



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



**Report Number:** 23-008661/D003.R000  
**Report Date:** 07/27/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 07/21/23 14:14

**Customer:** Healthy Roots  
**Product identity:** #288, 500 Pet  
**Client/Metric ID:** .  
**Laboratory ID:** 23-008661-0002

## Summary

### Potency:

| Analyte           | Result  | Limits | Units    | Status | CBD-Total per Serving Size 527 mg/28.5g  |
|-------------------|---------|--------|----------|--------|--|
| CBC               | 0.128   |        | %        |        |  |
| CBD               | 1.85    |        | %        |        |  |
| CBDV              | 0.0205  |        | %        |        | THC-Total per Serving Size 20.0 mg/28.5g |
| CBG               | 0.0258  |        | %        |        |  |
| CBL               | 0.00343 |        | %        |        | (Reported in milligrams per serving)     |
| CBN               | 0.0120  |        | %        |        |  |
| CBT               | 0.0261  |        | %        |        |  |
| Δ8-THC            | 0.0230  |        | %        |        |  |
| Δ9-THC            | 0.0700  |        | %        |        |  |
| Analyte per 28.5g | Result  | Limits | Units    | Status |  |
| CBC per 28.5g     | 36.5    |        | mg/28.5g |        |  |
| CBD per 28.5g     | 527     |        | mg/28.5g |        |  |
| CBDV per 28.5g    | 5.84    |        | mg/28.5g |        |  |
| CBG per 28.5g     | 7.35    |        | mg/28.5g |        |  |
| CBL per 28.5g     | 0.978   |        | mg/28.5g |        |  |
| CBN per 28.5g     | 3.42    |        | mg/28.5g |        |  |
| CBT per 28.5g     | 7.44    |        | mg/28.5g |        |  |
| Δ8-THC per 28.5g  | 6.56    |        | mg/28.5g |        |  |
| Δ9-THC per 28.5g  | 20.0    |        | mg/28.5g |        |  |



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**Customer:** Healthy Roots  
**Product identity:** #288, 500 Pet  
**Client/Metric ID:** .  
**Sample Date:**  
**Laboratory ID:** 23-008661-0002  
**Evidence of Cooling:** No  
**Temp:** 24.6 °C  
**Relinquished by:** Client  
**Serving Size #1:** 28.5 g

### Sample Results

| Potency                   | Method: J AOAC 2015 V98-6 (mod) <sup>b</sup> |        |       | Units % | Batch: 2309415 | Analyze: 7/24/23 10:44:00 PM |
|---------------------------|--|--------|-------|---------|----------------|------------------------------|
| Analyte                   | Result                                       | Limits | Units | LOQ     | Notes          |                              |
| CBC                       | 0.128  |        | %     | 0.00326 |                |                              |
| CBC-A                     | < LOQ  |        | %     | 0.00326 |                |                              |
| CBC-Total                 | 0.128  |        | %     | 0.00612 |                |                              |
| CBD                       | 1.85   |        | %     | 0.0326  |                |                              |
| CBD-A                     | < LOQ  |        | %     | 0.00326 |                |                              |
| CBD-Total                 | 1.85   |        | %     | 0.0354  |                |                              |
| CBDV                      | 0.0205                                       |        | %     | 0.00326 |                |                              |
| CBDV-A                    | < LOQ  |        | %     | 0.00326 |                |                              |
| CBDV-Total                | 0.0205                                       |        | %     | 0.00608 |                |                              |
| CBE                       | < LOQ  |        | %     | 0.00326 |                |                              |
| CBG                       | 0.0258                                       |        | %     | 0.00326 |                |                              |
| CBG-A                     | < LOQ  |        | %     | 0.00326 |                |                              |
| CBG-Total                 | 0.0258                                       |        | %     | 0.00608 |                |                              |
| CBL                       | 0.00343                                      |        | %     | 0.00326 |                |                              |
| CBL-A                     | < LOQ  |        | %     | 0.00326 |                |                              |
| CBL-Total                 | < LOQ  |        | %     | 0.00612 |                |                              |
| CBN                       | 0.0120                                       |        | %     | 0.00326 |                |                              |
| CBT                       | 0.0261                                       |        | %     | 0.00326 |                |                              |
| Δ8-THCV                   | < LOQ  |        | %     | 0.00326 |                |                              |
| Δ10-THC-9R                | < LOQ  |        | %     | 0.00326 |                |                              |
| Δ10-THC-9S                | < LOQ  |        | %     | 0.00326 |                |                              |
| Δ10-THC-Total             | < LOQ  |        | %     | 0.00652 |                |                              |
| Δ8-THC                    | 0.0230                                       |        | %     | 0.00326 |                |                              |
| Δ9-THC                    | 0.0700                                       |        | %     | 0.00326 |                |                              |
| delta-9-THCP              | < LOQ  |        | %     | 0.00326 |                |                              |
| exo-THC                   | < LOQ  |        | %     | 0.00326 |                |                              |
| THC-A                     | < LOQ  |        | %     | 0.00326 |                |                              |
| THC-Total                 | 0.0700                                       |        | %     | 0.00612 |                |                              |
| THCV                      | < LOQ  |        | %     | 0.00326 |                |                              |
| THCV-A                    | < LOQ  |        | %     | 0.00326 |                |                              |
| THCV-Total                | < LOQ  |        | %     | 0.00608 |                |                              |
| <b>Total Cannabinoids</b> | <b>2.16</b>                                  |        | %     |         |                |                              |



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Potency per 28.5g Method: J AOAC 2015 V98-6 (mod)<sup>b</sup> Units mg/se Batch: 2309415 Analyze: 7/24/23 10:44:00 PM

| Analyte                      | Result | Limits | Units    | LOQ   | Notes |
|------------------------------|--------|--------|----------|-------|-------|
| CBC per 28.5g                | 36.5   |        | mg/28.5g | 0.929 |       |
| CBC-A per 28.5g              | < LOQ  |        | mg/28.5g | 0.929 |       |
| CBC-Total per 28.5g          | 36.5   |        | mg/28.5g | 1.74  |       |
| CBD per 28.5g                | 527    |        | mg/28.5g | 9.29  |       |
| CBD-A per 28.5g              | < LOQ  |        | mg/28.5g | 0.929 |       |
| CBD-Total per 28.5g          | 527    |        | mg/28.5g | 10.1  |       |
| CBDV per 28.5g               | 5.84   |        | mg/28.5g | 0.929 |       |
| CBDV-A per 28.5g             | < LOQ  |        | mg/28.5g | 0.929 |       |
| CBDV-Total per 28.5g         | 5.84   |        | mg/28.5g | 1.73  |       |
| CBE per 28.5g                | < LOQ  |        | mg/28.5g | 0.929 |       |
| CBG per 28.5g                | 7.35   |        | mg/28.5g | 0.929 |       |
| CBG-A per 28.5g              | < LOQ  |        | mg/28.5g | 0.929 |       |
| CBG-Total per 28.5g          | 7.35   |        | mg/28.5g | 1.73  |       |
| CBL per 28.5g                | 0.978  |        | mg/28.5g | 0.929 |       |
| CBL-A per 28.5g              | < LOQ  |        | mg/28.5g | 0.929 |       |
| CBL-Total per 28.5g          | < LOQ  |        | mg/28.5g | 1.74  |       |
| CBN per 28.5g                | 3.42   |        | mg/28.5g | 0.929 |       |
| CBT per 28.5g                | 7.44   |        | mg/28.5g | 0.929 |       |
| Δ8-THCV per 28.5g            | < LOQ  |        | mg/28.5g | 0.929 |       |
| Δ10-THC-9R per 28.5g         | < LOQ  |        | mg/28.5g | 0.929 |       |
| Δ10-THC-9S per 28.5g         | < LOQ  |        | mg/28.5g | 0.929 |       |
| Δ10-THC-Total per 28.5g      | < LOQ  |        | mg/28.5g | 1.86  |       |
| Δ8-THC per 28.5g             | 6.56   |        | mg/28.5g | 0.929 |       |
| Δ9-THC per 28.5g             | 20.0   |        | mg/28.5g | 0.929 |       |
| delta-9-THCP per 28.5g       | < LOQ  |        | mg/28.5g | 0.929 |       |
| exo-THC per 28.5g            | < LOQ  |        | mg/28.5g | 0.929 |       |
| THC-A per 28.5g              | < LOQ  |        | mg/28.5g | 0.929 |       |
| THC-Total per 28.5g          | 20.0   |        | mg/28.5g | 1.74  |       |
| THCV per 28.5g               | < LOQ  |        | mg/28.5g | 0.929 |       |
| THCV-A per 28.5g             | < LOQ  |        | mg/28.5g | 0.929 |       |
| THCV-Total per 28.5g         | < LOQ  |        | mg/28.5g | 1.74  |       |
| Total Cannabinoids per 28.5g | 615    |        | 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.

<sup>h</sup> = 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**  
Batch ID: 2309415

| J AOAC 2015 V98-6         |     |        |        |       |       |            |            |       |  |
|---------------------------|-----|--------|--------|-------|-------|------------|------------|-------|--|
| Laboratory Control Sample |     |        |        |       |       |            |            |       |  |
| Analyte                   | LCS | Result | Spike  | Units | % Rec | Limits     | Evaluation | Notes |  |
| CBDVA                     | 2   | 0.0302 | 0.0311 | %     | 97.1  | 80.0 - 120 | Acceptable |       |  |
| CBDV                      | 2   | 0.0297 | 0.0307 | %     | 96.8  | 80.0 - 120 | Acceptable |       |  |
| CBE                       | 2   | 0.0337 | 0.0349 | %     | 96.6  | 80.0 - 120 | Acceptable |       |  |
| CBD                       | 1   | 0.0311 | 0.0325 | %     | 95.8  | 90.0 - 110 | Acceptable |       |  |
| CBGA                      | 1   | 0.0310 | 0.0326 | %     | 95.2  | 80.0 - 120 | Acceptable |       |  |
| CBG                       | 1   | 0.0318 | 0.0332 | %     | 95.8  | 80.0 - 120 | Acceptable |       |  |
| CBD                       | 1   | 0.0330 | 0.0337 | %     | 97.8  | 90.0 - 110 | Acceptable |       |  |
| THCV                      | 2   | 0.0218 | 0.0222 | %     | 98.1  | 80.0 - 120 | Acceptable |       |  |
| d8THCV                    | 2   | 0.0262 | 0.0272 | %     | 96.4  | 80.0 - 120 | Acceptable |       |  |
| THCVA                     | 2   | 0.0302 | 0.0310 | %     | 97.4  | 80.0 - 120 | Acceptable |       |  |
| CBN                       | 1   | 0.0325 | 0.0340 | %     | 95.7  | 80.0 - 120 | Acceptable |       |  |
| exo-THC                   | 2   | 0.0303 | 0.0311 | %     | 97.2  | 80.0 - 120 | Acceptable |       |  |
| d9THC                     | 1   | 0.0322 | 0.0329 | %     | 97.7  | 90.0 - 110 | Acceptable |       |  |
| d8THC                     | 1   | 0.0301 | 0.0320 | %     | 94.1  | 90.0 - 110 | Acceptable |       |  |
| 9S-d10THC                 | 1   | 0.0328 | 0.0343 | %     | 95.8  | 80.0 - 120 | Acceptable |       |  |
| CBL                       | 2   | 0.0301 | 0.0311 | %     | 96.6  | 80.0 - 120 | Acceptable |       |  |
| 9R-d10THC                 | 1   | 0.0297 | 0.0313 | %     | 94.8  | 80.0 - 120 | Acceptable |       |  |
| CBC                       | 2   | 0.0312 | 0.0319 | %     | 97.9  | 80.0 - 120 | Acceptable |       |  |
| THCA                      | 1   | 0.0305 | 0.0322 | %     | 94.4  | 90.0 - 110 | Acceptable |       |  |
| CBGA                      | 2   | 0.0314 | 0.0325 | %     | 96.7  | 80.0 - 120 | Acceptable |       |  |
| CBLA                      | 2   | 0.0483 | 0.0500 | %     | 96.5  | 80.0 - 120 | Acceptable |       |  |
| d9THCP                    | 2   | 0.0309 | 0.0323 | %     | 95.7  | 80.0 - 120 | Acceptable |       |  |
| CBT                       | 2   | 0.0304 | 0.0314 | %     | 96.8  | 80.0 - 120 | Acceptable |       |  |

| Method Blank |        |         |       |           |            |       |
|--------------|--------|---------|-------|-----------|------------|-------|
| Analyte      | Result | LOQ     | Units | Limits    | Evaluation | Notes |
| CBDVA        | <LOQ   | 0.00317 | %     | < 0.00317 | Acceptable |       |
| CBDV         | <LOQ   | 0.00317 | %     | < 0.00317 | Acceptable |       |
| CBE          | <LOQ   | 0.00317 | %     | < 0.00317 | Acceptable |       |
| CBD          | <LOQ   | 0.00317 | %     | < 0.00317 | Acceptable |       |
| CBGA         | <LOQ   | 0.00317 | %     | < 0.00317 | Acceptable |       |
| CBG          | <LOQ   | 0.00317 | %     | < 0.00317 | Acceptable |       |
| CBD          | <LOQ   | 0.00317 | %     | < 0.00317 | Acceptable |       |
| THCV         | <LOQ   | 0.00317 | %     | < 0.00317 | Acceptable |       |
| d8THCV       | <LOQ   | 0.00317 | %     | < 0.00317 | Acceptable |       |
| THCVA        | <LOQ   | 0.00317 | %     | < 0.00317 | Acceptable |       |
| CBN          | <LOQ   | 0.00317 | %     | < 0.00317 | Acceptable |       |
| exo-THC      | <LOQ   | 0.00317 | %     | < 0.00317 | Acceptable |       |
| d9THC        | <LOQ   | 0.00317 | %     | < 0.00317 | Acceptable |       |
| d8THC        | <LOQ   | 0.00317 | %     | < 0.00317 | Acceptable |       |
| 9S-d10THC    | <LOQ   | 0.00317 | %     | < 0.00317 | Acceptable |       |
| CBL          | <LOQ   | 0.00317 | %     | < 0.00317 | Acceptable |       |
| 9R-d10THC    | <LOQ   | 0.00317 | %     | < 0.00317 | Acceptable |       |
| CBC          | <LOQ   | 0.00317 | %     | < 0.00317 | Acceptable |       |
| THCA         | <LOQ   | 0.00317 | %     | < 0.00317 | Acceptable |       |
| CBGA         | <LOQ   | 0.00317 | %     | < 0.00317 | Acceptable |       |
| CBLA         | <LOQ   | 0.00317 | %     | < 0.00317 | Acceptable |       |
| d9THCP       | <LOQ   | 0.00317 | %     | < 0.00317 | Acceptable |       |
| CBT          | <LOQ   | 0.00317 | %     | < 0.00317 | 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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#### Laboratory Quality Control Results

| J AOAC 2015 V98-6 |         | Batch ID: 2309415         |         |       |       |        |            |       |
|-------------------|---------|---------------------------|---------|-------|-------|--------|------------|-------|
| Sample Duplicate  |         | Sample ID: 23-008639-0002 |         |       |       |        |            |       |
| Analyte           | Result  | Org. Result               | LOQ     | Units | RPD   | Limits | Evaluation | Notes |
| CBDVA             | <LOQ    | <LOQ                      | 0.00327 | %     | NA    | < 20   | Acceptable |       |
| CBDV              | 0.133   | 0.134                     | 0.00327 | %     | 0.292 | < 20   | Acceptable |       |
| CBE               | <LOQ    | <LOQ                      | 0.00327 | %     | NA    | < 20   | Acceptable |       |
| CBD               | <LOQ    | <LOQ                      | 0.00327 | %     | NA    | < 20   | Acceptable |       |
| CBGA              | <LOQ    | <LOQ                      | 0.00327 | %     | NA    | < 20   | Acceptable |       |
| CBG               | <LOQ    | <LOQ                      | 0.00327 | %     | NA    | < 20   | Acceptable |       |
| CBD               | 38.8    | 37.8                      | 0.00327 | %     | 2.53  | < 20   | Acceptable |       |
| THCV              | <LOQ    | <LOQ                      | 0.00327 | %     | NA    | < 20   | Acceptable |       |
| d8THCV            | <LOQ    | <LOQ                      | 0.00327 | %     | NA    | < 20   | Acceptable |       |
| THCVA             | <LOQ    | <LOQ                      | 0.00327 | %     | NA    | < 20   | Acceptable |       |
| CBN               | <LOQ    | <LOQ                      | 0.00327 | %     | NA    | < 20   | Acceptable |       |
| exo-THC           | <LOQ    | <LOQ                      | 0.00327 | %     | NA    | < 20   | Acceptable |       |
| d9THC             | 0.0113  | 0.0113                    | 0.00327 | %     | 0.227 | < 20   | Acceptable |       |
| d8THC             | <LOQ    | <LOQ                      | 0.00327 | %     | NA    | < 20   | Acceptable |       |
| 9S-d10THC         | <LOQ    | <LOQ                      | 0.00327 | %     | NA    | < 20   | Acceptable |       |
| CBL               | <LOQ    | <LOQ                      | 0.00327 | %     | NA    | < 20   | Acceptable |       |
| 9R-d10THC         | <LOQ    | <LOQ                      | 0.00327 | %     | NA    | < 20   | Acceptable |       |
| CBC               | <LOQ    | <LOQ                      | 0.00327 | %     | NA    | < 20   | Acceptable |       |
| THCA              | <LOQ    | <LOQ                      | 0.00327 | %     | NA    | < 20   | Acceptable |       |
| CBCA              | <LOQ    | <LOQ                      | 0.00327 | %     | NA    | < 20   | Acceptable |       |
| CBLA              | <LOQ    | <LOQ                      | 0.00327 | %     | NA    | < 20   | Acceptable |       |
| d9THCP            | <LOQ    | <LOQ                      | 0.00327 | %     | NA    | < 20   | Acceptable |       |
| CBT               | 0.00781 | 0.00784                   | 0.00327 | %     | 0.355 | < 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 | 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.                      |