



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

**Product identity:** Hazelnut Large Bar Batch# 19097      **Client/Metric ID:** .  
**Laboratory ID:** 19-004637-0004      **Sample Date:** 04/26/19

**Summary**

**Potency:**

Analyte per 56.71g	Result	Limits	Units	LOQ	
CBD per 56.71g	95.3		mg/56.71g	1.89	CBD-Total per 56.71g 107 mg/56.71g
CBD-A per 56.71g	13.4		mg/56.71g	1.89	THC-Total per 56.71g < 3.550 mg/56.7
(Reported in milligrams per serving)					

**Microbiology:**

Less than LOQ for all analytes.



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

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

**Product identity:** Hazelnut Large Bar Batch# 19097

**Client/Metric ID:** .

**Sample Date:** 04/26/19

**Laboratory ID:** 19-004637-0004

**Relinquished by:** Tait Chistensen

**Temp:** 21.3 °C

**Serving Size #1:** 56.71 g

### Sample Results

Potency per 56.71g		Batch: 1903752					
Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBC per 56.71g†	< LOQ		mg/56.71g	1.89	04/30/19	J AOAC 2015 V98-6	
CBC-A per 56.71g†	< LOQ		mg/56.71g	1.89	04/30/19	J AOAC 2015 V98-6	
CBC-Total per 56.71g†	< LOQ		mg/56.71g	3.55	04/30/19	J AOAC 2015 V98-6	
CBD per 56.71g	95.3		mg/56.71g	1.89	04/30/19	J AOAC 2015 V98-6	
CBD-A per 56.71g	13.4		mg/56.71g	1.89	04/30/19	J AOAC 2015 V98-6	
CBD-Total per 56.71g	107		mg/56.71g	3.55	04/30/19	J AOAC 2015 V98-6	
CBDV per 56.71g†	< LOQ		mg/56.71g	1.89	04/30/19	J AOAC 2015 V98-6	
CBDV-A per 56.71g†	< LOQ		mg/56.71g	1.89	04/30/19	J AOAC 2015 V98-6	
CBDV-Total per 56.71g†	< LOQ		mg/56.71g	3.53	04/30/19	J AOAC 2015 V98-6	
CBG per 56.71g†	< LOQ		mg/56.71g	1.89	04/30/19	J AOAC 2015 V98-6	
CBG-A per 56.71g†	< LOQ		mg/56.71g	1.89	04/30/19	J AOAC 2015 V98-6	
CBG-Total per 56.71g†	< LOQ		mg/56.71g	3.55	04/30/19	J AOAC 2015 V98-6	
CBL per 56.71g†	< LOQ		mg/56.71g	1.89	04/30/19	J AOAC 2015 V98-6	
CBN per 56.71g	< LOQ		mg/56.71g	1.89	04/30/19	J AOAC 2015 V98-6	
Δ8-THC per 56.71g†	< LOQ		mg/56.71g	1.89	04/30/19	J AOAC 2015 V98-6	
Δ9-THC per 56.71g	< LOQ		mg/56.71g	1.89	04/30/19	J AOAC 2015 V98-6	
THC-A per 56.71g	< LOQ		mg/56.71g	1.89	04/30/19	J AOAC 2015 V98-6	
THC-Total per 56.71g	< LOQ		mg/56.71g	3.55	04/30/19	J AOAC 2015 V98-6	
THCV per 56.71g†	< LOQ		mg/56.71g	1.89	04/30/19	J AOAC 2015 V98-6	
THCV-A per 56.71g†	< LOQ		mg/56.71g	1.89	04/30/19	J AOAC 2015 V98-6	
THCV-Total per 56.71g†	< LOQ		mg/56.71g	3.53	04/30/19	J AOAC 2015 V98-6	



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

Microbiology								
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
E.coli	< LOQ		cfu/g	10	1903607	04/28/19	AOAC 991.14 (Petrifilm)	X
Total Coliforms	< LOQ		cfu/g	10	1903607	04/28/19	AOAC 991.14 (Petrifilm)	X
Mold	< LOQ		cfu/g	10	1903606	04/28/19	AOAC 2014.05 (RAPID)	X
Yeast	< LOQ		cfu/g	10	1903606	04/28/19	AOAC 2014.05 (RAPID)	X



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

---

**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/56.71g = Milligram per 56.71g

% = 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



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

**Laboratory Quality Control Results**

**J AOAC 2015 V98-6** **Batch ID: 1903752**

Laboratory Control Sample								
Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes	
CBDV-A	0.00896	0.01	%	89.6	85 - 115	Acceptable		
CBDV	0.00923	0.01	%	92.3	85 - 115	Acceptable		
CBD-A	0.00890	0.01	%	89.0	85 - 115	Acceptable		
CBG-A	0.00898	0.01	%	89.8	85 - 115	Acceptable		
CBG	0.00949	0.01	%	94.9	85 - 115	Acceptable		
CBD	0.00893	0.01	%	89.3	85 - 115	Acceptable		
THCV	0.00925	0.01	%	92.5	85 - 115	Acceptable		
THCVA	0.00897	0.01	%	89.7	85 - 115	Acceptable		
CBN	0.00973	0.01	%	97.3	85 - 115	Acceptable		
THC	0.00919	0.01	%	91.9	85 - 115	Acceptable		
D8THC	0.00887	0.01	%	88.7	85 - 115	Acceptable		
CBL	0.00906	0.01	%	90.6	85 - 115	Acceptable		
CBC	0.00978	0.01	%	97.8	85 - 115	Acceptable		
THCA	0.00910	0.01	%	91.0	85 - 115	Acceptable		
CBCA	0.00882	0.01	%	88.2	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



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

J AOAC 2015 V98-6		Batch ID: 1903752						
Sample Duplicate		Sample ID: 19-004457-0001						
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	0.197	0.204	0.003	%	3.49	< 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	0.00520	0.00556	0.003	%	6.69	< 20	Acceptable	
D8THC	ND	ND	0.003	%	0	< 20	Acceptable	
CBL	ND	ND	0.003	%	0	< 20	Acceptable	
CBC	0.00583	0.00604	0.003	%	3.54	< 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



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

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.