



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



Report Number: 20-013405/D04.R00
Report Date: 12/14/2020
ORELAP#: OR100028
Purchase Order:
Received: 12/07/20 11:16

Customer: Owls
Product identity: OWLS Delta 8 Pineapple Blunt
Client/Metric ID: .
Laboratory ID: 20-013405-0004

Sample Date: 12/02/20

Summary

Potency:

| Analyte | Result (%) | | |
|---------|------------|--|---------------------------------------|
| Δ8-THC† | 10.4 | | |
| CBD-A | 4.54 | | |
| CBG-A† | 3.98 | | |
| CBD | 1.20 | | |
| CBC-A† | 0.510 | | |
| CBC | 0.200 | | |
| THC-A | 0.132 | | |
| CBG† | 0.0912 | | |
| | | | CBD-Total 5.18% |
| | | | THC-Total 0.116% |
| | | | (Reported in percent of total sample) |

Terpenes:

| Analyte | Percent by weight | Percent of Total | Analyte | Percent by weight | Percent of Total |
|--------------------------|-------------------|------------------|------------------------|-------------------|------------------|
| β-Caryophyllene† | 0.187 | 34.89% | α-Bisabolol† | 0.127 | 23.69% |
| (R)-(+)-Limonene† | 0.0463 | 8.64% | (-)-Guaiaol† | 0.0388 | 7.24% |
| Humulene† | 0.0375 | 7.00% | Terpinolene† | 0.0340 | 6.34% |
| (-)-caryophyllene oxide† | 0.0222 | 4.14% | Linalool† | 0.0218 | 4.07% |
| (-)-β-Pinene† | 0.0215 | 4.01% | Total Terpenes† | 0.536 | 100.00% |



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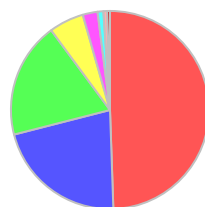
Customer: Owls

Product identity: OWLS Delta 8 Pineapple Blunt
Client/Metric ID: .
Sample Date: 12/02/20
Laboratory ID: 20-013405-0004
Evidence of Cooling: No
Temp: 20 °C

Sample Results

Potency **Method J AOAC 2015 V98-6 (mod) Batch: 2010313 Analyze: 12/10/20 12:59:00 A**

| Analyte | As Received | Dry weight | LOQ | Notes |
|----------------------------|-------------|------------|--------|-------|
| CBC | 0.200 | | 0.0294 | |
| CBC-A† | 0.510 | | 0.0294 | |
| CBC-Total† | 0.647 | | 0.0553 | |
| CBD | 1.20 | | 0.0294 | |
| CBD-A | 4.54 | | 0.0294 | |
| CBD-Total | 5.18 | | 0.0553 | |
| CBDV† | < LOQ | | 0.0294 | |
| CBDV-A† | < LOQ | | 0.0294 | |
| CBDV-Total† | < LOQ | | 0.0550 | |
| CBG† | 0.0912 | | 0.0294 | |
| CBG-A† | 3.98 | | 0.0294 | |
| CBG-Total | 3.59 | | 0.0550 | |
| CBL† | < LOQ | | 0.0294 | |
| CBN | < LOQ | | 0.0294 | |
| Δ8-THC† | 10.4 | | 0.294 | |
| Δ9-THC | < LOQ | | 0.0294 | |
| THC-A | 0.132 | | 0.0294 | |
| THC-Total | 0.116 | | 0.0553 | |
| THCV† | < LOQ | | 0.0294 | |
| THCV-A† | < LOQ | | 0.0294 | |
| THCV-Total† | < LOQ | | 0.0550 | |
| Total Cannabinoids† | 21.1 | | | |



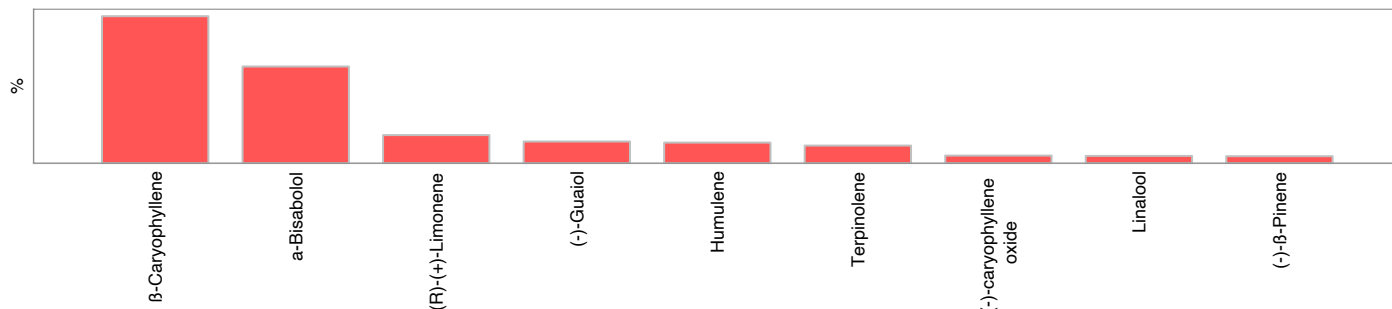
- Δ8-THC
- CBD-A
- CBG-A
- CBD
- CBC-A
- CBC
- THC-A
- CBG

Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.

Testing in accordance with: OAR 333-007-0430



| Terpenes | | | | Method J AOAC 2015 V98-6 | Units % | Batch 2010263 | Analyze 12/10/20 10:16 AM | | |
|--------------------------|--------------|-------|------------|--------------------------|------------------|---------------|---------------------------|------------|-------|
| Analyte | Result | LOQ | % of Total | Notes | Analyte | Result | LOQ | % of Total | Notes |
| β-Caryophyllene† | 0.187 | 0.020 | 34.89% | | α-Bisabolol† | 0.127 | 0.020 | 23.69% | |
| (R)-(+)-Limonene† | 0.0463 | 0.020 | 8.64% | | (-)-Guaiol† | 0.0388 | 0.020 | 7.24% | |
| Humulene† | 0.0375 | 0.020 | 7.00% | | Terpinolene† | 0.0340 | 0.020 | 6.34% | |
| (-)-caryophyllene oxide† | 0.0222 | 0.020 | 4.14% | | Linalool† | 0.0218 | 0.020 | 4.07% | |
| (-)-β-Pinene† | 0.0215 | 0.020 | 4.01% | | (-)-α-Terpineol† | < LOQ | 0.020 | 0.00% | |
| (-)-Isopulegol† | < LOQ | 0.020 | 0.00% | | (+)-Borneol† | < LOQ | 0.020 | 0.00% | |
| (+)-Cedrol† | < LOQ | 0.020 | 0.00% | | (+)-fenchol† | < LOQ | 0.020 | 0.00% | |
| (+)-Pulegone† | < LOQ | 0.020 | 0.00% | | (±)-Camphor† | < LOQ | 0.020 | 0.00% | |
| (±)-cis-Nerolidol† | < LOQ | 0.020 | 0.00% | | (±)-fenchone† | < LOQ | 0.020 | 0.00% | |
| (±)-trans-Nerolidol† | < LOQ | 0.020 | 0.00% | | α-cedrene† | < LOQ | 0.020 | 0.00% | |
| α-phellandrene† | < LOQ | 0.020 | 0.00% | | α-pinene† | < LOQ | 0.020 | 0.00% | |
| α-Terpinene† | < LOQ | 0.020 | 0.00% | | Camphene† | < LOQ | 0.020 | 0.00% | |
| cis-β-Ocimene† | < LOQ | 0.006 | 0.00% | | d-3-Carene† | < LOQ | 0.020 | 0.00% | |
| Eucalyptol† | < LOQ | 0.020 | 0.00% | | farnesene† | < LOQ | 0.020 | 0.00% | |
| γ-Terpinene† | < LOQ | 0.020 | 0.00% | | Geraniol† | < LOQ | 0.020 | 0.00% | |
| Geranyl acetate† | < LOQ | 0.020 | 0.00% | | Isoborneol† | < LOQ | 0.020 | 0.00% | |
| Menthol† | < LOQ | 0.020 | 0.00% | | nerol† | < LOQ | 0.020 | 0.00% | |
| p-Cymene† | < LOQ | 0.020 | 0.00% | | Sabinene† | < LOQ | 0.020 | 0.00% | |
| Sabinene hydrate† | < LOQ | 0.020 | 0.00% | | β-Myrcene† | < LOQ | 0.020 | 0.00% | |
| trans-β-Ocimene† | < LOQ | 0.013 | 0.00% | | valencene† | < LOQ | 0.020 | 0.00% | |
| Total Terpenes | 0.536 | | | | | | | | |





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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

% = Percentage of sample

% wt = $\mu\text{g/g}$ divided by 10,000

Approved Signatory

Derrick Tanner
General Manager



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Terpenes Quality Control Results

Method Reference: EPA 5035 Batch ID: 2010263

| Method Blank | | | | Laboratory Control Sample | | | | | |
|---------------------|--------|--------|-------|---------------------------|-----|-------|-----------|----------|-------|
| Analyte | Result | LOQ | Notes | Result | LCS | Units | LCS % Rec | Limits | Notes |
| a-pinene | <LOQ | < 200 | | 617 | 500 | µg/g | 123% | 70 - 130 | |
| Camphene | <LOQ | < 200 | | 590 | 500 | µg/g | 118% | 70 - 130 | |
| Sabinene | <LOQ | < 200 | | 586 | 500 | µg/g | 117% | 70 - 130 | |
| b-Pinene | <LOQ | < 200 | | 573 | 500 | µg/g | 115% | 70 - 130 | |
| b-Myrcene | <LOQ | < 200 | | 489 | 500 | µg/g | 98% | 70 - 130 | |
| a-phellandrene | <LOQ | < 200 | | 542 | 500 | µg/g | 108% | 70 - 130 | |
| d-3-Carene | <LOQ | < 200 | | 642 | 500 | µg/g | 128% | 70 - 130 | |
| a-Terpinene | <LOQ | < 200 | | 515 | 500 | µg/g | 103% | 70 - 130 | |
| p-Cymene | <LOQ | < 200 | | 525 | 500 | µg/g | 105% | 70 - 130 | |
| D-Limonene | <LOQ | < 200 | | 581 | 500 | µg/g | 116% | 70 - 130 | |
| Eucalyptol | <LOQ | < 200 | | 624 | 500 | µg/g | 125% | 70 - 130 | |
| b-cis-Ocimene | <LOQ | < 66.7 | | 130 | 167 | µg/g | 78% | 70 - 130 | |
| b-trans-Ocimene | <LOQ | < 133 | | 313 | 333 | µg/g | 94% | 70 - 130 | |
| g-Terpinene | <LOQ | < 200 | | 529 | 500 | µg/g | 106% | 70 - 130 | |
| Sabinene_Hydrate | <LOQ | < 200 | | 576 | 500 | µg/g | 115% | 70 - 130 | |
| Terpinolene | <LOQ | < 200 | | 527 | 500 | µg/g | 105% | 70 - 130 | |
| D-Fenchone | <LOQ | < 200 | | 643 | 500 | µg/g | 129% | 70 - 130 | |
| Linalool | <LOQ | < 200 | | 536 | 500 | µg/g | 107% | 70 - 130 | |
| Fenchol | <LOQ | < 200 | | 631 | 500 | µg/g | 126% | 70 - 130 | |
| Camphor | <LOQ | < 200 | | 602 | 500 | µg/g | 120% | 70 - 130 | |
| Isopulego | <LOQ | < 200 | | 595 | 500 | µg/g | 119% | 70 - 130 | |
| Isoborneol | <LOQ | < 200 | | 633 | 500 | µg/g | 127% | 70 - 130 | |
| Borneol | <LOQ | < 200 | | 624 | 500 | µg/g | 125% | 70 - 130 | |
| DL-Menthol | <LOQ | < 200 | | 612 | 500 | µg/g | 122% | 70 - 130 | |
| Terpineol | <LOQ | < 200 | | 539 | 500 | µg/g | 108% | 70 - 130 | |
| Nerol | <LOQ | < 200 | | 442 | 500 | µg/g | 88% | 70 - 130 | |
| Pulegone | <LOQ | < 200 | | 574 | 500 | µg/g | 115% | 70 - 130 | |
| Geraniol | <LOQ | < 200 | | 526 | 500 | µg/g | 105% | 70 - 130 | |
| Geranyl_Acetate | <LOQ | < 200 | | 530 | 500 | µg/g | 106% | 70 - 130 | |
| a-Cedrene | <LOQ | < 200 | | 642 | 500 | µg/g | 128% | 70 - 130 | |
| b-Caryophyllene | <LOQ | < 200 | | 615 | 500 | µg/g | 123% | 70 - 130 | |
| a-Humulene | <LOQ | < 200 | | 645 | 500 | µg/g | 129% | 70 - 130 | |
| Valenene | <LOQ | < 200 | | 565 | 500 | µg/g | 113% | 70 - 130 | |
| cis-Nerolidol | <LOQ | < 200 | | 627 | 500 | µg/g | 125% | 70 - 130 | |
| a-Farnesene | <LOQ | < 200 | | 526 | 500 | µg/g | 105% | 70 - 130 | |
| trans-Nerolidol | <LOQ | < 200 | | 576 | 500 | µg/g | 115% | 70 - 130 | |
| Caryophyllene_Oxide | <LOQ | < 200 | | 618 | 500 | µg/g | 124% | 70 - 130 | |
| Guaial | <LOQ | < 200 | | 621 | 500 | µg/g | 124% | 70 - 130 | |
| Cedrol | <LOQ | < 200 | | 622 | 500 | µg/g | 124% | 70 - 130 | |
| a-Bisabolol | <LOQ | < 200 | | 604 | 500 | µg/g | 121% | 70 - 130 | |

Definitions

| | |
|-------|---------------------------|
| LOQ | Limit of Quantitation |
| LCS | Laboratory Control Sample |
| % REC | Percent Recovery |



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Terpenes Quality Control Results

| Method Reference: EPA 5035 | | Batch ID: 2010263 | | | | | |
|----------------------------|--------|---------------------------|------|-------|-------|-------|-------|
| Sample/Sample Duplicate | | Sample ID: 20-013405-0001 | | | | | |
| Analyte | Result | Org. Result | LOQ | Units | % RPD | LIMIT | Notes |
| a-pinene | 261 | 236 | 200 | µg/g | 10% | < 20 | |
| Camphene | <LOQ | <LOQ | 200 | µg/g | 0% | < 20 | |
| Sabinene | <LOQ | <LOQ | 200 | µg/g | 0% | < 20 | |
| b-Pinene | 299 | 266 | 200 | µg/g | 12% | < 20 | |
| b-Myrcene | 203 | <LOQ | 200 | µg/g | 0% | < 20 | |
| a-phellandrene | <LOQ | <LOQ | 200 | µg/g | 0% | < 20 | |
| d-3-Carene | <LOQ | <LOQ | 200 | µg/g | 0% | < 20 | |
| a-Terpinene | <LOQ | <LOQ | 200 | µg/g | 0% | < 20 | |
| p-Cymene | <LOQ | <LOQ | 200 | µg/g | 0% | < 20 | |
| D-Limonene | 453 | 387 | 200 | µg/g | 16% | < 20 | |
| Eucalyptol | <LOQ | <LOQ | 200 | µg/g | 0% | < 20 | |
| b-cis-Ocimene | <LOQ | <LOQ | 66.7 | µg/g | 0% | < 20 | |
| b-trans-Ocimene | <LOQ | <LOQ | 133 | µg/g | 0% | < 20 | |
| g-Terpinene | <LOQ | <LOQ | 200 | µg/g | 0% | < 20 | |
| Sabinene_Hydrate | <LOQ | <LOQ | 200 | µg/g | 0% | < 20 | |
| Terpinolene | 367 | 312 | 200 | µg/g | 16% | < 20 | |
| D-Fenchone | <LOQ | <LOQ | 200 | µg/g | 0% | < 20 | |
| Linalool | 317 | 315 | 200 | µg/g | 1% | < 20 | |
| Fenchol | <LOQ | <LOQ | 200 | µg/g | 0% | < 20 | |
| Camphor | <LOQ | <LOQ | 200 | µg/g | 0% | < 20 | |
| Isopulego | <LOQ | <LOQ | 200 | µg/g | 0% | < 20 | |
| Isoborneol | <LOQ | <LOQ | 200 | µg/g | 0% | < 20 | |
| Borneol | <LOQ | <LOQ | 200 | µg/g | 0% | < 20 | |
| DL-Menthol | <LOQ | <LOQ | 200 | µg/g | 0% | < 20 | |
| Terpineol | 203 | <LOQ | 200 | µg/g | 0% | < 20 | R2 |
| Nerol | <LOQ | <LOQ | 200 | µg/g | 0% | < 20 | |
| Pulegone | <LOQ | <LOQ | 200 | µg/g | 0% | < 20 | |
| Geraniol | <LOQ | <LOQ | 200 | µg/g | 0% | < 20 | |
| Geranyl_Acetate | <LOQ | <LOQ | 200 | µg/g | 0% | < 20 | |
| a-Cedrene | <LOQ | <LOQ | 200 | µg/g | 0% | < 20 | |
| b-Caryophyllene | 2490 | 2350 | 200 | µg/g | 6% | < 20 | |
| a-Humulene | 437 | 452 | 200 | µg/g | 3% | < 20 | |
| Valenene | <LOQ | <LOQ | 200 | µg/g | 0% | < 20 | |
| cis-Nerolidol | <LOQ | <LOQ | 200 | µg/g | 0% | < 20 | |
| a-Farnesene | <LOQ | <LOQ | 200 | µg/g | 0% | < 20 | |
| trans-Nerolidol | <LOQ | <LOQ | 200 | µg/g | 0% | < 20 | |
| Caryophyllene_Oxide | 328 | 328 | 200 | µg/g | 0% | < 20 | |
| Guaiol | 473 | 483 | 200 | µg/g | 2% | < 20 | |
| Cedrol | <LOQ | <LOQ | 200 | µg/g | 0% | < 20 | |
| a-Bisabolol | 1720 | 1650 | 200 | µg/g | 4% | < 20 | |

Definitions

RPD Relative Percent Difference
 R2 Sample replicates RPD non-calculable, as only one replicate is within analytical range.



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Revision #: 0.00 Control : CFL-D06
 Revision Date: 05/31/2019 Effective Date: 05/31/2019

Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2010313**

| Laboratory Control Sample | | | | | | | | | | |
|---------------------------|--------|-------|-------|-------|------------|------------|-------|--|--|--|
| Analyte | Result | Spike | Units | % Rec | Limits | Evaluation | Notes | | | |
| CBDV-A | 0.0398 | 0.04 | % | 99.4 | 85.0 - 115 | Acceptable | | | | |
| CBDV | 0.0396 | 0.04 | % | 99.1 | 85.0 - 115 | Acceptable | | | | |
| CBD-A | 0.0416 | 0.04 | % | 104 | 85.0 - 115 | Acceptable | | | | |
| CBG-A | 0.0396 | 0.04 | % | 99.0 | 85.0 - 115 | Acceptable | | | | |
| CBG | 0.0396 | 0.04 | % | 99.0 | 85.0 - 115 | Acceptable | | | | |
| CBD | 0.0411 | 0.04 | % | 103 | 85.0 - 115 | Acceptable | | | | |
| THCV | 0.0401 | 0.04 | % | 100 | 85.0 - 115 | Acceptable | | | | |
| THCVA | 0.0391 | 0.04 | % | 97.9 | 85.0 - 115 | Acceptable | | | | |
| CBN | 0.0431 | 0.04 | % | 108 | 85.0 - 115 | Acceptable | | | | |
| THC | 0.0443 | 0.04 | % | 111 | 85.0 - 115 | Acceptable | | | | |
| D8THC | 0.0408 | 0.04 | % | 102 | 85.0 - 115 | Acceptable | | | | |
| CBL | 0.0426 | 0.04 | % | 106 | 85.0 - 115 | Acceptable | | | | |
| CBC | 0.0402 | 0.04 | % | 100 | 85.0 - 115 | Acceptable | | | | |
| THCA | 0.0418 | 0.04 | % | 105 | 85.0 - 115 | Acceptable | | | | |
| CBCA | 0.0402 | 0.04 | % | 100 | 85.0 - 115 | Acceptable | | | | |

Method Blank

| Analyte | Result | LOQ | Units | Limits | Evaluation | Notes | | | | |
|---------|--------|------|-------|--------|------------|-------|--|--|--|--|
| CBDV-A | <LOQ | 0.03 | % | < 0.03 | Acceptable | | | | | |
| CBDV | <LOQ | 0.03 | % | < 0.03 | Acceptable | | | | | |
| CBD-A | <LOQ | 0.03 | % | < 0.03 | Acceptable | | | | | |
| CBG-A | <LOQ | 0.03 | % | < 0.03 | Acceptable | | | | | |
| CBG | <LOQ | 0.03 | % | < 0.03 | Acceptable | | | | | |
| CBD | <LOQ | 0.03 | % | < 0.03 | Acceptable | | | | | |
| THCV | <LOQ | 0.03 | % | < 0.03 | Acceptable | | | | | |
| THCVA | <LOQ | 0.03 | % | < 0.03 | Acceptable | | | | | |
| CBN | <LOQ | 0.03 | % | < 0.03 | Acceptable | | | | | |
| THC | <LOQ | 0.03 | % | < 0.03 | Acceptable | | | | | |
| D8THC | <LOQ | 0.03 | % | < 0.03 | Acceptable | | | | | |
| CBL | <LOQ | 0.03 | % | < 0.03 | Acceptable | | | | | |
| CBC | <LOQ | 0.03 | % | < 0.03 | Acceptable | | | | | |
| THCA | <LOQ | 0.03 | % | < 0.03 | Acceptable | | | | | |
| CBCA | <LOQ | 0.03 | % | < 0.03 | 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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Revision #: 0.00 Control : CFL-D06
 Revision Date: 05/31/2019 Effective Date: 05/31/2019

Laboratory Quality Control Results

| J AOAC 2015 V98-6 | | Batch ID: 2010313 | | | | | | | |
|-------------------|--------|---------------------------|------|-------|--------|--------|------------|-------|--|
| Sample Duplicate | | Sample ID: 20-013385-0001 | | | | | | | |
| Analyte | Result | Org. Result | LOQ | Units | RPD | Limits | Evaluation | Notes | |
| CBDV-A | 0.0432 | 0.0436 | 0.03 | % | 0.796 | < 20 | Acceptable | | |
| CBDV | <LOQ | <LOQ | 0.03 | % | NA | < 20 | Acceptable | | |
| CBD-A | 10.6 | 10.8 | 0.03 | % | 1.84 | < 20 | Acceptable | | |
| CBG-A | 0.171 | 0.175 | 0.03 | % | 2.44 | < 20 | Acceptable | | |
| CBG | 0.0838 | 0.0842 | 0.03 | % | 0.432 | < 20 | Acceptable | | |
| CBD | 2.28 | 2.28 | 0.03 | % | 0.0556 | < 20 | Acceptable | | |
| THCV | <LOQ | <LOQ | 0.03 | % | NA | < 20 | Acceptable | | |
| THCVA | <LOQ | <LOQ | 0.03 | % | NA | < 20 | Acceptable | | |
| CBN | <LOQ | <LOQ | 0.03 | % | NA | < 20 | Acceptable | | |
| THC | 0.168 | 0.172 | 0.03 | % | 2.48 | < 20 | Acceptable | | |
| D8THC | <LOQ | <LOQ | 0.03 | % | NA | < 20 | Acceptable | | |
| CBL | <LOQ | <LOQ | 0.03 | % | NA | < 20 | Acceptable | | |
| CBC | 0.461 | 0.462 | 0.03 | % | 0.402 | < 20 | Acceptable | | |
| THCA | 0.192 | 0.192 | 0.03 | % | 0.258 | < 20 | Acceptable | | |
| CBCA | 1.27 | 1.28 | 0.03 | % | 0.656 | < 20 | Acceptable | | |

Abbreviations

- ND - None Detected at or above MRL
- RPD - Relative Percent Difference
- LOQ - Limit of Quantitation
- NA - Calculation Not Applicable given non-numerical results

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. |