



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



Report Number: 23-008138/D013.R000
Report Date: 07/25/2023
ORELAP#: OR100028
Purchase Order:
Received: 07/11/23 14:30

Customer: The Hemp Collect
Product identity: Live Resin Delta-9 THC Gummy - 5mg Daytrip- Tropical
Client/Metric ID: 3011TL-062723
Laboratory ID: 23-008138-0011

Summary

Potency:

Analyte	Result	Limits	Units	Status	
CBC	0.00716		%		THC-Total per Serving Size 5.85 mg/3.4g
CBD	0.119		%		
CBD-A	0.0107		%		CBD-Total per Serving Size 4.37 mg/3.4g
CBDV	0.0629		%		
CBDV-A	0.00554		%		(Reported in milligrams per serving)
CBG	0.00590		%		
CBN	0.00316		%		
Δ8-THCV	0.0234		%		
Δ8-THC	0.0637		%		
Δ9-THC	0.172		%		
THCV	0.00627		%		
Analyte per 3.4g	Result	Limits	Units	Status	
CBC per 3.4g	0.243		mg/3.4g		
CBD per 3.4g	4.05		mg/3.4g		
CBD-A per 3.4g	0.364		mg/3.4g		
CBDV per 3.4g	2.14		mg/3.4g		
CBDV-A per 3.4g	0.188		mg/3.4g		
CBG per 3.4g	0.201		mg/3.4g		
CBN per 3.4g	0.107		mg/3.4g		
Δ8-THCV per 3.4g	0.796		mg/3.4g		
Δ8-THC per 3.4g	2.17		mg/3.4g		
Δ9-THC per 3.4g	5.85		mg/3.4g		
THCV per 3.4g	0.213		mg/3.4g		

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.



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Received: 07/11/23 14:30

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

Product identity: Live Resin Delta-9 THC Gummy - 5mg Daytrip- Tropical
Client/Metric ID: 3011TL-062723
Sample Date:
Laboratory ID: 23-008138-0011
Evidence of Cooling: No
Temp: 22.6 °C
Relinquished by: Hinton
Serving Size #1: 3.4 g



Sample Results

Potency	Method: J AOAC 2015 V98-6 (mod) ^b	Units %	Batch: 2309053	Analyze: 7/14/23 12:42:00 AM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC	0.00716		%	0.00312	
CBC-A	< LOQ		%	0.00312	
CBC-Total	0.00716		%	0.00586	
CBD	0.119		%	0.00312	
CBD-A	0.0107		%	0.00312	
CBD-Total	0.128		%	0.00586	
CBDV	0.0629		%	0.00312	
CBDV-A	0.00554		%	0.00312	
CBDV-Total	0.0677		%	0.00583	
CBE	< LOQ		%	0.00312	
CBG	0.00590		%	0.00312	
CBG-A	< LOQ		%	0.00312	
CBG-Total	0.00590		%	0.00583	
CBL	< LOQ		%	0.00312	
CBL-A	< LOQ		%	0.00312	
CBL-Total	< LOQ		%	0.00586	
CBN	0.00316		%	0.00312	
CBT	< LOQ		%	0.00312	
Δ8-THCV	0.0234		%	0.00312	
Δ10-THC-9R	< LOQ		%	0.00312	
Δ10-THC-9S	< LOQ		%	0.00312	
Δ10-THC-Total	< LOQ		%	0.00625	
Δ8-THC	0.0637		%	0.00312	
Δ9-THC	0.172		%	0.00312	
delta-9-THCP	< LOQ		%	0.00312	
exo-THC	< LOQ		%	0.00312	
THC-A	< LOQ		%	0.00312	
THC-Total	0.172		%	0.00586	
THCV	0.00627		%	0.00312	
THCV-A	< LOQ		%	0.00312	



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Potency	Method: J AOAC 2015 V98-6 (mod) ^b	Units %	Batch: 2309053	Analyze: 7/14/23 12:42:00 AM	
Analyte	Result	Limits	Units	LOQ	Notes
THCV-Total	0.00627		%	0.00583	
Total Cannabinoids	0.480		%		

Potency per 3.4g	Method: J AOAC 2015 V98-6 (mod) ^b	Units mg/se	Batch: 2309053	Analyze: 7/14/23 12:42:00 AM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 3.4g	0.243		mg/3.4g	0.106	
CBC-A per 3.4g	< LOQ		mg/3.4g	0.0937	
CBC-Total per 3.4g	0.243		mg/3.4g	0.199	
CBD per 3.4g	4.05		mg/3.4g	0.106	
CBD-A per 3.4g	0.364		mg/3.4g	0.106	
CBD-Total per 3.4g	4.37		mg/3.4g	0.199	
CBDV per 3.4g	2.14		mg/3.4g	0.106	
CBDV-A per 3.4g	0.188		mg/3.4g	0.106	
CBDV-Total per 3.4g	2.30		mg/3.4g	0.198	
CBE per 3.4g	< LOQ		mg/3.4g	0.0937	
CBG per 3.4g	0.201		mg/3.4g	0.106	
CBG-A per 3.4g	< LOQ		mg/3.4g	0.0937	
CBG-Total per 3.4g	0.201		mg/3.4g	0.198	
CBL per 3.4g	< LOQ		mg/3.4g	0.0937	
CBL-A per 3.4g	< LOQ		mg/3.4g	0.0937	
CBL-Total per 3.4g	< LOQ		mg/3.4g	0.176	
CBN per 3.4g	0.107		mg/3.4g	0.106	
CBT per 3.4g	< LOQ		mg/3.4g	0.0937	
Δ8-THCV per 3.4g	0.796		mg/3.4g	0.106	
Δ10-THC-9R per 3.4g	< LOQ		mg/3.4g	0.0937	
Δ10-THC-9S per 3.4g	< LOQ		mg/3.4g	0.0937	
Δ10-THC-Total per 3.4g	< LOQ		mg/3.4g	0.187	
Δ8-THC per 3.4g	2.17		mg/3.4g	0.106	
Δ9-THC per 3.4g	5.85		mg/3.4g	0.106	
delta-9-THCP per 3.4g	< LOQ		mg/3.4g	0.0937	
exo-THC per 3.4g	< LOQ		mg/3.4g	0.0937	
THC-A per 3.4g	< LOQ		mg/3.4g	0.0937	
THC-Total per 3.4g	5.85		mg/3.4g	0.199	
THCV per 3.4g	0.213		mg/3.4g	0.106	
THCV-A per 3.4g	< LOQ		mg/3.4g	0.0937	
THCV-Total per 3.4g	0.213		mg/3.4g	0.199	
Total Cannabinoids per 3.4g	16.3		mg/3.4g		



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Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Aerobic Plate Count	< LOQ		cfu/g	10	2308972	07/14/23 AOAC 990.12 (Petrifilm) ^p		
E.coli	< LOQ		cfu/g	10	2308970	07/14/23 AOAC 991.14 (Petrifilm) ^p		
Total Coliforms	< LOQ		cfu/g	10	2308970	07/14/23 AOAC 991.14 (Petrifilm) ^p		
Staphylococcus aureus	< LOQ		cfu/g	10	2308974	07/13/23 AOAC 2003.07		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2308971	07/14/23 AOAC 2014.05 (RAPID) ^p		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2308971	07/14/23 AOAC 2014.05 (RAPID) ^p		
E. coli, O157:H7 (by PCR)	Negative		/g		2308976	07/13/23 AOAC 2019.03 ^b		I
Listeria spp.	Negative		/g		2308977	07/13/23 AOAC 2019.10		I
Salmonella spp. by PCR [‡]	Negative		/g		2308975	07/13/23 AOAC 2020.02 ^b		I

Metals

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Arsenic [‡]	< LOQ	0.200	mg/kg	0.0197	2309029	07/12/23 AOAC 2013.06 (mod.) ^p		pass
Cadmium [‡]	< LOQ	0.200	mg/kg	0.0197	2309029	07/12/23 AOAC 2013.06 (mod.) ^p		pass
Lead [‡]	< LOQ	0.500	mg/kg	0.0197	2309029	07/12/23 AOAC 2013.06 (mod.) ^p		pass
Mercury [‡]	< LOQ	0.100	mg/kg	0.00985	2309029	07/12/23 AOAC 2013.06 (mod.) ^p		pass

Mycotoxins

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Aflatoxin B2 [‡]	< LOQ		µg/kg	5.00	2309155	07/17/23 AOAC 2007.01 & EN 15662 (mod) ^p		
Aflatoxin B1 [‡]	< LOQ		µg/kg	5.00	2309155	07/17/23 AOAC 2007.01 & EN 15662 (mod) ^p		
Aflatoxin G1 [‡]	< LOQ		µg/kg	5.00	2309155	07/17/23 AOAC 2007.01 & EN 15662 (mod) ^p		
Aflatoxin G2 [‡]	< LOQ		µg/kg	5.00	2309155	07/17/23 AOAC 2007.01 & EN 15662 (mod) ^p		
Ochratoxin A [‡]	< LOQ	20.0	µg/kg	5.00	2309155	07/17/23 AOAC 2007.01 & EN 15662 (mod) ^p		pass
Total Aflatoxins [‡]	0.000	20.0	µg/kg	20.0		07/18/23 AOAC 2007.01 & EN 15662 (mod) ^p		pass



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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

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/3.4g = Milligram per 3.4g

/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



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

Laboratory Quality Control Results

JAOAC2015 V986 Batch ID: 2309053

Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDA	2	0.0324	0.0316	%	102	80.0 - 120	Acceptable	
CBV	2	0.0328	0.0315	%	104	80.0 - 120	Acceptable	
CEE	2	0.0358	0.0348	%	103	80.0 - 120	Acceptable	
CBDA	1	0.0321	0.0325	%	98.8	90.0 - 110	Acceptable	
CBGA	1	0.0323	0.0326	%	99.1	80.0 - 120	Acceptable	
CBG	1	0.0332	0.0332	%	99.9	80.0 - 120	Acceptable	
CB	1	0.0344	0.0337	%	102	90.0 - 110	Acceptable	
THCV	2	0.0246	0.0236	%	104	80.0 - 120	Acceptable	
δ8THCV	2	0.0287	0.0279	%	103	80.0 - 120	Acceptable	
THCVA	2	0.0314	0.0308	%	102	80.0 - 120	Acceptable	
CBN	1	0.0342	0.0340	%	101	80.0 - 120	Acceptable	
exo-THC	2	0.0290	0.0283	%	102	80.0 - 120	Acceptable	
δ9THC	1	0.0334	0.0329	%	102	90.0 - 110	Acceptable	
δ8THC	1	0.0323	0.0320	%	101	90.0 - 110	Acceptable	
9SaTHC	1	0.0344	0.0343	%	101	80.0 - 120	Acceptable	
CB	2	0.0332	0.0311	%	107	80.0 - 120	Acceptable	
9RaTHC	1	0.0312	0.0313	%	99.7	80.0 - 120	Acceptable	
CB	2	0.0299	0.0293	%	102	80.0 - 120	Acceptable	
THCA	1	0.0318	0.0322	%	98.7	90.0 - 110	Acceptable	
CBGA	2	0.0321	0.0320	%	101	80.0 - 120	Acceptable	
CBLA	2	0.0307	0.0302	%	102	80.0 - 120	Acceptable	
δ9THCP	2	0.0331	0.0326	%	102	80.0 - 120	Acceptable	
CB	2	0.0333	0.0326	%	102	80.0 - 120	Acceptable	

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDA	<LOQ	0.00331	%	< 0.00331	Acceptable	
CBV	<LOQ	0.00331	%	< 0.00331	Acceptable	
CEE	<LOQ	0.00331	%	< 0.00331	Acceptable	
CBDA	<LOQ	0.00331	%	< 0.00331	Acceptable	
CBGA	<LOQ	0.00331	%	< 0.00331	Acceptable	
CBG	<LOQ	0.00331	%	< 0.00331	Acceptable	
CB	<LOQ	0.00331	%	< 0.00331	Acceptable	
THCV	<LOQ	0.00331	%	< 0.00331	Acceptable	
δ8THCV	<LOQ	0.00331	%	< 0.00331	Acceptable	
THCVA	<LOQ	0.00331	%	< 0.00331	Acceptable	
CBN	<LOQ	0.00331	%	< 0.00331	Acceptable	
exo-THC	<LOQ	0.00331	%	< 0.00331	Acceptable	
δ9THC	<LOQ	0.00331	%	< 0.00331	Acceptable	
δ8THC	<LOQ	0.00331	%	< 0.00331	Acceptable	
9SaTHC	<LOQ	0.00331	%	< 0.00331	Acceptable	
CB	<LOQ	0.00331	%	< 0.00331	Acceptable	
9RaTHC	<LOQ	0.00331	%	< 0.00331	Acceptable	
CB	<LOQ	0.00331	%	< 0.00331	Acceptable	
THCA	<LOQ	0.00331	%	< 0.00331	Acceptable	
CBGA	<LOQ	0.00331	%	< 0.00331	Acceptable	
CBLA	<LOQ	0.00331	%	< 0.00331	Acceptable	
δ9THCP	<LOQ	0.00331	%	< 0.00331	Acceptable	
CB	<LOQ	0.00331	%	< 0.00331	Acceptable	

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

Units of Measure:
 %- Percent



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

Laboratory Quality Control Results

JAOAC2015 V986		Batch ID: 2309053						
Sample Duplicate		Sample ID: 23-0044630002						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00333	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.00333	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.00333	%	NA	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.00333	%	NA	< 20	Acceptable	
CBSA	<LOQ	<LOQ	0.00333	%	NA	< 20	Acceptable	
CBS	0.0211	0.0211	0.00333	%	0.190	< 20	Acceptable	
CBD	0.694	0.694	0.00333	%	0.0227	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.00333	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.00333	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00333	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.00333	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00333	%	NA	< 20	Acceptable	
d9THC	<LOQ	<LOQ	0.00333	%	NA	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.00333	%	NA	< 20	Acceptable	
9Sa10THC	<LOQ	<LOQ	0.00333	%	NA	< 20	Acceptable	
CB	<LOQ	<LOQ	0.00333	%	NA	< 20	Acceptable	
9Ra10THC	<LOQ	<LOQ	0.00333	%	NA	< 20	Acceptable	
CB	0.00611	0.00610	0.00333	%	0.166	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00333	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.00333	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.00333	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00333	%	NA	< 20	Acceptable	
CB	<LOQ	<LOQ	0.00333	%	NA	< 20	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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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.



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Report Number: 23-000691/D004.R001
Report Date: 01/26/2023
ORELAP#: OR100028
Purchase Order:
Received: 01/17/23 14:16

This is an amended version of report# 23-000691/D004.R000.

Reason: Updated report format.

Customer: IHC LLC
Product identity: 01LIR209_GJ
Client/Metric ID: .
Laboratory ID: 23-000691-0007

Summary

Potency:

Analyte	Result (%)		
CBD-A	41.2		
CBDV-A	20.5		
CBC-A	2.19		
THC-A	1.96		
THCV-A	1.14		
CBG-A	0.900		
CBD	0.707		
CBG	0.106		
Δ9-THC	0.0936		

CBD-Total	36.8%
THC-Total	1.81%
(Reported in percent of total sample)	

Residual Solvents:

Analyte	Result (µg/g)	Limits (µg/g)	Status
Butanes (sum)	2860	5000	pass
n-Butane	2860		

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.



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Report Number: 23-000691/D004.R001
Report Date: 01/26/2023
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_GJ
Client/Metric ID: .
Sample Date:
Laboratory ID: 23-000691-0007
Evidence of Cooling: No
Temp: 20 °C
Relinquished by: ramos



Sample Results

Potency	Method: J AOAC 2015 V98-6 (mod) ^p			Units %	Batch: 2300680	Analyze: 1/21/23 4:59:00 AM
Analyte	As Received	Dry weight	LOQ	Notes		
CBC	< LOQ		0.0711			
CBC-A	2.19		0.0711			
CBC-Total	1.92		0.134			
CBD	0.707		0.0711			
CBD-A	41.2		0.711			
CBD-Total	36.8		0.695			
CBDV	< LOQ		0.0711			
CBDV-A	20.5		0.0711			
CBDV-Total	17.8		0.133			
CBE	< LOQ		0.0711			
CBG	0.106		0.0711			
CBG-A	0.900		0.0711			
CBG-Total	0.896		0.133			
CBL	< LOQ		0.0711			
CBL-A	< LOQ		0.0711			
CBL-Total	< LOQ		0.134			
CBN	< LOQ		0.0711			
CBT	< LOQ		0.0711			
Δ10-THC-9R	< LOQ		0.0711			
Δ8-THC	< LOQ		0.0711			
Δ8-THCV	< LOQ		0.0711			
Δ9-THC	0.0936		0.0711			
exo-THC	< LOQ		0.0711			
THC-A	1.96		0.0711			
THC-Total	1.81		0.134			
THCV	< LOQ		0.0711			
THCV-A	1.14		0.0711			
THCV-Total	1.00		0.133			
Total Cannabinoids	68.8					



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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) ^P		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2300531	01/21/23 AOAC 2014.05 (RAPID) ^P		

Solvents

Method: Residual Solvents by GC/MS^P **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)	2860	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	2860		200		E
n-Heptane	< LOQ	5000	200	pass		n-Hexane	< LOQ		30.0		
n-Pentane	< LOQ		200			o-Xylene	< LOQ		200		
Pentanes (sum)	< LOQ	5000	600	pass		Propane	< LOQ	5000	200	pass	
Tetrahydrofuran	< LOQ	720	100	pass		Toluene	< LOQ	890	100	pass	
Total Xylenes	< LOQ		400			Total Xylenes and Ethyl benzene	< LOQ	2170	600	pass	

Metals

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Arsenic	< LOQ	0.200	mg/kg	0.0911	2300594	01/18/23 AOAC 2013.06 (mod.) ^P	pass	
Cadmium	< LOQ	0.200	mg/kg	0.0911	2300594	01/18/23 AOAC 2013.06 (mod.) ^P	pass	
Lead	< LOQ	0.500	mg/kg	0.0911	2300594	01/18/23 AOAC 2013.06 (mod.) ^P	pass	
Mercury	< LOQ	0.100	mg/kg	0.0456	2300594	01/18/23 AOAC 2013.06 (mod.) ^P	pass	

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



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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.

^p = 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

Glossary of Qualifiers

E: Analyte concentration exceeds the calibration range, results are estimated.

Approved Signatory

Derrick Tanner
General Manager



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Portland, OR 97230
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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



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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	
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



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ORELAP#: OR100028
Purchase Order:
Received: 01/17/23 14:16





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



Report Number: 23-000691/D004.R001
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ORELAP#: OR100028
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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.