



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



Report Number: 22-009113/D008.R000
Report Date: 08/09/2022
ORELAP#: OR100028
Purchase Order:
Received: 08/02/22 12:25

Customer: IHC LLC
Product identity: 0102030506LIRVAP200_TG
Client/Metric ID: .
Laboratory ID: 22-009113-0003

Summary

Potency:

Analyte	Result (%)		
Δ8-THC	63.2		
THCV	4.76		
CBD-A	3.76		
CBG	3.43		
CBDV	3.21		
CBDV-A	2.37		
Δ8-THCV	0.810		
CBD	0.184		
THCV-A	0.0944		



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Received: 08/02/22 12:25

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

Product identity: 0102030506LIRVAP200_TG

Client/Metric ID: .

Sample Date:

Laboratory ID: 22-009113-0003

Evidence of Cooling: No

Temp: 8.7 °C

Relinquished by: Client



Sample Results

Potency	Method: J AOAC 2015 V98-6 (mod) ^p			Units %	Batch: 2206570	Analyze: 8/3/22 9:14:00 PM
Analyte	As Received	Dry weight	LOQ	Notes		
CBC	< LOQ		0.0689			
CBC-A	< LOQ		0.0689			
CBC-Total	< LOQ		0.129			
CBD	0.184		0.0689			
CBD-A	3.76		0.0689			
CBD-Total	3.48		0.129			
CBDV	3.21		0.0689			
CBDV-A	2.37		0.0689			
CBDV-Total	5.26		0.129			
CBE	< LOQ		0.0689			
CBG	3.43		0.0689			
CBG-A	< LOQ		0.0689			
CBG-Total	3.43		0.129			
CBL	< LOQ		0.0689			
CBL-A	< LOQ		0.0689			
CBL-Total	< LOQ		0.129			
CBN	< LOQ		0.0689			
CBT	< LOQ		0.0689			
Δ8-THC	63.2		0.689			
Δ8-THCV	0.810		0.0689			
Δ9-THC	< LOQ		0.0689			
exo-THC	< LOQ		0.0689			
THC-A	< LOQ		0.0689			
THC-Total	< LOQ		0.129			
THCV	4.76		0.0689			
THCV-A	0.0944		0.0689			
THCV-Total	4.84		0.129			
Total Cannabinoids	81.8					





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These test results are representative of the individual sample selected and submitted by the client.

Abbreviations

Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220, CCR title 16-division 42. BCC-section 5723

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

^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#: CFC23 Rev 02/24/2023 Eff: 03/04/2021
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 (IHL)</u> Ph: <u>(503) 666164</u> <input type="checkbox"/> Fx Results: <u>()</u> Billing Of difference: <u>joe@thehempcollect.com</u>				Analysis Requested <input type="checkbox"/> Pesticides - 08/59 compounds <input type="checkbox"/> Pesticide Multi-Residue - 378 compounds <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 Mold <input type="checkbox"/> Micro: Fungi 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>																																																																																																																																																																																												
Sampled by: _____				<table border="1"> <thead> <tr> <th>Lab ID</th> <th>Client Sample Identification</th> <th>Date</th> <th>Time</th> <th>Pesticides - 08/59 compounds</th> <th>Pesticide Multi-Residue - 378 compounds</th> <th>Potency</th> <th>Residual Solvents</th> <th>Moisture & Water Activity</th> <th>Terpenes</th> <th>Micro: Yeast and Mold</th> <th>Micro: Fungi and Total Coliforms</th> <th>Heavy Metals</th> <th>Mycotoxins</th> <th>Other:</th> <th>Sample Type*</th> <th>Weight (Units)</th> <th>Comments/Metric ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>0109GMY_AT</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>E</td> <td></td> <td rowspan="10">-Samples #1 & #2: Report in mg_analyte per 8.0g serving size.</td> </tr> <tr> <td>2</td> <td>010709GMY_KO</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>E</td> <td></td> </tr> <tr> <td>3</td> <td>0102030506LIRVAP20V_TG</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>C</td> <td></td> </tr> <tr> <td>4</td> <td>0102030506LIRVAP20V_FV</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>C</td> <td></td> </tr> <tr> <td>5</td> <td>Live D9 DST_KO</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>C</td> <td></td> </tr> <tr> <td>6</td> <td>Gummy Fx - Live AT</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>C</td> <td></td> </tr> <tr> <td>7</td> <td>Gummy Fx - Live DT</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>C</td> <td></td> </tr> <tr> <td>8</td> <td>Gummy Fx - Live KO</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>C</td> <td></td> </tr> <tr> <td>9</td> <td>07ISO212</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>S</td> <td></td> </tr> <tr> <td>10</td> <td>07ISO212</td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td>S</td> <td></td> </tr> </tbody> </table>										Lab ID	Client Sample Identification	Date	Time	Pesticides - 08/59 compounds	Pesticide Multi-Residue - 378 compounds	Potency	Residual Solvents	Moisture & Water Activity	Terpenes	Micro: Yeast and Mold	Micro: Fungi and Total Coliforms	Heavy Metals	Mycotoxins	Other:	Sample Type*	Weight (Units)	Comments/Metric ID	1	0109GMY_AT					X									E		-Samples #1 & #2: Report in mg_analyte per 8.0g serving size.	2	010709GMY_KO					X									E		3	0102030506LIRVAP20V_TG					X									C		4	0102030506LIRVAP20V_FV					X									C		5	Live D9 DST_KO					X									C		6	Gummy Fx - Live AT					X									C		7	Gummy Fx - Live DT					X									C		8	Gummy Fx - Live KO					X									C		9	07ISO212					X									S		10	07ISO212			X	X	X						X			S	
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Refreshed By: <u>Kyle Farook</u>		Date: <u>8/2</u> Time: <u>12:25</u>		Received By: <u>[Signature]</u>		Date: <u>8/2/22</u> Time: <u>12:25</u>		Lab Use Only: <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>2.7</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: _____ Prelog storage: _____																																																																																																																																																																																																		

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

Samples submitted to Columbia Laboratories with testing requirements constitute an agreement for services in accordance with the current terms of service associated with METRC. By signing "Refreshed by" you are agreeing to these terms.

12423 NE Whitaker Way
Portland, OR 97230

P: (503) 254-1794 / Fax: (503) 254-1442
columbiainc@colaboratories.com

Page _____ of _____
www.columbiainc.com



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 Portland, OR 97230
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Report Number: 22-009113/D008.R000
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ORELAP#: OR100028
Purchase Order:
Received: 08/02/22 12:25

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

Laboratory Quality Control Results

JAOAC2015 V986										
Laboratory Control Sample										
Batch ID: 2206570										
Analyte	LGS	Result	Spike	Units	% Rec	Limits			Evaluation	Notes
CBDA	1	0.103	0.100	%	103	80.0	-	120	Acceptable	
CBDV	1	0.113	0.100	%	113	80.0	-	120	Acceptable	
CBE	1	0.101	0.100	%	101	80.0	-	120	Acceptable	
CBDA	1	0.0948	0.100	%	94.8	90.0	-	110	Acceptable	
CBDA	1	0.0945	0.100	%	94.5	80.0	-	120	Acceptable	
CBG	1	0.0973	0.100	%	97.3	80.0	-	120	Acceptable	
CBG	1	0.0985	0.100	%	98.5	90.0	-	110	Acceptable	
THCV	1	0.101	0.100	%	101	80.0	-	120	Acceptable	
δ8THCV	1	0.101	0.100	%	101	80.0	-	120	Acceptable	
THCVA	1	0.0981	0.100	%	98.1	80.0	-	120	Acceptable	
CBN	1	0.100	0.100	%	100	90.0	-	110	Acceptable	
exo-THC	1	0.0979	0.100	%	97.9	80.0	-	120	Acceptable	
δ9THC	1	0.108	0.100	%	108	90.0	-	110	Acceptable	
δ8THC	1	0.0969	0.100	%	96.9	90.0	-	110	Acceptable	
CBL	1	0.0930	0.100	%	93.0	80.0	-	120	Acceptable	
9STHC	3	0.0937	0.100	%	93.7	80.0	-	120	Acceptable	
CBG	1	0.103	0.100	%	103	80.0	-	120	Acceptable	
9RTHC	3	0.0889	0.100	%	88.9	80.0	-	120	Acceptable	
THCA	1	0.0914	0.100	%	91.4	90.0	-	110	Acceptable	
CBDA	1	0.101	0.100	%	101	80.0	-	120	Acceptable	
CBLA	1	0.101	0.100	%	101	80.0	-	120	Acceptable	
δ8THCO	3	0.0949	0.100	%	94.9	80.0	-	120	Acceptable	
CBH	1	0.0913	0.100	%	91.3	80.0	-	120	Acceptable	
δ9THCO	3	0.0953	0.100	%	95.3	80.0	-	120	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDA	<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	
CBDA	<LOQ	0.077	%	< 0.077	Acceptable	
CBG	<LOQ	0.077	%	< 0.077	Acceptable	
CBG	<LOQ	0.077	%	< 0.077	Acceptable	
THCV	<LOQ	0.077	%	< 0.077	Acceptable	
δ8THCV	<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	
δ9THC	<LOQ	0.077	%	< 0.077	Acceptable	
δ8THC	<LOQ	0.077	%	< 0.077	Acceptable	
CBL	<LOQ	0.077	%	< 0.077	Acceptable	
9STHC	<LOQ	0.077	%	< 0.077	Acceptable	
CBG	<LOQ	0.077	%	< 0.077	Acceptable	
9RTHC	<LOQ	0.077	%	< 0.077	Acceptable	
THCA	<LOQ	0.077	%	< 0.077	Acceptable	
CBDA	<LOQ	0.077	%	< 0.077	Acceptable	
CBLA	<LOQ	0.077	%	< 0.077	Acceptable	
δ8THCO	<LOQ	0.077	%	< 0.077	Acceptable	
CBH	<LOQ	0.077	%	< 0.077	Acceptable	
δ9THCO	<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

JAOAC2015 V986		Batch ID: 2206570						
Sample Duplicate		Sample ID: 22-0090650001						
Analyte	Result	Org. Result	LOG	Units	RPD	Limits	Evaluation	Notes
CBDA	<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	
CBDA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
d8THCV	0.980	0.994	0.077	%	1.43	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBN	0.427	0.419	0.077	%	1.96	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
d9THC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
d8THC	55.4	54.5	0.077	%	1.69	< 20	Acceptable	
CBL	0.595	0.605	0.077	%	1.61	< 20	Acceptable	
9STHC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
9RTHC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
d8THCO	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CB	0.339	0.336	0.077	%	0.962	< 20	Acceptable	
d9THCO	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	

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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.

PharmLabs San Diego Certificate of Analysis

3421 Hancock St, Second Floor, San Diego, CA 92110 | License: C8-0000098-LIC
 ISO/IEC 17025:2017 Certification L17-427-1 | Accreditation #85368



Sample **O3DTST224_AMBER_D8 Distillate**

Sample ID SD230329-008 (71349)	Matrix Concentrate (Inhalable Cannabis Good)
Tested for The Hemp Collect	
Sampled -	Received Mar 28, 2023
Analyses executed CAN+, RES, MIBIG, MTO, PES, HME, FVI	Reported Apr 05, 2023

Laboratory note: The estimated concentration of the unknown peak in the sample is 6.60%. Currently PharmLabs laboratory can not confirm an unidentified peak in your chromatogram due to interference (only with highly concentrated D8 products) from which we believe to be either (+)-8-THC or (-)-8-THC. At this time there are no reference standards available for (+)-8-THC. (+)-8-THC is a different compound from the main (-)-8-THC cannabinoid and, therefore, these two compounds may have different efficacies. Using the most advanced instruments and techniques available, the separation of (+)-8-THC and (-)-8-THC is problematic for the scientific community as a whole. PharmLabs believes the unidentified peak to be a combination of (+)-8-THC and (-)-8-THC with the majority, if not all, of the concentration being (+)-8-THC. Total (+/-) D8 Concentration is estimated to be: 94.56%

CAN+ - Cannabinoids Analysis

Analyzed **Apr 04, 2023** | Instrument **HPLC-VWD** | Method **SOP-001**
 The expanded Uncertainty of the Cannabinoid analysis is approximately **±7.806%** at the 95% Confidence Level

Analyte	LOD mg/g	LOQ mg/g	Result %	Result mg/g
Cannabidiol (CBD)	0.039	0.16	ND	ND
Cannabidiolic Acid (CBDA)	0.001	0.16	ND	ND
Cannabigerol Acid (CBGA)	0.001	0.16	ND	ND
Cannabigerol (CBG)	0.001	0.16	ND	ND
Cannabidiol (CBD)	0.001	0.16	ND	ND
Tetrahydrocannabinol (THCV)	0.001	0.16	ND	ND
Cannabinol (CBN)	0.001	0.16	ND	ND
Tetrahydrocannabinol (Δ9-THC)	0.003	0.16	UI	UI
Δ8-tetrahydrocannabinol (Δ8-THC)	0.004	0.16	94.56	945.60
Cannabicyclol (CBL)	0.002	0.16	ND	ND
Cannabichromene (CBC)	0.002	0.16	ND	ND
Tetrahydrocannabinolic Acid (THCA)	0.001	0.16	ND	ND
Total THC (THCa * 0.877 + Δ9THC)			ND	ND
Total THC + Δ8THC (THCa * 0.877 + Δ9THC + Δ8THC)			94.56	945.60
Total CBD (CBDA * 0.877 + CBD)			ND	ND
Total CBG (CBGA * 0.877 + CBG)			ND	ND
Total Cannabinoids			94.56	945.60

HME - Heavy Metals Detection Analysis

Analyzed **Apr 04, 2023** | Instrument **ICP/MSMS** | Method **SOP-005**

Analyte	LOD ug/g	LOQ ug/g	Result ug/g	Limit ug/g	Analyte	LOD ug/g	LOQ ug/g	Result ug/g	Limit ug/g
Arsenic (As)	0.0002	0.0005	ND	0.2	Cadmium (Cd)	3.0e-05	0.0005	ND	0.2
Mercury (Hg)	1.0e-05	0.0001	ND	0.1	Lead (Pb)	1.0e-05	0.00125	ND	0.5

MIBIG - Microbial Testing Analysis

Analyzed **Mar 31, 2023** | Instrument **qPCR and/or Plating** | Method **SOP-007**

Analyte	Result CFU/g	Limit	Analyte	Result CFU/g	Limit
Shiga toxin-producing Escherichia Coli	ND	ND per 1 gram	Salmonella spp.	ND	ND per 1 gram
Aspergillus fumigatus	ND	ND per 1 gram	Aspergillus flavus	ND	ND per 1 gram
Aspergillus niger	ND	ND per 1 gram	Aspergillus terreus	ND	ND per 1 gram

MTO - Mycotoxin Testing Analysis

Analyzed **Apr 04, 2023** | Instrument **LC/MSMS** | Method **SOP-004**

Analyte	LOD ug/kg	LOQ ug/kg	Result ug/kg (ppb)	Limit ug/kg	Analyte	LOD ug/kg	LOQ ug/kg	Result ug/kg (ppb)	Limit ug/kg
Ochratoxin A	5.0	20.0	ND	20	Aflatoxin B1	2.5	5.0	ND	-
Aflatoxin B2	2.5	5.0	ND	-	Aflatoxin G1	2.5	5.0	ND	-
Aflatoxin G2	2.5	5.0	ND	-	Total Aflatoxins	10.0	20.0	ND	20

UI Not Identified
 ND Not Detected
 N/A Not Applicable
 NT Not Reported
 LOD Limit of Detection
 LOQ Limit of Quantification
 <LOQ Detected
 >ULOL Above upper limit of linearity
 CFU/g Colony Forming Units per 1 gram
 TNTC Too Numerous to Count



Scan the QR code to verify authenticity.

Authorized Signature

Brandon Starr

Brandon Starr, Lab Manager
 Wed, 05 Apr 2023 10:13:00 -0700

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PES - Pesticides Screening Analysis

Analyzed Apr 04, 2023 | Instrument LC/MSMS GC/MSMS | Method SOP-003

Analyte	LOD ug/g	LOQ ug/g	Result ug/g	Limit ug/g	Analyte	LOD ug/g	LOQ ug/g	Result ug/g	Limit ug/g
Aldicarb	0.0078	0.02	ND	0.0078	Carbofuran	0.01	0.02	ND	0.01
Dimethoate	0.01	0.02	ND	0.01	Etofenprox	0.02	0.1	ND	0.02
Fenoxycarb	0.01	0.02	ND	0.01	Thiachloprid	0.01	0.02	ND	0.01
Daminozide	0.01	0.03	ND	0.01	Dichlorvos	0.02	0.07	ND	0.02
Imazail	0.02	0.07	ND	0.02	Methiocarb	0.01	0.02	ND	0.01
Spiroxamine	0.01	0.02	ND	0.01	Coumaphos	0.01	0.02	ND	0.01
Fipronil	0.01	0.1	ND	0.01	Paclbutrazol	0.01	0.03	ND	0.01
Chlorpyrifos	0.01	0.04	ND	0.01	Ethoprophos (Prophos)	0.01	0.02	ND	0.01
Baygon (Propoxur)	0.01	0.02	ND	0.01	Chlordane	0.04	0.1	ND	0.04
Chlorfenapyr	0.03	0.1	ND	0.03	Methyl Parathion	0.02	0.1	ND	0.02
Mevinphos	0.05	0.08	ND	0.03	Abamectin	0.03	0.08	ND	0.1
Acephate	0.02	0.05	ND	0.1	Acetamidrid	0.01	0.05	ND	0.1
Azoxystrobin	0.01	0.02	ND	0.1	Bifenazate	0.01	0.05	ND	0.1
Bifenthrin	0.02	0.35	ND	3	Boscalid	0.01	0.03	ND	0.1
Carbaryl	0.01	0.02	ND	0.5	Chlorantraniliprole	0.01	0.04	ND	10
Clofentezine	0.01	0.03	ND	0.1	Diazinon	0.01	0.02	ND	0.1
Dimethomorph	0.02	0.06	ND	2	Etoxazole	0.01	0.05	ND	0.1
Fenpyroximate	0.02	0.1	ND	0.1	Fonicamid	0.01	0.02	ND	0.1
Fludioxonil	0.01	0.05	ND	0.1	Hexythiazox	0.01	0.03	ND	0.1
Imidacloprid	0.01	0.05	ND	5	Kresoxim-methyl	0.01	0.03	ND	0.1
Malathion	0.01	0.05	ND	0.5	Metalaxyl	0.01	0.02	ND	2
Methomyl	0.02	0.05	ND	1	Myclobutanil	0.02	0.07	ND	0.1
Naled	0.01	0.02	ND	0.1	Oxamyl	0.01	0.02	ND	0.5
Permethrin	0.01	0.02	ND	0.5	Phosmet	0.01	0.02	ND	0.1
Piperonyl Butoxide	0.02	0.06	ND	3	Propiconazole	0.03	0.08	ND	0.1
Prallethrin	0.02	0.05	ND	0.1	Pyrethrin	0.05	0.41	ND	0.5
Pyridaben	0.02	0.07	ND	0.1	Spinosad A	0.01	0.05	ND	0.1
Spinosad D	0.01	0.05	ND	0.1	Spiromesifen	0.02	0.06	ND	0.1
Spirotetramat	0.01	0.02	ND	0.1	Tebuconazole	0.01	0.02	ND	0.1
Thiamethoxam	0.01	0.02	ND	5	Trifloxystrobin	0.01	0.02	ND	0.1
Acequinocyl	0.02	0.09	ND	0.1	Captan	0.01	0.02	ND	0.7
Cypermethrin	0.02	0.1	ND	1	Cyfluthrin	0.04	0.1	ND	2
Fenhexamid	0.02	0.07	ND	0.1	Spinetoram J.L	0.02	0.07	ND	0.1
Pentachloronitrobenzene	0.01	0.1	ND	0.1					

RES - Residual Solvents Testing Analysis

Analyzed Apr 04, 2023 | Instrument GC/FID with Headspace Analyzer | Method SOP-006

Analyte	LOD ug/g	LOQ ug/g	Result ug/g	Limit ug/g	Analyte	LOD ug/g	LOQ ug/g	Result ug/g	Limit ug/g
Propane (Prop)	0.4	40.0	ND	5000.0	Butane (But)	0.4	40.0	ND	5000.0
Methanol (Metha)	0.4	40.0	ND	3000.0	Ethylene Oxide (EthOx)	0.4	0.8	ND	1.0
Pentane (Pen)	0.4	40.0	ND	5000.0	Ethanol (Ethan)	0.4	40.0	ND	5000.0
Ethyl Ether (EthEt)	0.4	40.0	ND	5000.0	Acetone (Acet)	0.4	40.0	ND	5000.0
Isopropanol (2-Pro)	0.4	40.0	ND	5000.0	Acetonitrile (Acetonit)	0.4	40.0	ND	410.0
Methylene Chloride (MetCh)	0.4	0.8	1.0	1.0	Hexane (Hex)	0.4	40.0	ND	290.0
Ethyl Acetate (EthAc)	0.4	40.0	ND	5000.0	Chloroform (Clo)	0.4	0.8	ND	1.0
Benzene (Ben)	0.4	0.8	ND	1.0	1-2-Dichloroethane (12-Dich)	0.4	0.8	ND	1.0
Heptane (Hep)	0.4	40.0	ND	5000.0	Trichloroethylene (TriClEtH)	0.4	0.8	ND	1.0
Toluene (Toluene)	0.4	40.0	ND	890.0	Xylenes (Xyl)	0.4	40.0	ND	2170.0

FVI - Filth & Foreign Material Inspection Analysis

Analyzed Mar 30, 2023 | Instrument Microscope | Method SOP-010

Analyte / Limit	Result	Analyte / Limit	Result
> 1/4 of the total sample area covered by sand, soil, cinders, or dirt	ND	> 1/4 of the total sample area covered by mold	ND
> 1 insect fragment, 1 hair, or 1 count mammalian excreta per 3g	ND	> 1/4 of the total sample area covered by an imbedded foreign material	ND

UI Not Identified
 ND Not Detected
 N/A Not Applicable
 NT Not Reported
 LOD Limit of Detection
 LOQ Limit of Quantification
 <LOQ Detected
 >ULOL Above upper limit of linearity
 CFU/g Colony Forming Units per 1 gram
 TNTC Too Numerous to Count



Scan the QR code to verify authenticity.

Authorized Signature

Brandon Starr

Brandon Starr, Lab Manager
 Wed, 05 Apr 2023 10:13:00 -0700

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



Report Number: 23-000691/D002.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/D002.R000.

Reason: Updated report format.

Customer: IHC LLC
Product identity: 01LIR209_TG
Client/Metric ID: .
Laboratory ID: 23-000691-0010

Summary

Potency:

Analyte	Result (%)		
CBD-A	30.4		
CBDV-A	23.1		
THCV-A	4.78		
THC-A	4.71		
CBC-A	1.75		
CBG-A	0.979		
CBD	0.629		
Δ9-THC	0.241		
THCV	0.218		
CBG	0.0825		
			CBD-Total 27.3% <hr/> THC-Total 4.37% <hr/> (Reported in percent of total sample)

Residual Solvents:

Analyte	Result (µg/g)	Limits (µg/g)	Status
n-Butane	4840		
Butanes (sum)	4840	5000	pass

Metals:

Less than LOQ for all analytes.



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Received: 01/17/23 14:16

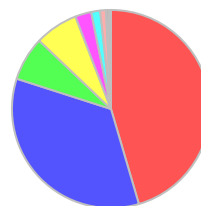
Customer: IHC LLC
 825 NW 16th Ave
 Portland Oregon 97209
 United States of America (USA)

Product identity: 01LIR209_TG
Client/Metric ID: .
Sample Date:
Laboratory ID: 23-000691-0010
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 5:22:00 AM
Analyte	As Received	Dry weight	LOQ	Notes	
CBC	< LOQ		0.0682		
CBC-A	1.75		0.0682		
CBC-Total	1.54		0.128		
CBD	0.629		0.0682		
CBD-A	30.4		0.682		
CBD-Total	27.3		0.666		
CBDV	< LOQ		0.0682		
CBDV-A	23.1		0.682		
CBDV-Total	20.0		0.659		
CBE	< LOQ		0.0682		
CBG	0.0825		0.0682		
CBG-A	0.979		0.0682		
CBG-Total	0.942		0.127		
CBL	< LOQ		0.0682		
CBL-A	< LOQ		0.0682		
CBL-Total	< LOQ		0.128		
CBN	< LOQ		0.0682		
CBT	< LOQ		0.0682		
Δ10-THC-9R	< LOQ		0.0682		
Δ8-THC	< LOQ		0.0682		
Δ8-THCV	< LOQ		0.0682		
Δ9-THC	0.241		0.0682		
exo-THC	< LOQ		0.0682		
THC-A	4.71		0.0682		
THC-Total	4.37		0.128		
THCV	0.218		0.0682		
THCV-A	4.78		0.0682		
THCV-Total	4.41		0.127		
Total Cannabinoids	66.9				



- CBD-A
- CBDV-A
- THCV-A
- THC-A
- CBC-A
- CBG-A
- CBD
- Δ9-THC
- THCV
- CBG



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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)	4840	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	4840		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	0.0775	2300594	01/18/23 AOAC 2013.06 (mod.) ^p	pass			
Cadmium	< LOQ	0.200	mg/kg	0.0775	2300594	01/18/23 AOAC 2013.06 (mod.) ^p	pass			
Lead	< LOQ	0.500	mg/kg	0.0775	2300594	01/18/23 AOAC 2013.06 (mod.) ^p	pass			
Mercury	< LOQ	0.100	mg/kg	0.0388	2300594	01/18/23 AOAC 2013.06 (mod.) ^p	pass			



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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.

^p = 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

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



Report Number: 23-000691/D002.R001
Report Date: 01/26/2023
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: 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/D002.R001
Report Date: 01/26/2023
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: 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/D002.R001
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ORELAP#: OR100028
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Revision: 2 Document ID: 7087
 Legacy ID: CFL-E33Effective:

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	

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 333-007-0410 OAR 333-007-0430



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Revision: 2 Document ID: 7087
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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



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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.