



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794



Report Number: 23-012793/D002.R000
Report Date: 11/02/2023
ORELAP#: OR100028
Purchase Order:
Received: 10/27/23 15:59

Customer: Healthy Roots
Product identity: #295 200 MG Pet Tincture
Client/Metric ID: .
Laboratory ID: 23-012793-0001

Summary

Potency:

| Analyte | Result | Limits | Units | Status | CBD-Total per Serving Size 209 mg/28.5g |
|-------------------|---------|--------|----------|--------|--|
| CBC | 0.0471 | | % | | |
| CBD | 0.734 | | % | | |
| CBDV | 0.00824 | | % | | THC-Total per Serving Size 6.98 mg/28.5g |
| CBE | 0.0119 | | % | | |
| CBG | 0.00829 | | % | | (Reported in milligrams per serving) |
| CBN | 0.00484 | | % | | |
| CBT | 0.00950 | | % | | |
| Δ8-THC | 0.00749 | | % | | |
| Δ9-THC | 0.0245 | | % | | |
| Analyte per 28.5g | Result | Limits | Units | Status | |
| CBC per 28.5g | 13.4 | | mg/28.5g | | |
| CBD per 28.5g | 209 | | mg/28.5g | | |
| CBDV per 28.5g | 2.35 | | mg/28.5g | | |
| CBE per 28.5g | 3.39 | | mg/28.5g | | |
| CBG per 28.5g | 2.36 | | mg/28.5g | | |
| CBN per 28.5g | 1.38 | | mg/28.5g | | |
| CBT per 28.5g | 2.71 | | mg/28.5g | | |
| Δ8-THC per 28.5g | 2.13 | | mg/28.5g | | |
| Δ9-THC per 28.5g | 6.98 | | mg/28.5g | | |



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Customer: Healthy Roots
Product identity: #295 200 MG Pet Tincture
Client/Metric ID: .
Sample Date:
Laboratory ID: 23-012793-0001
Evidence of Cooling: No
Temp: 25.3 °C
Relinquished by: Client
Serving Size #1: 28.5 g

Sample Results

| Potency | Method: J AOAC 2015 V98-6 (mod) ^b | | Units % | Batch: 2312369 | Analyze: 10/31/23 2:14:00 AM |
|---------------------------|--|--------|---------|----------------|------------------------------|
| Analyte | Result | Limits | Units | LOQ | Notes |
| CBC | 0.0471 | | % | 0.00316 | |
| CBC-A | < LOQ | | % | 0.00316 | |
| CBC-Total | 0.0471 | | % | 0.00594 | |
| CBD | 0.734 | | % | 0.00316 | |
| CBD-A | < LOQ | | % | 0.00316 | |
| CBD-Total | 0.734 | | % | 0.00594 | |
| CBDV | 0.00824 | | % | 0.00316 | |
| CBDV-A | < LOQ | | % | 0.00316 | |
| CBDV-Total | 0.00824 | | % | 0.00591 | |
| CBE | 0.0119 | | % | 0.00316 | |
| CBG | 0.00829 | | % | 0.00316 | |
| CBG-A | < LOQ | | % | 0.00316 | |
| CBG-Total | 0.00829 | | % | 0.00591 | |
| CBL | < LOQ | | % | 0.00316 | |
| CBL-A | < LOQ | | % | 0.00316 | |
| CBL-Total | < LOQ | | % | 0.00594 | |
| CBN | 0.00484 | | % | 0.00316 | |
| CBT | 0.00950 | | % | 0.00316 | |
| Δ8-THCV | < LOQ | | % | 0.00316 | |
| Δ10-THC-9R | < LOQ | | % | 0.00316 | |
| Δ10-THC-9S | < LOQ | | % | 0.00316 | |
| Δ10-THC-Total | < LOQ | | % | 0.00633 | |
| Δ8-THC | 0.00749 | | % | 0.00316 | |
| Δ9-THC | 0.0245 | | % | 0.00316 | |
| delta-9-THCP | < LOQ | | % | 0.00316 | |
| exo-THC | < LOQ | | % | 0.00316 | |
| THC-A | < LOQ | | % | 0.00316 | |
| THC-Total | 0.0245 | | % | 0.00594 | |
| THCV | < LOQ | | % | 0.00316 | |
| THCV-A | < LOQ | | % | 0.00316 | |
| THCV-Total | < LOQ | | % | 0.00591 | |
| Total Cannabinoids | 0.856 | | % | | |



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Potency per 28.5g **Method:** J AOAC 2015 V98-6 (mod)^b **Units** mg/se **Batch:** 2312369 **Analyze:** 10/31/23 2:14:00 AM

| Analyte | Result | Limits | Units | LOQ | Notes |
|------------------------------|--------|--------|----------|-------|-------|
| CBC per 28.5g | 13.4 | | mg/28.5g | 0.902 | |
| CBC-A per 28.5g | < LOQ | | mg/28.5g | 0.902 | |
| CBC-Total per 28.5g | 13.4 | | mg/28.5g | 1.69 | |
| CBD per 28.5g | 209 | | mg/28.5g | 0.902 | |
| CBD-A per 28.5g | < LOQ | | mg/28.5g | 0.902 | |
| CBD-Total per 28.5g | 209 | | mg/28.5g | 1.69 | |
| CBDV per 28.5g | 2.35 | | mg/28.5g | 0.902 | |
| CBDV-A per 28.5g | < LOQ | | mg/28.5g | 0.902 | |
| CBDV-Total per 28.5g | 2.35 | | mg/28.5g | 1.68 | |
| CBE per 28.5g | 3.39 | | mg/28.5g | 0.902 | |
| CBG per 28.5g | 2.36 | | mg/28.5g | 0.902 | |
| CBG-A per 28.5g | < LOQ | | mg/28.5g | 0.902 | |
| CBG-Total per 28.5g | 2.36 | | mg/28.5g | 1.68 | |
| CBL per 28.5g | < LOQ | | mg/28.5g | 0.902 | |
| CBL-A per 28.5g | < LOQ | | mg/28.5g | 0.902 | |
| CBL-Total per 28.5g | < LOQ | | mg/28.5g | 1.69 | |
| CBN per 28.5g | 1.38 | | mg/28.5g | 0.902 | |
| CBT per 28.5g | 2.71 | | mg/28.5g | 0.902 | |
| Δ8-THCV per 28.5g | < LOQ | | mg/28.5g | 0.902 | |
| Δ10-THC-9R per 28.5g | < LOQ | | mg/28.5g | 0.902 | |
| Δ10-THC-9S per 28.5g | < LOQ | | mg/28.5g | 0.902 | |
| Δ10-THC-Total per 28.5g | < LOQ | | mg/28.5g | 1.80 | |
| Δ8-THC per 28.5g | 2.13 | | mg/28.5g | 0.902 | |
| Δ9-THC per 28.5g | 6.98 | | mg/28.5g | 0.902 | |
| delta-9-THCP per 28.5g | < LOQ | | mg/28.5g | 0.902 | |
| exo-THC per 28.5g | < LOQ | | mg/28.5g | 0.902 | |
| THC-A per 28.5g | < LOQ | | mg/28.5g | 0.902 | |
| THC-Total per 28.5g | 6.98 | | mg/28.5g | 1.69 | |
| THCV per 28.5g | < LOQ | | mg/28.5g | 0.902 | |
| THCV-A per 28.5g | < LOQ | | mg/28.5g | 0.902 | |
| THCV-Total per 28.5g | < LOQ | | mg/28.5g | 1.69 | |
| Total Cannabinoids per 28.5g | 244 | | mg/28.5g | | |



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Abbreviations

Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220, CCR title 16-division 42. BCC-section 5723

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.

↳ = ISO/IEC 17025:2017 accredited method.

Units of Measure

g = g

mg/28.5g = Milligram per 28.5g

% = Percentage of sample

% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner
General Manager



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Revision: 4 Document ID: 7148
Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

JAOAC2015 V98-6 Batch ID: 2312369

| Laboratory Control Sample | | | | | | | | | |
|---------------------------|-----|--------|--------|-------|-------|------------|------------|-------|--|
| Analyte | LCS | Result | Spike | Units | % Rec | Limits | Evaluation | Notes | |
| CBDVA | 2 | 0.0309 | 0.0323 | % | 95.5 | 80.0 - 120 | Acceptable | | |
| CBDV | 2 | 0.0335 | 0.0337 | % | 99.5 | 80.0 - 120 | Acceptable | | |
| CBE | 2 | 0.0339 | 0.0358 | % | 94.7 | 80.0 - 120 | Acceptable | | |
| CBD | 1 | 0.0308 | 0.0322 | % | 95.6 | 90.0 - 110 | Acceptable | | |
| CBD ^A | 1 | 0.0312 | 0.0329 | % | 94.7 | 80.0 - 120 | Acceptable | | |
| CBG | 1 | 0.0355 | 0.0368 | % | 96.5 | 80.0 - 120 | Acceptable | | |
| CBD | 1 | 0.0322 | 0.0313 | % | 103 | 90.0 - 110 | Acceptable | | |
| THCV | 2 | 0.0323 | 0.0345 | % | 93.7 | 80.0 - 120 | Acceptable | | |
| Δ ⁸ THCV | 2 | 0.0286 | 0.0283 | % | 101 | 80.0 - 120 | Acceptable | | |
| THCV/A | 2 | 0.0299 | 0.0312 | % | 96.1 | 80.0 - 120 | Acceptable | | |
| CBN | 1 | 0.0313 | 0.0329 | % | 95.3 | 80.0 - 120 | Acceptable | | |
| exo-THC | 2 | 0.0309 | 0.0315 | % | 98.2 | 80.0 - 120 | Acceptable | | |
| Δ ⁹ THC | 1 | 0.0346 | 0.0365 | % | 94.8 | 90.0 - 110 | Acceptable | | |
| Δ ⁸ THC | 1 | 0.0332 | 0.0340 | % | 97.6 | 90.0 - 110 | Acceptable | | |
| 9S-Δ ¹⁰ THC | 1 | 0.0321 | 0.0337 | % | 95.1 | 80.0 - 120 | Acceptable | | |
| CBL | 2 | 0.0327 | 0.0332 | % | 98.7 | 80.0 - 120 | Acceptable | | |
| 9R-Δ ¹⁰ THC | 1 | 0.0321 | 0.0336 | % | 95.5 | 80.0 - 120 | Acceptable | | |
| CBC | 2 | 0.0328 | 0.0342 | % | 96.0 | 80.0 - 120 | Acceptable | | |
| THCA | 1 | 0.0317 | 0.0337 | % | 94.1 | 90.0 - 110 | Acceptable | | |
| CBCA | 2 | 0.0314 | 0.0338 | % | 93.1 | 80.0 - 120 | Acceptable | | |
| CBLA | 2 | 0.0339 | 0.0342 | % | 99.0 | 80.0 - 120 | Acceptable | | |
| Δ ⁹ THCP | 2 | 0.0310 | 0.0334 | % | 93.0 | 80.0 - 120 | Acceptable | | |
| CBT | 2 | 0.0367 | 0.0343 | % | 107 | 80.0 - 120 | Acceptable | | |

Method Blank

| Analyte | Result | LOQ | Units | Limits | Evaluation | Notes |
|------------------------|--------|---------|-------|-----------|------------|-------|
| CBDVA | <LOQ | 0.00322 | % | < 0.00322 | Acceptable | |
| CBDV | <LOQ | 0.00322 | % | < 0.00322 | Acceptable | |
| CBE | <LOQ | 0.00322 | % | < 0.00322 | Acceptable | |
| CBD | <LOQ | 0.00322 | % | < 0.00322 | Acceptable | |
| CBD ^A | <LOQ | 0.00322 | % | < 0.00322 | Acceptable | |
| CBG | <LOQ | 0.00322 | % | < 0.00322 | Acceptable | |
| CBD | <LOQ | 0.00322 | % | < 0.00322 | Acceptable | |
| THCV | <LOQ | 0.00322 | % | < 0.00322 | Acceptable | |
| Δ ⁸ THCV | <LOQ | 0.00322 | % | < 0.00322 | Acceptable | |
| THCV/A | <LOQ | 0.00322 | % | < 0.00322 | Acceptable | |
| CBN | <LOQ | 0.00322 | % | < 0.00322 | Acceptable | |
| exo-THC | <LOQ | 0.00322 | % | < 0.00322 | Acceptable | |
| Δ ⁹ THC | <LOQ | 0.00322 | % | < 0.00322 | Acceptable | |
| Δ ⁸ THC | <LOQ | 0.00322 | % | < 0.00322 | Acceptable | |
| 9S-Δ ¹⁰ THC | <LOQ | 0.00322 | % | < 0.00322 | Acceptable | |
| CBL | <LOQ | 0.00322 | % | < 0.00322 | Acceptable | |
| 9R-Δ ¹⁰ THC | <LOQ | 0.00322 | % | < 0.00322 | Acceptable | |
| CBC | <LOQ | 0.00322 | % | < 0.00322 | Acceptable | |
| THCA | <LOQ | 0.00322 | % | < 0.00322 | Acceptable | |
| CBCA | <LOQ | 0.00322 | % | < 0.00322 | Acceptable | |
| CBLA | <LOQ | 0.00322 | % | < 0.00322 | Acceptable | |
| Δ ⁹ THCP | <LOQ | 0.00322 | % | < 0.00322 | Acceptable | |
| CBT | <LOQ | 0.00322 | % | < 0.00322 | Acceptable | |

Abbreviations

ND - None Detected at or above MRI
RPD - Relative Percent Difference
LOQ - Limit of Quantitation

Units of Measure:

% - Percent



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Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

| JAOAC 2015 V98-6 | | Batch ID: 2312369 | | | | | | |
|------------------------|---------|---------------------------|---------|-------|--------|--------|------------|-------|
| Sample Duplicate | | Sample ID: 23-012700-0004 | | | | | | |
| Analyte | Result | Org. Result | LOQ | Units | RPD | Limits | Evaluation | Notes |
| CBDVA | <LOQ | <LOQ | 0.00330 | % | NA | < 20 | Acceptable | |
| CBDV | 0.194 | 0.194 | 0.00330 | % | 0.149 | < 20 | Acceptable | |
| CBE | <LOQ | <LOQ | 0.00330 | % | NA | < 20 | Acceptable | |
| CBD | <LOQ | <LOQ | 0.00330 | % | NA | < 20 | Acceptable | |
| CBD ^A | <LOQ | <LOQ | 0.00330 | % | NA | < 20 | Acceptable | |
| CBD ^B | <LOQ | <LOQ | 0.00330 | % | NA | < 20 | Acceptable | |
| CBD | 31.6 | 31.1 | 0.00330 | % | 1.74 | < 20 | Acceptable | |
| THCV | <LOQ | <LOQ | 0.00330 | % | NA | < 20 | Acceptable | |
| Δ ⁹ THCV | <LOQ | <LOQ | 0.00330 | % | NA | < 20 | Acceptable | |
| THCVA | <LOQ | <LOQ | 0.00330 | % | NA | < 20 | Acceptable | |
| CBN | <LOQ | <LOQ | 0.00330 | % | NA | < 20 | Acceptable | |
| exo-THC | <LOQ | <LOQ | 0.00330 | % | NA | < 20 | Acceptable | |
| Δ ⁹ THC | 0.00946 | 0.00946 | 0.00330 | % | 0.0718 | < 20 | Acceptable | |
| Δ ⁸ THC | <LOQ | <LOQ | 0.00330 | % | NA | < 20 | Acceptable | |
| 9S-Δ ¹⁰ THC | <LOQ | <LOQ | 0.00330 | % | NA | < 20 | Acceptable | |
| CBL | <LOQ | <LOQ | 0.00330 | % | NA | < 20 | Acceptable | |
| 9R-Δ ¹⁰ THC | <LOQ | <LOQ | 0.00330 | % | NA | < 20 | Acceptable | |
| CBC | 0.0116 | 0.0116 | 0.00330 | % | 0.110 | < 20 | Acceptable | |
| THCA | <LOQ | <LOQ | 0.00330 | % | NA | < 20 | Acceptable | |
| CBGA | <LOQ | <LOQ | 0.00330 | % | NA | < 20 | Acceptable | |
| CBLA | <LOQ | <LOQ | 0.00330 | % | NA | < 20 | Acceptable | |
| Δ ⁹ THCP | <LOQ | <LOQ | 0.00330 | % | NA | < 20 | Acceptable | |
| CBT | 0.00429 | 0.00423 | 0.00330 | % | 1.35 | < 20 | Acceptable | |

Abbreviations

ND - None Detected at or above MRI
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 | Quantitation 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. |