



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



Job Number: 19-001344
Report Number: 19-001344-00
Report Date: 02/13/2019
ORELAP#: OR100028
Purchase Order:
Received: 02/07/19 16:15

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

Product identity: Hazelnut & Sea Salt Batch 19031H-B **Client/Metric ID:**
Laboratory ID: 19-001344-0002 **Sample Date:**

Summary

Potency:

Analyte per 55.9g	Result	Limits	Units	LOQ	
CBD per 55.9g	96.1		mg/55.9g	1.86	CBD-Total per 55.9g 108 mg/55.9g
CBD-A per 55.9g	13.9		mg/55.9g	1.86	THC-Total per 55.9g < 3.499 mg/55.9
(Reported in milligrams per serving)					

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 Pixis 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 kept a maximum of 15 days from the report date unless prior arrangements have been made.



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

Product identity: Hazelnut & Sea Salt Batch 19031H-B

Client/Metric ID: .

Sample Date:

Laboratory ID: 19-001344-0002

Relinquished by: Tait Christensen

Temp: 17.8 °C

Weight Received: 55.9 g

Serving Size #1: 55.9 g

Sample Results

Potency per 55.9g		Batch: 1901255					
Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBC per 55.9g†	< LOQ		mg/55.9g	1.86	02/12/19	J AOAC 2015 V98-6	
CBC-A per 55.9g†	< LOQ		mg/55.9g	1.86	02/12/19	J AOAC 2015 V98-6	
CBC-Total per 55.9g†	< LOQ		mg/55.9g	3.50	02/12/19	J AOAC 2015 V98-6	
CBD per 55.9g	96.1		mg/55.9g	1.86	02/12/19	J AOAC 2015 V98-6	
CBD-A per 55.9g	13.9		mg/55.9g	1.86	02/12/19	J AOAC 2015 V98-6	
CBD-Total per 55.9g	108		mg/55.9g	3.50	02/12/19	J AOAC 2015 V98-6	
CBDV per 55.9g†	< LOQ		mg/55.9g	1.86	02/12/19	J AOAC 2015 V98-6	
CBDV-A per 55.9g†	< LOQ		mg/55.9g	1.86	02/12/19	J AOAC 2015 V98-6	
CBDV-Total per 55.9g†	< LOQ		mg/55.9g	3.48	02/12/19	J AOAC 2015 V98-6	
CBG per 55.9g†	< LOQ		mg/55.9g	1.86	02/12/19	J AOAC 2015 V98-6	
CBG-A per 55.9g†	< LOQ		mg/55.9g	1.86	02/12/19	J AOAC 2015 V98-6	
CBG-Total per 55.9g†	< LOQ		mg/55.9g	3.50	02/12/19	J AOAC 2015 V98-6	
CBL per 55.9g†	< LOQ		mg/55.9g	1.86	02/12/19	J AOAC 2015 V98-6	
CBN per 55.9g	< LOQ		mg/55.9g	1.86	02/12/19	J AOAC 2015 V98-6	
Δ8-THC per 55.9g†	< LOQ		mg/55.9g	1.86	02/12/19	J AOAC 2015 V98-6	
Δ9-THC per 55.9g	< LOQ		mg/55.9g	1.86	02/12/19	J AOAC 2015 V98-6	
THC-A per 55.9g	< LOQ		mg/55.9g	1.86	02/12/19	J AOAC 2015 V98-6	
THC-Total per 55.9g	< LOQ	5.00	mg/55.9g	3.50	02/12/19	J AOAC 2015 V98-6	
THCV per 55.9g†	< LOQ		mg/55.9g	1.86	02/12/19	J AOAC 2015 V98-6	
THCV-A per 55.9g†	< LOQ		mg/55.9g	1.86	02/12/19	J AOAC 2015 V98-6	
THCV-Total per 55.9g†	< LOQ		mg/55.9g	3.48	02/12/19	J AOAC 2015 V98-6	



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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.

Units of Measure

g = Gram

mg/55.9g = Milligram per 55.9g

% = Percentage of sample

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

Approved Signatory

Derrick Tanner
General Manager



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Laboratory Quality Control Results

J AOAC 2015 V98-6		Batch ID: 1901255						
Laboratory Control Sample								
Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes	
CBDV-A	0.00897	0.01	%	89.7	85 - 115	Acceptable		
CBDV	0.00957	0.01	%	95.7	85 - 115	Acceptable		
CBD-A	0.00882	0.01	%	88.2	85 - 115	Acceptable		
CBG-A	0.00910	0.01	%	91.0	85 - 115	Acceptable		
CBG	0.0102	0.01	%	102	85 - 115	Acceptable		
CBD	0.00876	0.01	%	87.6	85 - 115	Acceptable		
THCV	0.00958	0.01	%	95.8	85 - 115	Acceptable		
THCVA	0.00886	0.01	%	88.6	85 - 115	Acceptable		
CBN	0.00988	0.01	%	98.8	85 - 115	Acceptable		
THC	0.00949	0.01	%	94.9	85 - 115	Acceptable		
D8THC	0.00938	0.01	%	93.8	85 - 115	Acceptable		
CBL	0.00903	0.01	%	90.3	85 - 115	Acceptable		
CBC	0.0101	0.01	%	101	85 - 115	Acceptable		
THCA	0.00927	0.01	%	92.7	85 - 115	Acceptable		
CBCA	0.00854	0.01	%	85.4	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: 1901255						
Sample Duplicate		Sample ID: 19-001322-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDV-A	ND	ND	0.003	%	0	< 20	Acceptable	
CBDV	0.00329	0.00331	0.003	%	0.606	< 20	Acceptable	
CBD-A	ND	ND	0.003	%	0	< 20	Acceptable	
CBG-A	ND	ND	0.003	%	0	< 20	Acceptable	
CBG	0.00786	0.00775	0.003	%	1.41	< 20	Acceptable	
CBD	0.426	0.420	0.003	%	1.42	< 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	0.0241	0.0238	0.003	%	1.25	< 20	Acceptable	
D8THC	ND	ND	0.003	%	0	< 20	Acceptable	
CBL	ND	ND	0.003	%	0	< 20	Acceptable	
CBC	0.0233	0.0230	0.003	%	1.30	< 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.