



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 **Client/Metric ID:**
Laboratory ID: 19-001344-0001 **Sample Date:**

Summary

Potency:

Analyte per 50.9g	Result	Limits	Units	LOQ	
CBD per 50.9g	91.1		mg/50.9g	1.70	CBD-Total per 50.9g 101 mg/50.9g
CBD-A per 50.9g	11.4		mg/50.9g	1.70	THC-Total per 50.9g < 3.186 mg/50.9
(Reported in milligrams per serving)					



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

Product identity: Roasted Hazelnut & Sea Salt Batch 19031H

Client/Metric ID: .

Sample Date:

Laboratory ID: 19-001344-0001

Relinquished by: Tait Christensen

Temp: 17.8 °C

Weight Received: 50.5 g

Serving Size #1: 50.9 g

Sample Results

Potency per 50.9g		Batch: 1901255					
Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBC per 50.9g†	< LOQ		mg/50.9g	1.70	02/12/19	J AOAC 2015 V98-6	
CBC-A per 50.9g†	< LOQ		mg/50.9g	1.70	02/12/19	J AOAC 2015 V98-6	
CBC-Total per 50.9g†	< LOQ		mg/50.9g	3.19	02/12/19	J AOAC 2015 V98-6	
CBD per 50.9g	91.1		mg/50.9g	1.70	02/12/19	J AOAC 2015 V98-6	
CBD-A per 50.9g	11.4		mg/50.9g	1.70	02/12/19	J AOAC 2015 V98-6	
CBD-Total per 50.9g	101		mg/50.9g	3.19	02/12/19	J AOAC 2015 V98-6	
CBDV per 50.9g†	< LOQ		mg/50.9g	1.70	02/12/19	J AOAC 2015 V98-6	
CBDV-A per 50.9g†	< LOQ		mg/50.9g	1.70	02/12/19	J AOAC 2015 V98-6	
CBDV-Total per 50.9g†	< LOQ		mg/50.9g	3.17	02/12/19	J AOAC 2015 V98-6	
CBG per 50.9g†	< LOQ		mg/50.9g	1.70	02/12/19	J AOAC 2015 V98-6	
CBG-A per 50.9g†	< LOQ		mg/50.9g	1.70	02/12/19	J AOAC 2015 V98-6	
CBG-Total per 50.9g†	< LOQ		mg/50.9g	3.19	02/12/19	J AOAC 2015 V98-6	
CBL per 50.9g†	< LOQ		mg/50.9g	1.70	02/12/19	J AOAC 2015 V98-6	
CBN per 50.9g	< LOQ		mg/50.9g	1.70	02/12/19	J AOAC 2015 V98-6	
Δ8-THC per 50.9g†	< LOQ		mg/50.9g	1.70	02/12/19	J AOAC 2015 V98-6	
Δ9-THC per 50.9g	< LOQ		mg/50.9g	1.70	02/12/19	J AOAC 2015 V98-6	
THC-A per 50.9g	< LOQ		mg/50.9g	1.70	02/12/19	J AOAC 2015 V98-6	
THC-Total per 50.9g	< LOQ	5.00	mg/50.9g	3.19	02/12/19	J AOAC 2015 V98-6	
THCV per 50.9g†	< LOQ		mg/50.9g	1.70	02/12/19	J AOAC 2015 V98-6	
THCV-A per 50.9g†	< LOQ		mg/50.9g	1.70	02/12/19	J AOAC 2015 V98-6	
THCV-Total per 50.9g†	< LOQ		mg/50.9g	3.17	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/50.9g = Milligram per 50.9g

% = 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.



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Purchase Order:
Received: 02/07/19 16:15

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

Product identity: Combined: Roasted Hazelnut (19031H and 19031H-B)
Laboratory ID: 19-001344-0003

Summary

Microbiology:

Less than LOQ for all analytes.



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

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

Product identity: Combined: Roasted Hazelnut (19031H and 19031)

Client/Metric ID: .

Sample Date:

Laboratory ID: 19-001344-0003

Relinquished by: Tait Christensen

Temp: 17.8 °C

Sample Results

Microbiology								
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
E.coli	< LOQ		cfu/g	10	1901185	02/10/19	AOAC 991.14 (Petrifilm)	X
Total Coliforms	< LOQ		cfu/g	10	1901185	02/10/19	AOAC 991.14 (Petrifilm)	X
Mold	< LOQ		cfu/g	10	1901187	02/12/19	AOAC 997.02 (Petrifilm)	X
Yeast	< LOQ		cfu/g	10	1901187	02/12/19	AOAC 997.02 (Petrifilm)	X



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Abbreviations

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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

cfu/g = Colony forming units per gram

% 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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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.
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