Columbia LABORATORIES
A Tentamus Company

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

Report Number: 22-012267/D003.R001
Report Date: 10/24/2022
ORELAP#: OR100028
Purchase Order:
Received: 10/11/22 12:56

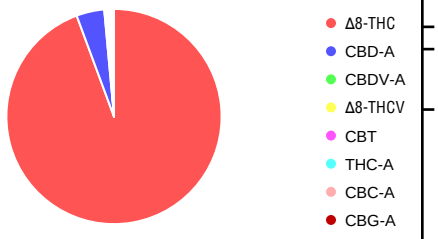
This is an amended version of report# 22-012267/D003.R000.
Reason: Sample re-extracted for potency.

Customer: IHC LLC
Product identity: 0103LIRVAP200_PPine
Client/Metrc ID: .
Laboratory ID: 22-012267-0002

Summary

Potency:

Analyte	Result (%)
Δ8-THC	77.6
CBD-A	3.44
CBDV-A	0.245
Δ8-THCV	0.242
CBT	0.235
THC-A	0.188
CBC-A	0.162
CBG-A	0.125



CBD-Total 3.02%

THC-Total 0.165%

(Reported in percent of total sample)

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Received: 10/11/22 12:56

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

Product identity: 0103LIRVAP200_PPine
Client/Metrc ID: .
Sample Date:
Laboratory ID: 22-012267-0002
Evidence of Cooling: No
Temp: 10.4
Relinquished by: ramos

THE HEMP COLLECT

Sample Results

Potency **Method:** J AOAC 2015 V98-6 (mod)[b] **Units** % **Batch:** 2209041 **Analyze:** 10/21/22 10:53:00 A

Analyte	As Received	Dry weight	LOQ	Notes
CBC	< LOQ		0.0765	
CBC-A	0.162		0.0765	
CBC-Total	< LOQ		0.144	
CBD	< LOQ		0.0765	
CBD-A	3.44		0.0765	
CBD-Total	3.02		0.144	
CBDV	< LOQ		0.0765	
CBDV-A	0.245		0.0765	
CBDV-Total	0.212		0.143	
CBE	< LOQ		0.0765	
CBG	< LOQ		0.0765	
CBG-A	0.125		0.0765	
CBG-Total	< LOQ		0.143	
CBL	< LOQ		0.0765	
CBL-A	< LOQ		0.0765	
CBL-Total	< LOQ		0.144	
CBN	< LOQ		0.0765	
CBT	0.235		0.0765	
Δ10-THC	< LOQ		0.0765	
Δ8-THC	77.6		0.765	
Δ8-THCV	0.242		0.0765	
Δ9-THC	< LOQ		0.0765	
exo-THC	< LOQ		0.0765	
THC-A	0.188		0.0765	
THC-Total	0.165		0.144	
THCV	< LOQ		0.0765	
THCV-A	< LOQ		0.0765	
THCV-Total	< LOQ		0.143	
Total Cannabinoids	82.2			

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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.

þ = 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

Testing in accordance with: OAR 333-007-0430

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Columbia LABORATORIES
A Tentamus Company

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

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

THEHEMPCOLLECT 22-012267

Company: The Hemp Collect
Contact: kyle@thehempcollect.com
Street: 431 NW Flanders st.
City: Portland State: OR Zip: 97209
Email Results: dropbox (IHC)
Ph: (b1) b0d1b4 Fx Results: (___)
Billing (if different): joel@thehempcollect.com

PO Number: THC
Project Number:
Project Name:
Custom Reporting:
Report to State - ☐ METRC or ☐ Other:
Turnaround time: ☑ 5 Business Day Standard Turnaround
☐ 5 Business Day Rush Turnaround*
☐ 2 Business Day Rush Turnaround*
*Check for availability
Sampled by:

Lab ID	Client Sample Identification	Date	Time	Pesticides – OR 35 compounds	Pesticide Multi-Residue – 379 compounds	Potency	Residual Solvents	Moisture & Water Activity	Terpenes	Micro: Yeast and Mold	Micro: E.Coli and Total Coliform	Heavy Metals	Mycotoxins	Other:	Sample Type *	Weight (Units)	Comments/Metrc ID
1	0103LIRVAP200_SSC					X									C		
2	0103LIRVAP200_PPine					X									C		
3	01LIR209_PPine			X		X	X					X			C		
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Relinquished By:	Date	Time	Received By:	Date	Time
Kyle Farook	10/4	4:00 PI		10-11	1142
	10.11	1210	EBS	10/11/22	12:56

Lab Use Only:
☐ Shipped Via: _____ or ☐ Client drop
Evidence of cooling: ☐ Yes | ☐ No - Temp (°C): 10.4
Sample is good condition: ☐ Yes | ☐ No: _____
☐ Cash | ☐ Check | ☐ CC | ☐ Net: _____
Prelog storage: _____

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

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

12423 NE Whitaker Way
Portland, OR 97230

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

Page ____ of ____

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Purchase Order:
Received: 10/11/22 12:56

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

Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2209041**

Laboratory Control Sample

Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	2	0.104	0.101	%	103	80.0 - 120	Acceptable	
CBDV	2	0.113	0.110	%	103	80.0 - 120	Acceptable	
CBE	2	0.105	0.102	%	103	80.0 - 120	Acceptable	
CBDA	1	0.0991	0.100	%	98.7	90.0 - 110	Acceptable	
CBGA	1	0.0996	0.101	%	99.0	80.0 - 120	Acceptable	
CBG	1	0.103	0.103	%	100	80.0 - 120	Acceptable	
CBD	1	0.103	0.103	%	100	90.0 - 110	Acceptable	
THCV	2	0.107	0.106	%	101	80.0 - 120	Acceptable	
d8THCV	2	0.110	0.106	%	103	80.0 - 120	Acceptable	
THCVA	2	0.101	0.099	%	103	80.0 - 120	Acceptable	
CBN	1	0.103	0.101	%	102	90.0 - 110	Acceptable	
exo-THC	2	0.104	0.103	%	101	80.0 - 120	Acceptable	
d9THC	1	0.106	0.104	%	103	90.0 - 110	Acceptable	
d8THC	1	0.107	0.100	%	107	90.0 - 110	Acceptable	
CBL	2	0.101	0.097	%	104	80.0 - 120	Acceptable	
d10THC	1	0.0955	0.096	%	99.8	80.0 - 120	Acceptable	
CBC	2	0.110	0.107	%	103	80.0 - 120	Acceptable	
THCA	1	0.0970	0.099	%	97.5	90.0 - 110	Acceptable	
CBCA	2	0.104	0.103	%	101	80.0 - 120	Acceptable	
CBLA	2	0.106	0.105	%	102	80.0 - 120	Acceptable	
CBT	2	0.111	0.108	%	103	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	
d10THC	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBC	<LOQ	0.0077	%	< 0.0077	Acceptable	
THCA	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBCA	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBLA	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBT	<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

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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: 2209041			
Sample Duplicate					Sample ID: 22-012267-0002-01			
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	0.308	0.245	0.077	%	22.7	< 20	Outlier	R
CBDV	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBDA	4.40	3.44	0.077	%	24.3	< 20	Outlier	R
CBGA	0.163	0.125	0.077	%	26.3	< 20	Outlier	R
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	0.244	0.242	0.077	%	1.04	< 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	77.8	77.6	0.077	%	0.251	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
d10THC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
THCA	0.222	0.188	0.077	%	16.8	< 20	Acceptable	
CBCA	0.202	0.162	0.077	%	22.2	< 20	Outlier	R
CBLA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBT	0.240	0.235	0.077	%	2.34	< 20	Acceptable	

Abbreviations

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

Units of Measure:

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Explanation of QC Flag Comments:

Code	Explanation
Q	Matrix interferences affecting spike or surrogate recoveries.
Q1	Quality control result biased high. Only non-detect samples reported.
Q2	Quality control outside QC limits. Data considered estimate.
Q3	Sample concentration greater than four times the amount spiked.
Q4	Non-homogenous sample matrix, affecting RPD result and/or % recoveries.
Q5	Spike results above calibration curve.
Q6	Quality control outside QC limits. Data acceptable based on remaining QC.
R	Relative percent difference (RPD) outside control limit.
R1	RPD non-calculable, as sample or duplicate results are less than five times the LOQ.
R2	Sample replicates RPD non-calculable, as only one replicate is within the analytical range.
LOQ1	Quantitation level raised due to low sample volume and/or dilution.
LOQ2	Quantitaion level raised due to matrix interference.
B	Analyte detected in method blank, but not in associated samples.
B1	The sample concentration is greater than 5 times the blank concentration.
B2	The sample concentration is less than 5 times the blank concentration.

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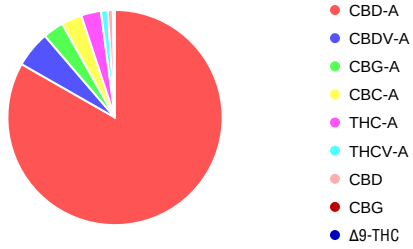
Report Number: 22-012267/D004.R000
Report Date: 10/18/2022
ORELAP#: OR100028
Purchase Order:
Received: 10/11/22 12:56

Customer: IHC LLC
Product identity: 01LIR209_PPine
Client/Metrc ID: .
Laboratory ID: 22-012267-0003

Summary

Potency:

Analyte	Result (%)
CBD-A	61.8
CBDV-A	4.04
CBG-A	2.32
CBC-A	2.29
THC-A	2.21
THCV-A	0.754
CBD	0.567
CBG	0.159
Δ9-THC	0.0812



CBD-Total 54.8%

THC-Total 2.02%

(Reported in percent of total sample)

Residual Solvents:

Analyte	Result (µg/g)	Limits (µg/g)	Status
Butanes (sum)	2480	5000	pass
n-Butane	2480		

Pesticides:

All analytes passing and less than LOQ.

Metals:

Less than LOQ for all analytes.

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

Product identity: 01LIR209_PPine
Client/Metrc ID: .
Sample Date:
Laboratory ID: 22-012267-0003
Evidence of Cooling: No
Temp: 10.4
Relinquished by: ramos

THE HEMP COLLECT

Sample Results

Potency **Method:** J AOAC 2015 V98-6 (mod)[b] **Units** % **Batch:** 2208812 **Analyze:** 10/14/22 7:16:00 PM

Analyte	As Received	Dry weight	LOQ	Notes
CBC	< LOQ		0.0755	
CBC-A	2.29		0.0755	
CBC-Total	2.01		0.142	
CBD	0.567		0.0755	
CBD-A	61.8		0.755	
CBD-Total	54.8		0.738	
CBDV	< LOQ		0.0755	
CBDV-A	4.04		0.0755	
CBDV-Total	3.50		0.141	
CBE	< LOQ		0.0755	
CBG	0.159		0.0755	
CBG-A	2.32		0.0755	
CBG-Total	2.20		0.141	
CBL	< LOQ		0.0755	
CBL-A	< LOQ		0.0755	
CBL-Total	< LOQ		0.142	
CBN	< LOQ		0.0755	
CBT	< LOQ		0.0755	
Δ10-THC	< LOQ		0.0755	
Δ8-THC	< LOQ		0.0755	
Δ8-THCV	< LOQ		0.0755	
Δ9-THC	0.0812		0.0755	
exo-THC	< LOQ		0.0755	
THC-A	2.21		0.0755	
THC-Total	2.02		0.142	
THCV	< LOQ		0.0755	
THCV-A	0.754		0.0755	
THCV-Total	0.662		0.141	
Total Cannabinoids	74.2			

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Solvents **Method:** Residual Solvents by GC/MS^{b} **Units** µg/g **Batch** 2208815 **Analyze** 10/17/22 12:33 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)	2480	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	2480		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	

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Pesticides

Method: AOAC 2007.01 & EN 15662 (mod)þ **Units** mg/kg **Batch** 2208761 **Analyze** 10/14/22 10:49 AM

Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin¥	< LOQ	0.50	0.250	pass		Acephate¥	< LOQ	0.40	0.250	pass	
Acequinocyl¥	< LOQ	2.0	1.00	pass		Acetamiprid¥	< LOQ	0.20	0.100	pass	
Aldicarb¥	< LOQ	0.40	0.200	pass		Azoxystrobin¥	< LOQ	0.20	0.100	pass	
Bifenazate¥	< LOQ	0.20	0.100	pass		Bifenthrin¥	< LOQ	0.20	0.100	pass	
Boscalid¥	< LOQ	0.40	0.200	pass		Carbaryl¥	< LOQ	0.20	0.100	pass	
Carbofuran¥	< LOQ	0.20	0.100	pass		Chlorantraniliprole¥	< LOQ	0.20	0.100	pass	
Chlorfenapyr¥	< LOQ	1.0	0.500	pass		Chlorpyrifos¥	< LOQ	0.20	0.100	pass	
Clofentezine¥	< LOQ	0.20	0.100	pass		Cyfluthrin¥	< LOQ	1.0	0.500	pass	
Cypermethrin¥	< LOQ	1.0	0.500	pass		Daminozide¥	< LOQ	1.0	0.500	pass	
Diazinon¥	< LOQ	0.20	0.100	pass		Dichlorvos¥	< LOQ	1.0	0.500	pass	
Dimethoate¥	< LOQ	0.20	0.100	pass		Ethoprophos¥	< LOQ	0.20	0.100	pass	
Etofenprox¥	< LOQ	0.40	0.200	pass		Etoxazole¥	< LOQ	0.20	0.100	pass	
Fenoxycarb¥	< LOQ	0.20	0.100	pass		Fenpyroximate¥	< LOQ	0.40	0.200	pass	
Fipronil¥	< LOQ	0.40	0.200	pass		Flonicamid¥	< LOQ	1.0	0.400	pass	
Fludioxonil¥	< LOQ	0.40	0.200	pass		Hexythiazox¥	< LOQ	1.0	0.400	pass	
Imazalil¥	< LOQ	0.20	0.100	pass		Imidacloprid¥	< LOQ	0.40	0.200	pass	
Kresoxim-methyl¥	< LOQ	0.40	0.200	pass		Malathion¥	< LOQ	0.20	0.100	pass	
Metalaxyl¥	< LOQ	0.20	0.100	pass		Methiocarb¥	< LOQ	0.20	0.100	pass	
Methomyl¥	< LOQ	0.40	0.200	pass		MGK-264¥	< LOQ	0.20	0.100	pass	
Myclobutanil¥	< LOQ	0.20	0.100	pass		Naled¥	< LOQ	0.50	0.250	pass	
Oxamyl¥	< LOQ	1.0	0.500	pass		Paclobutrazole¥	< LOQ	0.40	0.200	pass	
Parathion-Methyl¥	< LOQ	0.20	0.200	pass		Permethrin¥	< LOQ	0.20	0.100	pass	
Phosmet¥	< LOQ	0.20	0.100	pass		Piperonyl butoxide¥	< LOQ	2.0	1.00	pass	
Prallethrin¥	< LOQ	0.20	0.200	pass		Propiconazole¥	< LOQ	0.40	0.200	pass	
Propoxur¥	< LOQ	0.20	0.100	pass		Pyrethrin I (total)¥	< LOQ	1.0	0.500	pass	
Pyridaben¥	< LOQ	0.20	0.100	pass		Spinosad¥	< LOQ	0.20	0.100	pass	
Spiromesifen¥	< LOQ	0.20	0.100	pass		Spirotetramat¥	< LOQ	0.20	0.100	pass	
Spiroxamine¥	< LOQ	0.40	0.200	pass		Tebuconazole¥	< LOQ	0.40	0.200	pass	
Thiacloprid¥	< LOQ	0.20	0.100	pass		Thiamethoxam¥	< LOQ	0.20	0.100	pass	
Trifloxystrobin¥	< LOQ	0.20	0.100	pass							

Metals

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed	Method	Status	Notes
Arsenic	< LOQ	0.200	mg/kg	0.0820	2208736	10/13/22	AOAC 2013.06 (mod.)þ	pass	
Cadmium	< LOQ	0.200	mg/kg	0.0820	2208736	10/13/22	AOAC 2013.06 (mod.)þ	pass	
Lead	< LOQ	0.500	mg/kg	0.0820	2208736	10/13/22	AOAC 2013.06 (mod.)þ	pass	
Mercury	< LOQ	0.100	mg/kg	0.0410	2208736	10/13/22	AOAC 2013.06 (mod.)þ	pass	

Columbia LABORATORIES
A Tentamus Company

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

Report Number:	22-012267/D004.R000
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ORELAP#:	OR100028
Purchase Order:	
Received:	10/11/22 12:56

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.

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

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

Columbia LABORATORIES
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Portland, OR 97230
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Hemp / Cannabis Usable / Extract / Finished Products
Chain of Custody Record

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

THEHEMPCOLLECT 22-012267

Company: The Hemp Collect
Contact: kyle@thehempcollect.com
Street: 431 NW Flanders st.
City: Portland State: OR Zip: 97209
☑ Email Results: dropbox (IHC)
Ph: (b1) b0d1b4 ☐ Fx Results: (___)
Billing (if different): joel@thehempcollect.com

PO Number: THC
Project Number:
Project Name:
Custom Reporting:
Report to State - ☐ METRC or ☐ Other:
Turnaround time: ☑ 5 Business Day Standard Turnaround
☐ 5 Business Day Rush Turnaround*
☐ 2 Business Day Rush Turnaround*
*Check for availability
Sampled by:

Analysis Requested: Pesticides – OR 16 compounds; Pesticide Multi-Residue – 379 compounds; Potency; Residual Solvents; Moisture & Water Activity; Terpenes; Micro: Yeast and Mold; Micro: E.Coli and Total Coliform; Heavy Metals; Mycotoxins; Other:

Lab ID	Client Sample Identification	Date	Time	Pesticides – OR 16 compounds	Pesticide Multi-Residue – 379 compounds	Potency	Residual Solvents	Moisture & Water Activity	Terpenes	Micro: Yeast and Mold	Micro: E.Coli and Total Coliform	Heavy Metals	Mycotoxins	Other:	Sample Type *	Weight (Units)	Comments/Metrc ID
1	0103LIRVAP200_SSC					X									C		
2	0103LIRVAP200_PPine					X									C		
3	01LIR209_PPine			X		X	X					X			C		
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Relinquished By:	Date	Time	Received By:	Date	Time
Kyle Farook	10/4	4:00 PI		10-11	1142
	10.11	1210	EBS	10/11/22	12:56

Lab Use Only:
☐ Shipped Via: _____ or ☐ Client drop
Evidence of cooling: ☐ Yes | ☐ No - Temp (°C): 18.4
Sample is good condition: ☐ Yes | ☐ No: _____
☐ Cash | ☐ Check | ☐ CC | ☐ Net: _____
Prelog storage: _____

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

Samples collected at Columbia Laboratories will comply requirements constitute an agreement for services in accordance with the current terms of service associated with this COC. By signing "Relinquished By" you are agreeing to these terms.

12423 NE Whitaker Way
Portland, OR 97230
P: (503) 254-1794 | Fax: (503) 254-1452
www.columbialaboratories.com

Page _____ of _____

Columbia LABORATORIES
A Tentamus Company

12423 NE Whitaker Way
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Report Number: 22-012267/D004.R000
Report Date: 10/18/2022
ORELAP#: OR100028
Purchase Order:
Received: 10/11/22 12:56

Revision: 3 Document ID: 3120
LegacyID: CFLC21WorksheetValidated 10/30/2020

Laboratory Pesticide Quality Control Results

AOAC 2007.1 &EN 15662	Units: mg/Kg								Batch ID: 2208761
Method Blank				Laboratory Control Sample					
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits		Notes
Abamectin	0.000	< 0.250		0.880	1.000	88.0	50.0	150	
Acephate	0.000	< 0.250		0.824	1.000	82.4	60.0	120	
Acequinocyl	0.000	< 1.000		3.353	4.000	83.8	40.0	160	
Acetamiprid	0.000	< 0.100		0.368	0.400	91.9	60.0	120	
Aldicarb	0.000	< 0.200		0.717	0.800	89.7	60.0	120	
Azoxystrobin	0.000	< 0.100		0.363	0.400	90.8	60.0	120	
Bifenazate	0.000	< 0.100		0.362	0.400	90.6	60.0	120	
Bifenthrin	0.000	< 0.100		0.350	0.400	87.5	50.0	150	
Boscalid	0.000	< 0.200		0.719	0.800	89.8	60.0	120	
Carbaryl	0.000	< 0.100		0.367	0.400	91.8	60.0	120	
Carbofuran	0.000	< 0.100		0.371	0.400	92.7	60.0	120	
Chlorantraniliprole	0.000	< 0.100		0.350	0.400	87.4	60.0	120	
Chlorfenapyr	0.000	< 0.500		1.607	2.000	80.3	60.0	120	
Chlorpyrifos	0.000	< 0.100		0.368	0.400	92.0	60.0	120	
Clofentezine	0.000	< 0.100		0.357	0.400	89.2	60.0	120	
Cyfluthrin	0.000	< 0.500		1.919	2.000	95.9	50.0	150	
Cypermethrin	0.000	< 0.500		1.806	2.000	90.3	50.0	150	
Daminozide	0.000	< 0.500		1.886	2.000	94.3	60.0	120	
Diazinon	0.000	< 0.100		0.372	0.400	93.1	60.0	120	
Dichlorvos	0.000	< 0.500		1.842	2.000	92.1	60.0	120	
Dimethoate	0.000	< 0.100		0.369	0.400	92.4	60.0	120	
Ethoprophos	0.000	< 0.100		0.347	0.400	86.6	60.0	120	
Etofenprox	0.000	< 0.200		0.707	0.800	88.4	50.0	150	
Etoxazole	0.000	< 0.100		0.361	0.400	90.2	60.0	120	
Fenoxycarb	0.000	< 0.100		0.355	0.400	88.8	60.0	120	
Fenpyroximate	0.000	< 0.200		0.708	0.800	88.5	60.0	120	
Fipronil	0.000	< 0.200		0.719	0.800	89.9	60.0	120	
Flonicamid	0.000	< 0.250		0.944	1.000	94.4	60.0	120	
Fludioxonil	0.000	< 0.200		0.805	0.800	100.6	50.0	150	
Hexythiazox	0.000	< 0.250		0.893	1.000	89.3	60.0	120	
Imazalil	0.000	< 0.100		0.371	0.400	92.6	60.0	120	
Imidacloprid	0.000	< 0.200		0.727	0.800	90.8	60.0	120	
Kresoxim-methyl	0.000	< 0.200		0.749	0.800	93.7	60.0	120	
Malathion	0.000	< 0.100		0.364	0.400	91.0	60.0	120	
Metalaxyl	0.000	< 0.100		0.369	0.400	92.1	60.0	120	
Methiocarb	0.000	< 0.100		0.367	0.400	91.8	60.0	120	
Methomyl	0.000	< 0.200		0.666	0.800	83.2	60.0	120	
MGK-264	0.000	< 0.100		0.364	0.400	91.1	50.0	150	
Myclobutanil	0.000	< 0.100		0.360	0.400	90.1	60.0	120	
Naled	0.000	< 0.250		0.877	1.000	87.7	50.0	150	
Oxamyl	0.000	< 0.500		1.911	2.000	95.5	60.0	120	
Paclobutrazole	0.000	< 0.200		0.715	0.800	89.4	60.0	120	
Parathion-Methyl	0.000	< 0.200		0.728	0.800	91.0	50.0	150	
Permethrin	0.000	< 0.100		0.355	0.400	88.8	50.0	150	
Phosmet	0.000	< 0.100		0.351	0.400	87.9	50.0	150	
Piperonyl butoxide	0.000	< 0.500		1.739	2.000	87.0	60.0	120	
Prallethrin	0.000	< 0.100		0.368	0.400	91.9	60.0	120	
Propiconazole	0.000	< 0.200		0.734	0.800	91.7	60.0	120	
Propoxur	0.000	< 0.100		0.374	0.400	93.5	60.0	120	
Pyrethrin (Summe)	0.000	< 0.100		0.377	0.413	91.2	60.0	120	
Pyridaben	0.000	< 0.100		0.349	0.400	87.3	50.0	150	
Spinosad	0.000	< 0.100		0.319	0.388	82.2	50.0	150	
Spiromesifen	0.000	< 0.100		0.363	0.400	90.7	60.0	120	
Spirotetramat	0.000	< 0.100		0.369	0.400	92.2	60.0	120	
Spiroxamine	0.000	< 0.200		0.732	0.800	91.4	60.0	120	
Tebuconazole	0.000	< 0.200		0.723	0.800	90.4	60.0	120	
Thiadoprid	0.000	< 0.100		0.374	0.400	93.5	60.0	120	
Thiamethoxam	0.000	< 0.100		0.359	0.400	89.8	60.0	120	
Trifloxystrobin	0.000	< 0.100		0.360	0.400	89.9	60.0	120	

Columbia LABORATORIES
A Tentamus Company

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ORELAP#: OR100028
Purchase Order:
Received: 10/11/22 12:56

Revision: 3 Document ID: 3120
LegacyID: CFLC21WorksheetValidated 10/30/2020

Laboratory Pesticide Quality Control Results

AOAC 2007.1 &EN 15662 | Units: mg/Kg | Batch ID: 2208761
Matrix Spike/Matrix Spike Duplicate Recoveries | Sample ID: 220121770001

Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Abamectin	0.000	0.638	0.648	1.000	1.6%	< 30	63.8%	64.8%	50 - 150	
Acephate	0.000	0.605	0.654	1.000	7.8%	< 30	60.5%	65.4%	50 - 150	
Acequinocyl	0.000	1.501	1.570	4.000	4.5%	< 30	37.5%	39.2%	50 - 150	Q
Acetamiprid	0.000	0.347	0.354	0.400	2.0%	< 30	86.8%	88.5%	50 - 150	
Aldicarb	0.000	0.669	0.718	0.800	7.1%	< 30	83.6%	89.7%	50 - 150	
Azoxystrobin	0.000	0.269	0.268	0.400	0.7%	< 30	67.3%	66.9%	50 - 150	
Bifenazate	0.000	0.300	0.319	0.400	6.2%	< 30	74.9%	79.7%	50 - 150	
Bifenthrin	0.000	0.200	0.217	0.400	8.3%	< 30	49.9%	54.2%	50 - 150	Q
Boscalid	0.069	0.683	0.645	0.800	6.4%	< 30	76.8%	72.0%	50 - 150	
Carbaryl	0.000	0.300	0.297	0.400	1.1%	< 30	74.9%	74.1%	50 - 150	
Carbofuran	0.000	0.278	0.280	0.400	0.9%	< 30	69.4%	70.0%	50 - 150	
Chlorantraniliprole	0.000	0.303	0.312	0.400	3.0%	< 30	75.7%	78.0%	50 - 150	
Chlorfenapyr	0.000	1.231	1.067	2.000	14.2%	< 30	61.5%	53.4%	50 - 150	
Chlorpyrifos	0.000	2.487	2.665	0.400	6.9%	< 30	621.8%	666.2%	50 - 150	Q
Clofentezine	0.000	0.229	0.235	0.400	2.7%	< 30	57.1%	58.7%	50 - 150	
Cyfluthrin	0.000	0.871	0.940	2.000	7.6%	< 30	43.5%	47.0%	30 - 150	
Cypermethrin	0.000	0.759	0.817	2.000	7.5%	< 30	37.9%	40.9%	50 - 150	Q
Daminozide	0.000	0.290	0.318	2.000	9.3%	< 30	14.5%	15.9%	30 - 150	Q
Diazinon	0.000	0.205	0.205	0.400	0.4%	< 30	51.3%	51.1%	50 - 150	
Dichlorvos	0.000	1.564	1.589	2.000	1.6%	< 30	78.2%	79.5%	50 - 150	
Dimethoate	0.000	0.352	0.358	0.400	1.7%	< 30	88.1%	89.6%	50 - 150	
Ethoprophos	0.000	0.250	0.250	0.400	0.2%	< 30	62.4%	62.5%	50 - 150	
Etofenprox	0.000	0.347	0.351	0.800	1.3%	< 30	43.3%	43.9%	50 - 150	Q
Etoxazole	0.000	0.275	0.271	0.400	1.6%	< 30	68.8%	67.7%	50 - 150	
Fenoxycarb	0.000	0.259	0.269	0.400	3.7%	< 30	64.7%	67.2%	50 - 150	
Fenpyroximate	0.000	0.303	0.343	0.800	10.6%	< 30	38.5%	42.8%	50 - 150	Q
Fipronil	0.000	0.519	0.550	0.800	5.7%	< 30	64.9%	68.7%	50 - 150	
Flonicamid	0.000	0.927	0.910	1.000	1.9%	< 30	92.7%	91.0%	50 - 150	
Fludioxonil	0.000	0.809	0.777	0.800	4.0%	< 30	101.1%	97.1%	50 - 150	
Hexythiazox	0.000	0.658	0.665	1.000	1.1%	< 30	65.8%	66.5%	50 - 150	
Imazalil	0.000	0.326	0.340	0.400	4.3%	< 30	81.5%	85.1%	50 - 150	
Imidacloprid	0.000	0.773	0.808	0.800	4.4%	< 30	96.6%	101.0%	50 - 150	
Kresoxim-methyl	0.000	0.477	0.486	0.800	1.8%	< 30	59.7%	60.7%	50 - 150	
Malathion	0.000	0.236	0.241	0.400	2.3%	< 30	58.9%	60.3%	50 - 150	
Metalaxyl	0.000	0.275	0.284	0.400	3.3%	< 30	68.8%	71.1%	50 - 150	
Methiocarb	0.000	0.282	0.281	0.400	0.6%	< 30	70.5%	70.1%	50 - 150	
Methomyl	0.000	0.748	0.630	0.800	17.2%	< 30	93.5%	78.7%	50 - 150	
MGK-264	0.000	0.154	0.158	0.400	2.2%	< 30	38.5%	39.4%	50 - 150	Q
Myclobutanil	0.000	0.236	0.279	0.400	16.5%	< 30	59.0%	69.7%	50 - 150	
Naled	0.000	0.634	0.644	1.000	1.5%	< 30	63.4%	64.4%	50 - 150	
Oxamyl	0.000	1.904	1.702	2.000	11.2%	< 30	95.2%	85.1%	50 - 150	
Paclobutrazole	0.000	0.575	0.602	0.800	4.6%	< 30	71.8%	75.2%	50 - 150	
Parathion-Methyl	0.000	0.454	0.359	0.800	23.4%	< 30	56.7%	44.9%	30 - 150	
Permethrin	0.000	0.212	0.213	0.400	0.5%	< 30	53.0%	53.2%	50 - 150	
Phosmet	0.000	0.283	0.293	0.400	3.4%	< 30	70.7%	73.2%	50 - 150	
Piperonyl butoxide	0.000	1.325	1.377	2.000	3.8%	< 30	66.2%	68.8%	50 - 150	
Prallethrin	0.000	0.197	0.193	0.400	1.6%	< 30	49.1%	48.3%	50 - 150	Q
Propiconazole	0.000	0.622	0.634	0.800	2.0%	< 30	77.8%	79.3%	50 - 150	
Propoxur	0.000	0.297	0.298	0.400	0.3%	< 30	74.4%	74.6%	50 - 150	
Pyrethrin (Summe)	0.000	0.320	0.323	0.413	0.9%	< 30	77.5%	78.3%	50 - 150	
Pyridaben	0.000	0.226	0.231	0.400	2.4%	< 30	56.5%	57.9%	50 - 150	
Spinosad	0.000	0.230	0.230	0.388	0.1%	< 30	59.3%	59.4%	50 - 150	
Spiromesifen	0.000	0.267	0.247	0.400	7.7%	< 30	66.7%	61.8%	50 - 150	
Spirotetramat	0.000	0.506	0.525	0.400	3.7%	< 30	126.5%	131.3%	50 - 150	
Spiroxamine	0.000	0.576	0.625	0.800	8.2%	< 30	72.0%	78.2%	50 - 150	
Tebuconazole	0.000	0.601	0.649	0.800	7.7%	< 30	75.1%	81.1%	50 - 150	
Thiadoprid	0.000	0.334	0.344	0.400	3.0%	< 30	83.4%	86.0%	50 - 150	
Thiamethoxam	0.000	0.358	0.330	0.400	8.2%	< 30	89.6%	82.5%	50 - 150	
Trifloxystrobin	0.000	0.243	0.247	0.400	1.5%	< 30	60.9%	61.8%	50 - 150	

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Received: 10/11/22 12:56

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

Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2208812**

Laboratory Control Sample

Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	2	0.112	0.103	%	109	80.0 - 120	Acceptable	
CBDV	2	0.119	0.110	%	109	80.0 - 120	Acceptable	
CBE	2	0.114	0.105	%	109	80.0 - 120	Acceptable	
CBDA	1	0.0956	0.100	%	95.2	90.0 - 110	Acceptable	
CBGA	1	0.0961	0.101	%	95.5	80.0 - 120	Acceptable	
CBG	1	0.100	0.103	%	97.3	80.0 - 120	Acceptable	
CBD	1	0.0990	0.103	%	96.4	90.0 - 110	Acceptable	
THCV	2	0.120	0.113	%	106	80.0 - 120	Acceptable	
d8THCV	2	0.120	0.110	%	109	80.0 - 120	Acceptable	
THCVA	2	0.108	0.101	%	108	80.0 - 120	Acceptable	
CBN	1	0.0983	0.101	%	97.2	90.0 - 110	Acceptable	
exo-THC	2	0.110	0.103	%	107	80.0 - 120	Acceptable	
d9THC	1	0.102	0.104	%	98.3	90.0 - 110	Acceptable	
d8THC	1	0.104	0.100	%	104	90.0 - 110	Acceptable	
CBL	2	0.105	0.099	%	106	80.0 - 120	Acceptable	
d10THC	1	0.0911	0.096	%	95.2	80.0 - 120	Acceptable	
CBC	2	0.117	0.108	%	108	80.0 - 120	Acceptable	
THCA	1	0.0921	0.099	%	92.6	90.0 - 110	Acceptable	
CBCA	2	0.114	0.105	%	108	80.0 - 120	Acceptable	
CBLA	2	0.0627	0.056	%	112	80.0 - 120	Acceptable	
CBT	2	0.118	0.112	%	106	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	
d10THC	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBC	<LOQ	0.0077	%	< 0.0077	Acceptable	
THCA	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBCA	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBLA	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBT	<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

Columbia LABORATORIES
A Tentamus Company

12423 NE Whitaker Way
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503-254-1794

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ORELAP#: OR100028
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Laboratory Quality Control Results

J AOAC 2015 V98-6					Batch ID: 2208812			
Sample Duplicate					Sample ID: 22-012234-0001			
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.0077	%	NA	< 20	Acceptable	
CBDV	0.275	0.274	0.0077	%	0.216	< 20	Acceptable	
CBE	1.82	1.90	0.0077	%	4.24	< 20	Acceptable	
CBDA	0.934	0.945	0.0077	%	1.18	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.0077	%	NA	< 20	Acceptable	
CBG	1.24	1.21	0.0077	%	2.28	< 20	Acceptable	
CBD	60.6	60.2	0.0077	%	0.683	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.0077	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.0077	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.0077	%	NA	< 20	Acceptable	
CBN	1.52	1.53	0.0077	%	0.203	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.0077	%	NA	< 20	Acceptable	
d9THC	<LOQ	<LOQ	0.0077	%	NA	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.0077	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.0077	%	NA	< 20	Acceptable	
d10THC	<LOQ	<LOQ	0.0077	%	NA	< 20	Acceptable	
CBC	1.99	1.96	0.0077	%	1.49	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.0077	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.0077	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.0077	%	NA	< 20	Acceptable	
CBT	1.08	1.14	0.0077	%	5.43	< 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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Laboratory Quality Control Results

Residual Solvents **Batch ID:** 2208815

Method Blank					Laboratory Control Sample							
Analyte	**Result**		**LOQ**	**Notes**	**Result**	**Spike**	**Units**	**% Rec**	**Limits**			**Notes**
Propane	ND	<	200		641	572	µg/g	112.1	60	-	120	
Isobutane	ND	<	200		870	731	µg/g	119.0	60	-	120	
Butane	ND	<	200		849	731	µg/g	116.1	60	-	120	
2,2-Dimethylpropane	ND	<	200		1190	936	µg/g	127.1	60	-	120	Q1
Methanol	ND	<	200		1650	1650	µg/g	100.0	60	-	120	
Ethylene Oxide	ND	<	30		62.4	56.2	µg/g	111.0	60	-	120	
2-Methylbutane	ND	<	200		1580	1650	µg/g	95.8	60	-	120	
Pentane	ND	<	200		1600	1650	µg/g	97.0	60	-	120	
Ethanol	ND	<	200		1720	1660	µg/g	103.6	70	-	130	
Ethyl Ether	ND	<	200		1640	1630	µg/g	100.6	60	-	120	
2,2-Dimethylbutane	ND	<	30		180	189	µg/g	95.2	60	-	120	
Acetone	ND	<	200		1630	1650	µg/g	98.8	60	-	120	
2-Propanol	ND	<	200		1880	1650	µg/g	113.9	60	-	120	
Ethyl Formate	ND	<	500		1550	1610	µg/g	96.3	70	-	130	
Acetonitrile	ND	<	100		576	504	µg/g	114.3	60	-	120	
Methyl Acetate	ND	<	500		1850	1630	µg/g	113.5	70	-	130	
2,3-Dimethylbutane	ND	<	30		170	174	µg/g	97.7	60	-	120	
Dichloromethane	ND	<	60		521	521	µg/g	100.0	60	-	120	
2-Methylpentane	ND	<	30		189	187	µg/g	101.1	60	-	120	
MTBE	ND	<	500		1770	1600	µg/g	110.6	70	-	130	
3-Methylpentane	ND	<	30		191	188	µg/g	101.6	60	-	120	
Hexane	ND	<	30		193	182	µg/g	106.0	60	-	120	
1-Propanol	ND	<	500		1740	1610	µg/g	108.1	70	-	130	
Methylethylketone	ND	<	500		1810	1600	µg/g	113.1	70	-	130	
Ethyl acetate	ND	<	200		1800	1630	µg/g	110.4	60	-	120	
2-Butanol	ND	<	200		1830	1630	µg/g	112.3	60	-	120	
Tetrahydrofuran	ND	<	100		528	506	µg/g	104.3	60	-	120	
Cyclohexane	ND	<	200		1720	1640	µg/g	104.9	60	-	120	
2-methyl-1-propanol	ND	<	500		1720	1620	µg/g	106.2	70	-	130	
Benzene	ND	<	1		5.11	4.93	µg/g	103.7	60	-	120	
Isopropyl Acetate	ND	<	200		1830	1640	µg/g	111.6	60	-	120	
Heptane	ND	<	200		1640	1630	µg/g	100.6	60	-	120	
1-Butanol	ND	<	500		1670	1600	µg/g	104.4	70	-	130	
Propyl Acetate	ND	<	500		1820	1620	µg/g	112.3	70	-	130	
1,4-Dioxane	ND	<	100		520	493	µg/g	105.5	60	-	120	
2-Ethoxyethanol	ND	<	30		183	171	µg/g	107.0	60	-	120	
Methylisobutylketone	ND	<	500		1700	1620	µg/g	104.9	70	-	130	
3-Methyl-1-butanol	ND	<	500		1690	1610	µg/g	105.0	70	-	130	
Ethylene Glycol	ND	<	200		459	494	µg/g	92.9	60	-	120	
Toluene	ND	<	100		517	506	µg/g	102.2	60	-	120	
Isobutyl Acetate	ND	<	500		1700	1620	µg/g	104.9	70	-	130	
1-Pentanol	ND	<	500		1550	1610	µg/g	96.3	70	-	130	
Butyl Acetate	ND	<	500		1600	1610	µg/g	99.4	70	-	130	
Ethylbenzene	ND	<	200		1030	996	µg/g	103.4	60	-	120	
m,p-Xylene	ND	<	200		1050	1010	µg/g	104.0	60	-	120	
o-Xylene	ND	<	200		989	979	µg/g	101.0	60	-	120	
Cumene	ND	<	30		186	188	µg/g	98.9	60	-	120	
Anisole	ND	<	500		1560	1610	µg/g	96.9	70	-	130	
DMSO	ND	<	500		1490	1600	µg/g	93.1	70	-	130	
1,2-dimethoxyethane	ND	<	50		207	190	µg/g	108.9	70	-	130	
Triethylamine	ND	<	500		1660	1610	µg/g	103.1	70	-	130	
N,N-dimethylformamide	ND	<	150		459	496	µg/g	92.5	70	-	130	
N,N-dimethylacetamide	ND	<	150		477	483	µg/g	98.8	70	-	130	
Pyridine	ND	<	50		163	167	µg/g	97.6	70	-	130	
Sulfolane	ND	<	50		140	161	µg/g	87.0	70	-	130	
1,2-Dichloroethane	ND	<	1		1.16	1	µg/g	116.0	70	-	130	
Chloroform	ND	<	1		1.17	1	µg/g	117.0	70	-	130	
Trichloroethylene	ND	<	1		1.17	1	µg/g	117.0	70	-	130	
1,1-Dichloroethane	ND	<	1		1.14	1	µg/g	114.0	70	-	130	

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QC - Sample Duplicate **Sample ID: 22-011957-0001**

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	
Methylethylketone	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Ethyl acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Butanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Tetrahydrofuran	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Cyclohexane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-methyl-1-propanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Benzene	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Isopropyl Acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Heptane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
1-Butanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Propyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
1,4-Dioxane	ND	ND	100	µg/g	0.0	< 20	Acceptable	
2-Ethoxyethanol	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Methylisobutylketone	ND	ND	500	µg/g	0.0	< 20	Acceptable	
3-Methyl-1-butanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Ethylene Glycol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Toluene	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Isobutyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
1-Pentanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Butyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Ethylbenzene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
m,p-Xylene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
o-Xylene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Cumene	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Anisole	ND	ND	500	µg/g	0.0	< 20	Acceptable	
DMSO	ND	ND	500	µg/g	0.0	< 20	Acceptable	
1,2-dimethoxyethane	ND	ND	50	µg/g	0.0	< 20	Acceptable	
Triethylamine	ND	ND	500	µg/g	0.0	< 20	Acceptable	
N,N-dimethylformamide	ND	ND	150	µg/g	0.0	< 20	Acceptable	
N,N-dimethylacetamide	ND	ND	150	µg/g	0.0	< 20	Acceptable	
Pyridine	ND	ND	50	µg/g	0.0	< 20	Acceptable	
Sulfolane	ND	ND	50	µg/g	0.0	< 20	Acceptable	
1,2-Dichloroethane	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Chloroform	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Trichloroethylene	ND	ND	1	µg/g	0.0	< 20	Acceptable	
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.

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	Quantitaion level raised due to matrix interference.
B	Analyte detected in method blank, but not in associated samples.
B1	The sample concentration is greater than 5 times the blank concentration.
B2	The sample concentration is less than 5 times the blank concentration.