# Columbia
## LABORATORIES
### A Tentamus Company

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

**Customer:** Brothers Apothecary
**Product identity:** CBD Tea 1.1
**Project Number:** COL-BR-13
**Client/Metrc ID:** .
**Laboratory ID:** 23-008002-0001

## Summary

**Potency:**

| Analyte | Result | Limits | Units | Status |
|---|---|---|---|---|
| CBD | 0.827 | | % | |
| CBD-A | 0.241 | | % | |
| CBG | 0.0151 | | % | |
| CBG-A | 0.00508 | | % | |
| $\Delta$9-THC | 0.0397 | | % | |
| **Analyte per 6.09g** | **Result** | **Limits** | **Units** | **Status** |
| CBD per 6.09g | 50.4 | | mg/6.09g | |
| CBD-A per 6.09g | 14.7 | | mg/6.09g | |
| CBG per 6.09g | 0.920 | | mg/6.09g | |
| CBG-A per 6.09g | 0.309 | | mg/6.09g | |
| $\Delta$9-THC per 6.09g | 2.42 | | mg/6.09g | |

| | |
|---|---|
| CBD-Total per Serving Size | 63.2 mg/6.09g |
| THC-Total per Serving Size | 2.42 mg/6.09g |

(Reported in milligrams per serving)

![Columbia Laboratories logo - A Tentamus Company]

12423 NE Whitaker Way
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| | |
|---|---|
| **Report Number:** | 23-008002/D010.R000 |
| **Report Date:** | 07/14/2023 |
| **ORELAP#:** | OR100028 |
| **Purchase Order:** | |
| **Received:** | 07/07/23  12:29 |

**Customer:** Brothers Apothecary
3423 SE18th Ave
Portland OR, 97202
United States of America (USA)

| | |
|---|---|
| **Product identity:** | CBD Tea 1.1 |
| **Project Number:** | COL-BR-13 |
| **Client/Metrc ID:** | . |
| **Sample Date:** | |
| **Laboratory ID:** | 23-008002-0001 |
| **Evidence of Cooling:** | No |
| **Temp:** | 22.8 |
| **Relinquished by:** | client |
| **Serving Size #1:** | 6.09 g |

# Sample Results

| Potency | **Method:** J AOAC 2015 V98-6 (mod)[b] | | **Units** % | **Batch:** 2308934 | **Analyze:** 7/10/23  8:53:00 PM |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **Limits** | **Units** | **LOQ** | **Notes** |
| CBD | 0.827 | | % | 0.00319 | |
| CBD-A | 0.241 | | % | 0.00319 | |
| CBD-Total | 1.04 | | % | 0.00599 | |
| CBG | 0.0151 | | % | 0.00319 | |
| CBG-A | 0.00508 | | % | 0.00319 | |
| CBG-Total | 0.0196 | | % | 0.00596 | |
| CBN | < LOQ | | % | 0.00319 | |
| Δ10-THC-9R | < LOQ | | % | 0.00319 | |
| Δ10-THC-9S | < LOQ | | % | 0.00319 | |
| Δ10-THC-Total | < LOQ | | % | 0.00638 | |
| Δ8-THC | < LOQ | | % | 0.00319 | |
| Δ9-THC | 0.0397 | | % | 0.00319 | |
| THC-A | < LOQ | | % | 0.00319 | |
| THC-Total | 0.0397 | | % | 0.00599 | |
| **Total Cannabinoids** | **1.13** | | % | | |

| Potency per 6.09g | **Method:** J AOAC 2015 V98-6 (mod)[b] | | **Units** mg/se | **Batch:** 2308934 | **Analyze:** 7/10/23  8:53:00 PM |
|---|---|---|---|---|---|
| **Analyte** | **Result** | **Limits** | **Units** | **LOQ** | **Notes** |
| CBD per 6.09g | 50.4 | | mg/6.09g | 0.194 | |
| CBD-A per 6.09g | 14.7 | | mg/6.09g | 0.194 | |
| CBD-Total per 6.09g | 63.2 | | mg/6.09g | 0.365 | |
| CBG per 6.09g | 0.920 | | mg/6.09g | 0.194 | |
| CBG-A per 6.09g | 0.309 | | mg/6.09g | 0.194 | |
| CBG-Total per 6.09g | 1.19 | | mg/6.09g | 0.363 | |
| CBN per 6.09g | < LOQ | | mg/6.09g | 0.194 | |
| Δ10-THC-9R per 6.09g | < LOQ | | mg/6.09g | 0.194 | |
| Δ10-THC-9S per 6.09g | < LOQ | | mg/6.09g | 0.194 | |
| Δ10-THC-Total per 6.09g | < LOQ | | mg/6.09g | 0.389 | |
| Δ8-THC per 6.09g | < LOQ | | mg/6.09g | 0.194 | |

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| Potency per 6.09g | **Method:** J AOAC 2015 V98-6 (mod)[b] | | **Units** mg/se **Batch:** 2308934 | | **Analyze:** 7/10/23  8:53:00 PM | |
|---|---|---|---|---|---|---|
| **Analyte** | **Result** | **Limits** | **Units** | **LOQ** | | **Notes** |
| Δ9-THC per 6.09g | 2.42 | | mg/6.09g | 0.194 | | |
| THC-A per 6.09g | < LOQ | | mg/6.09g | 0.194 | | |
| THC-Total per 6.09g | 2.42 | | mg/6.09g | 0.365 | | |

**Columbia LABORATORIES**
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**Report Number:** 23-008002/D010.R000
**Report Date:** 07/14/2023
**ORELAP#:** OR100028
**Purchase Order:**
**Received:** 07/07/23 12:29

*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.

ᵇ = ISO/IEC 17025:2017 accredited method.

*Units of Measure*

g = g
mg/6.09g = Milligram per 6.09g
% = Percentage of sample
% wt = μg/g divided by 10,000

Approved Signatory

Derrick Tanner
General Manager

# Columbia LABORATORIES
### A Tentamus Company

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

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

**Laboratory Quality Control Results**

| J AOAC 2015 V98-6 | | | | | | | Batch ID: 2308934 | | |

**Laboratory Control Sample**

| Analyte | LCS | Result | Spike | Units | % Rec | Limits | | | Evaluation | Notes |
|---------|-----|--------|-------|-------|-------|--------|---|-----|------------|-------|
| CBDVA | 2 | 0.0319 | 0.0316 | % | 101 | 80.0 | - | 120 | Acceptable | |
| CBDV | 2 | 0.0323 | 0.0315 | % | 102 | 80.0 | - | 120 | Acceptable | |
| CBE | 2 | 0.0332 | 0.0348 | % | 95.4 | 80.0 | - | 120 | Acceptable | |
| CBDA | 1 | 0.0318 | 0.0325 | % | 98.0 | 90.0 | - | 110 | Acceptable | |
| CBGA | 1 | 0.0319 | 0.0326 | % | 97.9 | 80.0 | - | 120 | Acceptable | |
| CBG | 1 | 0.0322 | 0.0332 | % | 97.0 | 80.0 | - | 120 | Acceptable | |
| CBD | 1 | 0.0328 | 0.0337 | % | 97.1 | 90.0 | - | 110 | Acceptable | |
| THCV | 2 | 0.0243 | 0.0236 | % | 103 | 80.0 | - | 120 | Acceptable | |
| d8THCV | 2 | 0.0283 | 0.0279 | % | 102 | 80.0 | - | 120 | Acceptable | |
| THCVA | 2 | 0.0315 | 0.0308 | % | 102 | 80.0 | - | 120 | Acceptable | |
| CBN | 1 | 0.0325 | 0.0340 | % | 95.6 | 80.0 | - | 120 | Acceptable | |
| exo-THC | 2 | 0.0286 | 0.0283 | % | 101 | 80.0 | - | 120 | Acceptable | |
| d9THC | 1 | 0.0317 | 0.0329 | % | 96.4 | 90.0 | - | 110 | Acceptable | |
| d8THC | 1 | 0.0311 | 0.0320 | % | 97.3 | 90.0 | - | 110 | Acceptable | |
| 9S-d10THC | 1 | 0.0333 | 0.0343 | % | 97.2 | 80.0 | - | 120 | Acceptable | |
| CBL | 2 | 0.0325 | 0.0311 | % | 104 | 80.0 | - | 120 | Acceptable | |
| 9R-d10THC | 1 | 0.0301 | 0.0313 | % | 96.2 | 80.0 | - | 120 | Acceptable | |
| CBC | 2 | 0.0294 | 0.0293 | % | 100 | 80.0 | - | 120 | Acceptable | |
| THCA | 1 | 0.0314 | 0.0322 | % | 97.4 | 90.0 | - | 110 | Acceptable | |
| CBCA | 2 | 0.0327 | 0.0320 | % | 103 | 80.0 | - | 120 | Acceptable | |
| CBLA | 2 | 0.0310 | 0.0302 | % | 103 | 80.0 | - | 120 | Acceptable | |
| d9THCP | 2 | 0.0330 | 0.0326 | % | 101 | 80.0 | - | 120 | Acceptable | |
| CBT | 2 | 0.0321 | 0.0326 | % | 98.3 | 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 | |
| CBDA | <LOQ | 0.00322 | % | < 0.00322 | Acceptable | |
| CBGA | <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 | |
| d8THCV | <LOQ | 0.00322 | % | < 0.00322 | Acceptable | |
| THCVA | <LOQ | 0.00322 | % | < 0.00322 | Acceptable | |
| CBN | <LOQ | 0.00322 | % | < 0.00322 | Acceptable | |
| exo-THC | <LOQ | 0.00322 | % | < 0.00322 | Acceptable | |
| d9THC | <LOQ | 0.00322 | % | < 0.00322 | Acceptable | |
| d8THC | <LOQ | 0.00322 | % | < 0.00322 | Acceptable | |
| 9S-d10THC | <LOQ | 0.00322 | % | < 0.00322 | Acceptable | |
| CBL | <LOQ | 0.00322 | % | < 0.00322 | Acceptable | |
| 9R-d10THC | <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 | |
| d9THCP | <LOQ | 0.00322 | % | < 0.00322 | Acceptable | |
| CBT | <LOQ | 0.00322 | % | < 0.00322 | Acceptable | |

*Abbreviations*
ND - None Detected at or above MRL
RPD - Relative Percent Difference
LOQ - Limit of Quantitation

*Units of Measure:*
% - Percent

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

**Laboratory Quality Control Results**

| J AOAC 2015 V98-6 | | | | | Batch ID: 2308934 | | | |
|---|---|---|---|---|---|---|---|---|
| **Sample Duplicate** | | | | | Sample ID: 23-007976-0001 | | | |
| **Analyte** | **Result** | **Org. Result** | **LOQ** | **Units** | **RPD** | **Limits** | **Evaluation** | **Notes** |
| CBDVA | <LOQ | <LOQ | 0.00308 | % | NA | < 20 | Acceptable | |
| CBDV | <LOQ | <LOQ | 0.00308 | % | NA | < 20 | Acceptable | |
| CBE | <LOQ | <LOQ | 0.00308 | % | NA | < 20 | Acceptable | |
| CBDA | <LOQ | <LOQ | 0.00308 | % | NA | < 20 | Acceptable | |
| CBGA | <LOQ | <LOQ | 0.00308 | % | NA | < 20 | Acceptable | |
| CBG | 0.0201 | 0.0196 | 0.00308 | % | 2.41 | < 20 | Acceptable | |
| CBD | 0.691 | 0.681 | 0.00308 | % | 1.46 | < 20 | Acceptable | |
| THCV | <LOQ | <LOQ | 0.00308 | % | NA | < 20 | Acceptable | |
| d8THCV | <LOQ | <LOQ | 0.00308 | % | NA | < 20 | Acceptable | |
| THCVA | <LOQ | <LOQ | 0.00308 | % | NA | < 20 | Acceptable | |
| CBN | 0.126 | 0.125 | 0.00308 | % | 1.39 | < 20 | Acceptable | |
| exo-THC | <LOQ | <LOQ | 0.00308 | % | NA | < 20 | Acceptable | |
| d9THC | <LOQ | <LOQ | 0.00308 | % | NA | < 20 | Acceptable | |
| d8THC | <LOQ | <LOQ | 0.00308 | % | NA | < 20 | Acceptable | |
| 9S-d10THC | <LOQ | <LOQ | 0.00308 | % | NA | < 20 | Acceptable | |
| CBL | <LOQ | <LOQ | 0.00308 | % | NA | < 20 | Acceptable | |
| 9R-d10THC | <LOQ | <LOQ | 0.00308 | % | NA | < 20 | Acceptable | |
| CBC | 0.00582 | 0.00580 | 0.00308 | % | 0.290 | < 20 | Acceptable | |
| THCA | <LOQ | <LOQ | 0.00308 | % | NA | < 20 | Acceptable | |
| CBCA | <LOQ | <LOQ | 0.00308 | % | NA | < 20 | Acceptable | |
| CBLA | <LOQ | <LOQ | 0.00308 | % | NA | < 20 | Acceptable | |
| d9THCP | <LOQ | <LOQ | 0.00308 | % | NA | < 20 | Acceptable | |
| CBT | <LOQ | <LOQ | 0.00308 | % | NA | < 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. |