



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



**Report Number:** 23-007627/D002.R000  
**Report Date:** 07/05/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 06/27/23 13:40

**Customer:** The Hemp Collect  
**Product identity:** Live D9 Gummy - Huckleberry 20mg  
**Client/Metric ID:** 3009RC-061323  
**Laboratory ID:** 23-007627-0004

### Summary

**Potency:**

Analyte per 1g	Result	Limits	Units	Status	
CBD per 1g	0.867		mg/1g		THC-Total per Serving Size 2.27 mg/1g
CBD-A per 1g	0.106		mg/1g		
CBN per 1g	1.47		mg/1g		CBD-Total per Serving Size 0.960 mg/1g
Δ9-THC per 1g	2.27		mg/1g		(Reported in milligrams per serving)

**Pesticides:**

*All analytes passing and less than LOQ.*

**Microbiology:**

*Less than LOQ for all analytes.*



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



**Report Number:** 23-007627/D002.R000  
**Report Date:** 07/05/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 06/27/23 13:40

**Customer:** The Hemp Collect  
**Product identity:** Live D9 Gummy - Huckleberry 20mg  
**Client/Metric ID:** 3009RC-061323  
**Sample Date:**  
**Laboratory ID:** 23-007627-0004  
**Evidence of Cooling:** No  
**Temp:** 20.0  
**Relinquished by:** client  
**Serving Size #1:** 1 g



### Sample Results

Potency per 1g						Method: J AOAC 2015 V98-6 (mod) <sup>b</sup>	Units mg/se	Batch: 2308651	Analyze: 6/28/23 8:01:00 PM
Analyte	Result	Limits	Units	LOQ	Notes				
CBD per 1g	0.867		mg/1g	0.0329					
CBD-A per 1g	0.106		mg/1g	0.0329					
CBD-Total per 1g	0.960		mg/1g	0.0617					
CBG per 1g	< LOQ		mg/1g	0.0329					
CBG-A per 1g	< LOQ		mg/1g	0.0329					
CBG-Total per 1g	< LOQ		mg/1g	0.0614					
CBN per 1g	1.47		mg/1g	0.0329					
Δ10-THC-9R per 1g	< LOQ		mg/1g	0.0329					
Δ10-THC-9S per 1g	< LOQ		mg/1g	0.0329					
Δ10-THC-Total per 1g	< LOQ		mg/1g	0.0658					
Δ8-THC per 1g	< LOQ		mg/1g	0.0329					
Δ9-THC per 1g	2.27		mg/1g	0.0329					
THC-A per 1g	< LOQ		mg/1g	0.0329					
THC-Total per 1g	2.27		mg/1g	0.0617					

Microbiology								
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Aerobic Plate Count	< LOQ		cfu/g	10	2308615	06/30/23 AOAC 990.12 (Petrifilm) <sup>p</sup>		I
E.coli	< LOQ		cfu/g	10	2308613	06/30/23 AOAC 991.14 (Petrifilm) <sup>p</sup>		I
Total Coliforms	< LOQ		cfu/g	10	2308613	06/30/23 AOAC 991.14 (Petrifilm) <sup>p</sup>		I
Staphylococcus aureus	< LOQ		cfu/g	10	2308617	06/29/23 AOAC 2003.07		I
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2308614	06/30/23 AOAC 2014.05 (RAPID) <sup>p</sup>		I
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2308614	06/30/23 AOAC 2014.05 (RAPID) <sup>p</sup>		I
E. coli, O157:H7 (by PCR)	Negative		/g		2308619	06/29/23 AOAC 2019.03 <sup>b</sup>		I
Listeria spp.	Negative		/g		2308620	06/29/23 AOAC 2019.10		I
Salmonella spp. by PCR*	Negative		/g		2308618	06/29/23 AOAC 2020.02 <sup>b</sup>		I



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



**Report Number:** 23-007627/D002.R000  
**Report Date:** 07/05/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 06/27/23 13:40

Pesticides											
Method: AOAC 2007.01 & EN 15662 (mod)						Units mg/kg		Batch 2308735		Analyze 07/03/23 10:21 AM	
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin	< LOQ		0.070			Acephate	< LOQ		0.020		
Acequinocyl	< LOQ		0.025			Acetamiprid	< LOQ		0.050		
Aldicarb	< LOQ		0.100			Allethrin	< LOQ		0.100		
Atrazine	< LOQ		0.025			Azadirachtin	< LOQ		0.500		
Azoxystrobin	< LOQ		0.010			Benzovindiflupyr	< LOQ		0.010		
Bifenazate	< LOQ		0.010			Bifenthrin	< LOQ		0.100		
Boscalid	< LOQ		0.010			Buprofezin	< LOQ		0.010		
Captan	< LOQ		0.700			Carbaryl	< LOQ		0.025		
Carbofuran	< LOQ		0.010			Chlorantraniliprole	< LOQ		0.010		
Chlordane (cis+trans)	< LOQ		0.100			Chlorfenapyr	< LOQ		0.100		
Chlorpyrifos	< LOQ		0.010			Clofentezine	< LOQ		0.010		
Clothianidin	< LOQ		0.025			Coumaphos	< LOQ		0.010		
Cyantraniliprole	< LOQ		0.010			Cyfluthrin	< LOQ		0.400		
Cyhalothrin,lambda	< LOQ		0.250			Cypermethrin	< LOQ		0.300		
Cyprodinil	< LOQ		0.010			Daminozide	< LOQ		0.050		
Deltamethrin	< LOQ		0.500			Diazinon	< LOQ		0.010		
Dichlorvos	< LOQ		0.050			Dimethoate	< LOQ		0.010		
Dimethomorph	< LOQ		0.050			Dinotefuran	< LOQ		0.050		
Diuron	< LOQ		0.125			Dodemorph	< LOQ		0.050		
Endosulfan I (alpha)	< LOQ		0.050			Endosulfan II (beta)	< LOQ		0.050		
Endosulfan sulfate	< LOQ		0.050			Ethoprophos	< LOQ		0.010		
Etofenprox	< LOQ		0.010			Etoxazole	< LOQ		0.010		
Etridiazole	< LOQ		0.050			Fenhexamid	< LOQ		0.100		
Fenoxycarb	< LOQ		0.010			Fenpyroximate	< LOQ		0.020		
Fensulfothion	< LOQ		0.010			Fenthion	< LOQ		0.010		
Fenvalerate	< LOQ		0.200			Fipronil	< LOQ		0.010		
Flonicamid	< LOQ		0.025			Fludioxonil	< LOQ		0.010		
Fluopyram	< LOQ		0.010			Hexythiazox	< LOQ		0.010		
Imazalil	< LOQ		0.010			Imidacloprid	< LOQ		0.010		
Iprodione	< LOQ		0.500			Kinoprene	< LOQ		0.050		
Kresoxim-methyl	< LOQ		0.010			Malathion	< LOQ		0.010		
Metalaxyl	< LOQ		0.010			Methiocarb	< LOQ		0.010		
Methomyl	< LOQ		0.025			Methoprene	< LOQ		1.00		
Mevinphos	< LOQ		0.025			MGK-264	< LOQ		0.050		
Myclobutanil	< LOQ		0.010			Naled	< LOQ		0.100		
Novaluron	< LOQ		0.025			Oxamyl	< LOQ		0.500		
Paclbutrazole	< LOQ		0.010			Parathion-Methyl	< LOQ		0.030		
Permethrin	< LOQ		0.040			Phenothrin	< LOQ		0.025		
Phosmet	< LOQ		0.010			Piperonyl butoxide	< LOQ		0.200		
Pirimicarb	< LOQ		0.010			Prallethrin	< LOQ		0.050		
Propiconazole	< LOQ		0.010			Propoxur	< LOQ		0.010		
Pyraclostrobin	< LOQ		0.010			Pyrethrins (total)	< LOQ		0.025		
Pyridaben	< LOQ		0.020			Pyriproxyfen	< LOQ		0.010		
Quintozene	< LOQ		0.020			Resmethrin	< LOQ		0.020		
Spinetoram	< LOQ		0.010			Spinosad	< LOQ		0.010		
Spirodiclofen	< LOQ		0.250			Spiromesifen	< LOQ		0.030		



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



**Report Number:** 23-007627/D002.R000  
**Report Date:** 07/05/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 06/27/23 13:40

Pesticides											
Method: AOAC 2007.01 & EN 15662 (mod)						Units mg/kg		Batch 2308735		Analyze 07/03/23 10:21 AM	
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Spirotetramat	< LOQ		0.010			Spiroxamine	< LOQ		0.010		
Tebuconazole	< LOQ		0.010			Tebuconazole	< LOQ		0.010		
Teflubenzuron	< LOQ		0.025			Tetrachlorvinphos	< LOQ		0.010		
Tetramethrin	< LOQ		0.050			Thiabendazole	< LOQ		0.020		
Thiacloprid	< LOQ		0.010			Thiamethoxam	< LOQ		0.010		
Thiophanate-Methyl	< LOQ		0.030			Trifloxystrobin	< LOQ		0.010		

Mycotoxins										
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method		Status	Notes	
Aflatoxin B2*	< LOQ		µg/kg	5.00	2308715	06/30/23	AOAC 2007.01 & EN 15662 (mod) <sup>P</sup>			
Aflatoxin B1*	< LOQ		µg/kg	5.00	2308715	06/30/23	AOAC 2007.01 & EN 15662 (mod) <sup>P</sup>			
Aflatoxin G1*	< LOQ		µg/kg	5.00	2308715	06/30/23	AOAC 2007.01 & EN 15662 (mod) <sup>P</sup>			
Aflatoxin G2*	< LOQ		µg/kg	5.00	2308715	06/30/23	AOAC 2007.01 & EN 15662 (mod) <sup>P</sup>			
Ochratoxin A*	< LOQ		µg/kg	5.00	2308715	06/30/23	AOAC 2007.01 & EN 15662 (mod) <sup>P</sup>			
Total Aflatoxins*	0.000		µg/kg	20.0		07/05/23	AOAC 2007.01 & EN 15662 (mod) <sup>P</sup>			



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



**Report Number:** 23-007627/D002.R000  
**Report Date:** 07/05/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 06/27/23 13:40

### 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

cfu/g = Colony forming units per gram

g = g

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

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

mg/1g = Milligram per 1g

/g = Per gram

% = Percentage of sample

% wt = µg/g divided by 10,000

### Glossary of Qualifiers

I: Insufficient sample received to meet method requirements.

Approved Signatory

Derrick Tanner  
General Manager



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



**Report Number:** 23-007627/D002.R000  
**Report Date:** 07/05/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 06/27/23 13:40

Revision: 4 Document ID: 7148  
Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6 Batch ID: 2308651

Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes
CBDVA	2	0.0324	0.0316	%	102	80.0	- 120	Acceptable	
CBDV	2	0.0321	0.0315	%	102	80.0	- 120	Acceptable	
CBE	2	0.0351	0.0348	%	101	80.0	- 120	Acceptable	
CBDA	1	0.0336	0.0333	%	101	90.0	- 110	Acceptable	
CBGA	1	0.0322	0.0330	%	97.3	80.0	- 120	Acceptable	
CBG	1	0.0357	0.0380	%	94.1	80.0	- 120	Acceptable	
CBD	1	0.0373	0.0370	%	101	90.0	- 110	Acceptable	
THCV	2	0.0243	0.0236	%	103	80.0	- 120	Acceptable	
d8THCV	2	0.0282	0.0279	%	101	80.0	- 120	Acceptable	
THCVA	2	0.0315	0.0308	%	102	80.0	- 120	Acceptable	
CBN	1	0.0348	0.0350	%	99.3	80.0	- 120	Acceptable	
exo-THC	2	0.0285	0.0283	%	101	80.0	- 120	Acceptable	
d9THC	1	0.0361	0.0361	%	100.0	90.0	- 110	Acceptable	
d8THC	1	0.0454	0.0450	%	101	90.0	- 110	Acceptable	
9S-d10THC	1	0.0256	0.0255	%	100	80.0	- 120	Acceptable	
CBL	2	0.0315	0.0311	%	101	80.0	- 120	Acceptable	
9R-d10THC	1	0.0329	0.0329	%	99.9	80.0	- 120	Acceptable	
CBC	2	0.0298	0.0293	%	102	80.0	- 120	Acceptable	
THCA	1	0.0332	0.0331	%	101	90.0	- 110	Acceptable	
CBCA	2	0.0327	0.0320	%	102	80.0	- 120	Acceptable	
CBLA	2	0.0310	0.0302	%	102	80.0	- 120	Acceptable	
d9THCP	2	0.0326	0.0326	%	100.0	80.0	- 120	Acceptable	
CBT	2	0.0325	0.0326	%	99.5	80.0	- 120	Acceptable	

Method Blank						
Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.00324	%	< 0.00324	Acceptable	
CBDV	<LOQ	0.00324	%	< 0.00324	Acceptable	
CBE	<LOQ	0.00324	%	< 0.00324	Acceptable	
CBDA	<LOQ	0.00324	%	< 0.00324	Acceptable	
CBGA	<LOQ	0.00324	%	< 0.00324	Acceptable	
CBG	<LOQ	0.00324	%	< 0.00324	Acceptable	
CBD	<LOQ	0.00324	%	< 0.00324	Acceptable	
THCV	<LOQ	0.00324	%	< 0.00324	Acceptable	
d8THCV	<LOQ	0.00324	%	< 0.00324	Acceptable	
THCVA	<LOQ	0.00324	%	< 0.00324	Acceptable	
CBN	<LOQ	0.00324	%	< 0.00324	Acceptable	
exo-THC	<LOQ	0.00324	%	< 0.00324	Acceptable	
d9THC	<LOQ	0.00324	%	< 0.00324	Acceptable	
d8THC	<LOQ	0.00324	%	< 0.00324	Acceptable	
9S-d10THC	<LOQ	0.00324	%	< 0.00324	Acceptable	
CBL	<LOQ	0.00324	%	< 0.00324	Acceptable	
9R-d10THC	<LOQ	0.00324	%	< 0.00324	Acceptable	
CBC	<LOQ	0.00324	%	< 0.00324	Acceptable	
THCA	<LOQ	0.00324	%	< 0.00324	Acceptable	
CBCA	<LOQ	0.00324	%	< 0.00324	Acceptable	
CBLA	<LOQ	0.00324	%	< 0.00324	Acceptable	
d9THCP	<LOQ	0.00324	%	< 0.00324	Acceptable	
CBT	<LOQ	0.00324	%	< 0.00324	Acceptable	

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

**Units of Measure:**  
 % - Percent



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



**Report Number:** 23-007627/D002.R000  
**Report Date:** 07/05/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 06/27/23 13:40

Revision: 4 Document ID: 7148  
 Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6		Batch ID: 2308651						
Sample Duplicate		Sample ID: 23-007585-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
CBG	0.290	0.287	0.00324	%	1.07	< 20	Acceptable	
CBD	0.580	0.573	0.00324	%	1.10	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
d9THC	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
CBC	0.00487	0.00462	0.00324	%	5.37	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00324	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.00324	%	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:** 23-007627/D002.R000  
**Report Date:** 07/05/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 06/27/23 13:40







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



**Report Number:** 23-007627/D002.R000  
**Report Date:** 07/05/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 06/27/23 13:40

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.



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/Metric 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		
			<b>CBD-Total</b> 60.9% <hr/> <b>THC-Total</b> 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.



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/Metric ID:** .

**Sample Date:**

**Laboratory ID:** 23-000691-0009

**Evidence of Cooling:** No

**Temp:** 20 °C

**Relinquished by:** ramos



### Sample Results

Potency	Method: J AOAC 2015 V98-6 (mod) <sup>p</sup>			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			
<b>Total Cannabinoids</b>	<b>78.7</b>					



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

**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) <sup>®</sup>		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2300531	01/21/23 AOAC 2014.05 (RAPID) <sup>®</sup>		

**Solvents Method: Residual Solvents by GC/MS<sup>®</sup> 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)<sup>®</sup> 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.) <sup>®</sup>		pass
Cadmium	< LOQ	0.200	mg/kg	0.0844	2300594	01/18/23 AOAC 2013.06 (mod.) <sup>®</sup>		pass
Lead	< LOQ	0.500	mg/kg	0.0844	2300594	01/18/23 AOAC 2013.06 (mod.) <sup>®</sup>		pass
Mercury	< LOQ	0.100	mg/kg	0.0422	2300594	01/18/23 AOAC 2013.06 (mod.) <sup>®</sup>		pass



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 <sup>‡</sup>	< LOQ		µg/kg	5.00	2300576	01/19/23 AOAC 2007.01 & EN 15662 (mod) <sup>P</sup>		
Aflatoxin B1 <sup>‡</sup>	< LOQ		µg/kg	5.00	2300576	01/19/23 AOAC 2007.01 & EN 15662 (mod) <sup>P</sup>		
Aflatoxin G1 <sup>‡</sup>	< LOQ		µg/kg	5.00	2300576	01/19/23 AOAC 2007.01 & EN 15662 (mod) <sup>P</sup>		
Aflatoxin G2 <sup>‡</sup>	< LOQ		µg/kg	5.00	2300576	01/19/23 AOAC 2007.01 & EN 15662 (mod) <sup>P</sup>		
Ochratoxin A <sup>‡</sup>	< LOQ	20.0	µg/kg	5.00	2300576	01/19/23 AOAC 2007.01 & EN 15662 (mod) <sup>P</sup>	pass	
Total Aflatoxins <sup>‡</sup>	0.000	20.0	µg/kg	20.0		01/24/23 AOAC 2007.01 & EN 15662 (mod) <sup>P</sup>	pass	



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.

Ⓐ = 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



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



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

Revision: 4.00 Control #: CPO23 Rev 02/24/2021 Eff: 03/04/2021  
 ORELAP ID: OR100028

Company: <b>The Hemp Collect</b> Contact: <b>kyle@thehempcollect.com</b> Street: <b>431 NW Flinders St.</b> City: <b>Portland</b> State: <b>Or</b> Zip: <b>97209</b> Email Result to: <b>dropbox (IHU)</b> Ph: <input checked="" type="checkbox"/> (503) 658-1044 <input type="checkbox"/> Fax Results: <input type="checkbox"/> Billing (if different): <b>joe1@thehempcollect.com</b>				<b>Analysis Requested</b>										PO Number: _____ Project Number: _____ Project Name: _____ Custom Reporting: _____ Report to State - <input type="checkbox"/> METRIC or <input type="checkbox"/> Other: Turnaround time: <input checked="" type="checkbox"/> 5 Business Day Standard Turnaround <input type="checkbox"/> 3 Business Day Rush Turnaround* <input type="checkbox"/> 2 Business Day Rush Turnaround* <small>*Check for availability</small>			
Lab ID	Client Sample Identification	Date	Time	Pesticides - OR 19 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	Other	Sample Type	Weight (Units)	Comments/Notes
1	01LIRVAP200_SP					X									C		
2	01LIRVAP200_PB					X									C		
3	0107LIRVAP200_LJama					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	X			C		
8	01LIR209_SG			X	X	X			X	X	X	X			C		
9	01LIR209_LJama			X	X	X			X	X	X	X			C		
10	01LIR209_TG			X	X	X					X				C		
Relinquished By:		Date:	Time:	Relinquished By:		Date:	Time:	Lab Use Only:									
Kyle Farook		1/17	11:00 AM	<i>[Signature]</i>		1/17/23	11:10	<input type="checkbox"/> Shipped Via: _____ or <input type="checkbox"/> Client drop Evidence of cooling: <input type="checkbox"/> Yes   <input type="checkbox"/> No - Temp (°C): <u>20.0</u> Sample in good condition: <input type="checkbox"/> Yes   <input type="checkbox"/> No <input type="checkbox"/> Cash   <input type="checkbox"/> Check   <input type="checkbox"/> CC   <input type="checkbox"/> Net: _____ Freezing storage: _____									
<i>[Signature]</i>		1/17	1:33 PM	<i>[Signature]</i>		01/17/23	1:36										

\* - Sample Type Codes: Vegetation (V) ; Isolates (S) ; Extract/Concentrate (C) ; Texture/Typical (T) ; Gills (G) ; Beverage (B)  
 Samples submitted to Columbia Laboratories with testing requirements constitute an agreement for services to be performed with the current version 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) 254-2482 Page \_\_\_\_\_ of \_\_\_\_\_  
 www.columbialaboratories.com

Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.  
 Testing in accordance with: OAR 333-007-0390 OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430



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	
CBG	2	0.107	0.104	%	103	80.0	- 120	Acceptable	
9R-HHC	3	0.0889	0.100	%	88.9	80.0	- 120	Acceptable	
THCA	1	0.0964	0.095	%	101	90.0	- 110	Acceptable	
CBGA	2	0.106	0.103	%	103	80.0	- 120	Acceptable	
CBLA	2	0.108	0.105	%	104	80.0	- 120	Acceptable	
d8THCO	3	0.104	0.100	%	104	80.0	- 120	Acceptable	
CBT	2	0.109	0.105	%	104	80.0	- 120	Acceptable	
d9THCO	3	0.110	0.100	%	110	80.0	- 120	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBDV	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBE	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBDA	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBGA	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBG	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBD	<LOQ	0.0077	%	< 0.0077	Acceptable	
THCV	<LOQ	0.0077	%	< 0.0077	Acceptable	
d8THCV	<LOQ	0.0077	%	< 0.0077	Acceptable	
THCVA	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBN	<LOQ	0.0077	%	< 0.0077	Acceptable	
exo-THC	<LOQ	0.0077	%	< 0.0077	Acceptable	
d9THC	<LOQ	0.0077	%	< 0.0077	Acceptable	
d8THC	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBL	<LOQ	0.0077	%	< 0.0077	Acceptable	
9S-HHC	<LOQ	0.0077	%	< 0.0077	Acceptable	
d10THC	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBG	<LOQ	0.0077	%	< 0.0077	Acceptable	
9R-HHC	<LOQ	0.0077	%	< 0.0077	Acceptable	
THCA	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBGA	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBLA	<LOQ	0.0077	%	< 0.0077	Acceptable	
d8THCO	<LOQ	0.0077	%	< 0.0077	Acceptable	
CBT	<LOQ	0.0077	%	< 0.0077	Acceptable	
d9THCO	<LOQ	0.0077	%	< 0.0077	Acceptable	

Abbreviations

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

Units of Measure:

% - Percent





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



**Report Number:** 23-000691/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						
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	
CBD	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBN	0.0340	0.0342	0.077	%	0.526	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
d9THC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
d8THC	0.189	0.172	0.077	%	9.34	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
9S-HHC	39.6	38.5	0.077	%	2.70	< 20	Acceptable	
d10THC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
9R-HHC	36.9	35.2	0.077	%	4.96	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
d8THCO	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
d9THCO	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	

Abbreviations

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

Units of Measure:



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

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



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

Laboratory Quality Control Results

Residual Solvents				Batch ID: 2300722					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		480	572	µg/g	83.9	60 - 120	
Isobutane	ND	< 200		623	731	µg/g	85.2	60 - 120	
Butane	ND	< 200		592	731	µg/g	81.0	60 - 120	
2,2-Dimethylpropane	ND	< 200		812	936	µg/g	86.8	60 - 120	
Methanol	ND	< 200		1410	1620	µg/g	87.0	60 - 120	
Ethylene Oxide	ND	< 30		49	56.2	µg/g	87.2	60 - 120	
2-Methylbutane	ND	< 200		1330	1610	µg/g	82.6	60 - 120	
Pentane	ND	< 200		1330	1600	µg/g	83.1	60 - 120	
Ethanol	ND	< 200		1400	1610	µg/g	87.0	70 - 130	
Ethyl Ether	ND	< 200		1340	1630	µg/g	82.2	60 - 120	
2,2-Dimethylbutane	ND	< 30		138	171	µg/g	80.7	60 - 120	
Acetone	ND	< 200		1340	1630	µg/g	82.2	60 - 120	
2-Propanol	ND	< 200		1440	1620	µg/g	88.9	60 - 120	
Ethyl Formate	ND	< 500		1380	1670	µg/g	82.6	70 - 130	
Acetonitrile	ND	< 100		409	498	µg/g	82.1	60 - 120	
Methyl Acetate	ND	< 500		1460	1730	µg/g	84.4	70 - 130	
2,3-Dimethylbutane	ND	< 30		135	171	µg/g	78.9	60 - 120	
Dichloromethane	ND	< 60		406	483	µg/g	84.1	60 - 120	
2-Methylpentane	ND	< 30		146	168	µg/g	86.9	60 - 120	
MTBE	ND	< 500		1520	1650	µg/g	92.1	70 - 130	
3-Methylpentane	ND	< 30		125	167	µg/g	74.9	60 - 120	
Hexane	ND	< 30		178	182	µg/g	97.8	60 - 120	
1-Propanol	ND	< 500		1420	1620	µg/g	87.7	70 - 130	
Methylethylketone	ND	< 500		1330	1620	µg/g	82.1	70 - 130	
Ethyl acetate	ND	< 200		1360	1610	µg/g	84.5	60 - 120	
2-Butanol	ND	< 200		1430	1600	µg/g	89.4	60 - 120	
Tetrahydrofuran	ND	< 100		397	483	µg/g	82.2	60 - 120	
Cyclohexane	ND	< 200		1300	1610	µg/g	80.7	60 - 120	
2-methyl-1-propanol	ND	< 500		1360	1620	µg/g	84.0	70 - 130	
Benzene	ND	< 1		4.42	5.02	µg/g	88.0	60 - 120	
Isopropyl Acetate	ND	< 200		1450	1620	µg/g	89.5	60 - 120	
Heptane	ND	< 200		1280	1610	µg/g	79.5	60 - 120	
1-Butanol	ND	< 500		1450	1630	µg/g	89.0	70 - 130	
Propyl Acetate	ND	< 500		1310	1610	µg/g	81.4	70 - 130	
1,4-Dioxane	ND	< 100		390	491	µg/g	79.4	60 - 120	
2-Ethoxyethanol	ND	< 30		296	181	µg/g	163.5	60 - 120	Q1
Methylisobutylketone	ND	< 500		1260	1620	µg/g	77.8	70 - 130	
3-Methyl-1-butanol	ND	< 500		1380	1630	µg/g	84.7	70 - 130	
Ethylene Glycol	ND	< 200		652	484	µg/g	134.7	60 - 120	Q1
Toluene	ND	< 100		373	485	µg/g	76.9	60 - 120	
Isobutyl Acetate	ND	< 500		1320	1630	µg/g	81.0	70 - 130	
1-Pentanol	ND	< 500		1330	1620	µg/g	82.1	70 - 130	
Butyl Acetate	ND	< 500		1280	1620	µg/g	79.0	70 - 130	
Ethylbenzene	ND	< 200		712	969	µg/g	73.5	60 - 120	
m,p-Xylene	ND	< 200		720	994	µg/g	72.4	60 - 120	
o-Xylene	ND	< 200		694	967	µg/g	71.8	60 - 120	
Cumene	ND	< 30		126	171	µg/g	73.7	60 - 120	
Anisole	ND	< 500		1120	1630	µg/g	68.7	70 - 130	Q6
DMSO	ND	< 500		2220	1680	µg/g	132.1	70 - 130	Q1
1,2-dimethoxyethane	ND	< 50		147	169	µg/g	87.0	70 - 130	
Triethylamine	ND	< 500		1340	1630	µg/g	82.2	70 - 130	
N,N-dimethylformamide	ND	< 150		573	482	µg/g	118.9	70 - 130	
N,N-dimethylacetamide	ND	< 150		533	510	µg/g	104.5	70 - 130	
Pyridine	ND	< 50		194	203	µg/g	95.6	70 - 130	
Sulfolane	ND	< 50		198	172	µg/g	115.1	70 - 130	
1,2-Dichloroethane	ND	< 1		0.857	1	µg/g	85.7	70 - 130	
Chloroform	ND	< 1		0.892	1	µg/g	89.2	70 - 130	
Trichloroethylene	ND	< 1		0.93	1	µg/g	93.0	70 - 130	
1,1-Dichloroethane	ND	< 1		0.899	1	µg/g	89.9	70 - 130	



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

QC - Sample Duplicate		Sample ID: 23-000158-0002						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Accept/Fail	Notes
Propane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Isobutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Butane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2,2-Dimethylpropane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Methanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethylene Oxide	ND	ND	30	µg/g	0.0	< 20	Acceptable	
2-Methylbutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Pentane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethyl Ether	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2,2-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Acetone	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Propanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethyl Formate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Acetonitrile	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Methyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
2,3-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Dichloromethane	ND	ND	60	µg/g	0.0	< 20	Acceptable	
2-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
MTBE	ND	ND	500	µg/g	0.0	< 20	Acceptable	
3-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Hexane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
1-Propanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Methyl ethyl ketone	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Ethyl acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Butanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Tetrahydrofuran	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Cyclohexane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-methyl-1-propanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Benzene	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Isopropyl Acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Heptane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
1-Butanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Propyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
1,4-Dioxane	ND	ND	100	µg/g	0.0	< 20	Acceptable	
2-Ethoxyethanol	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Methylisobutylketone	ND	ND	500	µg/g	0.0	< 20	Acceptable	
3-Methyl-1-butanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Ethylene Glycol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Toluene	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Isobutyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
1-Pentanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Butyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Ethylbenzene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
m,p-Xylene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
o-Xylene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Cumene	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Anisole	ND	ND	500	µg/g	0.0	< 20	Acceptable	
DMSO	ND	ND	500	µg/g	0.0	< 20	Acceptable	
1,2-dimethoxyethane	ND	ND	50	µg/g	0.0	< 20	Acceptable	
Triethylamine	ND	ND	500	µg/g	0.0	< 20	Acceptable	
N,N-dimethylformamide	ND	ND	150	µg/g	0.0	< 20	Acceptable	
N,N-dimethylacetamide	ND	ND	150	µg/g	0.0	< 20	Acceptable	
Pyridine	ND	ND	50	µg/g	0.0	< 20	Acceptable	
Sulfolane	ND	ND	50	µg/g	0.0	< 20	Acceptable	
1,2-Dichloroethane	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Chloroform	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Trichloroethylene	ND	ND	1	µg/g	0.0	< 20	Acceptable	
1,1-Dichloroethane	ND	ND	1	µg/g	0.0	< 20	Acceptable	

**Abbreviations**

- ND - None Detected at or above MRL
- RPD - Relative Percent Difference
- LOQ - Limit of Quantitation
- Q1 - Quality control result biased high. Only non-detect samples reported.
- Q6 - Quality control outside QC limits. Data acceptable based on remaining QC.

**Units of Measure:**

µg/g- Microgram per gram or ppm



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





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.