Limit of Quantitation  
 mg/kg= milligram per kilogram (ppm)





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

Report Number: 23-00690/D004.R000  
Report Date: 01/24/2023  
ORELAP#: OR100028  
Purchase Order:  
Received: 01/17/23 14:16



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

Revision: 4.00 Control: CP028 Rev 02/24/2021 Eff: 03/04/2021  
ORELAP ID: OR100028

Company: <u>The Hemp Collect</u> Contact: <u>kyle@thehemppcollect.com</u> Street: <u>431 NW Handers St.</u> City: <u>Portland</u> State: <u>OR</u> Zip: <u>97209</u> <input checked="" type="checkbox"/> Email Results: <u>dropbox (IHL)</u> P#: <u>(503) 608164</u> <input type="checkbox"/> Fax Results: <u>( )</u> Billing (if different): <u>joel@thehemppcollect.com</u>				<b>Analysis Requested</b> Pesticides - DR59 compounds Residual Solvents Moisture & Water Activity Terpene Micro: Yeast and Mold Micro: Coli and Total Coliform Heavy Metals Mycotoxins Other:										FO Numbers: _____ 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	Client Sample Identification	Date	Time	Pesticides - DR59 compounds	Residual Solvents	Moisture & Water Activity	Terpene	Micro: Yeast and Mold	Micro: Coli and Total Coliform	Heavy Metals	Mycotoxins	Other	Sample Type 1	Weight (Units)	Converts/Weins ID	
1	01LIR209_LB			X	X	X				X			C			
2	01LIR209_KC			X	X	X				X			C			
3	01LIR209_FV			X	X	X				X			C			
4	01LIR209_VW			X	X	X				X			C			
5	01LIR209_SB			X	X	X				X			C			
6	01LIR209_BO			X	X	X				X			C			
7	01LIR209_LT			X	X	X				X			C			
8	01LIR209_RC			X	X	X				X			C			
9	01LIR209_PJ			X	X	X				X			C			
10	01LIR209_CJ			X	X	X				X			C			
Requested By:		Date:	Time:	Received By:		Date:	Time:	Lab Use Only:								
Kyle Farook		1/17	11:00 A	<i>[Signature]</i>		1-17-23	1110	<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>2.1+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: _____ Fragile storage: _____								
<i>[Signature]</i>		1-17	1337	<i>[Signature]</i>		1/17/23	1416									

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

Sample returned to Columbia Laboratories with testing requirements and/or suggestions for analysis in accordance with the current terms of service associated with the COC. By signing "Requested by" you are agreeing to these terms.

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Portland, OR 97230

A: (503) 254-1794 / Fax: (503) 254-3452  
lab@columbialaboratories.com

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

Report Number: 23-000690/D004.R000  
Report Date: 01/24/2023  
ORELAP#: OR100028  
Purchase Order:  
Received: 01/17/23 14:16



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

Revision: 4.00 Control: CPO25 Rev 02/24/2021 Eff: 05/04/2021  
ORELAP ID: OR100028

Company: <u>The Hemp Collect</u> Contact: <u>kyle@thehempcollect.com</u> Street: <u>431 NW Flanders St</u> City: <u>Portland</u> State: <u>OR</u> Zip: <u>97209</u> <input checked="" type="checkbox"/> Email Results: <u>dropbox (IHC)</u> P#: <input checked="" type="checkbox"/> (b1) 608164 <input type="checkbox"/> P# Results: ( ) Billing (if different): <u>joel@thehempcollect.com</u>				<b>Analysis Requested</b> <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 Molds <input type="checkbox"/> Micro: E. Coli and Total Coliforms <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>			
Lab ID	Client Sample Identification	Date	Time	Pesticides - OILSO compounds	Pesticide Multi-Residue - 179 compounds	Potency	Residual Solvents	Moisture & Water Activity	Terpenes	Micro: Yeast and Molds	Micro: E. Coli and Total Coliforms	Heavy Metals	Mycotoxins	Other	Sample Type 1	Weight (units)	Comments/Metric ID
1	01LIR209_OGK			X	X	X					X						
2	01LIR209_Shaolin			X	X	X					X						
3	01LIR209_Japhy			X	X	X					X						
4	01LIR209_PP			X	X	X					X						
5	01LIR209_MT			X	X	X					X						
6	01LIR209_PK			X	X	X					X						
7	01LIR209_SP			X	X	X					X						
8	01LIR209_Sour G			X	X	X					X						
9	01LIR209_FG			X	X	X					X						
10	01LIR209_RGSP			X	X	X					X						
Relinquished by:		Date:	Time:	Accepted By:		Date:	Time:	Lab Use Only:									
Kyle Farook		1/17	11:00 A	<i>[Signature]</i>		1-17-23	11:0	<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>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"/> Nit: _____ Freezing storage: _____									
<i>[Signature]</i>		1-17	1335	<i>[Signature]</i>		01/17/23	1416										

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

Sample submitted to Columbia Laboratories with testing requirements constitute an agreement for services in accordance with the current terms of service associated with the CAC. By signing "Relinquished by" you are agreeing to these terms.  
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**Report Number:** 23-000690/D004.R000  
**Report Date:** 01/24/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 01/17/23 14:16



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

Revision: 4.00 Control#: CF025 Rev 02/24/2021 Eff: 03/04/2021  
 ORELAP#: OR100028

Company: <u>The Hemp Collect</u> Contact: <u>kyle@thehempcollect.com</u> Street: <u>431 NW Sanders St</u> City: <u>Portland</u> State: <u>OR</u> Zip: <u>97209</u> <input checked="" type="checkbox"/> Email Results: <u>dropbox (IHG)</u> Fx: <u>(b1) b0b1b4</u> <input type="checkbox"/> Fx Results: ( ) Billing (if different): <u>joel@thehempcollect.com</u>				<b>Analysis Requested</b> Pesticides - OHS compounds Pesticide Multi-Residue - 379 compounds Potency Residual Solvents Moisture & Water Activity Terpenes Micro: Yeast and Mold Micro: E. Coli and Total Coliforms Heavy Metals Mycotoxins Other:										FO Number: _____ Project Number: _____ Project Name: _____ Client Reporting: _____ Report to State: <input type="checkbox"/> METRC or <input type="checkbox"/> Other _____ Turnaround time: <input checked="" type="checkbox"/> 1 Business Day Standard Turnaround <input type="checkbox"/> 1 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 - OHS compounds	Pesticide Multi-Residue - 379 compounds	Potency	Residual Solvents	Moisture & Water Activity	Terpenes	Micro: Yeast and Mold	Micro: E. Coli and Total Coliforms	Heavy Metals	Mycotoxins	Other	Sample Type 1	Weight (Units)	Comments/Metric ID
1	01LIR209_TK			X	X	X						X			C		
2	01LIR209_STs			X	X	X						X			C		
3	01LIR209_CS			X	X	X						X			C		
4	01LIR209_PB			X	X	X						X			C		
5																	
6																	
7																	
8																	
9																	
10																	
Relinquished by:		Date	Time	Accepted by:		Date	Time	Lab Use Only:									
Kyle Farqok		1/17	11:00 A			1/23	11:16	<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>2.1</u> Sample is good condition: <input type="checkbox"/> Yes   <input type="checkbox"/> No <input type="checkbox"/> Cool   <input type="checkbox"/> Check   <input type="checkbox"/> OK   <input type="checkbox"/> Min: _____ Freezing storage: _____									
		1/17	1336			01/17/23	1416										

1 - Sample Type Codes: Vegetation [V] ; Isolates [I] ; Extract/Concentrate [C] ; Tincture/Topical [T] ; Dabble [D] ; Beverage [B]

Samples submitted to Columbia Laboratories with testing requirements constitute an agreement for analysis in accordance with the current state of Oregon statutes and the COC. By signing "Relinquished by" you are agreeing to these terms.  
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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.



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



**Report Number:** 23-000690/D004.R000  
**Report Date:** 01/24/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 01/17/23 14:16

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

Laboratory Quality Control Results

J AOAC 2015 V98-6 Batch ID: 2300599

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	0.0963	0.096	%	100	90.0	- 110	Acceptable	
CBGA	1	0.0966	0.096	%	100	80.0	- 120	Acceptable	
CBG	1	0.100	0.099	%	102	80.0	- 120	Acceptable	
CBD	1	0.0970	0.097	%	99.7	90.0	- 110	Acceptable	
THCV	2	0.108	0.106	%	102	80.0	- 120	Acceptable	
d8THCV	2	0.109	0.103	%	106	80.0	- 120	Acceptable	
THCVA	2	0.103	0.099	%	104	80.0	- 120	Acceptable	
CBN	1	0.103	0.102	%	101	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	0.0963	0.100	%	95.8	90.0	- 110	Acceptable	
CBL	2	0.109	0.104	%	105	80.0	- 120	Acceptable	
d10THC	1	0.0474	0.047	%	100	80.0	- 120	Acceptable	
CBC	2	0.107	0.104	%	103	80.0	- 120	Acceptable	
THCA	1	0.0946	0.095	%	99.6	90.0	- 110	Acceptable	
CBCA	2	0.105	0.103	%	102	80.0	- 120	Acceptable	
CBLA	2	0.109	0.105	%	104	80.0	- 120	Acceptable	
CBT	2	0.110	0.105	%	104	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	
CBC	<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



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



**Report Number:** 23-000690/D004.R000  
**Report Date:** 01/24/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 01/17/23 14:16

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

Laboratory Quality Control Results

J AOAC 2015 V98-6		Batch ID: 2300599						
Sample Duplicate		Sample ID: 23-000690-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	0.234	0.234	0.077	%	0.0872	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBDA	54.6	54.7	0.077	%	0.322	< 20	Acceptable	
CBGA	1.61	1.61	0.077	%	0.0614	< 20	Acceptable	
CBG	0.100	0.102	0.077	%	1.57	< 20	Acceptable	
CBD	0.888	0.922	0.077	%	3.66	< 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	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
d9THC	0.263	0.260	0.077	%	1.28	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.077	%	NA	< 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	3.97	3.97	0.077	%	0.128	< 20	Acceptable	
CBCA	2.66	2.63	0.077	%	1.28	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.077	%	NA	< 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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Revision: 2 Document ID: 7087  
 Legacy ID: CFL-E33Effective:

Laboratory Quality Control Results

Residual Solvents				Batch ID: 2300691					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		547	572	µg/g	95.6	60 - 120	
Isobutane	ND	< 200		701	731	µg/g	95.9	60 - 120	
Butane	ND	< 200		678	731	µg/g	92.7	60 - 120	
2,2-Dimethylpropane	ND	< 200		893	936	µg/g	95.4	60 - 120	
Methanol	ND	< 200		1580	1620	µg/g	97.5	60 - 120	
Ethylene Oxide	ND	< 30		55	56.2	µg/g	97.9	60 - 120	
2-Methylbutane	ND	< 200		1520	1610	µg/g	94.4	60 - 120	
Pentane	ND	< 200		1520	1600	µg/g	95.0	60 - 120	
Ethanol	ND	< 200		1610	1610	µg/g	100.0	70 - 130	
Ethyl Ether	ND	< 200		1560	1630	µg/g	95.7	60 - 120	
2,2-Dimethylbutane	ND	< 30		164	171	µg/g	95.9	60 - 120	
Acetone	ND	< 200		1560	1630	µg/g	95.7	60 - 120	
2-Propanol	ND	< 200		1670	1620	µg/g	103.1	60 - 120	
Acetonitrile	ND	< 100		475	498	µg/g	95.4	60 - 120	
2,3-Dimethylbutane	ND	< 30		160	171	µg/g	93.6	60 - 120	
Dichloromethane	ND	< 60		476	483	µg/g	98.6	60 - 120	
2-Methylpentane	ND	< 30		161	168	µg/g	95.8	60 - 120	
3-Methylpentane	ND	< 30		146	167	µg/g	87.4	60 - 120	
Hexane	ND	< 30		208	182	µg/g	114.3	60 - 120	
Ethyl acetate	ND	< 200		1570	1610	µg/g	97.5	60 - 120	
2-Butanol	ND	< 200		1660	1600	µg/g	103.8	60 - 120	
Tetrahydrofuran	ND	< 100		474	483	µg/g	98.1	60 - 120	
Cyclohexane	ND	< 200		1540	1610	µg/g	95.7	60 - 120	
Benzene	ND	< 1		5.3	5.02	µg/g	105.6	60 - 120	
Isopropyl Acetate	ND	< 200		1670	1620	µg/g	103.1	60 - 120	
Heptane	ND	< 200		1500	1610	µg/g	93.2	60 - 120	
1,4-Dioxane	ND	< 100		475	491	µg/g	96.7	60 - 120	
2-Ethoxyethanol	ND	< 30		316	181	µg/g	174.6	60 - 120	Q1
Ethylene Glycol	ND	< 200		698	484	µg/g	144.2	60 - 120	Q1
Toluene	ND	< 100		465	485	µg/g	95.9	60 - 120	
Ethylbenzene	ND	< 200		911	969	µg/g	94.0	60 - 120	
m,p-Xylene	ND	< 200		915	994	µg/g	92.1	60 - 120	
o-Xylene	ND	< 200		901	967	µg/g	93.2	60 - 120	
Cumene	ND	< 30		161	171	µg/g	94.2	60 - 120	





12423 NE Whitaker Way  
 Portland, OR 97230  
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Revision: 2 Document ID: 7087  
 Legacy ID: CFL-E33Effective:

QC - Sample Duplicate		Sample ID: 23-000690-0005						
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	1250	1160	200	µg/g	7.5	< 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	
Acetonitrile	ND	ND	100	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	
3-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Hexane	ND	ND	30	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	
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	
1,4-Dioxane	ND	ND	100	µg/g	0.0	< 20	Acceptable	
2-Ethoxyethanol	ND	ND	30	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	
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	

**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.

**Units of Measure:**

µg/g - Microgram per gram or ppm



12423 NE Whitaker Way  
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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.