



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



Report Number: 22-001763/D003.R000
Report Date: 02/22/2022
ORELAP#: OR100028
Purchase Order:
Received: 02/15/22 15:12

Customer: Trojan Horse Cannabis
Product identity: 10:1 Tropical Punch Drink Mix
Client/Metric ID: .
Laboratory ID: 22-001763-0001

Summary

Potency:

Analyte per 10.35g	Result	Limits	Units	Status	
CBC per 10.35g [†]	3.71		mg/10.35g		CBD-Total per 10.35g 113 mg/10.35g
CBD per 10.35g	113		mg/10.35g		
CBDV per 10.35g [†]	1.56		mg/10.35g		THC-Total per 10.35g 10.8 mg/10.35g
CBE per 10.35g [†]	1.22		mg/10.35g		
CBG per 10.35g [†]	1.98		mg/10.35g		(Reported in milligrams per serving)
CBN per 10.35g	0.481		mg/10.35g		
CBT per 10.35g [†]	1.46		mg/10.35g		
Δ9-THC per 10.35g	10.8		mg/10.35g		

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

All analytes passing and less than LOQ.

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.



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



Report Number: 22-001763/D003.R000
Report Date: 02/22/2022
ORELAP#: OR100028
Purchase Order:
Received: 02/15/22 15:12

Customer: Trojan Horse Cannabis
United States of America (USA)
Product identity: 10:1 Tropical Punch Drink Mix
Client/Metric ID: .
Sample Date:
Laboratory ID: 22-001763-0001
Evidence of Cooling: No
Temp: 20.2 °C
Relinquished by: USPS
Serving Size #1: 10.35 g

Sample Results

Potency per 10.35g					
Method J AOAC 2015 V98-6 (mod)Units mg/se Batch: 2201415 Analyze: 2/17/22 3:17:00 PM					
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 10.35g [†]	3.71		mg/10.35g	0.335	
CBC-A per 10.35g [†]	< LOQ		mg/10.35g	0.335	
CBC-Total per 10.35g [†]	3.71		mg/10.35g	0.629	
CBD per 10.35g	113		mg/10.35g	3.35	
CBD-A per 10.35g	< LOQ		mg/10.35g	0.335	
CBD-Total per 10.35g	113		mg/10.35g	3.65	
CBDV per 10.35g [†]	1.56		mg/10.35g	0.335	
CBDV-A per 10.35g [†]	< LOQ		mg/10.35g	0.335	
CBDV-Total per 10.35g [†]	1.56		mg/10.35g	0.626	
CBE per 10.35g [†]	1.22		mg/10.35g	0.335	
CBG per 10.35g [†]	1.98		mg/10.35g	0.335	
CBG-A per 10.35g [†]	< LOQ		mg/10.35g	0.335	
CBG-Total per 10.35g [†]	1.98		mg/10.35g	0.626	
CBL per 10.35g [†]	< LOQ		mg/10.35g	0.335	
CBL-A per 10.35g [†]	< LOQ		mg/10.35g	0.335	
CBL-Total per 10.35g [†]	< LOQ		mg/10.35g	0.629	
CBN per 10.35g	0.481		mg/10.35g	0.335	
CBT per 10.35g [†]	1.46		mg/10.35g	0.335	
Δ8-THCV per 10.35g [†]	< LOQ		mg/10.35g	0.335	
Δ8-THC per 10.35g [†]	< LOQ		mg/10.35g	0.335	
Δ9-THC per 10.35g	10.8		mg/10.35g	0.335	
exo-THC per 10.35g [†]	< LOQ		mg/10.35g	0.335	
THC-A per 10.35g	< LOQ		mg/10.35g	0.335	
THC-Total per 10.35g	10.8		mg/10.35g	0.629	
THCV per 10.35g [†]	< LOQ		mg/10.35g	0.335	
THCV-A per 10.35g [†]	< LOQ		mg/10.35g	0.335	
THCV-Total per 10.35g [†]	< LOQ		mg/10.35g	0.630	
Total Cannabinoids per 10.35g	134		mg/10.35g		



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



Report Number: 22-001763/D002.R000
Report Date: 02/22/2022
Purchase Order:
Received: 02/15/22

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed	Method	Notes
Aerobic Plate Count	< LOQ	10,000	cfu/g	10	2201340	02/18/22	AOAC 990.12 (Petrifilm)	X
E.coli	< LOQ	100	cfu/g	10	2201338	02/18/22	AOAC 991.14 (Petrifilm)	X
Total Coliforms	< LOQ	100	cfu/g	10	2201338	02/18/22	AOAC 991.14 (Petrifilm)	X
Mold (RAPID Petrifilm)	< LOQ	1,000	cfu/g	10	2201339	02/19/22	AOAC 2014.05 (RAPID)	X
Yeast (RAPID Petrifilm)	< LOQ	1,000	cfu/g	10	2201339	02/19/22	AOAC 2014.05 (RAPID)	X
Salmonella spp. by PCR	Negative		/25g		2201344	02/17/22	AOAC 2020.02	X
EHEC including STEC	Negative		/25g		2201346	02/17/22	AOAC RI 121806	X

Solvents	Method	Residual Solvents by GC/MS				Units µg/g	Batch 2201443	Analyzed 02/18/22			
Analyte	Result	Limits	LOQ	LOD	Notes	Analyte	Result	Limits	LOQ	LOD	Notes
2-Methylbutane (Isopentane)	< LOD	1000	200	51.7		2-Methylpentane	< LOD	60.0	30.0	3.75	
2-Propanol (IPA)	< LOD	1000	200	39.3		2,2-Dimethylbutane	< LOD	60.0	30.0	4.01	
2,2-Dimethylpropane (neo-pentane)	< LOD	1000	200	50.0		2,3-Dimethylbutane	< LOD	60.0	30.0	6.09	
3-Methylpentane	< LOD	60.0	30.0	5.44		Acetone	< LOD	1000	200	16.6	
Benzene	< LOD	2.00	1.00	0.120		Butanes (sum)	< LOQ	1000	400		
Ethanol	< LOD	1000	200	32.8		Ethyl acetate	< LOD	1000	200	22.0	
Hexanes (sum)	< LOQ	60.0	150			m,p-Xylene	< LOD	430	200	35.5	
Methanol	< LOD	600	200	50.0		Methylpropane (Isobutane)	< LOD	1000	200	25.9	
n-Butane	< LOD	1000	200	32.2		n-Heptane	< LOD	1000	200	37.1	
n-Hexane	< LOD	60.0	30.0	3.14		n-Pentane	< LOD	1000	200	39.5	
o-Xylene	< LOD	430	200	47.1		Pentanes (sum)	< LOQ	1000	600		
Propane	< LOD	1000	200	26.0		Toluene	< LOD	180	100	21.4	
Total Xylenes	< LOQ	430	400								



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



Report Number: 22-001763/D002.R000
Report Date: 02/22/2022
Purchase Order:
Received: 02/15/22

Pesticides						Method AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 2201501 Analyzed 02/21/22					
Analyte	Result	Limits	LOQ	LOD	Notes	Analyte	Result	Limits	LOQ	LOD	Notes
Abamectin	< LOD		0.070	0.019		Acephate	< LOD		0.020	0.003	
Acequinocyl	< LOD		0.025	0.010		Acetamiprid	< LOD		0.050	0.005	
Aldicarb	< LOD		0.100	0.005		Bifenazate	< LOD		0.010	0.003	
Bifenthrin	< LOD		0.100	0.017		Boscalid	< LOD		0.010	0.003	
Carbaryl	< LOD		0.025	0.003		Carbofuran	< LOD		0.010	0.001	
Chlorantraniliprole	< LOD		0.010	0.002		Chlorfenapyr	< LOD		0.100	0.050	
Chlorpyrifos	< LOD		0.010	0.003		Clofentezine	< LOD		0.010	0.003	
Cyfluthrin	< LOD		0.200	0.20		Cypermethrin	< LOD		0.300	0.050	
Daminozide	< LOD		0.050	0.008		Diazinon	< LOD		0.010	0.001	
Dichlorvos	< LOD		0.050	0.006		Dimethoate	< LOD		0.010	0.003	
Ethoprophos	< LOD		0.010	0.002		Etofenprox	< LOD		0.010	0.002	
Etoxazole	< LOD		0.010	0.003		Fenoxycarb	< LOD		0.010	0.002	
Fenpyroximate	< LOD		0.020	0.002		Fipronil	< LOD		0.010	0.002	
Flonicamid	< LOD		0.025	0.004		Fludioxonil	< LOD		0.010	0.002	
Hexythiazox	< LOD		0.010	0.001		Imazalil	< LOD		0.010	0.002	
Imidacloprid	< LOD		0.010	0.004		Kresoxim-methyl	< LOD		0.010	0.004	
Malathion	< LOD		0.010	0.003		Metalaxyl	< LOD		0.010	0.001	
Methiocarb	< LOD		0.010	0.003		Methomyl	< LOD		0.025	0.004	
MGK-264	< LOD		0.050	0.008		Myclobutanil	< LOD		0.010	0.002	
Naled	< LOD		0.100	0.020		Oxamyl	< LOD		0.500	0.023	
Paclobutrazole	< LOD		0.010	0.002		Parathion-Methyl	< LOD		0.030	0.010	
Permethrin	< LOD		0.040	0.008		Phosmet	< LOD		0.010	0.003	
Piperonyl butoxide	< LOD		0.200	0.032		Prallethrin	< LOD		0.050	0.014	
Propiconazole	< LOD		0.010	0.003		Propoxur	< LOD		0.010	0.003	
Pyrethrins (total)	< LOD		0.025	0.004		Pyridaben	< LOD		0.020	0.004	
Spinosad	< LOD		0.010	0.003		Spiromesifen	< LOD		0.030	0.002	
Spirotetramat	< LOD		0.010	0.002		Spiroxamine	< LOD		0.010	0.001	
Tebuconazole	< LOD		0.010	0.003		Thiacloprid	< LOD		0.010	0.002	
Thiamethoxam	< LOD		0.010	0.003		Trifloxystrobin	< LOD		0.010	0.002	

Metals										
Analyte	Result	Limits	Units	LOQ	LOD	Batch	Analyzed	Method		Notes
Arsenic	< LOD	1.50	mg/kg	0.0967	0.0193	2201429	02/17/22	AOAC 2013.06 (mod.)		X
Cadmium	< LOD	0.500	mg/kg	0.0967	0.0146	2201429	02/17/22	AOAC 2013.06 (mod.)		X
Lead	< LOQ	0.500	mg/kg	0.0967	0.00934	2201429	02/17/22	AOAC 2013.06 (mod.)		X
Mercury	< LOD	1.50	mg/kg	0.0484	0.00623	2201429	02/17/22	AOAC 2013.06 (mod.)		X

Mycotoxins										
Analyte	Result	Limits	Units	LOQ	LOD	Batch	Analyzed	Method		Notes
Aflatoxin B2	< LOD	5.00	µg/kg	5.00	1.09	2201428	02/18/22	AOAC 2007.01 & EN 15662 (mod)		
Aflatoxin B1	< LOD	5.00	µg/kg	5.00	1.26	2201428	02/18/22	AOAC 2007.01 & EN 15662 (mod)		
Aflatoxin G1	< LOD	5.00	µg/kg	5.00	1.00	2201428	02/18/22	AOAC 2007.01 & EN 15662 (mod)		
Aflatoxin G2	< LOD	5.00	µg/kg	5.00	0.967	2201428	02/18/22	AOAC 2007.01 & EN 15662 (mod)		
Ochratoxin A	< LOD	5.00	µg/kg	5.00	1.54	2201428	02/18/22	AOAC 2007.01 & EN 15662 (mod)		
Ochratoxin B	< LOD	5.00	µg/kg	2.00	0.750	2201428	02/18/22	AOAC 2007.01 & EN 15662 (mod)		



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



Report Number: 22-001763/D002.R000
Report Date: 02/22/2022
Purchase Order:
Received: 02/15/22

Nutrition

Analyte	Result	Limits	Units	LOQ	LOD	Batch	Analyzed	Method	Notes
Moisture (Loss on Drying)	0.11		g/100g	0.10		2201474	02/17/22	AOAC 925.10 (mod.)	X



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



Report Number: 22-001763/D003.R000
Report Date: 02/22/2022
ORELAP#: OR100028
Purchase Order:
Received: 02/15/22 15:12

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.

Threshold Note: Action levels per 6 CCR 1010-21 CDPHE requirements

† = Analyte not NELAP accredited.

Units of Measure

/25g = Per 25g

cfu/g = Colony forming units per gram

g = Gram

g/100g = Grams per 100 Grams

µg/g = Microgram per gram

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

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

mg/10.35g = Milligram per 10.35g

% = Percentage of sample

% wt = µg/g divided by 10,000

Glossary of Qualifiers

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner
General Manager



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



Report Number: 22-001763/D003.R000
Report Date: 02/22/2022
ORELAP#: OR100028
Purchase Order:
Received: 02/15/22 15:12



CDPHE - Hemp Product Analysis
Chain of Custody
ORELAP ID: OR100028 | ISO 17025 (ANAB) ID: AT-1508

Document Control ID: 7067 Revision: 3

Company: Trojan Horse Cannabis				Analysis Requested							PO Number: _____			
Contact: Carly Jackson											Project Number: _____			
Street: 4545 E80th Ave #160											Project Name: _____			
City: Commerce City State: CO Zip: 8022											Sampled By: _____			
<input checked="" type="checkbox"/> Email Results: _____											License #: <input type="checkbox"/> USDA: _____ <input type="checkbox"/> Other: _____			
Ph: (435) 5534961 Fax: () _____											Reporting Requested: <input checked="" type="checkbox"/> Compliance (CDPHE) or <input type="checkbox"/> R&D testing			
Billing (if different): _____											Turnaround time (TAT) in Business Days (BD): <input checked="" type="checkbox"/> 5 BD <input type="checkbox"/> 3 BD* <input type="checkbox"/> 2 BD* <small>*Check for availability</small>			
Lab ID	Amount Received (g)	Client Sample Identification	Date Collected	Potency (H0010)	CDPHE Pesticides (P2150)	CDPHE Residual Solvents (H0023)	Heavy Metals (H0013)	Mycotoxins (H0042)	Moisture Final Products (N190)	CDPHE Micro Profile (M7000)	Sample Type f	Product Weight (Units)	Container Weight	Comments
		10:1 Tropical Punch Drink Mix	2/4/22	✓	✓	✓	✓	✓	✓	✓	Empty	82.8	84.55g	
Signature - Relinquished By: Carly Jackson				Signature - Received By: Jmv				Lab Use Only:						
Date: 2/4/22 Time: 12pm				Date: 2-15-22 Time: 15:12				<input checked="" type="checkbox"/> Shipped Via: <u>USPS</u> or <input type="checkbox"/> Client drop-off						
								Evidence of cooling: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No - Temp (°C): <u>20-2</u>						
								Sample in good condition: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
								<input type="checkbox"/> Cash <input type="checkbox"/> Check <input type="checkbox"/> CC <input type="checkbox"/> Net: _____						
								Prelog storage: _____						

* - Sample Type Codes: Industrial Hemp Plant Material (P); Industrial Hemp Concentrates (C); Topical Product (T); Beverage (B); Industrial Hemp Edible Product (E)

** CDPHE Microbial Panel includes: Salmonella, STEC, Aerobic Plate Count, E.coli & Coliforms, Yeast & Mold

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

Page _____ of _____
www.columbialaboratories.com



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



Report Number: 22-001763/D003.R000
Report Date: 02/22/2022
ORELAP#: OR100028
Purchase Order:
Received: 02/15/22 15:12



Document ID: 3177 Revision: 2
Effective: 06/25/2021
Page 1 of 1

Job Number: _____ Search Name: _____

Package/Cooler opened on (if different than received date/time) Date: 2-15-22 Time: 13:12

Received By (Initials): JU Logged in by (Initials): _____ Date: _____ Time: _____

1) Were custody seals on outside of the package/cooler? YES NO NA
If YES, how many and where? _____

Does date match collection date on COC? _____ YES NO NA

2) Was Chain of Custody (COC) included in the package/cooler? YES NO NA

3) Was COC signed when relinquished and received? (time, date)? YES NO NA

4) How was the package/cooler delivered?

UPS FEDEX USPS CLIENT COURIER OTHER: _____

Tracking Number (written in or copy of shipping label): 9460 1362 0530 9936 7778

5) Was packing material used? YES NO NA 25

Peanuts Bubble Wrap Foam Paper Other:

6) Was temperature upon receipt 4°C+- 2°C (if appropriate)? YES NO NA

If not, client contacted: _____
Proceed? YES NO

7) Was there evidence of cooling? YES NO NA

What kind? Blue Ice Ice Cooler Packs Dry Ice

8) Were all sample containers sealed in separate plastic bags? YES NO NA

9) Did all sample containers arrive in good condition? YES NO NA

10) Were all sample container labels complete? YES NO NA

11) Did all sample container labels and tags agree with the COC? YES NO NA

12) Were correct sample containers used for the tests indicated? YES NO NA

13) Were VOA vials checked for absence of air bubbles (note if found)? YES NO NA

14) Was a sufficient amount of sample sent in each sample container? YES NO NA

16) Sample location prior to login: R99 R39 R44 F44 Ambient Shelf Cannabis Table Other: _____

Explain any discrepancies: JU 2-15-22



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



Report Number: 22-001763/D003.R000
Report Date: 02/22/2022
ORELAP#: OR100028
Purchase Order:
Received: 02/15/22 15:12

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

Laboratory Quality Control Results

JAOAC2015 V986

Batch ID: 2201415

Laboratory Control Sample

Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDA	0.00989	0.0100	%	98.9	85.0 - 115	Acceptable	
CBV	0.00975	0.0100	%	97.5	85.0 - 115	Acceptable	
CBE	0.00982	0.0100	%	98.1	85.0 - 115	Acceptable	
CBDA	0.0105	0.0100	%	105	85.0 - 115	Acceptable	
CBGA	0.00976	0.0100	%	97.6	85.0 - 115	Acceptable	
CBG	0.00974	0.0100	%	97.4	85.0 - 115	Acceptable	
CB	0.0105	0.0100	%	105	85.0 - 115	Acceptable	
THCV	0.00967	0.0100	%	96.7	85.0 - 115	Acceptable	
dBTHCV	0.00998	0.00983	%	102	85.0 - 115	Acceptable	
THCVA	0.00932	0.0100	%	93.2	85.0 - 115	Acceptable	
CBN	0.0107	0.0100	%	107	85.0 - 115	Acceptable	
exo-THC	0.00915	0.00929	%	98.5	85.0 - 115	Acceptable	
dBTHC	0.0103	0.0100	%	103	85.0 - 115	Acceptable	
dBTHC	0.00964	0.0100	%	96.4	85.0 - 115	Acceptable	
CBL	0.00911	0.0100	%	91.1	85.0 - 115	Acceptable	
CEC	0.00982	0.0100	%	98.2	85.0 - 115	Acceptable	
THCA	0.0106	0.0100	%	106	85.0 - 115	Acceptable	
CBGA	0.00989	0.0100	%	98.9	85.0 - 115	Acceptable	
CBLA	0.0101	0.0100	%	101	85.0 - 115	Acceptable	
CBF	0.00845	0.00975	%	86.7	85.0 - 115	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDA	< LOQ	0.003	%	< 0.003	Acceptable	
CBV	< LOQ	0.003	%	< 0.003	Acceptable	
CBE	< LOQ	0.003	%	< 0.003	Acceptable	
CBDA	< LOQ	0.003	%	< 0.003	Acceptable	
CBGA	< LOQ	0.003	%	< 0.003	Acceptable	
CBG	< LOQ	0.003	%	< 0.003	Acceptable	
CB	< LOQ	0.003	%	< 0.003	Acceptable	
THCV	< LOQ	0.003	%	< 0.003	Acceptable	
dBTHCV	< LOQ	0.003	%	< 0.003	Acceptable	
THCVA	< LOQ	0.003	%	< 0.003	Acceptable	
CBN	< LOQ	0.003	%	< 0.003	Acceptable	
exo-THC	< LOQ	0.003	%	< 0.003	Acceptable	
dBTHC	< LOQ	0.003	%	< 0.003	Acceptable	
CBL	< LOQ	0.003	%	< 0.003	Acceptable	
CEC	< LOQ	0.003	%	< 0.003	Acceptable	
THCA	< LOQ	0.003	%	< 0.003	Acceptable	
CBGA	< LOQ	0.003	%	< 0.003	Acceptable	
CBLA	< LOQ	0.003	%	< 0.003	Acceptable	
CBF	< LOQ	0.003	%	< 0.003	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: 22-001763/D003.R000
Report Date: 02/22/2022
ORELAP#: OR100028
Purchase Order:
Received: 02/15/22 15:12

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

Laboratory Quality Control Results

JAOAC2015 V986			Batch ID: 2201415					
Sample Duplicate			Sample ID: 22-001722-0001					
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBE	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBD A	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBCA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBS	0.0895	0.0979	0.003	%	9.04	< 20	Acceptable	
CBD	0.353	0.398	0.003	%	12.0	< 20	Acceptable	
THCV	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
d8THCV	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
THCVA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBN	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
exo-THC	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
d8THC	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
d8THC	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBL	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBC	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
THCA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBCA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBLA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBF	< LOQ	< LOQ	0.003	%	NA	< 20	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: 22-001763/D003.R000
Report Date: 02/22/2022
ORELAP#: OR100028
Purchase Order:
Received: 02/15/22 15:12

Revision: Document ID:
Legacy ID: Effective:

Laboratory Quality Control Results									
Residual Solvents				Batch ID: 2201443					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		555	572	µg/g	97.0	70 - 130	
Isobutane	ND	< 200		657	731	µg/g	89.9	70 - 130	
Butane	ND	< 200		662	731	µg/g	90.6	70 - 130	
2,2-Dimethylpropane	ND	< 200		935	936	µg/g	99.9	70 - 130	
Methanol	ND	< 200		1290	1610	µg/g	80.1	70 - 130	
Ethylene Oxide	ND	< 30		52.4	56.2	µg/g	93.2	70 - 130	
2-Methylbutane	ND	< 200		1260	1630	µg/g	77.3	70 - 130	
Pentane	ND	< 200		1250	1610	µg/g	77.6	70 - 130	
Ethanol	ND	< 200		1230	1630	µg/g	75.5	70 - 130	
Ethyl Ether	ND	< 200		1230	1610	µg/g	76.4	70 - 130	
2,3-Dimethylbutane	ND	< 30		127	165	µg/g	77.0	70 - 130	
Acetone	ND	< 200		1400	1610	µg/g	87.0	70 - 130	
2-Propanol	ND	< 200		1290	1610	µg/g	80.1	70 - 130	
Acetonitrile	ND	< 100		378	498	µg/g	75.9	70 - 130	
2,3-Dimethylbutane	ND	< 30		133	162	µg/g	82.1	70 - 130	
Dichloromethane	ND	< 60		376	498	µg/g	75.5	70 - 130	
2-Methylpentane	ND	< 30		133	167	µg/g	79.6	70 - 130	
3-Methylpentane	ND	< 30		129	179	µg/g	72.1	70 - 130	
Hexane	ND	< 30		120	164	µg/g	73.2	70 - 130	
Ethyl acetate	ND	< 200		1340	1620	µg/g	82.7	70 - 130	
2-Butanol	ND	< 200		1250	1600	µg/g	78.1	70 - 130	
Tetrahydrofuran	ND	< 100		393	500	µg/g	78.6	70 - 130	
Cyclohexane	ND	< 200		1390	1610	µg/g	86.3	70 - 130	
Benzene	ND	< 1		7.52	5.62	µg/g	133.8	70 - 130	
Isopropyl Acetate	ND	< 200		1500	1610	µg/g	93.2	70 - 130	
Heptane	ND	< 200		1440	1610	µg/g	89.4	70 - 130	
1,4-Dioxane	ND	< 100		393	502	µg/g	77.9	70 - 130	
2-Ethoxyethanol	ND	< 30		133	164	µg/g	81.1	70 - 130	
Ethylene Glycol	ND	< 200		493	502	µg/g	98.2	70 - 130	
Toluene	ND	< 200		415	488	µg/g	85.0	70 - 130	
Ethylbenzene	ND	< 200		826	965	µg/g	85.6	70 - 130	
m,p-Xylene	ND	< 200		816	990	µg/g	82.4	70 - 130	
o-Xylene	ND	< 200		820	971	µg/g	84.4	70 - 130	
Cumene	ND	< 30		147	179	µg/g	82.1	70 - 130	
1,2-Dichloroethane	ND	< 1		1.09	1	µg/g	109.0	70 - 130	
Chloroform	ND	< 1		1.03	1	µg/g	103.0	70 - 130	
Trichloroethylene	ND	< 1		0.869	1	µg/g	86.9	70 - 130	



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



Report Number: 22-001763/D003.R000
Report Date: 02/22/2022
ORELAP#: OR100028
Purchase Order:
Received: 02/15/22 15:12

Revision: Document ID:
Legacy ID: Effective:

QC - Sample Duplicate

Sample ID: 22-001723-0001

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	228	231	200	µg/g	1.3	< 20	Acceptable	
Ethanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethyl Ether	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2,2-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Acetone	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Propanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Acetonitrile	ND	ND	100	µg/g	0.0	< 20	Acceptable	
2,3-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Dichloromethane	ND	ND	60	µg/g	0.0	< 20	Acceptable	
2-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
3-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Hexane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Ethyl acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Butanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Tetrahydrofuran	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Cyclohexane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Benzene	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Isopropyl Acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Heptane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
1,4-Dioxane	ND	ND	100	µg/g	0.0	< 20	Acceptable	
2-Ethoxyethanol	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Ethylene Glycol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Toluene	ND	ND	200	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	
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	

Abbreviations

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

Units of Measure:

µg/g - Microgram per gram or ppm



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



Report Number: 22-001763/D003.R000
Report Date: 02/22/2022
ORELAP#: OR100028
Purchase Order:
Received: 02/15/22 15:12

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.