



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

**Product identity:** Classic Dark Large Bar Batch 19044c **Client/Metric ID:** .  
**Laboratory ID:** 19-001843-0001 **Sample Date:** 02/21/19

**Summary**

**Potency:**

Analyte per 48.55g	Result	Limits	Units	LOQ	
CBD per 48.55g	106		mg/48.55g	1.62	CBD-Total per 48.55g 119 mg/48.55g
CBD-A per 48.55g	14.5		mg/48.55g	1.62	THC-Total per 48.55g < 3.039 mg/48.5
(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:** CBD Classic Dark Large Bar - Batch 19044c

**Client/Metric ID:** .

**Sample Date:** 02/21/19

**Laboratory ID:** 19-001843-0001

**Relinquished by:** Tait Christensen

**Temp:** 15.6 °C

**Serving Size #1:** 48.55 g

### Sample Results

Potency per 48.55g		Batch: 1901629					
Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBC per 48.55g†	< LOQ		mg/48.55g	1.62	02/25/19	J AOAC 2015 V98-6	
CBC-A per 48.55g†	< LOQ		mg/48.55g	1.62	02/25/19	J AOAC 2015 V98-6	
CBC-Total per 48.55g†	< LOQ		mg/48.55g	3.04	02/25/19	J AOAC 2015 V98-6	
CBD per 48.55g	106		mg/48.55g	1.62	02/25/19	J AOAC 2015 V98-6	
CBD-A per 48.55g	14.5		mg/48.55g	1.62	02/25/19	J AOAC 2015 V98-6	
CBD-Total per 48.55g	119		mg/48.55g	3.04	02/25/19	J AOAC 2015 V98-6	
CBDV per 48.55g†	< LOQ		mg/48.55g	1.62	02/25/19	J AOAC 2015 V98-6	
CBDV-A per 48.55g†	< LOQ		mg/48.55g	1.62	02/25/19	J AOAC 2015 V98-6	
CBDV-Total per 48.55g†	< LOQ		mg/48.55g	3.02	02/25/19	J AOAC 2015 V98-6	
CBG per 48.55g†	< LOQ		mg/48.55g	1.62	02/25/19	J AOAC 2015 V98-6	
CBG-A per 48.55g†	< LOQ		mg/48.55g	1.62	02/25/19	J AOAC 2015 V98-6	
CBG-Total per 48.55g†	< LOQ		mg/48.55g	3.04	02/25/19	J AOAC 2015 V98-6	
CBL per 48.55g†	< LOQ		mg/48.55g	1.62	02/25/19	J AOAC 2015 V98-6	
CBN per 48.55g	< LOQ		mg/48.55g	1.62	02/25/19	J AOAC 2015 V98-6	
Δ8-THC per 48.55g†	< LOQ		mg/48.55g	1.62	02/25/19	J AOAC 2015 V98-6	
Δ9-THC per 48.55g	< LOQ		mg/48.55g	1.62	02/25/19	J AOAC 2015 V98-6	
THC-A per 48.55g	< LOQ		mg/48.55g	1.62	02/25/19	J AOAC 2015 V98-6	
THC-Total per 48.55g	< LOQ		mg/48.55g	3.04	02/25/19	J AOAC 2015 V98-6	
THCV per 48.55g†	< LOQ		mg/48.55g	1.62	02/25/19	J AOAC 2015 V98-6	
THCV-A per 48.55g†	< LOQ		mg/48.55g	1.62	02/25/19	J AOAC 2015 V98-6	
THCV-Total per 48.55g†	< LOQ		mg/48.55g	3.02	02/25/19	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/48.55g = Milligram per 48.55g

% = 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: 1901629**

Laboratory Control Sample								
Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes	
CBDV-A	0.0104	0.01	%	104	85 - 115	Acceptable		
CBDV	0.0109	0.01	%	109	85 - 115	Acceptable		
CBD-A	0.0103	0.01	%	103	85 - 115	Acceptable		
CBG-A	0.0104	0.01	%	104	85 - 115	Acceptable		
CBG	0.0111	0.01	%	111	85 - 115	Acceptable		
CBD	0.0110	0.01	%	110	85 - 115	Acceptable		
THCV	0.0108	0.01	%	108	85 - 115	Acceptable		
THCVA	0.0105	0.01	%	105	85 - 115	Acceptable		
CBN	0.0110	0.01	%	110	85 - 115	Acceptable		
THC	0.0108	0.01	%	108	85 - 115	Acceptable		
D8THC	0.0107	0.01	%	107	85 - 115	Acceptable		
CBL	0.0109	0.01	%	109	85 - 115	Acceptable		
CBC	0.0113	0.01	%	113	85 - 115	Acceptable		
THCA	0.0103	0.01	%	103	85 - 115	Acceptable		
CBCA	0.0102	0.01	%	102	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: 1901629						
Sample Duplicate		Sample ID: 19-001642-0001						
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	0.00386	0.00401	0.003	%	3.81	< 20	Acceptable	
CBG-A	ND	ND	0.003	%	0	< 20	Acceptable	
CBG	0.00828	0.00836	0.003	%	0.962	< 20	Acceptable	
CBD	0.172	0.174	0.003	%	1.16	< 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	0.107	0.108	0.003	%	0.930	< 20	Acceptable	
D8THC	ND	ND	0.003	%	0	< 20	Acceptable	
CBL	ND	ND	0.003	%	0	< 20	Acceptable	
CBC	0.0119	0.0121	0.003	%	1.67	< 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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**Customer:** Sovereign Medicinals Inc  
4207 SE Woodstock Blvd #507  
Portland Oregon 97206  
United States

**Product identity:** Combined: Classic Dark (19044c) and Quinoa Crunch (19044q)  
**Client/Metric ID:** .  
**Sample Date:** 02/21/19 09:40  
**Laboratory ID:** 19-001843-0003  
**Relinquished by:** Tait Christensen  
**Temp:** 15.6 °C

### Sample Results

Microbiology								
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
E.coli	< LOQ		cfu/g	10	1901488	02/23/19	AOAC 991.14 (Petrifilm)	X
Total Coliforms	< LOQ		cfu/g	10	1901488	02/23/19	AOAC 991.14 (Petrifilm)	X
Mold	< LOQ		cfu/g	10	1901489	02/26/19	AOAC 997.02 (Petrifilm)	X
Yeast	< LOQ		cfu/g	10	1901489	02/26/19	AOAC 997.02 (Petrifilm)	X



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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.

**Glossary of Qualifiers**

**Glossary of Qualifiers**

X: Not ORELAP accredited.

**Units of Measure**

cfu/g = Colony forming units per gram

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

Approved Signatory

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Derrick Tanner  
General Manager





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Explanation of QC Flag Comments:

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Q5	Spike results above calibration curve.
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R	Relative percent difference (RPD) outside control limit.
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