



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

**Product identity:** Dark Toasted Quinoa Crunch Batch 18315 **Client/Metric ID:** .  
**Laboratory ID:** 18-010694-0002 **Sample Date:** 11/21/18

**Summary**

**Potency:**

Analyte per 51.26g	Result	Limits	Units	LOQ	
CBD per 51.26g	109		mg/51.26g	2.56	CBD-Total per 51.26g 112 mg/51.26g
CBD-A per 51.26g	3.57		mg/51.26g	2.56	THC-Total per 51.26g < 0.009 mg/51.2
(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:** Dark Toasted Quinoa Crunch Batch 18315

**Client/Metric ID:** .

**Sample Date:** 11/21/18

**Laboratory ID:** 18-010694-0002

**Temp:** 19.6 °C

**Relinquished by:** Hendrik VanRensburg

**Serving Size #1:** 51.26 g

### Sample Results

Potency per 51.26g		Batch: 1807460					
Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBC per 51.26g†	< LOQ		mg/51.26g	2.56	12/03/18	J AOAC 2015 V98-6	
CBC-A per 51.26g†	< LOQ		mg/51.26g	2.56	12/03/18	J AOAC 2015 V98-6	
CBC-Total per 51.26g†	< LOQ		mg/51.26g	4.81	12/03/18	J AOAC 2015 V98-6	
CBD per 51.26g	109		mg/51.26g	2.56	12/03/18	J AOAC 2015 V98-6	
CBD-A per 51.26g	3.57		mg/51.26g	2.56	12/03/18	J AOAC 2015 V98-6	
CBD-Total per 51.26g	112		mg/51.26g	4.81	12/03/18	J AOAC 2015 V98-6	
CBDV per 51.26g†	< LOQ		mg/51.26g	2.56	12/03/18	J AOAC 2015 V98-6	
CBDV-A per 51.26g†	< LOQ		mg/51.26g	2.56	12/03/18	J AOAC 2015 V98-6	
CBDV-Total per 51.26g†	< LOQ		mg/51.26g	4.78	12/03/18	J AOAC 2015 V98-6	
CBG per 51.26g†	< LOQ		mg/51.26g	2.56	12/03/18	J AOAC 2015 V98-6	
CBG-A per 51.26g†	< LOQ		mg/51.26g	2.56	12/03/18	J AOAC 2015 V98-6	
CBG-Total per 51.26g†	< LOQ		mg/51.26g	4.81	12/03/18	J AOAC 2015 V98-6	
CBL per 51.26g†	< LOQ		mg/51.26g	2.56	12/03/18	J AOAC 2015 V98-6	
CBN per 51.26g	< LOQ		mg/51.26g	2.56	12/03/18	J AOAC 2015 V98-6	
Δ8-THC per 51.26g†	< LOQ		mg/51.26g	2.56	12/03/18	J AOAC 2015 V98-6	
Δ9-THC per 51.26g	< LOQ		mg/51.26g	2.56	12/03/18	J AOAC 2015 V98-6	
THC-A per 51.26g	< LOQ		mg/51.26g	2.56	12/03/18	J AOAC 2015 V98-6	
THC-Total per 51.26g	< LOQ		mg/51.26g	4.81	12/03/18	J AOAC 2015 V98-6	
THCV per 51.26g†	< LOQ		mg/51.26g	2.56	12/03/18	J AOAC 2015 V98-6	
THCV-A per 51.26g†	< LOQ		mg/51.26g	2.56	12/03/18	J AOAC 2015 V98-6	
THCV-Total per 51.26g†	< LOQ		mg/51.26g	4.78	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/51.26g = Milligram per 51.26g

% = Percentage of sample

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

Approved Signatory

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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.