



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



Report Number: 23-002684/D047.R000
Report Date: 03/13/2023
ORELAP#: OR100028
Purchase Order:
Received: 03/06/23 16:17

Customer: Seventh Hill Releaf LLC
Product identity: Hemp Collect LRCBD
Client/Metric ID: HCLR40D920231
Laboratory ID: 23-002684-0014

Summary

Potency:

Analyte	Result	Limits	Units	Status	
CBD	0.267		%		CBD-Total per Serving Size 44.2 mg/16g
CBD-A	0.0102		%		
Analyte per 16g	Result	Limits	Units	Status	
CBD per 16g	42.7		mg/16g		(Reported in milligrams per serving)
CBD-A per 16g	1.63		mg/16g		
					THC-Total per Serving Size <LOQ

Residual Solvents:

All analytes passing and less than LOQ.

Metals:

Less than LOQ for all analytes.



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Customer: Seventh Hill Releaf LLC
215 S 19th St
Springfield Oregon 97477
United States of America (USA)

Product identity: Hemp Collect LRCBD
Client/Metric ID: HCLR40D920231

Sample Date:
Laboratory ID: 23-002684-0014

Evidence of Cooling: No
Temp: 19.8

Relinquished by: client
Serving Size #1: 16 g

Sample Results

Potency	Method: J AOAC 2015 V98-6 (mod) ^b	Units %	Batch: 2302154	Analyze: 3/9/23 8:15:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBD	0.267		%	0.00332	
CBD-A	0.0102		%	0.00332	
CBD-Total	0.276		%	0.00623	
CBG	< LOQ		%	0.00332	
CBG-A	< LOQ		%	0.00332	
CBG-Total	< LOQ		%	0.00620	
CBN	< LOQ		%	0.00332	
Δ10-THC-9R	< LOQ		%	0.00332	
Δ10-THC-9S	< LOQ		%	0.00332	
Δ10-THC-Total	< LOQ		%	0.00664	
Δ8-THC	< LOQ		%	0.00332	
Δ9-THC	< LOQ		%	0.00332	
THC-A	< LOQ		%	0.00332	
THC-Total	< LOQ		%	0.00623	
Total Cannabinoids	0.277		%		

Potency per 16g	Method: J AOAC 2015 V98-6 (mod) ^b	Units mg/se	Batch: 2302154	Analyze: 3/9/23 8:15:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBD per 16g	42.7		mg/16g	0.531	
CBD-A per 16g	1.63		mg/16g	0.531	
CBD-Total per 16g	44.2		mg/16g	0.998	
CBG per 16g	< LOQ		mg/16g	0.598	
CBG-A per 16g	< LOQ		mg/16g	0.598	
CBG-Total per 16g	< LOQ		mg/16g	1.88	
CBN per 16g	< LOQ		mg/16g	0.598	
Δ10-THC-9R per 16g	< LOQ		mg/16g	0.598	
Δ10-THC-9S per 16g	< LOQ		mg/16g	0.598	
Δ10-THC-Total per 16g	< LOQ		mg/16g	2.00	
Δ8-THC per 16g	< LOQ		mg/16g	0.598	
Δ9-THC per 16g	< LOQ		mg/16g	0.598	



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Potency per 16g		Method: J AOAC 2015 V98-6 (mod) ^b		Units mg/se	Batch: 2302154	Analyze: 3/9/23 8:15:00 PM
Analyte	Result	Limits	Units	LOQ	Notes	
THC-A per 16g	< LOQ		mg/16g	0.598		
THC-Total per 16g	< LOQ		mg/16g	1.88		

Solvents		Method: Residual Solvents by GC/MS ^b				Units µg/g	Batch 2302104	Analyze 03/09/23 01:27 PM			
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
1-Butanol	< LOQ	5000	500	pass		1-Pentanol	< LOQ	5000	500	pass	
1,1-Dichloroethane	< LOQ		1.00			1,2-Dichloroethane	< LOQ		1.00		
1,2-Dimethoxyethane	< LOQ		50.0			1,4-Dioxane	< LOQ	380	100	pass	
2-Butanol	< LOQ	5000	200	pass		2-Ethoxyethanol	< LOQ	160	30.0	pass	
2-methyl-1-propanol	< LOQ		500			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-Methyl-(1)-Butanol	< LOQ		500		
3-Methylpentane	< LOQ		30.0			Acetic Acid	< LOQ		250		
Acetone	< LOQ	5000	200	pass		Acetonitrile	< LOQ	410	100	pass	
Anisole	< LOQ		500			Benzene	< LOQ	2.00	1.00	pass	
Butanes (sum)	< LOQ	5000	400	pass		Butyl acetate	< LOQ		500		
Chloroform	< LOQ		1.00			Cyclohexane	< LOQ	3880	200	pass	
DMSO	< LOQ	5000	500	pass		Ethanol	< LOQ		200		
Ethyl acetate	< LOQ	5000	200	pass		Ethyl benzene	< LOQ		200		
Ethyl ether	< LOQ	5000	200	pass		Ethyl Formate	< LOQ		500		
Ethylene glycol	< LOQ	620	200	pass		Ethylene oxide	< LOQ	50.0	1.00	pass	
Formic Acid	< LOQ		250			Hexanes (sum)	< LOQ	290	150	pass	
Isobutyl acetate	< LOQ	5000	500	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		Methyl-t-butyl ether	< LOQ		500		
Methylacetat	< LOQ		500			Methylene chloride	< LOQ	600	1.00	pass	
Methylethylketone	< LOQ		500			Methylisobutylketone	< LOQ		500		
Methylpropane (Isobutane)	< LOQ		200			n-Butane	< LOQ		200		
n-Heptane	< LOQ	5000	200	pass		n-Hexane	< LOQ		30.0		
n-Pentane	< LOQ		200			n-Propanol	< LOQ		500		
N,N-dimethylacetamide	< LOQ	1090	200	pass		N,N-dimethylformamide	< LOQ		200		
o-Xylene	< LOQ		200			Pentanes (sum)	< LOQ	5000	600	pass	
Propane	< LOQ	5000	200	pass		Propyl Acetate	< LOQ		500		
Pyridine	< LOQ	200	50.0	pass		Sulfolane	< LOQ	160	50.0	pass	
Tetrahydrofuran	< LOQ	720	100	pass		Toluene	< LOQ	890	100	pass	
Total Residual Solvents	< LOQ		5,000			Total Xylenes	< LOQ		400		
Total Xylenes and Ethyl benzene	< LOQ	2170	600	pass		Trichloroethylene	< LOQ		1.00		
Triethylamine	< LOQ		500								



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Metals

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Arsenic ^Y	< LOQ	0.200	mg/kg	0.0171	2302077	03/08/23 AOAC 2013.06 (mod.) ^P	pass	
Cadmium ^Y	< LOQ	0.200	mg/kg	0.0171	2302077	03/08/23 AOAC 2013.06 (mod.) ^P	pass	
Lead ^Y	< LOQ	0.500	mg/kg	0.0171	2302077	03/08/23 AOAC 2013.06 (mod.) ^P	pass	
Mercury ^Y	< LOQ	0.100	mg/kg	0.00854	2302077	03/08/23 AOAC 2013.06 (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

g = g

µg/g = Microgram per gram

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

mg/16g = Milligram per 16g

% = Percentage of sample

% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner
General Manager



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

Laboratory Quality Control Results

Residual Solvents				Batch ID: 2302104					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		518	572	µg/g	90.6	60 - 120	
Isobutane	ND	< 200		675	731	µg/g	92.3	60 - 120	
Butane	ND	< 200		670	731	µg/g	91.7	60 - 120	
2,2-Dimethylpropane	ND	< 200		833	936	µg/g	89.0	60 - 120	
Methanol	ND	< 200		1430	1610	µg/g	88.8	60 - 120	
Ethylene Oxide	ND	< 30		49.9	56.2	µg/g	88.8	60 - 120	
2-Methylbutane	ND	< 200		1550	1600	µg/g	96.9	60 - 120	
Pentane	ND	< 200		1550	1610	µg/g	96.3	60 - 120	
Ethanol	ND	< 200		1440	1600	µg/g	90.0	70 - 130	
Ethyl Ether	ND	< 200		1510	1610	µg/g	93.8	60 - 120	
2,2-Dimethylbutane	ND	< 30		163	173	µg/g	94.2	60 - 120	
Acetone	ND	< 200		1500	1620	µg/g	92.6	60 - 120	
2-Propanol	ND	< 200		1460	1600	µg/g	91.3	60 - 120	
Ethyl Formate	ND	< 500		1680	1610	µg/g	104.3	70 - 130	
Acetonitrile	ND	< 100		437	488	µg/g	89.5	60 - 120	
Methyl Acetate	ND	< 500		1390	1600	µg/g	86.9	70 - 130	
2,3-Dimethylbutane	ND	< 30		151	165	µg/g	91.5	60 - 120	
Dichloromethane	ND	< 60		451	487	µg/g	92.6	60 - 120	
2-Methylpentane	ND	< 30		151	160	µg/g	94.4	60 - 120	
MTBE	ND	< 500		1400	1630	µg/g	85.9	70 - 130	
3-Methylpentane	ND	< 30		136	161	µg/g	84.5	60 - 120	
Hexane	ND	< 30		183	162	µg/g	113.0	60 - 120	
1-Propanol	ND	< 500		1510	1600	µg/g	94.4	70 - 130	
Methyl ethyl ketone	ND	< 500		1450	1610	µg/g	90.1	70 - 130	
Ethyl acetate	ND	< 200		1440	1600	µg/g	90.0	60 - 120	
2-Butanol	ND	< 200		1470	1610	µg/g	91.3	60 - 120	
Tetrahydrofuran	ND	< 100		435	483	µg/g	90.1	60 - 120	
Cyclohexane	ND	< 200		1460	1610	µg/g	90.7	60 - 120	
2-methyl-1-propanol	ND	< 500		1550	1600	µg/g	96.9	70 - 130	
Benzene	ND	< 1		5.3	4.98	µg/g	106.4	60 - 120	
Isopropyl Acetate	ND	< 200		1420	1610	µg/g	88.2	60 - 120	
Heptane	ND	< 200		1440	1620	µg/g	88.9	60 - 120	
1-Butanol	ND	< 500		1600	1610	µg/g	99.4	70 - 130	
Propyl Acetate	ND	< 500		1480	1600	µg/g	92.5	70 - 130	
1,4-Dioxane	ND	< 100		441	494	µg/g	89.3	60 - 120	
2-Ethoxyethanol	ND	< 30		148	165	µg/g	89.7	60 - 120	
Methylisobutylketone	ND	< 500		1450	1610	µg/g	90.1	70 - 130	
3-Methyl-1-butanol	ND	< 500		1580	1620	µg/g	97.5	70 - 130	
Ethylene Glycol	ND	< 200		427	488	µg/g	87.9	60 - 120	
Toluene	ND	< 100		440	513	µg/g	85.8	60 - 120	
Isobutyl Acetate	ND	< 500		1460	1610	µg/g	90.7	70 - 130	
1-Pentanol	ND	< 500		1610	1630	µg/g	98.8	70 - 130	
Butyl Acetate	ND	< 500		1480	1620	µg/g	91.4	70 - 130	
Ethylbenzene	ND	< 200		880	967	µg/g	91.0	60 - 120	
m,p-Xylene	ND	< 200		903	994	µg/g	90.8	60 - 120	
o-Xylene	ND	< 200		891	992	µg/g	89.8	60 - 120	
Cumene	ND	< 30		151	171	µg/g	88.3	60 - 120	
Anisole	ND	< 500		1460	1630	µg/g	89.6	70 - 130	
DMSO	ND	< 500		1790	1610	µg/g	111.2	70 - 130	
1,2-dimethoxyethane	ND	< 50		157	173	µg/g	90.8	70 - 130	
Triethylamine	ND	< 500		1440	1620	µg/g	88.9	70 - 130	
N,N-dimethylformamide	ND	< 150		464	493	µg/g	94.1	70 - 130	
N,N-dimethylacetamide	ND	< 150		444	518	µg/g	85.7	70 - 130	
Pyridine	ND	< 50		160	188	µg/g	86.0	70 - 130	
Silolane	ND	< 50		136	168	µg/g	81.0	70 - 130	
1,2-Dichloroethane	ND	< 1		0.984	1	µg/g	98.4	70 - 130	
Chloroform	ND	< 1		0.952	1	µg/g	95.2	70 - 130	
Trichloroethylene	ND	< 1		0.936	1	µg/g	96.6	70 - 130	
1,1-Dichloroethane	ND	< 1		0.941	1	µg/g	94.1	70 - 130	

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 333-007-0410 OAR 333-007-0430



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

QC- Sample Duplicate		Sample ID: 23-002655-0001						
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	206	216	200 µg/g	4.7	< 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		
Ethyl Formate	ND	ND	500 µg/g	0.0	< 20	Acceptable		
Acetonitrile	ND	ND	100 µg/g	0.0	< 20	Acceptable		
Methyl Acetate	ND	ND	500 µg/g	0.0	< 20	Acceptable		
2,3-Dimethylbutane	ND	ND	30 µg/g	0.0	< 20	Acceptable		
Dichloromethane	ND	ND	60 µg/g	0.0	< 20	Acceptable		
2-Methylpentane	ND	ND	30 µg/g	0.0	< 20	Acceptable		
MTBE	ND	ND	500 µg/g	0.0	< 20	Acceptable		
3-Methylpentane	ND	ND	30 µg/g	0.0	< 20	Acceptable		
Hexane	ND	ND	30 µg/g	0.0	< 20	Acceptable		
1-Propanol	ND	ND	500 µg/g	0.0	< 20	Acceptable		
Methylethylketone	ND	ND	500 µg/g	0.0	< 20	Acceptable		
Ethyl acetate	ND	ND	200 µg/g	0.0	< 20	Acceptable		
2-Butanol	ND	ND	200 µg/g	0.0	< 20	Acceptable		
Tetrahydrofuran	ND	ND	100 µg/g	0.0	< 20	Acceptable		
Cyclohexane	ND	ND	200 µg/g	0.0	< 20	Acceptable		
2-methyl-1-propanol	ND	ND	500 µg/g	0.0	< 20	Acceptable		
Benzene	ND	ND	1 µg/g	0.0	< 20	Acceptable		
Isopropyl Acetate	ND	ND	200 µg/g	0.0	< 20	Acceptable		
Heptane	ND	ND	200 µg/g	0.0	< 20	Acceptable		
1-Butanol	ND	ND	500 µg/g	0.0	< 20	Acceptable		
Propyl Acetate	ND	ND	500 µg/g	0.0	< 20	Acceptable		
1,4-Dioxane	ND	ND	100 µg/g	0.0	< 20	Acceptable		
2-Ethoxyethanol	ND	ND	30 µg/g	0.0	< 20	Acceptable		
Methylisobutylketone	ND	ND	500 µg/g	0.0	< 20	Acceptable		
3-Methyl-1-butanol	ND	ND	500 µg/g	0.0	< 20	Acceptable		
Ethylene Glycol	ND	ND	200 µg/g	0.0	< 20	Acceptable		
Toluene	ND	ND	100 µg/g	0.0	< 20	Acceptable		
Isobutyl Acetate	ND	ND	500 µg/g	0.0	< 20	Acceptable		
1-Pentanol	ND	ND	500 µg/g	0.0	< 20	Acceptable		
Butyl Acetate	ND	ND	500 µg/g	0.0	< 20	Acceptable		
Ethylbenzene	ND	ND	200 µg/g	0.0	< 20	Acceptable		
m,p-Xylene	ND	ND	200 µg/g	0.0	< 20	Acceptable		
o-Xylene	ND	ND	200 µg/g	0.0	< 20	Acceptable		
Cumene	ND	ND	30 µg/g	0.0	< 20	Acceptable		
Anisole	ND	ND	500 µg/g	0.0	< 20	Acceptable		
DMSO	ND	ND	500 µg/g	0.0	< 20	Acceptable		
1,2-dimethoxyethane	ND	ND	50 µg/g	0.0	< 20	Acceptable		
Triethylamine	ND	ND	500 µg/g	0.0	< 20	Acceptable		
N,N-dimethylformamide	ND	ND	150 µg/g	0.0	< 20	Acceptable		
N,N-dimethylacetamide	ND	ND	150 µg/g	0.0	< 20	Acceptable		
Pyridine	ND	ND	50 µg/g	0.0	< 20	Acceptable		
Sulfolane	ND	ND	50 µg/g	0.0	< 20	Acceptable		
1,2-Dichloroethane	ND	ND	1 µg/g	0.0	< 20	Acceptable		
Chloroform	ND	ND	1 µg/g	0.0	< 20	Acceptable		
Trichloroethylene	ND	ND	1 µg/g	0.0	< 20	Acceptable		
1,1-Dichloroethane	ND	ND	1 µg/g	0.0	< 20	Acceptable		

Abbreviations

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

Units of Measure:

µg/g - Microgram per gram or ppm



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Revision: 1 Document ID: TBA

Laboratory Quality Control Results

Organic Acids				Batch ID: 2302114			
Method Blank				Laboratory Control Sample			
Analyte	Result	LOQ	Notes	Result	Spike	Units	%Rec
Acetic Acid	<LOQ	< 250		488	522	µg/g	93.3
Formic Acid	<LOQ	< 250		564	557	µg/g	101.2

QC- Sample Duplicate						Sample ID: LGS	
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Accept/ Fail
Acetic Acid	<LOQ	<LOQ	250	µg/g	0.0	< 20	Acceptable
Formic Acid	<LOQ	<LOQ	250	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



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

Laboratory Quality Control Results

J AOAC 2015 V98-6 Batch ID: 2302154

Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes
CBDVA	2	0.0368	0.033	%	111	80.0	- 120	Acceptable	
CBDV	2	0.0392	0.035	%	111	80.0	- 120	Acceptable	
CBE	2	0.0379	0.034	%	111	80.0	- 120	Acceptable	
CBD	1	0.0376	0.036	%	104	90.0	- 110	Acceptable	
CBGA	1	0.0372	0.036	%	104	80.0	- 120	Acceptable	
CBG	1	0.0392	0.038	%	104	80.0	- 120	Acceptable	
CBDA	1	0.0382	0.037	%	103	90.0	- 110	Acceptable	
THCV	2	0.0378	0.033	%	113	80.0	- 120	Acceptable	
d8THCV	2	0.0394	0.036	%	109	80.0	- 120	Acceptable	
THCVA	2	0.0365	0.033	%	112	80.0	- 120	Acceptable	
CBN	1	0.0395	0.038	%	104	80.0	- 120	Acceptable	
exo-THC	2	0.0366	0.034	%	109	80.0	- 120	Acceptable	
d9THC	1	0.0391	0.036	%	108	90.0	- 110	Acceptable	
d8THC	1	0.0396	0.037	%	106	90.0	- 110	Acceptable	
9S-d10THC	1	0.0395	0.037	%	106	80.0	- 120	Acceptable	
CBL	2	0.0380	0.033	%	114	80.0	- 120	Acceptable	
9R-d10THC	1	0.0367	0.036	%	101	80.0	- 120	Acceptable	
CB	2	0.0392	0.036	%	110	80.0	- 120	Acceptable	
THCA	1	0.0380	0.036	%	105	90.0	- 110	Acceptable	
CBCA	2	0.0390	0.035	%	112	80.0	- 120	Acceptable	
CBLA	2	0.0384	0.035	%	110	80.0	- 120	Acceptable	
CBT	2	0.0386	0.036	%	108	80.0	- 120	Acceptable	

Method Blank						
Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.003	%	< 0.003	Acceptable	
CBDV	<LOQ	0.003	%	< 0.003	Acceptable	
CBE	<LOQ	0.003	%	< 0.003	Acceptable	
CBD	<LOQ	0.003	%	< 0.003	Acceptable	
CBGA	<LOQ	0.003	%	< 0.003	Acceptable	
CBG	<LOQ	0.003	%	< 0.003	Acceptable	
CBDA	<LOQ	0.003	%	< 0.003	Acceptable	
THCV	<LOQ	0.003	%	< 0.003	Acceptable	
d8THCV	<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	
d9THC	<LOQ	0.003	%	< 0.003	Acceptable	
d8THC	<LOQ	0.003	%	< 0.003	Acceptable	
9S-d10THC	<LOQ	0.003	%	< 0.003	Acceptable	
CBL	<LOQ	0.003	%	< 0.003	Acceptable	
9R-d10THC	<LOQ	0.003	%	< 0.003	Acceptable	
CB	<LOQ	0.003	%	< 0.003	Acceptable	
THCA	<LOQ	0.003	%	< 0.003	Acceptable	
CBCA	<LOQ	0.003	%	< 0.003	Acceptable	
CBLA	<LOQ	0.003	%	< 0.003	Acceptable	
CBT	<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: 23-002684/D047.R000
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ORELAP#: OR100028
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Received: 03/06/23 16:17

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

Laboratory Quality Control Results

J AOAC 2015 V98-6		Batch ID: 2302154						
Sample Duplicate		Sample ID: 23-002464-0001						
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	
CBDA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d8THCV	0.00460	0.00470	0.003	%	2.06	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBN	0.00328	0.00336	0.003	%	2.47	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d9THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d8THC	0.663	0.672	0.003	%	1.33	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
9R-d10THC	<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	
CBT	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	

Abbreviations

ND - None Detected at or above MRL
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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.