



This is an amended version of the report distributed 09/14/2017
Reason: Potency calculations adjusted to reflect the client's updated serving size.

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

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

Product identity: 17-001782-0006_Chocolate - Crunch - Large
Client/Metric ID: .
Sample Date:
Laboratory ID: 17-001782-0006
Relinquished by: Hendrik Vanrensburg
Temp: 24.3 °C
Serving Size: 5.00 g

Sample Results

Potency		Batch: 1701816					
Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBD per serving	9.90	5.00	mg/serving	0.250	09/20/17	J AOAC 2015 V98-6	
CBD-A per serving	< LOQ	5.00	mg/serving	0.250	09/14/17	J AOAC 2015 V98-6	
CBD-Total per serving	9.90	5.00	mg/serving	0.250	09/20/17	J AOAC 2015 V98-6	
CBN per serving	< LOQ	5.00	mg/serving	0.250	09/14/17	J AOAC 2015 V98-6	
THC per serving	< LOQ	5.00	mg/serving	0.250	09/14/17	J AOAC 2015 V98-6	
THC-A per serving	< LOQ	5.00	mg/serving	0.250	09/14/17	J AOAC 2015 V98-6	
THC-Total per serving	< LOQ	5.00	mg/serving	0.250	09/14/17	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/serving = Milligram per serving

% 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: 1701816**

Laboratory Control Sample

Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBD-A	0.0109	0.01	%	109	80 - 120	Acceptable	
CBD	0.00985	0.01	%	98.5	80 - 120	Acceptable	
CBN	0.00978	0.01	%	97.8	80 - 120	Acceptable	
THC	0.00978	0.01	%	97.8	80 - 120	Acceptable	
THC-A	0.00978	0.01	%	97.8	80 - 120	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBD	ND	0.005	%	< 0.005	Acceptable	
CBD-A	ND	0.005	%	< 0.005	Acceptable	
CBN	ND	0.005	%	< 0.005	Acceptable	
THC	ND	0.005	%	< 0.005	Acceptable	
THC-A	ND	0.005	%	< 0.005	Acceptable	

Sample Duplicate

Sample ID: 17-001756-0001

Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBD-A	ND	ND	0.005	%	0	< 20	Acceptable	
CBD	ND	ND	0.005	%	0	< 20	Acceptable	
CBN	0.00991	0.0103	0.005	%	3.86	< 20	Acceptable	
THC	0.774	0.779	0.005	%	0.644	< 20	Acceptable	
THC-A	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
mg/Kg - Milligrams per Kilogram



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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.