



This report cannot be used for ODA, OHA or OLCC compliance requirements.

Product identity: Hazelnut Mini Bar Batch# 19050 **Client/Metric ID:** .
Laboratory ID: 19-005190-0002 **Sample Date:** 05/09/19

Summary

Potency:

Analyte per 18.1g	Result	Limits	Units	LOQ	
CBD per 18.1g	31.5		mg/18.1g	0.603	CBD-Total per 18.1g 35.2 mg/18.1g
CBD-A per 18.1g	4.22		mg/18.1g	0.603	THC-Total per 18.1g < 1.133 mg/18.1
(Reported in milligrams per serving)					

Microbiology:

Less than LOQ for all analytes.



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Customer: Sovereign Medicinals Inc
4207 SE Woodstock Blvd #507
Portland Oregon 97206
United States

Product identity: Hazelnut Mini Bar Batch# 19050

Client/Metric ID: .

Sample Date: 05/09/19

Laboratory ID: 19-005190-0002

Relinquished by: Tait Christensen

Temp: 20.03 °C

Weight Received: 14.17 g

Serving Size #1: 18.1 g

Sample Results

Potency per 18.1g		Batch: 1904256					
Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBC per 18.1g†	< LOQ		mg/18.1g	0.603	05/15/19	J AOAC 2015 V98-6	
CBC-A per 18.1g†	< LOQ		mg/18.1g	0.603	05/15/19	J AOAC 2015 V98-6	
CBC-Total per 18.1g†	< LOQ		mg/18.1g	1.13	05/15/19	J AOAC 2015 V98-6	
CBD per 18.1g	31.5		mg/18.1g	0.603	05/15/19	J AOAC 2015 V98-6	
CBD-A per 18.1g	4.22		mg/18.1g	0.603	05/15/19	J AOAC 2015 V98-6	
CBD-Total per 18.1g	35.2		mg/18.1g	1.13	05/15/19	J AOAC 2015 V98-6	
CBDV per 18.1g†	< LOQ		mg/18.1g	0.603	05/15/19	J AOAC 2015 V98-6	
CBDV-A per 18.1g†	< LOQ		mg/18.1g	0.603	05/15/19	J AOAC 2015 V98-6	
CBDV-Total per 18.1g†	< LOQ		mg/18.1g	1.13	05/15/19	J AOAC 2015 V98-6	
CBG per 18.1g†	< LOQ		mg/18.1g	0.603	05/15/19	J AOAC 2015 V98-6	
CBG-A per 18.1g†	< LOQ		mg/18.1g	0.603	05/15/19	J AOAC 2015 V98-6	
CBG-Total per 18.1g†	< LOQ		mg/18.1g	1.13	05/15/19	J AOAC 2015 V98-6	
CBL per 18.1g†	< LOQ		mg/18.1g	0.603	05/15/19	J AOAC 2015 V98-6	
CBN per 18.1g	< LOQ		mg/18.1g	0.603	05/15/19	J AOAC 2015 V98-6	
Δ8-THC per 18.1g†	< LOQ		mg/18.1g	0.603	05/15/19	J AOAC 2015 V98-6	
Δ9-THC per 18.1g	< LOQ		mg/18.1g	0.603	05/15/19	J AOAC 2015 V98-6	
THC-A per 18.1g	< LOQ		mg/18.1g	0.603	05/15/19	J AOAC 2015 V98-6	
THC-Total per 18.1g	< LOQ		mg/18.1g	1.13	05/15/19	J AOAC 2015 V98-6	
THCV per 18.1g†	< LOQ		mg/18.1g	0.603	05/15/19	J AOAC 2015 V98-6	
THCV-A per 18.1g†	< LOQ		mg/18.1g	0.603	05/15/19	J AOAC 2015 V98-6	
THCV-Total per 18.1g†	< LOQ		mg/18.1g	1.13	05/15/19	J AOAC 2015 V98-6	



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Microbiology								
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
E.coli	< LOQ		cfu/g	10	1904056	05/11/19	AOAC 991.14 (Petrifilm)	X
Total Coliforms	< LOQ		cfu/g	10	1904056	05/11/19	AOAC 991.14 (Petrifilm)	X
Mold	< LOQ		cfu/g	10	1904055	05/11/19	AOAC 2014.05 (RAPID)	X
Yeast	< LOQ		cfu/g	10	1904055	05/11/19	AOAC 2014.05 (RAPID)	X



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Abbreviations

Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220

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.

† = Analyte not NELAP accredited.

Units of Measure

cfu/g = Colony forming units per gram

g = Gram

mg/18.1g = Milligram per 18.1g

% = Percentage of sample

% wt = $\mu\text{g/g}$ divided by 10,000

Glossary of Qualifiers

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner
General Manager



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Laboratory Quality Control Results

J AOAC 2015 V98-6		Batch ID: 1904256							
Laboratory Control Sample									
Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes		
CBDV-A	0.0102	0.01	%	102	85 - 115	Acceptable			
CBDV	0.0105	0.01	%	105	85 - 115	Acceptable			
CBD-A	0.0102	0.01	%	102	85 - 115	Acceptable			
CBG-A	0.0104	0.01	%	104	85 - 115	Acceptable			
CBG	0.0105	0.01	%	105	85 - 115	Acceptable			
CBD	0.0111	0.01	%	111	85 - 115	Acceptable			
THCV	0.0101	0.01	%	101	85 - 115	Acceptable			
THCVA	0.00999	0.01	%	99.9	85 - 115	Acceptable			
CBN	0.0103	0.01	%	103	85 - 115	Acceptable			
THC	0.00977	0.01	%	97.7	85 - 115	Acceptable			
D8THC	0.0102	0.01	%	102	85 - 115	Acceptable			
CBL	0.0101	0.01	%	101	85 - 115	Acceptable			
CBC	0.0105	0.01	%	105	85 - 115	Acceptable			
THCA	0.0103	0.01	%	103	85 - 115	Acceptable			
CBCA	0.0102	0.01	%	102	85 - 115	Acceptable			

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDV-A	ND	0.003	%	< 0.003	Acceptable	
CBDV	ND	0.003	%	< 0.003	Acceptable	
CBD-A	ND	0.003	%	< 0.003	Acceptable	
CBG-A	ND	0.003	%	< 0.003	Acceptable	
CBG	ND	0.003	%	< 0.003	Acceptable	
CBD	ND	0.003	%	< 0.003	Acceptable	
THCV	ND	0.003	%	< 0.003	Acceptable	
THCVA	ND	0.003	%	< 0.003	Acceptable	
CBN	ND	0.003	%	< 0.003	Acceptable	
THC	ND	0.003	%	< 0.003	Acceptable	
D8THC	ND	0.003	%	< 0.003	Acceptable	
CBL	ND	0.003	%	< 0.003	Acceptable	
CBC	ND	0.003	%	< 0.003	Acceptable	
THCA	ND	0.003	%	< 0.003	Acceptable	
CBCA	ND	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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J AOAC 2015 V98-6		Batch ID: 1904256						
Sample Duplicate		Sample ID: 19-005117-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDV-A	ND	ND	0.003	%	0	< 20	Acceptable	
CBDV	ND	ND	0.003	%	0	< 20	Acceptable	
CBD-A	ND	ND	0.003	%	0	< 20	Acceptable	
CBG-A	ND	ND	0.003	%	0	< 20	Acceptable	
CBG	ND	ND	0.003	%	0	< 20	Acceptable	
CBD	0.0510	0.0517	0.003	%	1.36	< 20	Acceptable	
THCV	ND	ND	0.003	%	0	< 20	Acceptable	
THCVA	ND	ND	0.003	%	0	< 20	Acceptable	
CBN	ND	ND	0.003	%	0	< 20	Acceptable	
THC	ND	ND	0.003	%	0	< 20	Acceptable	
D8THC	ND	ND	0.003	%	0	< 20	Acceptable	
CBL	ND	ND	0.003	%	0	< 20	Acceptable	
CBC	ND	ND	0.003	%	0	< 20	Acceptable	
THCA	ND	ND	0.003	%	0	< 20	Acceptable	
CBCA	ND	ND	0.003	%	0	< 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.