Columbia LABORATORIES
A Tentamus Company

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

Customer: Seventh Hill Releaf LLC
Product identity: Free Bird CBN
Client/Metrc ID: FB202301
Laboratory ID: 23-002684-0007

Summary

Potency:

Analyte	Result	Limits	Units	Status		
CBD	0.201		%		CBD-Total per Serving Size	32.5 mg/16g
CBN	0.138		%			
Δ9-THC	0.0251		%		THC-Total per Serving Size	4.02 mg/16g
Analyte per 16g	**Result**	**Limits**	**Units**	**Status**	(Reported in milligrams per serving)	
CBD per 16g	32.2		mg/16g			
CBN per 16g	22.1		mg/16g			
Δ9-THC per 16g	4.02		mg/16g			

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REPORT NUMBER:	23-002684/D038.R000
Report Date:	03/13/2023
ORELAP#:	OR100028
Purchase Order:	
Received:	03/06/23 16:17

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

Product identity:	Free Bird CBN
Client/Metrc ID:	FB202301
Sample Date:	
Laboratory ID:	23-002684-0007
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: 2302108	Analyze: 3/8/23 11:21:00 PM	
Analyte	**Result**	**Limits**	**Units**	**LOQ**		**Notes**
CBD	0.201		%	0.00311		
CBD-A	< LOQ		%	0.00311		
CBD-Total	0.201		%	0.00584		
CBG	< LOQ		%	0.00311		
CBG-A	< LOQ		%	0.00311		
CBG-Total	< LOQ		%	0.00580		
CBN	0.138		%	0.00311		
Δ10-THC-9R	< LOQ		%	0.00311		
Δ10-THC-9S	< LOQ		%	0.00311		
Δ10-THC-Total	< LOQ		%	0.00622		
Δ8-THC	< LOQ		%	0.00311		
Δ9-THC	0.0251		%	0.00311		
THC-A	< LOQ		%	0.00311		
THC-Total	0.0251		%	0.00584		
Total Cannabinoids	**0.364**		%			

Potency per 16g	Method: J AOAC 2015 V98-6 (mod)ᵇ		Units mg/se	Batch: 2302108	Analyze: 3/8/23 11:21:00 PM	
Analyte	**Result**	**Limits**	**Units**	**LOQ**		**Notes**
CBD per 16g	32.2		mg/16g	0.497		
CBD-A per 16g	< LOQ		mg/16g	0.497		
CBD-Total per 16g	32.5		mg/16g	0.934		
CBG per 16g	< LOQ		mg/16g	0.560		
CBG-A per 16g	< LOQ		mg/16g	0.560		
CBG-Total per 16g	< LOQ		mg/16g	1.04		
CBN per 16g	22.1		mg/16g	0.497		
Δ10-THC-9R per 16g	< LOQ		mg/16g	0.560		
Δ10-THC-9S per 16g	< LOQ		mg/16g	0.560		
Δ10-THC-Total per 16g	< LOQ		mg/16g	1.12		
Δ8-THC per 16g	< LOQ		mg/16g	0.560		
Δ9-THC per 16g	4.02		mg/16g	0.497		

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Potency per 16g	**Method:** J AOAC 2015 V98-6 (mod)[b]		**Units** mg/se **Batch:** 2302108		**Analyze:** 3/8/23 11:21:00 PM	
Analyte	Result	Limits	Units	LOQ		Notes
THC-A per 16g	< LOQ		mg/16g	0.560		
THC-Total per 16g	4.02		mg/16g	0.934		

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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.

Units of Measure

g = g
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: 7148
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Laboratory Quality Control Results

J AOAC 2015 V98-6					Batch ID: 2302108				

Laboratory Control Sample

Analyte	LCS	Result	Spike	Units	% Rec	Limits			Evaluation	Notes
CBDVA	2	0.0357	0.033	%	108	80.0	-	120	Acceptable	
CBDV	2	0.0384	0.035	%	109	80.0	-	120	Acceptable	
CBE	2	0.0365	0.034	%	107	80.0	-	120	Acceptable	
CBDA	1	0.0359	0.036	%	99.2	90.0	-	110	Acceptable	
CBGA	1	0.0354	0.036	%	98.8	80.0	-	120	Acceptable	
CBG	1	0.0375	0.038	%	99.5	80.0	-	120	Acceptable	
CBD	1	0.0367	0.037	%	99.1	90.0	-	110	Acceptable	
THCV	2	0.0364	0.033	%	109	80.0	-	120	Acceptable	
d8THCV	2	0.0382	0.036	%	106	80.0	-	120	Acceptable	
THCVA	2	0.0353	0.033	%	108	80.0	-	120	Acceptable	
CBN	1	0.0377	0.038	%	99.3	80.0	-	120	Acceptable	
exo-THC	2	0.0357	0.034	%	106	80.0	-	120	Acceptable	
d9THC	1	0.0376	0.036	%	104	90.0	-	110	Acceptable	
d8THC	1	0.0378	0.037	%	102	90.0	-	110	Acceptable	
9S-d10THC	1	0.0379	0.037	%	102	80.0	-	120	Acceptable	
CBL	2	0.0365	0.033	%	110	80.0	-	120	Acceptable	
9R-d10THC	1	0.0353	0.036	%	96.8	80.0	-	120	Acceptable	
CBC	2	0.0383	0.036	%	107	80.0	-	120	Acceptable	
THCA	1	0.0358	0.036	%	98.9	90.0	-	110	Acceptable	
CBCA	2	0.0374	0.035	%	107	80.0	-	120	Acceptable	
CBLA	2	0.0372	0.035	%	107	80.0	-	120	Acceptable	
CBT	2	0.0374	0.036	%	105	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

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Laboratory Quality Control Results

J AOAC 2015 V98-6						Batch ID: 2302108		
Sample Duplicate						Sample ID: 23-002673-0001		
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	0.193	0.191	0.003	%	1.39	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d9THC	0.217	0.216	0.003	%	0.531	< 20	Acceptable	
d8THC	0.0808	0.0787	0.003	%	2.55	< 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.