



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

Product identity: Roasted Hazelnut & Sea Salt Batch 18316 **Client/Metric ID:** .
Laboratory ID: 18-010694-0003 **Sample Date:** 11/21/18

Summary

Potency:

Analyte per 53.93g	Result	Limits	Units	LOQ	
CBD per 53.93g	107		mg/53.93g	2.70	CBD-Total per 53.93g 109 mg/53.93g
					THC-Total per 53.93g < 0.009 mg/53.9
(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: Roasted Hazelnut & Sea Salt Batch 18316

Client/Metric ID: .

Sample Date: 11/21/18

Laboratory ID: 18-010694-0003

Temp: 19.6 °C

Relinquished by: Hendrik VanRensburg

Serving Size #1: 53.93 g

Sample Results

Potency per 53.93g		Batch: 1807460					
Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBC per 53.93g†	< LOQ		mg/53.93g	2.70	12/03/18	J AOAC 2015 V98-6	
CBC-A per 53.93g†	< LOQ		mg/53.93g	2.70	12/03/18	J AOAC 2015 V98-6	
CBC-Total per 53.93g†	< LOQ		mg/53.93g	5.06	12/03/18	J AOAC 2015 V98-6	
CBD per 53.93g	107		mg/53.93g	2.70	12/03/18	J AOAC 2015 V98-6	
CBD-A per 53.93g	< LOQ		mg/53.93g	2.70	12/03/18	J AOAC 2015 V98-6	
CBD-Total per 53.93g	109		mg/53.93g	5.06	12/03/18	J AOAC 2015 V98-6	
CBDV per 53.93g†	< LOQ		mg/53.93g	2.70	12/03/18	J AOAC 2015 V98-6	
CBDV-A per 53.93g†	< LOQ		mg/53.93g	2.70	12/03/18	J AOAC 2015 V98-6	
CBDV-Total per 53.93g†	< LOQ		mg/53.93g	5.03	12/03/18	J AOAC 2015 V98-6	
CBG per 53.93g†	< LOQ		mg/53.93g	2.70	12/03/18	J AOAC 2015 V98-6	
CBG-A per 53.93g†	< LOQ		mg/53.93g	2.70	12/03/18	J AOAC 2015 V98-6	
CBG-Total per 53.93g†	< LOQ		mg/53.93g	5.06	12/03/18	J AOAC 2015 V98-6	
CBL per 53.93g†	< LOQ		mg/53.93g	2.70	12/03/18	J AOAC 2015 V98-6	
CBN per 53.93g	< LOQ		mg/53.93g	2.70	12/03/18	J AOAC 2015 V98-6	
Δ8-THC per 53.93g†	< LOQ		mg/53.93g	2.70	12/03/18	J AOAC 2015 V98-6	
Δ9-THC per 53.93g	< LOQ		mg/53.93g	2.70	12/03/18	J AOAC 2015 V98-6	
THC-A per 53.93g	< LOQ		mg/53.93g	2.70	12/03/18	J AOAC 2015 V98-6	
THC-Total per 53.93g	< LOQ		mg/53.93g	5.06	12/03/18	J AOAC 2015 V98-6	
THCV per 53.93g†	< LOQ		mg/53.93g	2.70	12/03/18	J AOAC 2015 V98-6	
THCV-A per 53.93g†	< LOQ		mg/53.93g	2.70	12/03/18	J AOAC 2015 V98-6	
THCV-Total per 53.93g†	< LOQ		mg/53.93g	5.03	12/03/18	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	1807446	11/28/18	AOAC 991.14	
Total Coliforms	< LOQ		cfu/g	10	1807446	11/28/18	AOAC 991.14	
Mold	< LOQ		cfu/g	10	1807449	11/30/18	AOAC 997.02 (Petrifilm)	
Yeast	< LOQ		cfu/g	10	1807449	11/30/18	AOAC 997.02 (Petrifilm)	



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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

cfu/g = Colony forming units per gram

g = Gram

mg/53.93g = Milligram per 53.93g

% = 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: 1807460								
Laboratory Control Sample										
Analyte	Result	Spike	Units	% Rec	Limits			Evaluation	Notes	
CBDV-A	0.00982		0.01	%	98.2	85	-	115	Acceptable	
CBDV	0.0107		0.01	%	107	85	-	115	Acceptable	
CBD-A	0.00948		0.01	%	94.8	85	-	115	Acceptable	
CBG-A	0.00979		0.01	%	97.9	85	-	115	Acceptable	
CBG	0.0106		0.01	%	106	85	-	115	Acceptable	
CBD	0.00967		0.01	%	96.7	85	-	115	Acceptable	
THCV	0.0103		0.01	%	103	85	-	115	Acceptable	
THCVA	0.00968		0.01	%	96.8	85	-	115	Acceptable	
CBN	0.0104		0.01	%	104	85	-	115	Acceptable	
THC	0.00991		0.01	%	99.1	85	-	115	Acceptable	
D8THC	0.0101		0.01	%	101	85	-	115	Acceptable	
CBL	0.00979		0.01	%	97.9	85	-	115	Acceptable	
CBC	0.0111		0.01	%	111	85	-	115	Acceptable	
THCA	0.00949		0.01	%	94.9	85	-	115	Acceptable	
CBCA	0.00928		0.01	%	92.8	85	-	115	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits			Evaluation	Notes	
CBDV-A	ND	0.005	%	< 0.005			Acceptable		
CBDV	ND	0.005	%	< 0.005			Acceptable		
CBD-A	ND	0.005	%	< 0.005			Acceptable		
CBG-A	ND	0.005	%	< 0.005			Acceptable		
CBG	ND	0.005	%	< 0.005			Acceptable		
CBD	ND	0.005	%	< 0.005			Acceptable		
THCV	ND	0.005	%	< 0.005			Acceptable		
THCVA	ND	0.005	%	< 0.005			Acceptable		
CBN	ND	0.005	%	< 0.005			Acceptable		
THC	ND	0.005	%	< 0.005			Acceptable		
D8THC	ND	0.005	%	< 0.005			Acceptable		
CBL	ND	0.005	%	< 0.005			Acceptable		
CBC	ND	0.005	%	< 0.005			Acceptable		
THCA	ND	0.005	%	< 0.005			Acceptable		
CBCA	ND	0.005	%	< 0.005			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: 1807460						
Sample Duplicate		Sample ID: 18-010638-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDV-A	ND	ND	0.005	%	0	< 20	Acceptable	
CBDV	ND	ND	0.005	%	0	< 20	Acceptable	
CBD-A	ND	ND	0.005	%	0	< 20	Acceptable	
CBG-A	ND	ND	0.005	%	0	< 20	Acceptable	
CBG	ND	ND	0.005	%	0	< 20	Acceptable	
CBD	0.258	0.291	0.005	%	12.0	< 20	Acceptable	
THCV	ND	ND	0.005	%	0	< 20	Acceptable	
THCVA	ND	ND	0.005	%	0	< 20	Acceptable	
CBN	ND	ND	0.005	%	0	< 20	Acceptable	
THC	ND	ND	0.005	%	0	< 20	Acceptable	
D8THC	ND	ND	0.005	%	0	< 20	Acceptable	
CBL	ND	ND	0.005	%	0	< 20	Acceptable	
CBC	ND	ND	0.005	%	0	< 20	Acceptable	
THCA	ND	ND	0.005	%	0	< 20	Acceptable	
CBCA	ND	ND	0.005	%	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.