Columbia LABORATORIES
A Tentamus Company

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

Report Number: 23-002684/D046.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 LRD9
Client/Metrc ID: HCLR40CBD20231
Laboratory ID: 23-002684-0015

Summary

Potency:

Analyte	Result	Limits	Units	Status
CBD	0.00370		%	
CBD-A	0.00980		%	
Δ8-THC	0.00407		%	
Δ9-THC	0.263		%	
Analyte per 16g	**Result**	**Limits**	**Units**	**Status**
CBD per 16g	0.592		mg/16g	
CBD-A per 16g	1.57		mg/16g	
Δ8-THC per 16g	0.651		mg/16g	
Δ9-THC per 16g	42.1		mg/16g	

THC-Total per Serving Size 42.1 mg/16g

CBD-Total per Serving Size 1.97 mg/16g

(Reported in milligrams per serving)

Residual Solvents:

All analytes passing and less than LOQ.

Metals:

Analyte	Result	Units	Limit	Status
Arsenic¥	0.0206	mg/kg	0.200	pass

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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 LRD9
Client/Metrc ID: HCLR40CBD20231
Sample Date:
Laboratory ID: 23-002684-0015
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)[þ] **Units** % **Batch:** 2302154 **Analyze:** 3/9/23 8:23:00 PM

Analyte	Result	Limits	Units	LOQ	Notes
CBD	0.00370		%	0.00317	
CBD-A	0.00980		%	0.00317	
CBD-Total	0.0123		%	0.00595	
CBG	< LOQ		%	0.00317	
CBG-A	< LOQ		%	0.00317	
CBG-Total	< LOQ		%	0.00592	
CBN	< LOQ		%	0.00317	
Δ10-THC-9R	< LOQ		%	0.00317	
Δ10-THC-9S	< LOQ		%	0.00317	
Δ10-THC-Total	< LOQ		%	0.00634	
Δ8-THC	0.00407		%	0.00317	
Δ9-THC	0.263		%	0.00317	
THC-A	< LOQ		%	0.00317	
THC-Total	0.263		%	0.00595	
Total Cannabinoids	**0.281**		%		

Potency per 16g **Method:** J AOAC 2015 V98-6 (mod)[þ] **Units** mg/se **Batch:** 2302154 **Analyze:** 3/9/23 8:23:00 PM

Analyte	Result	Limits	Units	LOQ	Notes
CBD per 16g	0.592		mg/16g	0.507	
CBD-A per 16g	1.57		mg/16g	0.507	
CBD-Total per 16g	1.97		mg/16g	0.952	
CBG per 16g	< LOQ		mg/16g	0.571	
CBG-A per 16g	< LOQ		mg/16g	0.571	
CBG-Total per 16g	< LOQ		mg/16g	1.88	
CBN per 16g	< LOQ		mg/16g	0.571	
Δ10-THC-9R per 16g	< LOQ		mg/16g	0.571	
Δ10-THC-9S per 16g	< LOQ		mg/16g	0.571	
Δ10-THC-Total per 16g	< LOQ		mg/16g	2.00	
Δ8-THC per 16g	0.651		mg/16g	0.507	
Δ9-THC per 16g	42.1		mg/16g	0.507	

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Potency per 16g **Method:** J AOAC 2015 V98-6 (mod)þ **Units** mg/se **Batch:** 2302154 **Analyze:** 3/9/23 8:23:00 PM

Analyte	Result	Limits	Units	LOQ	Notes
THC-A per 16g	< LOQ		mg/16g	0.571	
THC-Total per 16g	42.1		mg/16g	0.952	

Solvents **Method:** Residual Solvents by GC/MSþ **Units** µg/g **Batch** 2302150 **Analyze** 03/10/23 10:42 AM

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¥	0.0206	0.200	mg/kg	0.0142	2302077	03/08/23	AOAC 2013.06 (mod.)þ	pass	
Cadmium¥	< LOQ	0.200	mg/kg	0.0142	2302077	03/08/23	AOAC 2013.06 (mod.)þ	pass	
Lead¥	< LOQ	0.500	mg/kg	0.0142	2302077	03/08/23	AOAC 2013.06 (mod.)þ	pass	
Mercury¥	< LOQ	0.100	mg/kg	0.00708	2302077	03/08/23	AOAC 2013.06 (mod.)þ	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.

þ = 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: 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	Limits		Notes
Acetic Acid	<LOQ	<	250		488	522	µg/g	93.3	70	130	
Formic Acid	<LOQ	<	250		564	557	µg/g	101.2	70	130	

QC- Sample Duplicate — Sample ID: LCS

Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Accept/Fail	Notes
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: 2 Document ID: 7087
Legacy ID: CFL-E33Effective:

Laboratory Quality Control Results

Residual Solvents — Batch ID: 2302150

Analyte	Method Blank Result		LOQ	Notes	Laboratory Control Sample Result	Spike	Units	%Rec	Limits	Notes
Propane	ND	<	200		505	584	µg/g	86.5	60 - 120	
Isobutane	ND	<	200		643	767	µg/g	83.8	60 - 120	
Butane	ND	<	200		658	782	µg/g	84.1	60 - 120	
2,2-Dimethylpropane	ND	<	200		784	939	µg/g	83.5	60 - 120	
Methanol	ND	<	200		1420	1610	µg/g	88.2	60 - 120	
Ethylene Oxide	ND	<	30		48.7	57.1	µg/g	85.3	60 - 120	
2-Methylbutane	ND	<	200		1510	1600	µg/g	94.4	60 - 120	
Pentane	ND	<	200		1500	1610	µg/g	93.2	60 - 120	
Ethanol	ND	<	200		1370	1600	µg/g	85.6	70 - 130	
Ethyl Ether	ND	<	200		1430	1610	µg/g	88.8	60 - 120	
2,2-Dimethylbutane	ND	<	30		156	173	µg/g	90.2	60 - 120	
Acetone	ND	<	200		1440	1620	µg/g	88.9	60 - 120	
2-Propanol	ND	<	200		1380	1600	µg/g	86.3	60 - 120	
Ethyl Formate	ND	<	500		1600	1610	µg/g	99.4	70 - 130	
Acetonitrile	ND	<	100		432	488	µg/g	88.5	60 - 120	
Methyl Acetate	ND	<	500		1370	1610	µg/g	85.1	70 - 130	
2,3-Dimethylbutane	ND	<	30		148	165	µg/g	89.7	60 - 120	
Dichloromethane	ND	<	60		425	487	µg/g	87.3	60 - 120	
2-Methylpentane	ND	<	30		143	160	µg/g	89.4	60 - 120	
MTBE	ND	<	500		1350	1600	µg/g	84.4	70 - 130	
3-Methylpentane	ND	<	30		131	161	µg/g	81.4	60 - 120	
Hexane	ND	<	30		172	162	µg/g	106.2	60 - 120	
1-Propanol	ND	<	500		1480	1620	µg/g	91.4	70 - 130	
Methylethylketone	ND	<	500		1440	1610	µg/g	89.4	70 - 130	
Ethyl acetate	ND	<	200		1380	1600	µg/g	86.3	60 - 120	
2-Butanol	ND	<	200		1380	1610	µg/g	85.7	60 - 120	
Tetrahydrofuran	ND	<	100		406	483	µg/g	84.1	60 - 120	
Cyclohexane	ND	<	200		1350	1610	µg/g	83.9	60 - 120	
2-methyl-1-propanol	ND	<	500		1430	1630	µg/g	87.7	70 - 130	
Benzene	ND	<	1		4.85	4.98	µg/g	97.4	60 - 120	
Isopropyl Acetate	ND	<	200		1350	1610	µg/g	83.9	60 - 120	
Heptane	ND	<	200		1370	1620	µg/g	84.6	60 - 120	
1-Butanol	ND	<	500		1470	1600	µg/g	91.9	70 - 130	
Propyl Acetate	ND	<	500		1430	1620	µg/g	88.3	70 - 130	
1,4-Dioxane	ND	<	100		401	494	µg/g	81.2	60 - 120	
2-Ethoxyethanol	ND	<	30		138	165	µg/g	83.6	60 - 120	
Methylisobutylketone	ND	<	500		1340	1610	µg/g	83.2	70 - 130	
3-Methyl-1-butanol	ND	<	500		1440	1610	µg/g	89.4	70 - 130	
Ethylene Glycol	ND	<	200		423	486	µg/g	87.0	60 - 120	
Toluene	ND	<	100		400	513	µg/g	78.0	60 - 120	
Isobutyl Acetate	ND	<	500		1380	1600	µg/g	86.3	70 - 130	
1-Pentanol	ND	<	500		1440	1610	µg/g	89.4	70 - 130	
Butyl Acetate	ND	<	500		1370	1610	µg/g	85.1	70 - 130	
Ethylbenzene	ND	<	200		788	967	µg/g	81.5	60 - 120	
m,p-Xylene	ND	<	200		806	994	µg/g	81.1	60 - 120	
o-Xylene	ND	<	200		793	992	µg/g	79.9	60 - 120	
Cumene	ND	<	30		133	171	µg/g	77.8	60 - 120	
Anisole	ND	<	500		1250	1610	µg/g	77.6	70 - 130	
DMSO	ND	<	500		1480	1610	µg/g	91.9	70 - 130	
1,2-dimethoxyethane	ND	<	50		152	172	µg/g	88.4	70 - 130	
Triethylamine	ND	<	500		1400	1620	µg/g	86.4	70 - 130	
N,N-dimethylformamide	ND	<	150		407	499	µg/g	81.6	70 - 130	
N,N-dimethylacetamide	ND	<	150		381	491	µg/g	77.6	70 - 130	
Pyridine	ND	<	50		146	171	µg/g	85.4	70 - 130	
Sulfolane	ND	<	50		108	160	µg/g	67.5	70 - 130	Q6
1,2-Dichloroethane	ND	<	1		0.813	1	µg/g	81.3	70 - 130	
Chloroform	ND	<	1		0.812	1	µg/g	81.2	70 - 130	
Trichloroethylene	ND	<	1		0.795	1	µg/g	79.5	70 - 130	
1,1-Dichloroethane	ND	<	1		0.848	1	µg/g	84.8	70 - 130	

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QC- Sample Duplicate — Sample ID: 23-002824-0001

Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Accept/ Fail	Notes
Propane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Isobutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Butane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2,2-Dimethylpropane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Methanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethylene Oxide	ND	ND	30	µg/g	0.0	< 20	Acceptable	
2-Methylbutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Pentane	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	293	265	200	µg/g	10.0	< 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
Q6- Quality control outside QClimits. Data acceptable basedon remaining QC.

Units of Measure:

µg/g- Microgram per gram or ppm

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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	
CBDA	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	
CBD	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	
CBC	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	
CBDA	<LOQ	0.003	%	< 0.003	Acceptable	
CBGA	<LOQ	0.003	%	< 0.003	Acceptable	
CBG	<LOQ	0.003	%	< 0.003	Acceptable	
CBD	<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	
CBC	<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

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 23-002684/D046.R000
Report Date: 03/13/2023
ORELAP#: OR100028
Purchase Order:
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
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	Quantitaion 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.