



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

Product identity: Hazelnut Mini Bar Batch# 19106 **Client/Metric ID:** .
Laboratory ID: 19-004637-0002 **Sample Date:** 04/26/19

Summary

Potency:

| Analyte per 18.17g | Result | Limits | Units | LOQ | |
|--------------------------------------|--------|--------|-----------|-------|--------------------------------------|
| CBD per 18.17g | 29.3 | | mg/18.17g | 0.606 | CBD-Total per 18.17g 32.8 mg/18.17g |
| CBD-A per 18.17g | 4.07 | | mg/18.17g | 0.606 | THC-Total per 18.17g < 1.137 mg/18.1 |
| (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: Hazelnut Mini Bar Batch# 19106

Client/Metric ID: .

Sample Date: 04/26/19

Laboratory ID: 19-004637-0002

Relinquished by: Tait Chistensen

Temp: 21.3 °C

Serving Size #1: 18.17 g

Sample Results

| Potency per 18.17g | | Batch: 1903752 | | | | | |
|------------------------|--------|----------------|-----------|-------|----------|-------------------|-------|
| Analyte | Result | Limits | Units | LOQ | Analyze | Method | Notes |
| CBC per 18.17g† | < LOQ | | mg/18.17g | 0.606 | 04/30/19 | J AOAC 2015 V98-6 | |
| CBC-A per 18.17g† | < LOQ | | mg/18.17g | 0.606 | 04/30/19 | J AOAC 2015 V98-6 | |
| CBC-Total per 18.17g† | < LOQ | | mg/18.17g | 1.14 | 04/30/19 | J AOAC 2015 V98-6 | |
| CBD per 18.17g | 29.3 | | mg/18.17g | 0.606 | 04/30/19 | J AOAC 2015 V98-6 | |
| CBD-A per 18.17g | 4.07 | | mg/18.17g | 0.606 | 04/30/19 | J AOAC 2015 V98-6 | |
| CBD-Total per 18.17g | 32.8 | | mg/18.17g | 1.14 | 04/30/19 | J AOAC 2015 V98-6 | |
| CBDV per 18.17g† | < LOQ | | mg/18.17g | 0.606 | 04/30/19 | J AOAC 2015 V98-6 | |
| CBDV-A per 18.17g† | < LOQ | | mg/18.17g | 0.606 | 04/30/19 | J AOAC 2015 V98-6 | |
| CBDV-Total per 18.17g† | < LOQ | | mg/18.17g | 1.13 | 04/30/19 | J AOAC 2015 V98-6 | |
| CBG per 18.17g† | < LOQ | | mg/18.17g | 0.606 | 04/30/19 | J AOAC 2015 V98-6 | |
| CBG-A per 18.17g† | < LOQ | | mg/18.17g | 0.606 | 04/30/19 | J AOAC 2015 V98-6 | |
| CBG-Total per 18.17g† | < LOQ | | mg/18.17g | 1.14 | 04/30/19 | J AOAC 2015 V98-6 | |
| CBL per 18.17g† | < LOQ | | mg/18.17g | 0.606 | 04/30/19 | J AOAC 2015 V98-6 | |
| CBN per 18.17g | < LOQ | | mg/18.17g | 0.606 | 04/30/19 | J AOAC 2015 V98-6 | |
| Δ8-THC per 18.17g† | < LOQ | | mg/18.17g | 0.606 | 04/30/19 | J AOAC 2015 V98-6 | |
| Δ9-THC per 18.17g | < LOQ | | mg/18.17g | 0.606 | 04/30/19 | J AOAC 2015 V98-6 | |
| THC-A per 18.17g | < LOQ | | mg/18.17g | 0.606 | 04/30/19 | J AOAC 2015 V98-6 | |
| THC-Total per 18.17g | < LOQ | | mg/18.17g | 1.14 | 04/30/19 | J AOAC 2015 V98-6 | |
| THCV per 18.17g† | < LOQ | | mg/18.17g | 0.606 | 04/30/19 | J AOAC 2015 V98-6 | |
| THCV-A per 18.17g† | < LOQ | | mg/18.17g | 0.606 | 04/30/19 | J AOAC 2015 V98-6 | |
| THCV-Total per 18.17g† | < LOQ | | mg/18.17g | 1.13 | 04/30/19 | 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 | 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 |



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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.

† = Analyte not NELAP accredited.

Units of Measure

cfu/g = Colony forming units per gram

g = Gram

mg/18.17g = Milligram per 18.17g

% = 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



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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



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| 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



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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. |