Columbia LABORATORIES
A Tentamus Company

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

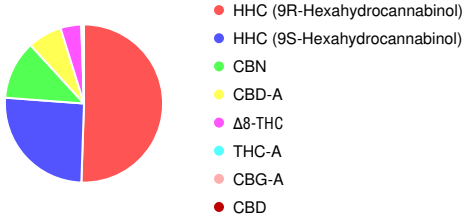
Report Number: 23-005280/D006.R000
Report Date: 05/08/2023
ORELAP#: OR100028
Purchase Order:
Received: 05/02/23 14:54

Customer: The Hemp Collect
Product identity: Live HHC Knockout Extract - Llama Kush
Client/Metrc ID: 101123122306
Laboratory ID: 23-005280-0005

Summary

Potency:

Analyte	Result (%)
HHC (9R-Hexahydrocannabinol)	39.3
HHC (9S-Hexahydrocannabinol)	19.9
CBN	9.34
CBD-A	5.44
Δ8-THC	3.30
THC-A	0.242
CBG-A	0.0986
CBD	0.0968



CBD-Total	4.87%
THC-Total	0.212%

(Reported in percent of total sample)

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Report Date: 05/08/2023
ORELAP#: OR100028
Purchase Order:
Received: 05/02/23 14:54

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

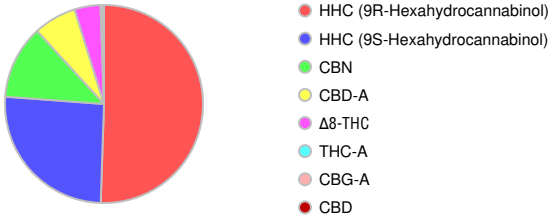
Product identity: Live HHC Knockout Extract - Llama Kush
Client/Metrc ID: 101123122306
Sample Date:
Laboratory ID: 23-005280-0005
Evidence of Cooling: No
Temp: 16.8
Relinquished by: ramos

THE HEMP COLLECT

Sample Results

Potency **Method:** J AOAC 2015 V98-6 (mod)[b] **Units** % **Batch:** 2307048 **Analyze:** 5/4/23 8:41:00 PM

Analyte	As Received	Dry weight	LOQ	Notes
CBD	0.0968		0.0675	
CBD-A	5.44		0.0675	
CBD-Total	4.87		0.127	
CBG	< LOQ		0.0675	
CBG-A	0.0986		0.0675	
CBG-Total	< LOQ		0.126	
CBN	9.34		0.0675	
Δ10-THC-9R	< LOQ		0.0675	
Δ10-THC-9S	< LOQ		0.0675	
Δ10-THC-Total	< LOQ		0.135	
Δ8-THC	3.30		0.0675	
Δ9-THC	< LOQ		0.0675	
HHC (9R-Hexahydrocannabinol)	39.3		0.675	
HHC (9S-Hexahydrocannabinol)	19.9		0.0675	
THC-A	0.242		0.0675	
THC-O-Acetate, delta-8	< LOQ		0.0675	
THC-O-Acetate, delta-9	< LOQ		0.0675	
THC-Total	0.212		0.127	
Total Cannabinoids	77.7			



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Report Number:	23-005280/D006.R000
Report Date:	05/08/2023
ORELAP#:	OR100028
Purchase Order:	
Received:	05/02/23 14:54

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

Columbia LABORATORIES
A Tentamus Company

12423 NE Whitaker Way
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Report Number: 23-005280/D006.R000
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Received: 05/02/23 14:54

Columbia LABORATORIES

Hemp & Cannabis Usable / Extract / Finished Product

Chain of Custody, Record

The-Hemp-Collect-1683052273

ORELAP ID: [redacted]

Contact Information
Company: The Hemp Collect
Contact: Blue Parker
Street Address: 437 NW Flanders st
City, State, Zip: Portland, Oregon 97209
Email: [redacted]
Contact Phone: [redacted]

Billing Information
Billing Email: [redacted]

Project Information
Project Name: N/A
PO Number: N/A
Turnaround Time: [redacted]
Samples Delivered to Laboratory: Schedule Pick Up
Cannabis Type: Extracted

Pick Up Location
Street Address: 437 NW Flanders st
City, State, Zip: Portland, Oregon 97209

#	Sample Name	Matrix	METRC ID	Amount Provided	Reporting Unit	Testing		
1	[redacted]	[redacted]	[redacted]	6 g	[redacted]			✓
2	[redacted]	[redacted]	[redacted]	10 g	[redacted]			✓
3	[redacted]	[redacted]	[redacted]	10 g	[redacted]			✓
4	[redacted]	[redacted]	[redacted]	10 g	[redacted]	✓		
5	[redacted]	[redacted]	[redacted]	10 g	[redacted]		✓	

Relinquished By	Date	Time	Temp., °C	Received By	Date	Time	Received Temp., °C	Evidence of Cooling?
Eric Parker	5/2/2023	17:37		ZP	5/2/2023	17:37		No
ZP	5/2/2023	19:24	15.8	MW	5/2/2023	19:37		No

Samples submitted to Columbia Laboratories will be by requirements and/or an agreement for services in accordance with the current terms of services associated with this COC. By signing "Relinquished by" you are agreeing to these terms.

Columbia Laboratories
12423 NE Whitaker Way
Portland, OR 97230
P (503) 254-1794 | Fax (503) 254-1452
info@columbialaboratories.com

Testing in accordance with: OAR 333-007-0430

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 23-005280/D006.R000
Report Date: 05/08/2023
ORELAP#: OR100028
Purchase Order:
Received: 05/02/23 14:54

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

Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2307048**

Laboratory Control Sample

Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	2	0.0937	0.091	%	102	80.0 - 120	Acceptable	
CBDV	2	0.0926	0.089	%	104	80.0 - 120	Acceptable	
CBE	2	0.103	0.102	%	102	80.0 - 120	Acceptable	
CBDA	1	0.100	0.096	%	104	90.0 - 110	Acceptable	
CBGA	1	0.0844	0.080	%	105	80.0 - 120	Acceptable	
CBG	1	0.102	0.098	%	105	80.0 - 120	Acceptable	
CBD	1	0.0897	0.086	%	104	90.0 - 110	Acceptable	
THCV	2	0.0672	0.068	%	98.9	80.0 - 120	Acceptable	
d8THCV	2	0.0807	0.080	%	101	80.0 - 120	Acceptable	
THCVA	2	0.0976	0.094	%	104	80.0 - 120	Acceptable	
CBN	1	0.0875	0.086	%	102	80.0 - 120	Acceptable	
exo-THC	2	0.0911	0.092	%	98.9	80.0 - 120	Acceptable	
d9THC	1	0.0975	0.103	%	94.8	90.0 - 110	Acceptable	
d8THC	1	0.100	0.098	%	102	90.0 - 110	Acceptable	
9S-d10THC	1	0.0979	0.101	%	97.4	80.0 - 120	Acceptable	
CBL	2	0.0960	0.097	%	99.2	80.0 - 120	Acceptable	
9S-HHC	3	0.0878	0.092	%	95.3	80.0 - 120	Acceptable	
9R-d10THC	1	0.0955	0.095	%	101	80.0 - 120	Acceptable	
CBC	2	0.0889	0.091	%	98.3	80.0 - 120	Acceptable	
9R-HHC	3	0.0794	0.083	%	95.9	80.0 - 120	Acceptable	
THCA	1	0.111	0.112	%	99.8	90.0 - 110	Acceptable	
CBCA	2	0.0997	0.097	%	103	80.0 - 120	Acceptable	
CBLA	2	0.0992	0.096	%	103	80.0 - 120	Acceptable	
d9THCP	2	0.0908	0.095	%	96.0	80.0 - 120	Acceptable	
d8THCO	3	0.0917	0.100	%	91.4	80.0 - 120	Acceptable	
CBT	2	0.0902	0.099	%	90.8	80.0 - 120	Acceptable	
d9THCO	3	0.0971	0.104	%	93.7	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	
9S-d10THC	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBL	<LOQ	0.0077	%	< 0.0077	Acceptable	
9S-HHC	<LOQ	0.0077	%	< 0.0077	Acceptable	
9R-d10THC	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBC	<LOQ	0.0077	%	< 0.0077	Acceptable	
9R-HHC	<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	
d9THCP	<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

Columbia LABORATORIES
A Tentamus Company

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Portland, OR 97230
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Purchase Order:
Received: 05/02/23 14:54

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

Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2307048**

Sample Duplicate Sample ID: **23-005280-0001**

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	2.33	2.55	0.077	%	9.23	< 20	Acceptable	
CBGA	0.0839	0.0896	0.077	%	6.61	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBD	16.3	17.3	0.077	%	6.01	< 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	39.9	41.9	0.077	%	5.06	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
d9THC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
d8THC	26.9	26.8	0.077	%	0.429	< 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	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
9R-HHC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
THCA	0.151	0.161	0.077	%	6.30	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
d9THCP	<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

Units of Measure:

% - Percent

Testing in accordance with: OAR 333-007-0430

Columbia LABORATORIES
A Tentamus Company

12423 NE Whitaker Way
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503-254-1794

Report Number:	23-005280/D006.R000
Report Date:	05/08/2023
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Received:	05/02/23 14:54

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Report Number: 23-005280/D006.R000
Report Date: 05/08/2023
ORELAP#: OR100028
Purchase Order:
Received: 05/02/23 14:54

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.

Columbia LABORATORIES
A Tentamus Company

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

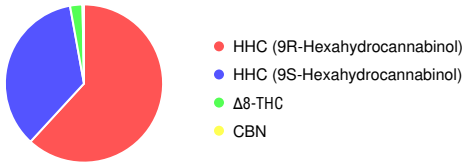
This is an amended version of report# 23-004523/D003.R000.
Reason: Combine results with report 23-003150/D003.R000.

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

Summary

Potency:

Analyte	Result (%)
HHC (9R-Hexahydrocannabinol)	55.1
HHC (9S-Hexahydrocannabinol)	31.5
Δ8-THC	2.26
CBN	0.271



CBD-Total	<LOQ
THC-Total	<LOQ

(Reported in percent of total sample)

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.

Columbia LABORATORIES
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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

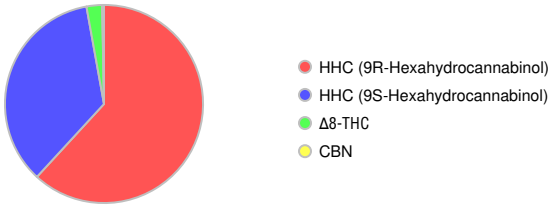
Customer: The Hemp Collect
825 NW 16th Ave
Portland Oregon 97209
United States of America (USA)

Product identity: 13DST225
Client/Metrc 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)[b] **Units** % **Batch:** 2306463 **Analyze:** 4/18/23 4:05:00 AM

Analyte	As Received	Dry weight	LOQ	Notes
CBD	< LOQ		0.0684	
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	
Total Cannabinoids	89.1			



Testing in accordance with: OAR 333-007-0430

Columbia LABORATORIES
A Tentamus Company

12423 NE Whitaker Way
Portland, OR 97230
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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/MSÞ **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)Þ **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.)Þ	pass	
Cadmium¥	< LOQ	0.200	mg/kg	0.0849	2305993	04/07/23	AOAC 2013.06 (mod.)Þ	pass	
Lead¥	< LOQ	0.500	mg/kg	0.0849	2305993	04/07/23	AOAC 2013.06 (mod.)Þ	pass	
Mercury¥	< LOQ	0.100	mg/kg	0.0425	2305993	04/07/23	AOAC 2013.06 (mod.)Þ	pass	

Columbia LABORATORIES
A Tentamus Company

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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.

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

Columbia LABORATORIES
A Tentamus Company

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)
Abamectin	0.100
Acephate	0.100
Acequinocyl	0.100
Acetamiprid	0.020
Acetochlor	0.100
Acrinathrin	0.100
Alachlor	0.100
Aldicarb	0.100
Aldicarb sulfoxide	0.100
Aldoxycarb (Aldicarb-sulfone)	0.100
Aldrin	0.100
Ametoctradin	0.020
Ametryn	0.500
Aspon	0.100
Asulam	0.100
Atrazine	0.100
Atrazine-desethyl	0.100
Azinphos-ethyl	0.020
Azinphos-methyl	0.020
Azoxystrobin	0.020
Benalaxyl	0.020
Bendiocarb	0.020
Benfluralin	0.100
Benoxacor	0.050
Bensulide	0.050
BHC alpha isomer	0.100
BHC beta isomer	0.100
BHC delta isomer	0.500
Bifenazate	0.020
Bifenthrin	0.020
Boscalid	0.020
Bromophos-ethyl	0.100
Bromophos-methyl	0.200
Bromopropylate	0.100
Bromuconazole	0.100
Bupirimate	0.020
Buprofezin	0.050
Butachlor	0.500
Butralin	0.200
Butylate	0.100
Cadusafos	0.020
Captan	1.000
Carbaryl	0.050
Carbendazim	0.100
Carbofuran	0.020
Carbophenothion	0.200
Carboxin	0.020
Carfentrazone-ethyl	0.100
Chlorantraniliprole	0.020
Chlordane, cis-	0.200
Chlordane, trans-	0.200
Chlorfenapyr	0.500
Chlorfenson	0.200
Chlorfenvinphos	0.050
Chlorobenzilate	0.100
Chloroneb	0.200
Chlorpyrifos	0.050
Chlorpyrifos-methyl	0.200
CIPC	1.000

Compound	LOQ(mg/kg)
Clethodim	0.050
Clethodim Sulfone	0.050
Clethodim Sulfoxide	0.050
Clofentezine	0.020
Clomazone	0.020
Clothianidin	0.200
Coumaphos	0.050
Crotoxyphos	0.020
Cyanazine	0.020
Cyanofenphos	0.020
Cyantraniliprole	0.050
Cyazofamid	0.020
Cycloate	0.100
Cyfluthrin	0.200
Cyhalothrin, lambda	0.200
Cymoxanil	0.050
Cypermethrin	0.200
Cyprodinil	0.100
Dacthal	0.100
Daminozide	0.100
DCPMU	0.050
DDD, o,p'-	0.100
DDD, p,p'-	0.100
DDE, o,p'-	0.100
DDE, p,p'-	0.100
DDT, o,p'-	0.100
DDT, p,p'-	0.100
DEF (Tribufos)	0.100
Deltamethrin	0.100
Desmedipham	0.100
Diallate	0.100
Diazinon	0.020
Diazoxon	0.100
Dichlobenil	0.100
Dichlofluanid	0.100
Dichlorvos	0.100
Diclobutrazol	0.050
Dicofol	0.100
Dicrotophos	0.050
Dieldrin	0.100
Diethofencarb	0.020
Diethyltoluamide (DEET)	0.050
Difenoconazole	0.100
Dimethenamid	0.050
Dimethoate	0.050
Dimethomorph	0.050
Diniconazole	0.200
Dinotefuran	0.200
Dioxathion	0.100
Diphenamid	0.020
Diphenylamine	0.100
Disulfoton	0.100
Disulfoton sulfone	0.100
Disulfoton sulfoxide	0.100
Diuron	0.050
Edifenphos	0.050
Endosulfan alpha	0.200
Endosulfan beta	0.200
Endosulfan sulfate	0.100

Compound	LOQ(mg/kg)
Endrin	0.100
EPN	0.050
EPTC	0.100
Esfenvalerate/Fenvalerate	0.200
Etaconazole	0.100
Ethalfluralin	0.100
Ethiofencarb	0.050
Ethion	0.200
Ethirimol	0.100
Ethofumesate	0.050
Ethoprophos	0.020
Etofenprox	0.020
Etoxazole	0.020
Etridiazole	0.100
Etrimfos	0.020
Famoxadone	0.200
Famphur	0.100
Fenamidone	0.020
Fenamiphos	0.020
Fenamiphos sulfone	0.020
Fenamiphos sulfoxide	0.020
Fenazaquin	0.100
Fenbuconazole	0.100
Fenchlorphos	0.100
Fenchlorphos-oxon	0.100
Fenhexamid	0.100
Fenitrothion	0.100
Fenobucarb	0.050
Fenoxycarb	0.020
Fenpropathrin	0.050
Fenpyroximate	0.020
Fenson	0.100
Fensulfothion	0.020
Fensulfothion oxon	0.020
Fensulfothion sulfone	0.100
Fensulfothion-oxon-sulfone	0.020
Fenthion	0.050
Fenthion oxon	0.020
Fenthion oxon sulfone	0.100
Fenthion sulfone	0.050
Fenuron	0.020
Fipronil	0.100
Flonicamid	0.100
Fluchloralin	0.100
Flucythrinate	0.100
Fludioxonil	0.200
Flufenacet	0.020
Flumioxazin	0.100
Fluometuron	0.020
Fluopicolide	0.050
Fluopyram	0.020
Fluoxastrobin	0.050
Flupyradifurone	0.020
Fluridone	0.100
Flusilazole	0.020
Flutolanil	0.020
Flutriafol	0.020
Fluvalinate, tau-	0.100
Fluxapyroxad	0.020

Columbia LABORATORIES
A Tentamus Company

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)
Fomesafen	0.100
Fonofos	0.100
Forchlorfenuron	0.050
Formetanate	0.050
Furathiocarb	0.020
Heptachlor	0.100
Heptachlor epoxide	0.100
Heptenophos	0.100
Hexachlorobenzene	0.100
Hexaconazole	0.100
Hexazinone	0.100
Hexythiazox	0.020
Imazalil	0.100
Imidadoprid	0.100
Indaziflam	0.020
Indoxacarb	0.020
Iprobenfos	0.100
Iprodione	0.100
Isobenzan	0.100
Isocarbophos	0.500
Isodrin	0.100
Isofenphos	0.050
Isofenphos-methyl	0.020
Isofenphos oxon	0.050
Isoprocarb	0.020
Isopropalin	0.200
Isoprothiolane	0.050
Isoproturon	0.050
Isoxaben	0.050
Isoxaflutole	0.050
Kresoxim-methyl	0.050
Lactofen	0.500
Lenacil	0.100
Lindane (gamma-BHC)	0.100
Linuron	0.020
Malaoxon	0.050
Malathion	0.050
Mandipropamid	0.020
Mecarbam	0.020
Mepanipyrim	0.050
Merphos	0.500
Metalaxyl	0.050
Metaldehyde	0.050
Metconazole	0.100
Methacrifos	0.100
Methamidophos	0.050
Methidathion	0.050
Methiocarb	0.050
Methiocarb sulfone	0.100
Methiocarb sulfoxide	0.100
Methomyl	0.100
Methoxychlor	0.100
Methoxyfenozide	0.020
Metobromuron	0.050
Metolachlor	0.100
Metolcarb	0.050
Metrafenone	0.050
Metribuzin	0.100
Mevinphos	0.100
Mexacarbate	0.020
MGK 264	0.020
Mirex	0.100
Molinate	0.050
Monocrotophos	0.100
Monolinuron	0.020
Myclobutanil	0.050
Naled	0.100
Napropamide	0.050
Neburon	0.020
Nitrapyrin	0.100
Norflurazon	0.050
Omethoate	0.100
O-Phenylphenol	0.100
Oxadixyl	0.100
Oxamyl	0.100
Oxamyl-oxime	0.100
Oxychlordane	0.100
Oxydemeton-Methyl	0.100
Oxythioquinox	0.200
Paclobutrazol	0.050
Paraoxon-ethyl	0.020
Paraoxon methyl	0.100
Parathion ethyl	0.100
Parathion methyl	0.200
Penconazole	0.050
Pendimethalin	0.050
Perflufen	0.020
Pertachloroaniline	0.100
Pertachloroanisole	0.100
Pentachlorobenzene (PCB)	0.100
Pentachlorothioanisole (PCTA)	0.100
Perthiopyrad	0.020
Permethrin	0.050
Petthane	0.100
Phenmedipham	0.050
Phenthoate	0.050
Phorate	0.050
Phorate Sulfone	0.050
Phorate Sulfoxide	0.050
Phosalone	0.050
Phosmet	0.100
Phosphamidon	0.050
Phoxim	0.050
Piroxaden	0.020
Piperonyl butoxide	0.050
Pirimicarb	0.020
Pirimiphos-methyl	0.050
Pirimiphos-ethyl	0.020
Prallethrin	0.100
Prochloraz	0.020
Procymidone	0.100
Profenofos	0.100
Profluralin	0.100
Promecarb	0.050
Prometon	0.100
Prometryn	0.020
Propachlor	0.020
Propamocarb	0.050
Propanil	0.050
Propargite	0.050
Propazine	0.020
Propetamphos	0.050
Propham	0.050
Propiconazole	0.050
Propoxur	0.050
Propoxycarbazone Na	0.050
Propyzamide	0.050
Prothiofos	0.100
Pyraclostrobin	0.020
Pyrazophos	0.050
Pyrethrins	0.050
Pyridaben	0.020
Pyridafol	0.100
Pyridate	0.020
Pyrimethanil	0.050
Pyriproxifen	0.020
Pyroxasulfone	0.020
Pyroxsulam	0.020
Quinalphos	0.050
Quinoxyfen	0.050
Quintozene (PCNB)	0.200
Resmethrin	0.050
Rotenone	0.050
S421	0.100
Simazine	0.100
Simetryn	0.200
Spinetoram	0.020
Spinosad	0.050
Spirodiclofen	0.100
Spiromesifen	0.050
Spirotetramat	0.050
Spiroxamine	0.020
Sulfotep	0.050
Sulfoxaflor	0.050
Sulprofos	0.020
Tebuconazole	0.100
Tebufenozide	0.020
Tebuthiuron	0.020
Tecnazene	0.100
Tefluthrin	0.100
Terbufos	0.020
Terbufos sulfone	0.050
Terbufos sulfoxide	0.050
Terbuthylazine	0.020
Terbutryn	0.020
Tetrachlorvinphos	0.050
Tetraconazole	0.050
Tetradifon	0.200
Tetramethrin	0.050
Tetrasul	0.100
Thiabendazole	0.100
Thiabendazole, 5-hydroxy	0.100
Thiadoprid	0.050
Thiamethoxam	0.100
Thiobencarb	0.050
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	Tolylfluanid	0.050	Triticonazole	0.050
Tralkoxydim	0.100	Tridiphane	0.500	Vinclozolin	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.

Columbia LABORATORIES
A Tentamus Company

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

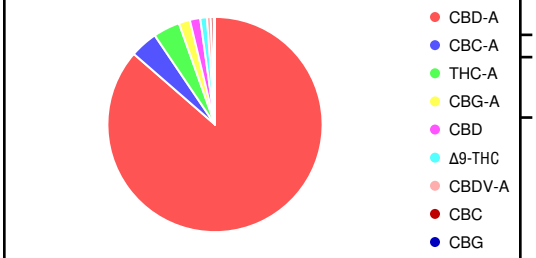
Report Number: 23-000691/D006.R000
Report Date: 01/24/2023
ORELAP#: OR100028
Purchase Order:
Received: 01/17/23 14:16

Customer: IHC LLC
Product identity: 01LIR209_Llama
Client/Metrc ID: .
Laboratory ID: 23-000691-0009

Summary

Potency:

Analyte	Result (%)
CBD-A	68.0
CBC-A	3.27
THC-A	3.16
CBG-A	1.32
CBD	1.23
Δ9-THC	0.785
CBDV-A	0.452
CBC	0.334
CBG	0.163



CBD-Total	60.9%
THC-Total	3.56%

(Reported in percent of total sample)

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.

Microbiology:

Less than LOQ for all analytes.

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 23-000691/D006.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_Llama
Client/Metrc ID: .
Sample Date:
Laboratory ID: 23-000691-0009
Evidence of Cooling: No
Temp: 20 °C
Relinquished by: ramos

THE HEMP COLLECT

Sample Results

Potency **Method:** J AOAC 2015 V98-6 (mod)[b] **Units** % **Batch:** 2300680 **Analyze:** 1/21/23 5:15:00 AM

Analyte	As Received	Dry weight	LOQ	Notes
CBC	0.334		0.0668	
CBC-A	3.27		0.0668	
CBC-Total	3.20		0.125	
CBD	1.23		0.0668	
CBD-A	68.0		0.668	
CBD-Total	60.9		0.653	
CBDV	< LOQ		0.0668	
CBDV-A	0.452		0.0668	
CBDV-Total	0.392		0.125	
CBE	< LOQ		0.0668	
CBG	0.163		0.0668	
CBG-A	1.32		0.0668	
CBG-Total	1.32		0.125	
CBL	< LOQ		0.0668	
CBL-A	< LOQ		0.0668	
CBL-Total	< LOQ		0.125	
CBN	< LOQ		0.0668	
CBT	< LOQ		0.0668	
Δ10-THC-9R	< LOQ		0.0668	
Δ8-THC	< LOQ		0.0668	
Δ8-THCV	< LOQ		0.0668	
Δ9-THC	0.785		0.0668	
exo-THC	< LOQ		0.0668	
THC-A	3.16		0.0668	
THC-Total	3.56		0.125	
THCV	< LOQ		0.0668	
THCV-A	< LOQ		0.0668	
THCV-Total	< LOQ		0.125	
Total Cannabinoids	78.7			

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Report Date: 01/24/2023
ORELAP#: OR100028
Purchase Order:
Received: 01/17/23 14:16

Microbiology

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

Solvents

Method: Residual Solvents by GC/MSþ **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)	< 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)þ **Units** mg/kg **Batch** 2300713 **Analyze** 01/24/23 10:07 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	0.0844	2300594	01/18/23	AOAC 2013.06 (mod.)þ	pass	
Cadmium	< LOQ	0.200	mg/kg	0.0844	2300594	01/18/23	AOAC 2013.06 (mod.)þ	pass	
Lead	< LOQ	0.500	mg/kg	0.0844	2300594	01/18/23	AOAC 2013.06 (mod.)þ	pass	
Mercury	< LOQ	0.100	mg/kg	0.0422	2300594	01/18/23	AOAC 2013.06 (mod.)þ	pass	

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 23-000691/D006.R000
Report Date: 01/24/2023
ORELAP#: OR100028
Purchase Order:
Received: 01/17/23 14:16

Mycotoxins

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

Columbia LABORATORIES
A Tentamus Company

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

Report Number:	23-000691/D006.R000
Report Date:	01/24/2023
ORELAP#:	OR100028
Purchase Order:	
Received:	01/17/23 14:16

Abbreviations

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

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

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

Units of Measure

cfu/g = Colony forming units per gram
µg/g = Microgram per gram
µg/kg = Micrograms per kilogram = parts per billion (ppb)
mg/kg = Milligram per kilogram = parts per million (ppm)
% = Percentage of sample
% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner
General Manager

Columbia LABORATORIES
A Tentamus Company

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

Report Number:	23-000691/D006.R000
Report Date:	01/24/2023
ORELAP#:	OR100028
Purchase Order:	
Received:	01/17/23 14:16

Columbia LABORATORIES
A Tentamus Company

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

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

Company: The Hemp Collect
Contact: kyle@thehempcollect.com
Street: 431 NW Flanders st.
City: Portland State: OR Zip: 97209
Email Results: dropbox (IHC)
Ph: (61) 6UD1b4 Fx Results: ( )
Billing (if different): joel@thehempcollect.com

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

Lab ID	Client Sample Identification	Date	Time	Analysis Requested: Pesticides – GH 59 compounds	Pesticide Multi-Residue – 179 compounds	Potency	Residual Solvents	Moisture & Water Activity	Terpenes	Micro: Yeast and Mold	Micro: E.Coli and Total Coliform	Heavy Metals	Mycotoxins	Others	Sample Type *	Weight (Units)	Comments/Metrc ID
1	01LIRVAP200_SP					X									C		
2	01LIRVAP200_PB					X									C		
3	0107LIRVAP200_Llama					X									C		
4	0107LIRVAP200_OGK					X									C		
5	01020506LIRVAP200_	TG				X									C		
6	01020506LIRVAP200_	FV				X									C		
7	01LIR209_GJ				X	X	X			X		X	X		C		
8	01LIR209_SG				X	X	X			X		X	X		C		
9	01LIR209_Llama				X	X	X			X		X	X		C		
10	01LIR209_TG				X	X	X					X			C		

Relinquished By:	Date	Time	Received By:	Date	Time
Kyle Farook	1/17	11:00 A		1.17.23	11:10
	1.17	1338	RBS	01/17/23	1446

Lab Use Only:
☐ Shipped Via: _____ or ☐ Client drop
Evidence of cooling: ☐ Yes | ☐ No - Temp (°C): 20.0
Sample in good condition: ☐ Yes | ☐ No
☐ Cash | ☐ Check | ☐ CC | ☐ Net:
Prelog storage:

1 - Sample Type Codes: Vegetation (V) ; Isolates (S) ; 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 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
info@columbialaboratories.com
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Columbia LABORATORIES
A Tentamus Company

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

Report Number: 23-000691/D006.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: 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	
CBC	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	
CBCA	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	
CBC	<LOQ	0.0077	%	< 0.0077	Acceptable	
9R-HHC	<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	
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

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Laboratory Quality Control Results

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

Abbreviations

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

Units of Measure:

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Laboratory Quality Control Results

Residual Solvents **Batch ID:** 2300722

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

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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	
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.
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	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.