



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



**Job Number:** 19-001346  
**Report Number:** 19-001346-00  
**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      **Client/Metric ID:** .  
**Laboratory ID:** 19-001346-0002      **Sample Date:** 02/07/19

### Summary

**Potency:**

Analyte per 17.7g	Result	Limits	Units	LOQ	
CBD per 17.7g	30.8		mg/17.7g	0.590	CBD-Total per 17.7g      34.2 mg/17.7g
CBD-A per 17.7g	3.82		mg/17.7g	0.590	THC-Total per 17.7g      < 1.108 mg/17.7
(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

**Client/Metric ID:** .

**Sample Date:** 02/07/19

**Laboratory ID:** 19-001346-0002

**Relinquished by:** Tait Christensen

**Temp:** 17.8 °C

**Weight Received:** 17.7 g

**Serving Size #1:** 17.7 g

### Sample Results

Potency per 17.7g		Batch: 1901255					
Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBC per 17.7g†	< LOQ		mg/17.7g	0.590	02/12/19	J AOAC 2015 V98-6	
CBC-A per 17.7g†	< LOQ		mg/17.7g	0.590	02/12/19	J AOAC 2015 V98-6	
CBC-Total per 17.7g†	< LOQ		mg/17.7g	1.11	02/12/19	J AOAC 2015 V98-6	
CBD per 17.7g	30.8		mg/17.7g	0.590	02/12/19	J AOAC 2015 V98-6	
CBD-A per 17.7g	3.82		mg/17.7g	0.590	02/12/19	J AOAC 2015 V98-6	
CBD-Total per 17.7g	34.2		mg/17.7g	1.11	02/12/19	J AOAC 2015 V98-6	
CBDV per 17.7g†	< LOQ		mg/17.7g	0.590	02/12/19	J AOAC 2015 V98-6	
CBDV-A per 17.7g†	< LOQ		mg/17.7g	0.590	02/12/19	J AOAC 2015 V98-6	
CBDV-Total per 17.7g†	< LOQ		mg/17.7g	1.10	02/12/19	J AOAC 2015 V98-6	
CBG per 17.7g†	< LOQ		mg/17.7g	0.590	02/12/19	J AOAC 2015 V98-6	
CBG-A per 17.7g†	< LOQ		mg/17.7g	0.590	02/12/19	J AOAC 2015 V98-6	
CBG-Total per 17.7g†	< LOQ		mg/17.7g	1.11	02/12/19	J AOAC 2015 V98-6	
CBL per 17.7g†	< LOQ		mg/17.7g	0.590	02/12/19	J AOAC 2015 V98-6	
CBN per 17.7g	< LOQ		mg/17.7g	0.590	02/12/19	J AOAC 2015 V98-6	
Δ8-THC per 17.7g†	< LOQ		mg/17.7g	0.590	02/12/19	J AOAC 2015 V98-6	
Δ9-THC per 17.7g	< LOQ		mg/17.7g	0.590	02/12/19	J AOAC 2015 V98-6	
THC-A per 17.7g	< LOQ		mg/17.7g	0.590	02/12/19	J AOAC 2015 V98-6	
THC-Total per 17.7g	< LOQ	5.00	mg/17.7g	1.11	02/12/19	J AOAC 2015 V98-6	
THCV per 17.7g†	< LOQ		mg/17.7g	0.590	02/12/19	J AOAC 2015 V98-6	
THCV-A per 17.7g†	< LOQ		mg/17.7g	0.590	02/12/19	J AOAC 2015 V98-6	
THCV-Total per 17.7g†	< LOQ		mg/17.7g	1.10	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/17.7g = Milligram per 17.7g

% = 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.