



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

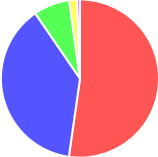


Report Number: 22-015363/D005.R000
Report Date: 12/20/2022
ORELAP#: OR100028
Purchase Order:
Received: 12/15/22 11:03

Customer: TribeTokes
Product identity: Mango HZ HHC
Project Number: HCD120622
Client/Metric ID: .
Laboratory ID: 22-015363-0001

Summary

Potency:

Analyte	Result (%)	 - HHC (9R-Hexahydrocannabinol) - HHC (9S-Hexahydrocannabinol) - CBD - CBG - CBN		
HHC (9R-Hexahydrocannabinol)	40.9		CBD-Total	5.78%
HHC (9S-Hexahydrocannabinol)	29.8			
CBD	5.78		THC-Total	<LOQ
CBG	1.24			
CBN	0.468		(Reported in percent of total sample)	

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

All analytes passing and less than LOQ.

Metals:

Less than LOQ for all analytes.



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Customer: TribeTokes
3505 Cadillac Ave Building E
Costa Mesa 92626
United States of America (USA)

Product identity: Mango HZ HHC

Project Number: HCD120622

Client/Metric ID: .

Sample Date:

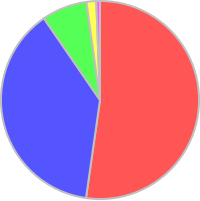
Laboratory ID: 22-015363-0001

Evidence of Cooling: No

Temp: 10.6

Relinquished by: ups

Sample Results

Potency	Method: J AOAC 2015 V98-6 (mod) ^b			Units %	Batch: 2210787	Analyze: 12/20/22 6:26:00 AM
Analyte	As Received	Dry weight	LOQ	Notes		
CBD	5.78		0.0724			
CBD-A	< LOQ		0.0724			
CBD-Total	5.78		0.136			
CBG	1.24		0.0724			
CBG-A	< LOQ		0.0724			
CBG-Total	1.24		0.135			
CBN	0.468		0.0724			
Δ10-THC	< LOQ		0.0724			
Δ8-THC	< LOQ		0.0724			
Δ9-THC	< LOQ		0.0724			
HHC (9R-Hexahydrocannabinol)	40.9		0.724			
HHC (9S-Hexahydrocannabinol)	29.8		0.724			
THC-A	< LOQ		0.0724			
THC-O-Acetate, delta-8	< LOQ		0.0724			
THC-O-Acetate, delta-9	< LOQ		0.0724			
THC-Total	< LOQ		0.136			
Total Cannabinoids	78.2					



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Solvents						Method: Residual Solvents by GC/MS ^b	Units µg/g	Batch 2210793	Analyze 12/20/22 01:41 PM				
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes		
1,2-Dichloroethane	< LOQ	1.00	1.00	pass		2-Propanol (IPA)	< LOQ	5000	200	pass			
Acetone	< LOQ	5000	200	pass		Acetonitrile	< LOQ	410	100	pass			
Benzene	< LOQ	1.00	1.00	pass		Chloroform	< LOQ	1.00	1.00	pass			
Ethyl acetate	< LOQ	5000	200	pass		Ethyl ether	< LOQ	5000	200	pass			
Ethylene oxide	< LOQ	1.00	1.00	pass		m,p-Xylene	< LOQ		200				
Methanol	< LOQ	3000	200	pass		Methylene chloride	< LOQ	1.00	1.00	pass			
n-Butane	< LOQ	5000	200	pass		n-Heptane	< LOQ	5000	200	pass			
n-Hexane	< LOQ	290	30.0	pass		n-Pentane	< LOQ	5000	200	pass			
o-Xylene	< LOQ		200			Propane	< LOQ	5000	200	pass			
Toluene	< LOQ	890	100	pass		Total Xylenes	< LOQ	2170	400	pass			
Trichloroethylene	< LOQ	1.00	1.00	pass									



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Pesticides										
Method: AOAC 2007.01 & EN 15662 (mod)						Units mg/kg		Batch 2210687		Analyze 12/16/22 02:15 PM
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status
Abamectin	< LOQ	0.100	0.100	pass		Acephate	< LOQ	0.100	0.100	pass
Acequinocyl	< LOQ	0.100	0.100	pass		Acetamiprid	< LOQ	0.100	0.100	pass
Aldicarb	< LOQ	0.100	0.100	pass		Azoxystrobin	< LOQ	0.100	0.100	pass
Bifenazate	< LOQ	0.100	0.100	pass		Bifenthrin	< LOQ	3.00	3.00	pass
Boscalid	< LOQ	0.100	0.100	pass		Captan	< LOQ	0.700	0.700	pass
Carbaryl	< LOQ	0.500	0.500	pass		Carbofuran	< LOQ	0.100	0.100	pass
Chlorantraniliprole	< LOQ	10.0	3.00	pass		Chlordane	< LOQ	0.1	0.100	pass
Chlorfenapyr	< LOQ	0.100	0.100	pass		Chlorpyrifos	< LOQ	0.100	0.100	pass
Clofentezine	< LOQ	0.100	0.100	pass		Coumaphos	< LOQ	0.100	0.100	pass
Cyfluthrin	< LOQ	2.00	2.00	pass		Cypermethrin	< LOQ	1.00	1.00	pass
Daminozide	< LOQ	0.100	0.100	pass		Diazinon	< LOQ	0.100	0.100	pass
Dichlorvos	< LOQ	0.100	0.100	pass		Dimethoate	< LOQ	0.100	0.100	pass
Dimethomorph	< LOQ	2.00	2.00	pass		Ethoprophos	< LOQ	0.100	0.100	pass
Etofenprox	< LOQ	0.100	0.100	pass		Etoxazole	< LOQ	0.100	0.100	pass
Fenhexamid	< LOQ	0.100	0.100	pass		Fenoxycarb	< LOQ	0.100	0.100	pass
Fenpyroximate	< LOQ	0.100	0.100	pass		Fipronil	< LOQ	0.100	0.100	pass
Flonicamid	< LOQ	0.100	0.100	pass		Fludioxonil	< LOQ	0.100	0.100	pass
Hexythiazox	< LOQ	0.100	0.100	pass		Imazalil	< LOQ	0.100	0.100	pass
Imidacloprid	< LOQ	5.00	3.00	pass		Kresoxim-methyl	< LOQ	0.100	0.100	pass
Malathion	< LOQ	0.500	0.500	pass		Metalaxyl	< LOQ	2.00	2.00	pass
Methiocarb	< LOQ	0.100	0.100	pass		Methomyl	< LOQ	1.00	1.00	pass
Mevinphos	< LOQ	0.100	0.100	pass		Myclobutanil	< LOQ	0.100	0.100	pass
Naled	< LOQ	0.100	0.100	pass		Oxamyl	< LOQ	0.500	0.500	pass
Paclobutrazole	< LOQ	0.100	0.100	pass		Parathion-Methyl	< LOQ	0.100	0.100	pass
Permethrin	< LOQ	0.500	0.500	pass		Phosmet	< LOQ	0.100	0.100	pass
Piperonyl butoxide	< LOQ	3.00	3.00	pass		Prallethrin	< LOQ	0.100	0.100	pass
Propiconazole	< LOQ	0.100	0.100	pass		Propoxur	< LOQ	0.100	0.100	pass
Pyrethrins (total)	< LOQ	0.500	0.500	pass		Pyridaben	< LOQ	0.100	0.100	pass
Quintozene	< LOQ	0.100	0.100	pass		Spinetoram	< LOQ	0.100	0.100	pass
Spinosad	< LOQ	0.100	0.100	pass		Spiromesifen	< LOQ	0.100	0.100	pass
Spirotetramat	< LOQ	0.100	0.100	pass		Spiroxamine	< LOQ	0.100	0.100	pass
Tebuconazole	< LOQ	0.100	0.100	pass		Thiacloprid	< LOQ	0.100	0.100	pass
Thiamethoxam	< LOQ	5.00	3.00	pass		Trifloxystrobin	< LOQ	0.100	0.100	pass

Metals										
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method		Status	Notes	
Arsenic	< LOQ	0.20	mg/kg	0.0926	2210759	12/19/22	AOAC 2013.06 (mod.) ^b	pass		
Cadmium	< LOQ	0.20	mg/kg	0.0926	2210759	12/19/22	AOAC 2013.06 (mod.) ^b	pass		
Lead	< LOQ	0.50	mg/kg	0.0926	2210759	12/19/22	AOAC 2013.06 (mod.) ^b	pass		
Mercury	< LOQ	0.10	mg/kg	0.0463	2210759	12/19/22	AOAC 2013.06 (mod.) ^b	pass		



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Mycotoxins

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Aflatoxin B2 [¥]	< LOQ		µg/kg	5.00	2210801	12/20/22 AOAC 2007.01 & EN 15662 (mod) ^p		
Aflatoxin B1 [¥]	< LOQ		µg/kg	5.00	2210801	12/20/22 AOAC 2007.01 & EN 15662 (mod) ^p		
Aflatoxin G1 [¥]	< LOQ		µg/kg	5.00	2210801	12/20/22 AOAC 2007.01 & EN 15662 (mod) ^p		
Aflatoxin G2 [¥]	< LOQ		µg/kg	5.00	2210801	12/20/22 AOAC 2007.01 & EN 15662 (mod) ^p		
Ochratoxin A [¥]	< LOQ		µg/kg	5.00	2210801	12/20/22 AOAC 2007.01 & EN 15662 (mod) ^p		
Total Aflatoxins [¥]	0.000		µg/kg	20.0		12/20/22 AOAC 2007.01 & EN 15662 (mod) ^p		



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Abbreviations

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

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

Ⓟ = ISO/IEC 17025:2017 accredited method.

¥ = TNI accredited analyte.

Units of Measure

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



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Hemp & Cannabis: Usable / Extract / Finished Product
Chain of Custody Rec
ORELAP ID: OR100028 ANAB ISO 17025 II

TRIBALTOKES 22-015363

Document Control ID: 2832 Revision: 5
Effective: 01/04/2022

Company: Tribal Tokes			Analysis Re					Number:		
Contact: Paisley Byrnes								Material ID: HHC/CBD/D8 Testing		
Address: 3505 Cadillac Ave Building E								Sample ID: HCD120622		
City: Costa Mesa State: CA Zip Code: 92626								Sampled by: Colin Byrnes-Smith		
☒ Email Results: team@purehawaiianheart.com								Custom Reporting:		
☐ Ph: (949) - 463-7643								Source Material: ☐ - Ind. Hemp product ☒ - Rec. Cannabis		
Billing Contact (if different)								Reporting Type: ☐ - Compliance ☒ - R&D		
Name: DNG LLC Email: team@purehawaiianheart.com								Report to: ☐ - METRC ☐ - ODA ☐ - USDA		
Address: 24040 Camino Del Avion #202								☐ - Other:		
City: Dana Point State: CA Zip: 92629								Turnaround time (TAT - Business Days):		
Ph: (949) - 463-7643								☒ - 5BD ☐ - 3BD* ☐ - 2BD* *Check for availability		
Lab ID	Client Sample Identification	Sample date	Pesticides	Mycotoxins	Metals	Potency	Residual Solvents	Material Type	Weight (Units)	Comments/Metrc ID
	Mango HZ HHC	12/01/22	✓	✓	✓	✓	✓	C	10g	
	Granddaddy Purp HHC	12/01/22	✓	✓	✓	✓	✓	C	10g	
	Gelato HHC	12/01/22	✓	✓	✓	✓	✓	C	10g	
	Granddaddy Purp D8	12/01/22	✓	✓	✓	✓	✓	C	10g	
	Pineapple D8	12/01/22	✓	✓	✓	✓	✓	C	10g	
	Green Crack D8	12/01/22	✓	✓	✓	✓	✓	C	10g	
	Juicy Fruit CBD	12/01/22	✓	✓	✓	✓	✓	C	10g	
	Hawaiian Dream CBD	12/01/22	✓	✓	✓	✓	✓	C	10g	
	Granddaddy Purp CBD	12/01/22	✓	✓	✓	✓	✓	C	10g	
Signature - Relinquished By:			Signature - Received By:			Lab Use Only:				
						Shipped Via: UPS or ☐ Client drop off				
Date: 12/1 Time: 8:48 AM			Date: 12/15 Time: 11:03			Evidence of cooling: ☐ Yes ☒ No - Temp (°C): 10.6				
						Sample in good condition: ☒ Yes ☐ No				
						Payment: ☐ Cash ☐ Check ☐ CC ☐ Net:				
						Prelog storage:				

* - Material Type Codes: Plant Material (P) ; Isolate (I) ; Concentrate/Extract (C) ; Tincture/Topical (T) ; Edible (E) ; Beverage (B) ; Vapor Product (V)

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

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Page 1 of 1
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Report Number: 22-015363/D005.R000
Report Date: 12/20/2022
ORELAP#: OR100028
Purchase Order:
Received: 12/15/22 11:03

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

Laboratory Quality Control Results

JAOAC2015 V986 Batch ID: 2210787

Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes	
CBDA	2	0.101	0.101	%	99.9	80.0 - 120	Acceptable		
CBV	2	0.111	0.110	%	101	80.0 - 120	Acceptable		
CBE	2	0.103	0.106	%	96.7	80.0 - 120	Acceptable		
CBDA	1	0.105	0.096	%	109	90.0 - 110	Acceptable		
CBGA	1	0.104	0.097	%	108	80.0 - 120	Acceptable		
CBG	1	0.104	0.095	%	110	80.0 - 120	Acceptable		
CB	1	0.101	0.096	%	106	90.0 - 110	Acceptable		
THCV	2	0.106	0.105	%	101	80.0 - 120	Acceptable		
deltaTHCV	2	0.107	0.107	%	100	80.0 - 120	Acceptable		
THCVA	2	0.0994	0.099	%	101	80.0 - 120	Acceptable		
CBN	1	0.109	0.099	%	110	80.0 - 120	Acceptable		
exo-THC	2	0.102	0.103	%	99.7	80.0 - 120	Acceptable		
deltaTHC	1	0.108	0.102	%	106	90.0 - 110	Acceptable		
deltaTHC	1	0.101	0.100	%	101	90.0 - 110	Acceptable		
CB	2	0.106	0.100	%	106	80.0 - 120	Acceptable		
9SHTC	3	0.103	0.100	%	103	80.0 - 120	Acceptable		
d10THC	1	NA	0.092	%	NA	80.0 - 120	Acceptable	Q6	
CB	2	0.108	0.109	%	99.0	80.0 - 120	Acceptable		
9RHTC	3	0.0951	0.100	%	95.1	80.0 - 120	Acceptable		
THCA	1	0.104	0.096	%	108	90.0 - 110	Acceptable		
CBGA	2	0.0981	0.103	%	95.2	80.0 - 120	Acceptable		
CBGA	2	0.104	0.105	%	99.5	80.0 - 120	Acceptable		
deltaTHCO	3	0.106	0.100	%	106	80.0 - 120	Acceptable		
CB	2	0.1000	0.109	%	91.7	80.0 - 120	Acceptable		
deltaTHCO	3	0.107	0.100	%	107	80.0 - 120	Acceptable		

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDA	<LOQ	0.077	%	< 0.077	Acceptable	
CBV	<LOQ	0.077	%	< 0.077	Acceptable	
CBE	<LOQ	0.077	%	< 0.077	Acceptable	
CBDA	<LOQ	0.077	%	< 0.077	Acceptable	
CBGA	<LOQ	0.077	%	< 0.077	Acceptable	
CBG	<LOQ	0.077	%	< 0.077	Acceptable	
CB	<LOQ	0.077	%	< 0.077	Acceptable	
THCV	<LOQ	0.077	%	< 0.077	Acceptable	
deltaTHCV	<LOQ	0.077	%	< 0.077	Acceptable	
THCVA	<LOQ	0.077	%	< 0.077	Acceptable	
CBN	<LOQ	0.077	%	< 0.077	Acceptable	
exo-THC	<LOQ	0.077	%	< 0.077	Acceptable	
deltaTHC	<LOQ	0.077	%	< 0.077	Acceptable	
deltaTHC	<LOQ	0.077	%	< 0.077	Acceptable	
CB	<LOQ	0.077	%	< 0.077	Acceptable	
9SHTC	<LOQ	0.077	%	< 0.077	Acceptable	
d10THC	<LOQ	0.077	%	< 0.077	Acceptable	
CB	<LOQ	0.077	%	< 0.077	Acceptable	
9RHTC	<LOQ	0.077	%	< 0.077	Acceptable	
THCA	<LOQ	0.077	%	< 0.077	Acceptable	
CBGA	<LOQ	0.077	%	< 0.077	Acceptable	
CBGA	<LOQ	0.077	%	< 0.077	Acceptable	
deltaTHCO	<LOQ	0.077	%	< 0.077	Acceptable	
CB	<LOQ	0.077	%	< 0.077	Acceptable	
deltaTHCO	<LOQ	0.077	%	< 0.077	Acceptable	

Abbreviations

ND - None Detected at or above MRL

RPD - Relative Percent Difference

LOQ - Limit of Quantitation

Q6 - Quality control outside QC limits. Data acceptable based on remaining QC

Units of Measure:

% - Percent



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Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

JAOAC2015 V986								
Batch ID: 2210787								
Sample Duplicate								
Sample ID: 22-0153630001								
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBDV	0.268	0.275	0.077	%	2.68	< 20	Acceptable	
CBE	0.860	0.883	0.077	%	2.62	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBSA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBS	1.25	1.24	0.077	%	0.191	< 20	Acceptable	
CBD	5.70	5.78	0.077	%	1.29	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
dBTHCV	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBN	0.471	0.468	0.077	%	0.642	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
dBTHC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CB	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
9SHHC	29.0	25.3	0.077	%	13.8	< 20	Acceptable	
d10THC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CB	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
9RHHC	40.2	35.2	0.077	%	13.4	< 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	
dBTHCO	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CB	0.0819	<LOQ	0.077	%	NA	< 20	Acceptable	R2
dBTHCO	<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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Purchase Order:
Received: 12/15/22 11:03

Revision: 2 Document ID: 7087
Legacy ID: CFL-E33Effective:

Laboratory Quality Control Results

Residual Solvents				Batch ID: 2210793					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		381	572	µg/g	66.6	60 - 120	
Isobutane	ND	< 200		456	731	µg/g	62.4	60 - 120	
Butane	ND	< 200		475	731	µg/g	65.0	60 - 120	
2,2-Dimethylpropane	ND	< 200		683	938	µg/g	73.0	60 - 120	
Methanol	ND	< 200		1130	1620	µg/g	69.8	60 - 120	
Ethylene Oxide	ND	< 30		37.9	56.2	µg/g	67.4	60 - 120	
2-Methylbutane	ND	< 200		1130	1610	µg/g	70.2	60 - 120	
Pentane	ND	< 200		1120	1600	µg/g	70.0	60 - 120	
Ethanol	ND	< 200		1120	1610	µg/g	69.6	70 - 130	
Ethyl Ether	ND	< 200		1100	1630	µg/g	67.5	60 - 120	
2,2-Dimethylbutane	ND	< 30		121	171	µg/g	70.8	60 - 120	
Acetone	ND	< 200		1120	1630	µg/g	68.7	60 - 120	
2-Propanol	ND	< 200		1140	1620	µg/g	70.4	60 - 120	
Acetonitrile	ND	< 100		328	498	µg/g	65.9	60 - 120	
2,3-Dimethylbutane	ND	< 30		116	171	µg/g	67.8	60 - 120	
Dichloromethane	ND	< 60		349	483	µg/g	72.3	60 - 120	
2-Methylpentane	ND	< 30		117	168	µg/g	69.6	60 - 120	
3-Methylpentane	ND	< 30		104	167	µg/g	62.3	60 - 120	
Hexane	ND	< 30		146	182	µg/g	80.2	60 - 120	
Ethyl acetate	ND	< 200		1110	1610	µg/g	68.9	60 - 120	
2-Butanol	ND	< 200		1110	1600	µg/g	69.4	60 - 120	
Tetrahydrofuran	ND	< 100		310	483	µg/g	64.2	60 - 120	
Cyclohexane	ND	< 200		1130	1610	µg/g	70.2	60 - 120	
Benzene	ND	< 1		3.87	5.02	µg/g	77.1	60 - 120	
Isopropyl Acetate	ND	< 200		1140	1620	µg/g	70.4	60 - 120	
Heptane	ND	< 200		1110	1610	µg/g	68.9	60 - 120	
1,4-Dioxane	ND	< 100		304	491	µg/g	61.9	60 - 120	
2-Ethoxyethanol	ND	< 30		120	181	µg/g	66.3	60 - 120	
Ethylene Glycol	ND	< 200		218	484	µg/g	45.0	60 - 120	Q6
Toluene	ND	< 100		325	485	µg/g	67.0	60 - 120	
Ethylbenzene	ND	< 200		635	969	µg/g	65.5	60 - 120	
m,p-Xylene	ND	< 200		633	994	µg/g	63.7	60 - 120	
o-Xylene	ND	< 200		625	967	µg/g	64.6	60 - 120	
Cumene	ND	< 30		113	171	µg/g	66.1	60 - 120	
1,2-Dichloroethane	ND	< 1		0.964	1	µg/g	96.4	70 - 130	
Chloroform	ND	< 1		0.958	1	µg/g	95.8	70 - 130	
Trichloroethylene	ND	< 1		0.937	1	µg/g	93.7	70 - 130	
1,1-Dichloroethane	ND	< 1		0.971	1	µg/g	97.1	70 - 130	



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503-254-1794



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Received: 12/15/22 11:03

Revision: 2 Document ID: 7087
Legacy ID: CFL-E33Effective:

QC- Sample Duplicate

Sample ID: 22-015297-0003

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

Q6- Quality control outside QC limits. Data acceptable based on remaining QC.

Units of Measure:

µg/g- Microgram per gram or ppm



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Explanation of QC Flag Comments:

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