Columbia LABORATORIES
A Tentamus Company

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

**Report Number:** 25-011020/D004.R000
**Report Date:** 10/01/2025
**ORELAP#:** OR100028
**Purchase Order:**
**Received:** 09/17/25 09:52

**Customer:** The Hemp Collect
2014 SE 9th Ave
Portland Oregon 97214
United States of America (USA)

**Product identity:** Live D9 Gummy, Hybrid, Sour Watermelon, 20mg
**Metrc ID:** .
**Material:** Cannabinoid Edible
**Laboratory ID:** 25-011020-0002
**Evidence of Cooling:** No
**Temp:** 22.8 °C
**Lot #:** 3030NC_091525
**Serving Size #1:** 8 g

THE HEMP COLLECT

## Sample Results

Potency **Method:** J AOAC 2015 V98-6 (mod)þ **Batch:** 2506792 **Analyze:** 09/18/25

| Analyte | Result | Units | LOQ | Notes | Serving Size #1 Result | Units | LOQ |
|---|---|---|---|---|---|---|---|
| CBC | 0.0711 | % | 0.0078 | | 5.68 | mg/8g | 0.62 |
| CBC-A | < LOQ | % | 0.0078 | | < LOQ | mg/8g | 0.62 |
| CBC-Total | 0.0711 | % | 0.0146 | | 5.69 | mg/8g | 1.17 |
| CBD ⊥ | < LOQ | % | 0.0078 | | < LOQ | mg/8g | 0.62 |
| CBD-A ⊥ | 0.0101 | % | 0.0078 | | 0.804 | mg/8g | 0.62 |
| CBD-Total ⊥ | < LOQ | % | 0.0146 | | < LOQ | mg/8g | 1.17 |
| CBDV | < LOQ | % | 0.0078 | | < LOQ | mg/8g | 0.62 |
| CBDV-A | < LOQ | % | 0.0078 | | < LOQ | mg/8g | 0.62 |
| CBDV-Total | < LOQ | % | 0.0145 | | < LOQ | mg/8g | 1.16 |
| CBE | < LOQ | % | 0.0078 | | < LOQ | mg/8g | 0.62 |
| CBG | 0.00861 | % | 0.0078 | | 0.689 | mg/8g | 0.62 |
| CBG-A | < LOQ | % | 0.0078 | | < LOQ | mg/8g | 0.62 |
| CBG-Total | < LOQ | % | 0.0145 | | < LOQ | mg/8g | 1.16 |
| CBL | < LOQ | % | 0.0078 | | < LOQ | mg/8g | 0.62 |
| CBL-A | < LOQ | % | 0.0078 | | < LOQ | mg/8g | 0.62 |
| CBL-Total | < LOQ | % | 0.0146 | | < LOQ | mg/8g | 1.17 |
| CBN | < LOQ | % | 0.0078 | | < LOQ | mg/8g | 0.62 |
| CBT | < LOQ | % | 0.0078 | | < LOQ | mg/8g | 0.62 |
| Δ10-THC-9R | < LOQ | % | 0.0078 | | < LOQ | mg/8g | 0.62 |
| Δ10-THC-9S | < LOQ | % | 0.0078 | | < LOQ | mg/8g | 0.62 |
| Δ10-THC-Total | < LOQ | % | 0.0156 | | < LOQ | mg/8g | 1.25 |
| Δ8-THC ⊥ | < LOQ | % | 0.0078 | | < LOQ | mg/8g | 0.62 |
| Δ8-THCV | < LOQ | % | 0.0078 | | < LOQ | mg/8g | 0.62 |
| Δ9-THC ⊥ | 0.262 | % | 0.0078 | | 21.0 | mg/8g | 0.62 |
| Δ9-THC-A ⊥ | < LOQ | % | 0.0078 | | < LOQ | mg/8g | 0.62 |
| Δ9-THC-Total ⊥ | 0.262 | % | 0.0146 | | 21.0 | mg/8g | 1.17 |
| Δ9-THCP | < LOQ | % | 0.0078 | | < LOQ | mg/8g | 0.62 |
| Δ9-THCV | < LOQ | % | 0.0078 | | < LOQ | mg/8g | 0.62 |
| Δ9-THCV-A | < LOQ | % | 0.0078 | | < LOQ | mg/8g | 0.62 |
| Δ9-THCV-Total | < LOQ | % | 0.0145 | | < LOQ | mg/8g | 1.16 |

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**Received:** 09/17/25 09:52

## Potency

**Method:** J AOAC 2015 V98-6 (mod)þ **Batch:** 2506792 **Analyze:** 09/18/25

| Analyte | Result | Units | LOQ | Notes | Serving Size #1 Result | Units | LOQ |
|---|---|---|---|---|---|---|---|
| exo-THC | < LOQ | % | 0.0078 | | < LOQ | mg/8g | 0.62 |
| **Total Cannabinoids** | 0.352 | % | | | 28.2 | mg/8g | |

## Microbiology

| Analyte | Result | Limits | Units | LOQ | Batch | Analyzed | Method | Status | Notes |
|---|---|---|---|---|---|---|---|---|---|
| Salmonella spp. ⊥ | Negative | | /25g | | 2506938 | 09/25/25 | AOAC 2020.02þ | | |
| EHEC including STEC ⊥ | Negative | | /25g | | 2506939 | 09/25/25 | AOAC 2020.06þ | | |

## Solvents

**Method:** Residual Solvents by HS-GC-MSþ **Units** µg/g **Batch** 2507067 **Analyze:** 09/29/25

| Analyte | Result | Limits | LOQ | Status | Notes | Analyte | Result | Limits | LOQ | Status | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane ⊥ | < LOQ | 380 | 100 | pass | | 2-Butanol ⊥ | < LOQ | 5000 | 200 | pass | |
| 2-Ethoxyethanol ⊥ | < LOQ | 160 | 30.0 | pass | | 2-Methylbutane (Isopentane) ⊥ | < LOQ | | 200 | | |
| 2-Methylpentane ⊥ | < LOQ | | 30.0 | | | 2-Propanol (IPA) ⊥ | < LOQ | 5000 | 200 | pass | |
| 2,2-Dimethylbutane ⊥ | < LOQ | | 30.0 | | | 2,2-Dimethylpropane (neo-pentane) ⊥ | < LOQ | | 200 | | |
| 2,3-Dimethylbutane ⊥ | < LOQ | | 30.0 | | | 3-Methylpentane ⊥ | < LOQ | | 30.0 | | |
| Acetone ⊥ | < LOQ | 5000 | 200 | pass | | Acetonitrile ⊥ | < LOQ | 410 | 100 | pass | |
| Benzene ⊥ | < LOQ | 2.00 | 1.00 | pass | | Butanes (sum) ⊥ | < LOQ | 5000 | 400 | pass | |
| Cyclohexane ⊥ | < LOQ | 3880 | 200 | pass | | Ethyl acetate ⊥ | < LOQ | 5000 | 200 | pass | |
| Ethyl benzene | < LOQ | | 200 | | | Ethyl ether ⊥ | < LOQ | 5000 | 200 | pass | |
| Ethylene glycol ⊥ | < LOQ | 620 | 200 | pass | | Ethylene oxide ⊥ | < LOQ | 50.0 | 20.0 | pass | |
| Hexanes (sum) ⊥ | < LOQ | 290 | 150 | pass | | Isopropyl acetate ⊥ | < LOQ | 5000 | 200 | pass | |
| Isopropylbenzene (Cumene) ⊥ | < LOQ | 70.0 | 30.0 | pass | | m,p-Xylene ⊥ | < LOQ | | 200 | | |
| Methanol ⊥ | < LOQ | 3000 | 200 | pass | | Methylene chloride ⊥ | < LOQ | 600 | 60.0 | pass | |
| Methylpropane (Isobutane) ⊥ | < LOQ | | 200 | | | n-Butane ⊥ | < LOQ | | 200 | | |
| n-Heptane ⊥ | < LOQ | 5000 | 200 | pass | | n-Hexane ⊥ | < LOQ | | 30.0 | | |
| n-Pentane ⊥ | < LOQ | | 200 | | | o-Xylene ⊥ | < LOQ | | 200 | | |
| Pentanes (sum) ⊥ | < LOQ | 5000 | 600 | pass | | Propane ⊥ | < LOQ | 5000 | 200 | pass | |
| Tetrahydrofuran ⊥ | < LOQ | 720 | 100 | pass | | Toluene ⊥ | < LOQ | 890 | 100 | pass | |
| Total Xylenes ⊥ | < LOQ | | 400 | | | Total Xylenes and Ethyl benzene | < LOQ | 2170 | 600 | pass | |

## Pesticides

**Method:** AOAC 2007.01 & EN 15662 (mod) **Units** mg/kg **Batch** 2507062 **Analyze:** 09/29/25

| Analyte | Result | Limits | LOQ | Status | Notes | Analyte | Result | Limits | LOQ | Status | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Abamectin ⊥ | < LOQ | 0.50 | 0.250 | pass | | Acephate ⊥ | < LOQ | 0.40 | 0.200 | pass | |
| Acequinocyl ⊥ | < LOQ | 2.0 | 1.00 | pass | | Acetamiprid ⊥ | < LOQ | 0.20 | 0.100 | pass | |
| Aldicarb ⊥ | < LOQ | 0.40 | 0.200 | pass | | Azoxystrobin ⊥ | < LOQ | 0.20 | 0.100 | pass | |
| Bifenazate ⊥ | < LOQ | 0.20 | 0.100 | pass | | Bifenthrin ⊥ | < LOQ | 0.20 | 0.100 | pass | |
| Boscalid ⊥ | < LOQ | 0.40 | 0.200 | pass | | Carbaryl ⊥ | < LOQ | 0.20 | 0.100 | pass | |
| Carbofuran ⊥ | < LOQ | 0.20 | 0.100 | pass | | Chlorantraniliprole ⊥ | < LOQ | 0.20 | 0.100 | pass | |
| Chlorfenapyr ⊥ | < LOQ | 1.0 | 0.500 | pass | | Chlorpyrifos-ethyl ⊥ | < LOQ | 0.20 | 0.100 | pass | |
| Clofentezine ⊥ | < LOQ | 0.20 | 0.100 | pass | | Cyfluthrin (sum ) ⊥ | < LOQ | 1.0 | 0.500 | pass | |
| Cypermethrin (sum) ⊥ | < LOQ | 1.0 | 0.500 | pass | | Daminozide ⊥ | < LOQ | 1.0 | 0.500 | pass | |

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**ORELAP#:** OR100028
**Purchase Order:**
**Received:** 09/17/25 09:52

Pesticides **Method:** AOAC 2007.01 & EN 15662 (mod) **Units** mg/kg **Batch** 2507062 **Analyze:** 09/29/25

| Analyte | Result | Limits | LOQ | Status | Notes | Analyte | Result | Limits | LOQ | Status | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diazinon ⊥ | < LOQ | 0.20 | 0.100 | pass | | Dichlorvos ⊥ | < LOQ | 1.0 | 0.500 | pass | |
| Dimethoate ⊥ | < LOQ | 0.20 | 0.100 | pass | | Ethoprophos ⊥ | < LOQ | 0.20 | 0.100 | pass | |
| Etofenprox ⊥ | < LOQ | 0.40 | 0.200 | pass | | Etoxazole ⊥ | < LOQ | 0.20 | 0.100 | pass | |
| Fenoxycarb ⊥ | < LOQ | 0.20 | 0.100 | pass | | Fenpyroximate ⊥ | < LOQ | 0.40 | 0.200 | pass | |
| Fipronil ⊥ | < LOQ | 0.40 | 0.200 | pass | | Flonicamid ⊥ | < LOQ | 1.0 | 0.400 | pass | |
| Fludioxonil ⊥ | < LOQ | 0.40 | 0.200 | pass | | Hexythiazox ⊥ | < LOQ | 1.0 | 0.400 | pass | |
| Imazalil ⊥ | < LOQ | 0.20 | 0.100 | pass | | Imidacloprid ⊥ | < LOQ | 0.40 | 0.200 | pass | |
| Kresoxim-methyl ⊥ | < LOQ | 0.40 | 0.200 | pass | | Malathion ⊥ | < LOQ | 0.20 | 0.100 | pass | |
| Metalaxyl ⊥ | < LOQ | 0.20 | 0.100 | pass | | Methiocarb ⊥ | < LOQ | 0.20 | 0.100 | pass | |
| Methomyl ⊥ | < LOQ | 0.40 | 0.200 | pass | | MGK-264 ⊥ | < LOQ | 0.20 | 0.100 | pass | |
| Myclobutanil ⊥ | < LOQ | 0.20 | 0.100 | pass | | Naled ⊥ | < LOQ | 0.50 | 0.250 | pass | |
| Oxamyl ⊥ | < LOQ | 1.0 | 0.500 | pass | | Paclobutrazole ⊥ | < LOQ | 0.40 | 0.200 | pass | |
| Parathion-methyl ⊥ | < LOQ | 0.20 | 0.100 | pass | | Permethrin ⊥ | < LOQ | 0.20 | 0.100 | pass | |
| Phosmet ⊥ | < LOQ | 0.20 | 0.100 | pass | | Piperonyl butoxide ⊥ | < LOQ | 2.0 | 1.00 | pass | |
| Prallethrin ⊥ | < LOQ | 0.20 | 0.100 | pass | | Propiconazole ⊥ | < LOQ | 0.40 | 0.200 | pass | |
| Propoxur ⊥ | < LOQ | 0.20 | 0.100 | pass | | Pyrethrin I (total) ⊥ | < LOQ | 1.0 | 0.500 | pass | |
| Pyridaben ⊥ | < LOQ | 0.20 | 0.100 | pass | | Spinosad ⊥ | < LOQ | 0.20 | 0.100 | pass | |
| Spiromesifen ⊥ | < LOQ | 0.20 | 0.100 | pass | | Spirotetramat ⊥ | < LOQ | 0.20 | 0.100 | pass | |
| Spiroxamine ⊥ | < LOQ | 0.40 | 0.200 | pass | | Tebuconazole ⊥ | < LOQ | 0.40 | 0.200 | pass | |
| Thiacloprid ⊥ | < LOQ | 0.20 | 0.100 | pass | | Thiamethoxam ⊥ | < LOQ | 0.20 | 0.100 | pass | |
| Trifloxystrobin ⊥ | < LOQ | 0.20 | 0.100 | pass | | | | | | | |

Terpenes **Method:** J AOAC 2015 V98-6ᵇ **Units** % **Batch** 2507137 **Analyze:** 09/30/25

| Analyte | Result | LOQ | % of Total | Notes | Analyte | Result | LOQ | % of Total | Notes |
|---|---|---|---|---|---|---|---|---|---|
| nerol | < LOQ | 0.019 | 0.00% | | (+)-Pulegone | < LOQ | 0.019 | 0.00% | |
| farnesene | < LOQ | 0.019 | 0.00% | | (+)-fenchol | < LOQ | 0.019 | 0.00% | |
| Geranyl acetate | < LOQ | 0.019 | 0.00% | | (±)-cis-Nerolidol | < LOQ | 0.019 | 0.00% | |
| Humulene | < LOQ | 0.019 | 0.00% | | a-Terpinene | < LOQ | 0.019 | 0.00% | |
| p-Cymene | < LOQ | 0.019 | 0.00% | | a-cedrene | < LOQ | 0.019 | 0.00% | |
| (-)-Guaiol | < LOQ | 0.019 | 0.00% | | valencene | < LOQ | 0.019 | 0.00% | |
| cis-ß-Ocimene | < LOQ | 0.006 | 0.00% | | a-Bisabolol | < LOQ | 0.019 | 0.00% | |
| ß-Caryophyllene | < LOQ | 0.019 | 0.00% | | (+)-Cedrol | < LOQ | 0.019 | 0.00% | |
| Camphene | < LOQ | 0.019 | 0.00% | | (-)-a-Terpineol | < LOQ | 0.019 | 0.00% | |
| (-)-caryophyllene oxide | < LOQ | 0.019 | 0.00% | | (-)-Isopulegol | < LOQ | 0.019 | 0.00% | |
| (-)-ß-Pinene | < LOQ | 0.019 | 0.00% | | (+)-Borneol | < LOQ | 0.019 | 0.00% | |
| (±)-Camphor | < LOQ | 0.019 | 0.00% | | (±)-fenchone | < LOQ | 0.019 | 0.00% | |
| (±)-trans-Nerolidol | < LOQ | 0.019 | 0.00% | | (R)-(+)-Limonene | < LOQ | 0.019 | 0.00% | |
| a-phellandrene | < LOQ | 0.019 | 0.00% | | a-pinene | < LOQ | 0.019 | 0.00% | |
| d-3-Carene | < LOQ | 0.019 | 0.00% | | Eucalyptol | < LOQ | 0.019 | 0.00% | |
| gamma-Terpinene | < LOQ | 0.019 | 0.00% | | Geraniol | < LOQ | 0.019 | 0.00% | |
| Isoborneol | < LOQ | 0.019 | 0.00% | | Linalool | < LOQ | 0.019 | 0.00% | |
| Menthol | < LOQ | 0.019 | 0.00% | | Sabinene | < LOQ | 0.019 | 0.00% | |
| Sabinene hydrate | < LOQ | 0.019 | 0.00% | | ß-Myrcene | < LOQ | 0.019 | 0.00% | |
| Terpinolene | < LOQ | 0.019 | 0.00% | | trans-ß-Ocimene | < LOQ | 0.013 | 0.00% | |
| **Total Terpenes** | **< LOQ** | | | | | | | | |

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**Purchase Order:**
**Received:** 09/17/25 09:52

## Metals

| Analyte | Result | Limits | Units | LOQ | Batch | Analyzed | Method | Status | Notes |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic ⊥ | < LOQ | 0.200 | mg/kg | 0.0173 | 2507034 | 09/26/25 | AOAC 2013.06 (mod.)þ | pass | |
| Cadmium ⊥ | < LOQ | 0.200 | mg/kg | 0.0173 | 2507034 | 09/26/25 | AOAC 2013.06 (mod.)þ | pass | |
| Lead ⊥ | < LOQ | 0.500 | mg/kg | 0.0173 | 2507034 | 09/26/25 | AOAC 2013.06 (mod.)þ | pass | |
| Mercury ⊥ | < LOQ | 0.100 | mg/kg | 0.00867 | 2507034 | 09/26/25 | AOAC 2013.06 (mod.)þ | pass | |

## Mycotoxins

| Analyte | Result | Limits | Units | LOQ | Batch | Analyzed | Method | Status | Notes |
|---|---|---|---|---|---|---|---|---|---|
| Aflatoxin B1 ⊥ | < LOQ | | µg/kg | 5.00 | 2507059 | 09/29/25 | Mycotoxins by AOAC 2007.01 | | |
| Aflatoxin B2 ⊥ | < LOQ | | µg/kg | 5.00 | 2507059 | 09/29/25 | Mycotoxins by AOAC 2007.01 | | |
| Aflatoxin G1 ⊥ | < LOQ | | µg/kg | 5.00 | 2507059 | 09/29/25 | Mycotoxins by AOAC 2007.01 | | |
| Aflatoxin G2 ⊥ | < LOQ | | µg/kg | 5.00 | 2507059 | 09/29/25 | Mycotoxins by AOAC 2007.01 | | |
| Ochratoxin A | < LOQ | 20.0 | µg/kg | 5.00 | 2507059 | 09/29/25 | Mycotoxins by AOAC 2007.01þ | pass | |
| Total Aflatoxins | < LOQ | 20.0 | µg/kg | 20.0 | | 10/01/25 | Mycotoxins by AOAC 2007.01þ | pass | |

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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.

**Threshold Note:** OAR 333-007-0400

þ = ISO/IEC 17025:2017 accredited method.
⊥ = TNI accredited analyte.

***Units of Measure***

/25g = Per 25g
µg/g = Microgram per gram
µg/kg = Micrograms per kilogram = parts per billion (ppb)
mg/kg = Milligram per kilogram = parts per million (ppm)
% = Percentage of sample
mg/8g = Milligram per 8g
% wt = µg/g divided by 10,000

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Columbia LABORATORIES
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**Hemp & Cannabis**
**Chain of Custody**

**The-Hemp-Collect-1758053074**

**Company Details**
Company: The Hemp Collect
Contact: Brooke McKenzie
Street Address: 2014 SE 9th Ave
City, State, Zip:Portland, OR 97214
Email: Coas@thehempcollect.com
Contact Phone: 7707220962

**Billing Information**
Billing Email: accounting@thehempcollect.com

**Project Details**
Turnaround Time: 4 Business Days | Surcharges Apply
Relinquishment | Sampling, Courier & Shipping Options: By Shipping Service (USPS, UPS, Fedex)

**Receipt Information**
Evidence of Cooling?: No
Sample Condition: Satisfactory
Prelog Storage: Canna Shelves

| # | Sample Name | Lot \| Additional Sample ID | Material | METRC Sample Package ID | Amount Provided | Reporting Unit | Specifications | Additional Test Requests and Sample Comments | Testing H |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Live D9 Gummy, Hybrid, Sour Apple, 20mg | 3008.2NC_091525 | Cannabinoid Edible | N/A | 64 g | mg/g | mg/8g Gummy | Additional compliance testing will be added after reviewing potency. | ✓ |
| 2 | Live D9 Gummy, Hybrid, Sour Watermelon, 20mg | 3030NC_091525 | Cannabinoid Edible | N/A | 64 g | mg/g | mg/8g Gummy | Additional compliance testing will be added after reviewing potency. | ✓ |

| Relinquished By | Date | Time | Received By | Date | Time | Received Temp., °C | IR Therm. CL# |
|---|---|---|---|---|---|---|---|
| | 09/16/2025 | 13:04 | dst | 09/17/2025 | 09:52 | 22.80 | CL-1243 |

*Samples submitted to Columbia Laboratories with testing requirements constitute an agreement for services in accordance with the current terms of services associated with this COC. By signing "Relinquished by" you are agreeing to these terms.*

*Columbia Laboratories*
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*Portland, OR 97230*

*P: (503) 254-1794*
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Revision: 4 Document ID: 7148
Legacy ID: Worksheet Validated 04/20/2021

## Laboratory Quality Control Results

**J AOAC 2015 V98-6** **Batch ID: 2506792**

**Laboratory Control Sample**

| Analyte | LCS | Result | Spike | Units | % Rec | Limits | Evaluation | Notes |
|---|---|---|---|---|---|---|---|---|
| CBDVA | 2 | 0.0284 | 0.0280 | % | 101 | 80.0 - 120 | Acceptable | |
| CBDV | 2 | 0.0291 | 0.0286 | % | 102 | 80.0 - 120 | Acceptable | |
| CBE | 2 | 0.0331 | 0.0324 | % | 102 | 80.0 - 120 | Acceptable | |
| CBDA | 1 | 0.0277 | 0.0268 | % | 103 | 90.0 - 110 | Acceptable | |
| CBGA | 1 | 0.0304 | 0.0305 | % | 99.7 | 80.0 - 120 | Acceptable | |
| CBG | 1 | 0.0285 | 0.0280 | % | 102 | 80.0 - 120 | Acceptable | |
| CBD | 1 | 0.0278 | 0.0276 | % | 101 | 90.0 - 110 | Acceptable | |
| THCV | 2 | 0.0303 | 0.0302 | % | 100 | 80.0 - 120 | Acceptable | |
| d8THCV | 2 | 0.0307 | 0.0306 | % | 100 | 80.0 - 120 | Acceptable | |
| THCVA | 2 | 0.0277 | 0.0270 | % | 103 | 80.0 - 120 | Acceptable | |
| CBN | 1 | 0.0283 | 0.0282 | % | 100 | 80.0 - 120 | Acceptable | |
| exo-THC | 2 | 0.0280 | 0.0279 | % | 100 | 80.0 - 120 | Acceptable | |
| d9THC | 1 | 0.0301 | 0.0294 | % | 102 | 90.0 - 110 | Acceptable | |
| d8THC | 1 | 0.0285 | 0.0291 | % | 97.7 | 90.0 - 110 | Acceptable | |
| 9S-d10THC | 1 | 0.0314 | 0.0312 | % | 101 | 80.0 - 120 | Acceptable | |
| CBL | 2 | 0.0296 | 0.0284 | % | 104 | 80.0 - 120 | Acceptable | |
| 9R-d10THC | 1 | 0.0294 | 0.0311 | % | 94.3 | 80.0 - 120 | Acceptable | |
| CBC | 2 | 0.0295 | 0.0295 | % | 99.8 | 80.0 - 120 | Acceptable | |
| THCA | 1 | 0.0306 | 0.0328 | % | 93.2 | 90.0 - 110 | Acceptable | |
| CBCA | 2 | 0.0292 | 0.0289 | % | 101 | 80.0 - 120 | Acceptable | |
| CBLA | 2 | 0.0300 | 0.0292 | % | 103 | 80.0 - 120 | Acceptable | |
| d9THCP | 2 | 0.0291 | 0.0282 | % | 103 | 80.0 - 120 | Acceptable | |
| CBT | 2 | 0.0289 | 0.0287 | % | 101 | 80.0 - 120 | Acceptable | |

**Method Blank**

| Analyte | Result | LOQ | Units | Limits | Evaluation | Notes |
|---|---|---|---|---|---|---|
| CBDVA | <LOQ | 0.00757 | % | < 0.00757 | Acceptable | |
| CBDV | <LOQ | 0.00757 | % | < 0.00757 | Acceptable | |
| CBE | <LOQ | 0.00757 | % | < 0.00757 | Acceptable | |
| CBDA | <LOQ | 0.00757 | % | < 0.00757 | Acceptable | |
| CBGA | <LOQ | 0.00757 | % | < 0.00757 | Acceptable | |
| CBG | <LOQ | 0.00757 | % | < 0.00757 | Acceptable | |
| CBD | <LOQ | 0.00757 | % | < 0.00757 | Acceptable | |
| THCV | <LOQ | 0.00757 | % | < 0.00757 | Acceptable | |
| d8THCV | <LOQ | 0.00757 | % | < 0.00757 | Acceptable | |
| THCVA | <LOQ | 0.00757 | % | < 0.00757 | Acceptable | |
| CBN | <LOQ | 0.00757 | % | < 0.00757 | Acceptable | |
| exo-THC | <LOQ | 0.00757 | % | < 0.00757 | Acceptable | |
| d9THC | <LOQ | 0.00757 | % | < 0.00757 | Acceptable | |
| d8THC | <LOQ | 0.00757 | % | < 0.00757 | Acceptable | |
| 9S-d10THC | <LOQ | 0.00757 | % | < 0.00757 | Acceptable | |
| CBL | <LOQ | 0.00757 | % | < 0.00757 | Acceptable | |
| 9R-d10THC | <LOQ | 0.00757 | % | < 0.00757 | Acceptable | |
| CBC | <LOQ | 0.00757 | % | < 0.00757 | Acceptable | |
| THCA | <LOQ | 0.00757 | % | < 0.00757 | Acceptable | |
| CBCA | <LOQ | 0.00757 | % | < 0.00757 | Acceptable | |
| CBLA | <LOQ | 0.00757 | % | < 0.00757 | Acceptable | |
| d9THCP | <LOQ | 0.00757 | % | < 0.00757 | Acceptable | |
| CBT | <LOQ | 0.00757 | % | < 0.00757 | Acceptable | |

***Abbreviations***

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

***Units of Measure:***

% - Percent

Columbia LABORATORIES
A Tentamus Company

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

**Report Number:** 25-011020/D004.R000
**Report Date:** 10/01/2025
**ORELAP#:** OR100028
**Purchase Order:**
**Received:** 09/17/25 09:52

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

**Laboratory Quality Control Results**

**J AOAC 2015 V98-6** **Batch ID: 2506792**

**Sample Duplicate** Sample ID: **25-011018-0001**

| Analyte | Result | Org. Result | LOQ | Units | RPD | Limits | Evaluation | Notes |
|---|---|---|---|---|---|---|---|---|
| CBDVA | <LOQ | <LOQ | 0.00760 | % | NA | < 20 | Acceptable | |
| CBDV | <LOQ | <LOQ | 0.00760 | % | NA | < 20 | Acceptable | |
| CBE | <LOQ | <LOQ | 0.00760 | % | NA | < 20 | Acceptable | |
| CBDA | 0.0639 | 0.0647 | 0.00760 | % | 1.37 | < 10 | Acceptable | |
| CBGA | <LOQ | <LOQ | 0.00760 | % | NA | < 20 | Acceptable | |
| CBG | <LOQ | <LOQ | 0.00760 | % | NA | < 20 | Acceptable | |
| CBD | 0.172 | 0.173 | 0.00760 | % | 0.458 | < 10 | Acceptable | |
| THCV | <LOQ | <LOQ | 0.00760 | % | NA | < 20 | Acceptable | |
| d8THCV | <LOQ | <LOQ | 0.00760 | % | NA | < 20 | Acceptable | |
| THCVA | <LOQ | <LOQ | 0.00760 | % | NA | < 20 | Acceptable | |
| CBN | <LOQ | <LOQ | 0.00760 | % | NA | < 20 | Acceptable | |
| exo-THC | <LOQ | <LOQ | 0.00760 | % | NA | < 20 | Acceptable | |
| d9THC | <LOQ | <LOQ | 0.00760 | % | NA | < 10 | Acceptable | |
| d8THC | <LOQ | <LOQ | 0.00760 | % | NA | < 10 | Acceptable | |
| 9S-d10THC | <LOQ | <LOQ | 0.00760 | % | NA | < 20 | Acceptable | |
| CBL | <LOQ | <LOQ | 0.00760 | % | NA | < 20 | Acceptable | |
| 9R-d10THC | <LOQ | <LOQ | 0.00760 | % | NA | < 20 | Acceptable | |
| CBC | <LOQ | <LOQ | 0.00760 | % | NA | < 20 | Acceptable | |
| THCA | <LOQ | <LOQ | 0.00760 | % | NA | < 10 | Acceptable | |
| CBCA | <LOQ | <LOQ | 0.00760 | % | NA | < 20 | Acceptable | |
| CBLA | <LOQ | <LOQ | 0.00760 | % | NA | < 20 | Acceptable | |
| d9THCP | <LOQ | <LOQ | 0.00760 | % | NA | < 20 | Acceptable | |
| CBT | <LOQ | <LOQ | 0.00760 | % | 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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Revision: 3 Document ID: 3120
Legacy ID: CFL-C21 Worksheet Validated 10/30/2020

## Laboratory Pesticide Quality Control Results

**AOAC 2007.1 & EN 15662** **Units:** mg/Kg **Batch ID:** 2507062

| Method Blank | | | | Laboratory Control Sample | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Analyte** | **Blank Result** | **Blank Limits** | **Notes** | **LCS Result** | **LCS Spike** | **LCS % Rec** | **Limits** | | **Notes** |
| Abamectin | 0.000 | < 0.250 | | 0.918 | 1.000 | 91.8 | 50.0 | 150 | |
| Acephate | 0.000 | < 0.200 | | 0.703 | 0.800 | 87.9 | 60.0 | 120 | |
| Acequinocyl | 0.029 | < 1.000 | | 2.456 | 4.000 | 61.4 | 40.0 | 160 | |
| Acetamiprid | 0.000 | < 0.100 | | 0.355 | 0.400 | 88.8 | 60.0 | 120 | |
| Aldicarb | 0.000 | < 0.200 | | 0.695 | 0.800 | 86.9 | 60.0 | 120 | |
| Azoxystrobin | 0.006 | < 0.100 | | 0.330 | 0.400 | 82.6 | 60.0 | 120 | |
| Bifenazate | 0.000 | < 0.100 | | 0.382 | 0.400 | 95.5 | 60.0 | 120 | |
| Bifenthrin | 0.000 | < 0.100 | | 0.309 | 0.400 | 77.3 | 50.0 | 150 | |
| Boscalid | 0.000 | < 0.200 | | 0.721 | 0.800 | 90.1 | 60.0 | 120 | |
| Carbaryl | 0.000 | < 0.100 | | 0.348 | 0.400 | 86.9 | 60.0 | 120 | |
| Carbofuran | 0.000 | < 0.100 | | 0.357 | 0.400 | 89.3 | 60.0 | 120 | |
| Chlorantraniliprole | 0.000 | < 0.100 | | 0.364 | 0.400 | 91.1 | 60.0 | 120 | |
| Chlorfenapyr | 0.000 | < 0.500 | | 1.513 | 2.000 | 75.7 | 60.0 | 120 | |
| Chlorpyrifos | 0.005 | < 0.100 | | 0.332 | 0.400 | 83.0 | 60.0 | 120 | |
| Clofentezine | 0.000 | < 0.100 | | 0.347 | 0.400 | 86.7 | 60.0 | 120 | |
| Cyfluthrin | 0.000 | < 0.500 | | 1.719 | 2.000 | 85.9 | 50.0 | 150 | |
| Cypermethrin | 0.000 | < 0.500 | | 1.605 | 2.000 | 80.3 | 50.0 | 150 | |
| Daminozide | 0.000 | < 0.500 | | 0.655 | 2.000 | ***32.8*** | 60.0 | 120 | **Q7** |
| Diazinon | 0.001 | < 0.100 | | 0.353 | 0.400 | 88.3 | 60.0 | 120 | |
| Dichlorvos | 0.000 | < 0.500 | | 1.743 | 2.000 | 87.2 | 60.0 | 120 | |
| Dimethoate | 0.000 | < 0.100 | | 0.357 | 0.400 | 89.3 | 60.0 | 120 | |
| Ethoprophos | 0.000 | < 0.100 | | 0.359 | 0.400 | 89.7 | 60.0 | 120 | |
| Etofenprox | 0.002 | < 0.200 | | 0.602 | 0.800 | 75.2 | 50.0 | 150 | |
| Etoxazole | 0.001 | < 0.100 | | 0.340 | 0.400 | 85.0 | 60.0 | 120 | |
| Fenoxycarb | 0.001 | < 0.100 | | 0.343 | 0.400 | 85.8 | 60.0 | 120 | |
| Fenpyroximate | 0.000 | < 0.200 | | 0.681 | 0.800 | 85.1 | 60.0 | 120 | |
| Fipronil | 0.000 | < 0.200 | | 0.775 | 0.800 | 96.9 | 60.0 | 120 | |
| Flonicamid | 0.000 | < 0.250 | | 0.895 | 1.000 | 89.5 | 60.0 | 120 | |
| Fludioxonil | 0.000 | < 0.200 | | 0.796 | 0.800 | 99.5 | 50.0 | 150 | |
| Hexythiazox | 0.000 | < 0.250 | | 0.807 | 1.000 | 80.7 | 60.0 | 120 | |
| Imazalil | 0.007 | < 0.100 | | 0.364 | 0.400 | 91.0 | 60.0 | 120 | |
| Imidacloprid | 0.000 | < 0.200 | | 0.726 | 0.800 | 90.7 | 60.0 | 120 | |
| Kresoxim-methyl | 0.000 | < 0.200 | | 0.722 | 0.800 | 90.2 | 60.0 | 120 | |
| Malathion | 0.000 | < 0.100 | | 0.383 | 0.400 | 95.8 | 60.0 | 120 | |
| Metalaxyl | 0.002 | < 0.100 | | 0.364 | 0.400 | 91.1 | 60.0 | 120 | |
| Methiocarb | 0.002 | < 0.100 | | 0.334 | 0.400 | 83.6 | 60.0 | 120 | |
| Methomyl | 0.000 | < 0.200 | | 0.720 | 0.800 | 90.0 | 60.0 | 120 | |
| MGK-264 | 0.000 | < 0.100 | | 0.351 | 0.400 | 87.8 | 50.0 | 150 | |
| Myclobutanil | 0.000 | < 0.100 | | 0.360 | 0.400 | 90.0 | 60.0 | 120 | |
| Naled | 0.002 | < 0.250 | | 0.897 | 1.000 | 89.7 | 50.0 | 150 | |
| Oxamyl | 0.000 | < 0.500 | | 1.758 | 2.000 | 87.9 | 60.0 | 120 | |
| Paclobutrazole | 0.003 | < 0.200 | | 0.713 | 0.800 | 89.1 | 60.0 | 120 | |
| Parathion-Methyl | 0.000 | < 0.100 | | 0.350 | 0.400 | 87.4 | 50.0 | 150 | |
| Permethrin | 0.002 | < 0.100 | | 0.303 | 0.400 | 75.8 | 50.0 | 150 | |
| Phosmet | 0.000 | < 0.100 | | 0.361 | 0.400 | 90.3 | 50.0 | 150 | |
| Piperonyl butoxide | 0.003 | < 0.500 | | 1.702 | 2.000 | 85.1 | 60.0 | 120 | |
| Prallethrin | 0.000 | < 0.100 | | 0.360 | 0.400 | 89.9 | 60.0 | 120 | |
| Propiconazole | 0.000 | < 0.200 | | 0.713 | 0.800 | 89.1 | 60.0 | 120 | |
| Propoxur | 0.001 | < 0.100 | | 0.353 | 0.400 | 88.3 | 60.0 | 120 | |
| Pyrethrin (Summe) | 0.001 | < 0.100 | | 0.437 | 0.488 | 89.6 | 60.0 | 120 | |
| Pyridaben | 0.001 | < 0.100 | | 0.315 | 0.400 | 78.8 | 50.0 | 150 | |
| Spinosad | 0.000 | < 0.100 | | 0.378 | 0.388 | 97.5 | 50.0 | 150 | |
| Spiromesifen | 0.001 | < 0.100 | | 0.354 | 0.400 | 88.4 | 60.0 | 120 | |
| Spirotetramat | 0.000 | < 0.100 | | 0.357 | 0.400 | 89.4 | 60.0 | 120 | |
| Spiroxamine | 0.004 | < 0.200 | | 0.739 | 0.800 | 92.4 | 60.0 | 120 | |

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Revision: 3 Document ID: 3120
Legacy ID: CFL-C21 Worksheet Validated 10/30/2020

## Laboratory Pesticide Quality Control Results

**AOAC 2007.1 & EN 15662** **Units:** mg/Kg **Batch ID:** 2507062

**Matrix Spike/Matrix Spike Duplicate Recoveries** **Sample ID: 25-011359-0001**

| Analyte | Result | MS Res | MSD Res | Spike | RPD% | Limit | MS % Rec | MSD % Rec | Limits | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| Abamectin | 0.000 | 0.646 | 0.660 | 1.000 | 2.1% | < 30 | 64.6% | 66.0% | 50 - 150 | |
| Acephate | 0.000 | 0.619 | 0.516 | 0.800 | 18.2% | < 30 | 77.3% | 64.4% | 50 - 150 | |
| Acequinocyl | 0.222 | 2.481 | 2.507 | 4.000 | 1.1% | < 30 | 56.5% | 57.1% | 50 - 150 | |
| Acetamiprid | 0.000 | 0.304 | 0.270 | 0.400 | 11.9% | < 30 | 75.9% | 67.4% | 50 - 150 | |
| Aldicarb | 0.000 | 0.620 | 0.549 | 0.800 | 12.1% | < 30 | 77.5% | 68.6% | 50 - 150 | |
| Azoxystrobin | 0.006 | 0.238 | 0.225 | 0.400 | 5.6% | < 30 | 57.9% | 54.7% | 50 - 150 | |
| Bifenazate | 0.000 | 0.338 | 0.312 | 0.400 | 7.8% | < 30 | 84.4% | 78.1% | 50 - 150 | |
| Bifenthrin | 0.004 | 0.034 | 0.032 | 0.400 | 7.1% | < 30 | 7.6% | 7.1% | 50 - 150 | Q |
| Boscalid | 0.003 | 0.642 | 0.604 | 0.800 | 6.1% | < 30 | 79.8% | 75.1% | 50 - 150 | |
| Carbaryl | 0.000 | 0.286 | 0.258 | 0.400 | 10.6% | < 30 | 71.6% | 64.4% | 50 - 150 | |
| Carbofuran | 0.000 | 0.243 | 0.215 | 0.400 | 12.0% | < 30 | 60.6% | 53.8% | 50 - 150 | |
| Chlorantraniliprole | 0.000 | 0.341 | 0.307 | 0.400 | 10.4% | < 30 | 85.2% | 76.8% | 50 - 150 | |
| Chlorfenapyr | 0.000 | 1.125 | 1.034 | 2.000 | 8.4% | < 30 | 56.2% | 51.7% | 50 - 150 | |
| Chlorpyrifos | 0.007 | 0.045 | 0.052 | 0.400 | 15.3% | < 30 | 9.6% | 11.2% | 50 - 150 | Q |
| Clofentezine | 0.000 | 0.206 | 0.207 | 0.400 | 0.3% | < 30 | 51.6% | 51.7% | 50 - 150 | |
| Cyfluthrin | 0.000 | 0.581 | 0.589 | 2.000 | 1.4% | < 30 | 29.1% | 29.5% | 30 - 150 | Q |
| Cypermethrin | 0.000 | 0.851 | 0.777 | 2.000 | 9.1% | < 30 | 42.6% | 38.9% | 50 - 150 | Q |
| Daminozide | 0.000 | 0.646 | 0.598 | 2.000 | 7.6% | < 30 | 32.3% | 29.9% | 30 - 150 | Q |
| Diazinon | 0.001 | 0.296 | 0.278 | 0.400 | 6.2% | < 30 | 73.8% | 69.3% | 50 - 150 | |
| Dichlorvos | 0.005 | 1.476 | 1.312 | 2.000 | 11.8% | < 30 | 73.6% | 65.4% | 50 - 150 | |
| Dimethoate | 0.000 | 0.297 | 0.270 | 0.400 | 9.5% | < 30 | 74.2% | 67.4% | 50 - 150 | |
| Ethoprophos | 0.001 | 0.301 | 0.280 | 0.400 | 7.3% | < 30 | 75.1% | 69.9% | 50 - 150 | |
| Etofenprox | 0.000 | 0.427 | 0.403 | 0.800 | 5.9% | < 30 | 53.4% | 50.4% | 50 - 150 | |
| Etoxazole | 0.001 | 0.282 | 0.269 | 0.400 | 4.7% | < 30 | 70.3% | 67.1% | 50 - 150 | |
| Fenoxycarb | 0.001 | 0.266 | 0.265 | 0.400 | 0.3% | < 30 | 66.3% | 66.2% | 50 - 150 | |
| Fenpyroximate | 0.000 | 0.489 | 0.480 | 0.800 | 1.8% | < 30 | 61.1% | 60.0% | 50 - 150 | |
| Fipronil | 0.000 | 1.098 | 1.045 | 0.800 | 4.9% | < 30 | 137.2% | 130.6% | 50 - 150 | |
| Flonicamid | 0.000 | 0.885 | 0.788 | 1.000 | 11.6% | < 30 | 88.5% | 78.8% | 50 - 150 | |
| Fludioxonil | 0.000 | 0.842 | 0.830 | 0.800 | 1.5% | < 30 | 105.3% | 103.7% | 50 - 150 | |
| Hexythiazox | 0.001 | 0.148 | 0.148 | 1.000 | 0.3% | < 30 | 14.8% | 14.7% | 50 - 150 | Q |
| Imazalil | 0.007 | 0.239 | 0.230 | 0.400 | 3.8% | < 30 | 57.9% | 55.7% | 50 - 150 | |
| Imidacloprid | 0.000 | 0.663 | 0.624 | 0.800 | 6.1% | < 30 | 82.9% | 78.0% | 50 - 150 | |
| Kresoxim-methyl | 0.000 | 0.492 | 0.507 | 0.800 | 2.9% | < 30 | 61.5% | 63.4% | 50 - 150 | |
| Malathion | 0.000 | 0.296 | 0.274 | 0.400 | 7.7% | < 30 | 74.1% | 68.6% | 50 - 150 | |
| Metalaxyl | 0.006 | 0.285 | 0.279 | 0.400 | 2.2% | < 30 | 70.0% | 68.4% | 50 - 150 | |
| Methiocarb | 0.002 | 0.246 | 0.225 | 0.400 | 8.7% | < 30 | 60.9% | 55.8% | 50 - 150 | |
| Methomyl | 0.000 | 0.661 | 0.559 | 0.800 | 16.8% | < 30 | 82.6% | 69.9% | 50 - 150 | |
| MGK-264 | 0.000 | 0.091 | 0.092 | 0.400 | 0.6% | < 30 | 22.8% | 22.9% | 50 - 150 | Q |
| Myclobutanil | 0.000 | 0.305 | 0.302 | 0.400 | 0.8% | < 30 | 76.2% | 75.6% | 50 - 150 | |
| Naled | 0.002 | 0.599 | 0.547 | 1.000 | 9.0% | < 30 | 59.7% | 54.6% | 50 - 150 | |
| Oxamyl | 0.000 | 1.611 | 1.463 | 2.000 | 9.6% | < 30 | 80.5% | 73.2% | 50 - 150 | |
| Paclobutrazole | 0.004 | 0.565 | 0.534 | 0.800 | 5.7% | < 30 | 70.2% | 66.3% | 50 - 150 | |
| Parathion-Methyl | 0.000 | 0.508 | 0.547 | 0.400 | 7.4% | < 30 | 127.0% | 136.7% | 30 - 150 | |
| Permethrin | 0.000 | 0.327 | 0.294 | 0.400 | 10.8% | < 30 | 81.8% | 73.5% | 50 - 150 | |
| Phosmet | 0.000 | 0.290 | 0.272 | 0.400 | 6.6% | < 30 | 72.6% | 67.9% | 50 - 150 | |
| Piperonyl butoxide | 0.018 | 1.943 | 1.902 | 2.000 | 2.2% | < 30 | 96.3% | 94.2% | 50 - 150 | |
| Prallethrin | 0.000 | 0.330 | 0.319 | 0.400 | 3.4% | < 30 | 82.4% | 79.6% | 50 - 150 | |
| Propiconazole | 0.001 | 0.600 | 0.548 | 0.800 | 9.1% | < 30 | 74.8% | 68.3% | 50 - 150 | |
| Propoxur | 0.013 | 0.296 | 0.259 | 0.400 | 14.0% | < 30 | 70.8% | 61.5% | 50 - 150 | |
| Pyrethrin (Summe) | 0.101 | 0.426 | 0.410 | 0.488 | 5.1% | < 30 | 66.6% | 63.3% | 50 - 150 | |
| Pyridaben | 0.002 | 0.308 | 0.301 | 0.400 | 2.2% | < 30 | 76.5% | 74.8% | 50 - 150 | |
| Spinosad | 0.000 | 0.252 | 0.239 | 0.388 | 5.2% | < 30 | 64.8% | 61.5% | 50 - 150 | |
| Spiromesifen | 0.001 | 0.249 | 0.224 | 0.400 | 10.7% | < 30 | 62.0% | 55.7% | 50 - 150 | |
| Spirotetramat | 0.000 | 0.378 | 0.358 | 0.400 | 5.4% | < 30 | 94.5% | 89.5% | 50 - 150 | |
| Spiroxamine | 0.004 | 0.620 | 0.596 | 0.800 | 4.0% | < 30 | 77.1% | 74.0% | 50 - 150 | |

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Legacy ID: CFL-E33Effective:

## Laboratory Quality Control Results

**Residual Solvents** **Batch ID:** 2507067

| Method Blank | | | | | Laboratory Control Sample | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Analyte** | **Result** | | **LOQ** | **Notes** | **Result** | **Spike** | **Units** | **% Rec** | **Limits** | **Notes** |
| 1,1-Dichloroethane | ND | < | 1 | | 1.02 | 1 | µg/g | 102.0 | 50-150 | |
| 1,2-Dichloroethene, trans- | ND | < | 1 | | 1.01 | 1 | µg/g | 101.0 | 50-150 | |
| 1,4-Dioxane | ND | < | 100 | | 441 | 496 | µg/g | 88.9 | 60-120 | |
| 1-Pentanol | ND | < | 500 | | 1580 | 1610 | µg/g | 98.1 | 50-150 | |
| 1-Propanol | ND | < | 500 | | 1460 | 1620 | µg/g | 90.1 | 50-150 | |
| 2,2-Dimethylbutane | ND | < | 30 | | 164 | 172 | µg/g | 95.3 | 60-120 | |
| 2,2-Dimethylpropane | ND | < | 200 | | 585 | 956 | µg/g | 61.2 | 60-120 | |
| 2,3-Dimethylbutane | ND | < | 30 | | 171 | 173 | µg/g | 98.8 | 60-120 | |
| 2-Butanol | ND | < | 200 | | 1600 | 1610 | µg/g | 99.4 | 60-120 | |
| 2-Ethoxyethanol | ND | < | 30 | | 166 | 177 | µg/g | 93.8 | 60-120 | |
| 2-methyl-1-propanol | ND | < | 500 | | 1160 | 1610 | µg/g | 72.0 | 50-150 | |
| 2-Methylbutane | ND | < | 200 | | 1610 | 1630 | µg/g | 98.8 | 60-120 | |
| 2-Methylpentane | ND | < | 30 | | 121 | 164 | µg/g | 73.8 | 60-120 | |
| 2-Propanol | ND | < | 200 | | 1550 | 1610 | µg/g | 96.3 | 60-120 | |
| 3-Methyl-1-butanol | ND | < | 500 | | 1390 | 1610 | µg/g | 86.3 | 50-150 | |
| 3-Methylpentane | ND | < | 30 | | 168 | 183 | µg/g | 91.8 | 60-120 | |
| Acetone | ND | < | 200 | | 1560 | 1620 | µg/g | 96.3 | 60-120 | |
| Acetonitrile | ND | < | 100 | | 492 | 493 | µg/g | 99.8 | 60-120 | |
| Anisole | ND | < | 500 | | 1250 | 1620 | µg/g | 77.2 | 50-150 | |
| Benzene | ND | < | 1 | | 0.913 | 1 | µg/g | 91.3 | 50-150 | |
| Butane | ND | < | 200 | | 520 | 769 | µg/g | 67.6 | 60-120 | |
| Butyl Acetate | ND | < | 500 | | 1600 | 1620 | µg/g | 98.8 | 50-150 | |
| Carbon Tetrachloride | ND | < | 1 | | 0.85 | 1 | µg/g | 85.0 | 50-150 | |
| Cumene | ND | < | 30 | | 150 | 174 | µg/g | 86.2 | 60-120 | |
| Cyclohexane | ND | < | 200 | | 1460 | 1630 | µg/g | 89.6 | 60-120 | |
| Dichloromethane | ND | < | 1 | | 0.955 | 1 | µg/g | 95.5 | 50-150 | |
| Ethanol | ND | < | 200 | | 1630 | 1630 | µg/g | 100.0 | 60-120 | |
| Ethyl acetate | ND | < | 200 | | 1570 | 1630 | µg/g | 96.3 | 60-120 | |
| Ethyl Ether | ND | < | 200 | | 1550 | 1620 | µg/g | 95.7 | 60-120 | |
| Ethylbenzene | ND | < | 200 | | 876 | 976 | µg/g | 89.8 | 60-120 | |
| Ethylene Glycol | ND | < | 200 | | 407 | 484 | µg/g | 84.1 | 60-120 | |
| Ethylene Oxide | ND | < | 1 | | 1.25 | 1 | µg/g | 125.0 | 50-150 | |
| Heptane | ND | < | 200 | | 1560 | 1600 | µg/g | 97.5 | 60-120 | |
| Hexane | ND | < | 30 | | 161 | 172 | µg/g | 93.6 | 60-120 | |
| Isobutane | ND | < | 200 | | 519 | 770 | µg/g | 67.4 | 60-120 | |
| Isopropyl Acetate | ND | < | 200 | | 1560 | 1610 | µg/g | 96.9 | 60-120 | |
| m,p-Xylene | ND | < | 200 | | 873 | 988 | µg/g | 88.4 | 60-120 | |
| Methanol | ND | < | 200 | | 1600 | 1650 | µg/g | 97.0 | 60-120 | |
| Methylisobutylketone | ND | < | 500 | | 1430 | 1620 | µg/g | 88.3 | 50-150 | |
| MTBE | ND | < | 500 | | 1340 | 1630 | µg/g | 82.2 | 50-150 | |
| N,N-dimethylacetamide | ND | < | 150 | | 515 | 524 | µg/g | 98.3 | 50-150 | |
| o-Xylene | ND | < | 200 | | 865 | 975 | µg/g | 88.7 | 60-120 | |
| Pentane | ND | < | 200 | | 1590 | 1610 | µg/g | 98.8 | 60-120 | |
| Propane | ND | < | 200 | | 414 | 585 | µg/g | 70.8 | 60-120 | |
| Propyl Acetate | ND | < | 500 | | 1430 | 1600 | µg/g | 89.4 | 50-150 | |
| Sulfolane | ND | < | 50 | | 121 | 165 | µg/g | 73.3 | 50-150 | |
| Tetrahydrofuran | ND | < | 100 | | 450 | 486 | µg/g | 92.6 | 60-120 | |
| Toluene | ND | < | 100 | | 428 | 485 | µg/g | 88.2 | 60-120 | |

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**ORELAP#:** OR100028
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Revision: 2 Document ID: 7087
Legacy ID: CFL-E33Effective:

**QC - Sample Duplicate** **Sample ID: 25-010890-0001**

| Analyte | SR Result | SD Result | LOQ | Units | RPD | Limits | Accept/Fail | Notes |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | ND | ND | 1 | µg/g | 0.0 | < 20 | Acceptable | |
| 1,2-Dichloroethene, trans- | ND | ND | 1 | µg/g | 0.0 | < 20 | Acceptable | |
| 1,4-Dioxane | ND | ND | 100 | µg/g | 0.0 | < 20 | Acceptable | |
| 1-Pentanol | ND | ND | 500 | µg/g | 0.0 | < 20 | Acceptable | |
| 1-Propanol | ND | ND | 500 | µg/g | 0.0 | < 20 | Acceptable | |
| 2,2-Dimethylbutane | ND | ND | 30 | µg/g | 0.0 | < 20 | Acceptable | |
| 2,2-Dimethylpropane | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| 2,3-Dimethylbutane | ND | ND | 30 | µg/g | 0.0 | < 20 | Acceptable | |
| 2-Butanol | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| 2-Ethoxyethanol | ND | ND | 30 | µg/g | 0.0 | < 20 | Acceptable | |
| 2-methyl-1-propanol | ND | ND | 500 | µg/g | 0.0 | < 20 | Acceptable | |
| 2-Methylbutane | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| 2-Methylpentane | ND | ND | 30 | µg/g | 0.0 | < 20 | Acceptable | |
| 2-Propanol | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| 3-Methyl-1-butanol | ND | ND | 500 | µg/g | 0.0 | < 20 | Acceptable | |
| 3-Methylpentane | ND | ND | 30 | µg/g | 0.0 | < 20 | Acceptable | |
| Acetone | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| Acetonitrile | ND | ND | 100 | µg/g | 0.0 | < 20 | Acceptable | |
| Anisole | ND | ND | 500 | µg/g | 0.0 | < 20 | Acceptable | |
| Benzene | ND | ND | 1 | µg/g | 0.0 | < 20 | Acceptable | |
| Butane | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| Butyl Acetate | ND | ND | 500 | µg/g | 0.0 | < 20 | Acceptable | |
| Carbon Tetrachloride | ND | ND | 1 | µg/g | 0.0 | < 20 | Acceptable | |
| Cumene | ND | ND | 30 | µg/g | 0.0 | < 20 | Acceptable | |
| Cyclohexane | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| Dichloromethane | ND | ND | 1 | µg/g | 0.0 | < 20 | Acceptable | |
| Ethanol | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| Ethyl acetate | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| Ethyl Ether | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| Ethylbenzene | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| Ethylene Glycol | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| Ethylene Oxide | ND | ND | 1 | µg/g | 0.0 | < 20 | Acceptable | |
| Heptane | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| Hexane | ND | ND | 30 | µg/g | 0.0 | < 20 | Acceptable | |
| Isobutane | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| Isopropyl Acetate | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| m,p-Xylene | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| Methanol | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| Methylisobutylketone | ND | ND | 500 | µg/g | 0.0 | < 20 | Acceptable | |
| MTBE | ND | ND | 500 | µg/g | 0.0 | < 20 | Acceptable | |
| N,N-dimethylacetamide | ND | ND | 150 | µg/g | 0.0 | < 20 | Acceptable | |
| o-Xylene | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| Pentane | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| Propane | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| Propyl Acetate | ND | ND | 500 | µg/g | 0.0 | < 20 | Acceptable | |
| Sulfolane | ND | ND | 50 | µg/g | 0.0 | < 20 | Acceptable | |
| Tetrahydrofuran | ND | ND | 100 | µg/g | 0.0 | < 20 | Acceptable | |
| Toluene | ND | ND | 100 | µg/g | 0.0 | < 20 | Acceptable | |

***Abbreviations***

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

***Units of Measure:***

µg/g- Microgram per gram or ppm

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**ORELAP#:** OR100028
**Purchase Order:**
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## Terpenes Quality Control Results

**Method Reference: EPA 5035** **Batch ID:** 2507137

| Method Blank | | | | Laboratory Control Sample | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Analyte** | **Result** | **LOQ** | **Notes** | **Result** | **LCS** | **Units** | **LCS % Rec** | **Limits** | **Notes** |
| a-pinene | <LOQ | < 196 | | 352 | 451 | µg/g | ***78%*** | 70 - 130 | |
| Camphene | <LOQ | < 196 | | 408 | 489 | µg/g | ***83%*** | 70 - 130 | |
| Sabinene | <LOQ | < 196 | | 332 | 451 | µg/g | ***74%*** | 70 - 130 | |
| b-Pinene | <LOQ | < 196 | | 349 | 451 | µg/g | ***77%*** | 70 - 130 | |
| b-Myrcene | <LOQ | < 196 | | 394 | 489 | µg/g | ***80%*** | 70 - 130 | |
| a-phelllandrene | <LOQ | < 196 | | 384 | 489 | µg/g | ***79%*** | 70 - 130 | |
| d-3-Carene | <LOQ | < 196 | | 474 | 489 | µg/g | ***97%*** | 70 - 130 | |
| a-Terpinene | <LOQ | < 196 | | 342 | 451 | µg/g | ***76%*** | 70 - 130 | |
| p-Cymene | <LOQ | < 196 | | 387 | 489 | µg/g | ***79%*** | 70 - 130 | |
| D-Limonene | <LOQ | < 196 | | 346 | 451 | µg/g | ***77%*** | 70 - 130 | |
| Eucalyptol | <LOQ | < 196 | | 370 | 489 | µg/g | ***76%*** | 70 - 130 | |
| b-cis-Ocimene | <LOQ | < 65 | | 117 | 150 | µg/g | ***78%*** | 70 - 130 | |
| b-trans-Ocimene | <LOQ | < 130 | | 241 | 301 | µg/g | ***80%*** | 70 - 130 | |
| g-Terpinene | <LOQ | < 196 | | 334 | 451 | µg/g | ***74%*** | 70 - 130 | |
| Sabinene_Hydrate | <LOQ | < 196 | | 316 | 451 | µg/g | ***70%*** | 70 - 130 | |
| Terpinolene | <LOQ | < 196 | | 340 | 451 | µg/g | ***75%*** | 70 - 130 | |
| D-Fenchone | <LOQ | < 196 | | 325 | 451 | µg/g | ***72%*** | 70 - 130 | |
| Linalool | <LOQ | < 196 | | 313 | 489 | µg/g | ***64%*** | 70 - 130 | **Q7** |
| Fenchol | <LOQ | < 196 | | 312 | 451 | µg/g | ***69%*** | 70 - 130 | **Q7** |
| Camphor | <LOQ | < 196 | | 366 | 489 | µg/g | ***75%*** | 70 - 130 | |
| Isopulego | <LOQ | < 196 | | 335 | 489 | µg/g | ***68%*** | 70 - 130 | **Q7** |
| Isoborneol | <LOQ | < 196 | | 349 | 489 | µg/g | ***71%*** | 70 - 130 | |
| Borneol | <LOQ | < 196 | | 316 | 451 | µg/g | ***70%*** | 70 - 130 | |
| DL-Menthol | <LOQ | < 196 | | 321 | 489 | µg/g | ***66%*** | 70 - 130 | **Q7** |
| Terpineol | <LOQ | < 196 | | 332 | 451 | µg/g | ***74%*** | 70 - 130 | |
| Nerol | <LOQ | < 196 | | 263 | 489 | µg/g | ***54%*** | 70 - 130 | **Q7** |
| Pulegone | <LOQ | < 196 | | 323 | 451 | µg/g | ***72%*** | 70 - 130 | |
| Gereniol | <LOQ | < 196 | | 314 | 451 | µg/g | ***70%*** | 70 - 130 | |
| Geranyl_Acetate | <LOQ | < 196 | | 333 | 489 | µg/g | ***68%*** | 70 - 130 | **Q7** |
| a-Cedrene | <LOQ | < 196 | | 342 | 451 | µg/g | ***76%*** | 70 - 130 | |
| b-Caryophyllene | <LOQ | < 196 | | 385 | 489 | µg/g | ***79%*** | 70 - 130 | |
| a-Humulene | <LOQ | < 196 | | 390 | 451 | µg/g | ***86%*** | 70 - 130 | |
| Valenene | <LOQ | < 196 | | 370 | 489 | µg/g | ***76%*** | 70 - 130 | |
| cis-Nerolidol | <LOQ | < 196 | | 369 | 489 | µg/g | ***75%*** | 70 - 130 | |
| a-Farnesene | <LOQ | < 196 | | 610 | 489 | µg/g | ***125%*** | 70 - 130 | |
| trans-Nerolidol | <LOQ | < 196 | | 317 | 451 | µg/g | ***70%*** | 70 - 130 | |
| Caryophyllene_Oxide | <LOQ | < 196 | | 345 | 489 | µg/g | ***70%*** | 70 - 130 | |
| Guaiol | <LOQ | < 196 | | 381 | 451 | µg/g | ***85%*** | 70 - 130 | |
| Cedrol | <LOQ | < 196 | | 370 | 489 | µg/g | ***76%*** | 70 - 130 | |
| a-Bisabolol | <LOQ | < 196 | | 390 | 489 | µg/g | ***80%*** | 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:** 2507137

**Sample/Sample Duplicate** **Sample ID: 25-010938-0001**

| Analyte | Result | Org. Result | LOQ | Units | % RPD | LIMIT | Notes |
|---|---|---|---|---|---|---|---|
| a-pinene | <LOQ | <LOQ | 188 | µg/g | 0% | < 20 | |
| Camphene | <LOQ | <LOQ | 188 | µg/g | 0% | < 20 | |
| Sabinene | <LOQ | <LOQ | 188 | µg/g | 0% | < 20 | |
| b-Pinene | <LOQ | <LOQ | 188 | µg/g | 0% | < 20 | |
| b-Myrcene | <LOQ | <LOQ | 188 | µg/g | 0% | < 20 | |
| a-phelllandrene | <LOQ | <LOQ | 188 | µg/g | 0% | < 20 | |
| d-3-Carene | <LOQ | <LOQ | 188 | µg/g | 0% | < 20 | |
| a-Terpinene | <LOQ | <LOQ | 188 | µg/g | 0% | < 20 | |
| p-Cymene | <LOQ | <LOQ | 188 | µg/g | 0% | < 20 | |
| D-Limonene | <LOQ | <LOQ | 188 | µg/g | 0% | < 20 | |
| Eucalyptol | <LOQ | <LOQ | 188 | µg/g | 0% | < 20 | |
| b-cis-Ocimene | <LOQ | <LOQ | 62.8 | µg/g | 0% | < 20 | |
| b-trans-Ocimene | <LOQ | <LOQ | 126 | µg/g | 0% | < 20 | |
| g-Terpinene | <LOQ | <LOQ | 188 | µg/g | 0% | < 20 | |
| Sabinene_Hydrate | <LOQ | <LOQ | 188 | µg/g | 0% | < 20 | |
| Terpinolene | <LOQ | <LOQ | 188 | µg/g | 0% | < 20 | |
| D-Fenchone | <LOQ | <LOQ | 188 | µg/g | 0% | < 20 | |
| Linalool | <LOQ | <LOQ | 188 | µg/g | 0% | < 20 | |
| Fenchol | <LOQ | <LOQ | 188 | µg/g | 0% | < 20 | |
| Camphor | <LOQ | <LOQ | 188 | µg/g | 0% | < 20 | |
| Isopulego | <LOQ | <LOQ | 188 | µg/g | 0% | < 20 | |
| Isoborneol | <LOQ | <LOQ | 188 | µg/g | 0% | < 20 | |
| Borneol | <LOQ | <LOQ | 188 | µg/g | 0% | < 20 | |
| DL-Menthol | <LOQ | <LOQ | 188 | µg/g | 0% | < 20 | |
| Terpineol | <LOQ | <LOQ | 188 | µg/g | 0% | < 20 | |
| Nerol | <LOQ | <LOQ | 188 | µg/g | 0% | < 20 | |
| Pulegone | <LOQ | <LOQ | 188 | µg/g | 0% | < 20 | |
| Gereniol | <LOQ | <LOQ | 188 | µg/g | 0% | < 20 | |
| Geranyl_Acetate | <LOQ | <LOQ | 188 | µg/g | 0% | < 20 | |
| a-Cedrene | <LOQ | <LOQ | 188 | µg/g | 0% | < 20 | |
| b-Caryophyllene | <LOQ | <LOQ | 188 | µg/g | 0% | < 20 | |
| a-Humulene | <LOQ | <LOQ | 188 | µg/g | 0% | < 20 | |
| Valenene | <LOQ | <LOQ | 188 | µg/g | 0% | < 20 | |
| cis-Nerolidol | <LOQ | <LOQ | 188 | µg/g | 0% | < 20 | |
| a-Farnesene | <LOQ | <LOQ | 188 | µg/g | 0% | < 20 | |
| trans-Nerolidol | <LOQ | <LOQ | 188 | µg/g | 0% | < 20 | |
| Caryophyllene_Oxide | <LOQ | <LOQ | 188 | µg/g | 0% | < 20 | |
| Guaiol | <LOQ | <LOQ | 188 | µg/g | 0% | < 20 | |
| Cedrol | <LOQ | <LOQ | 188 | µg/g | 0% | < 20 | |
| a-Bisabolol | <LOQ | <LOQ | 188 | µg/g | 0% | < 20 | |

Definitions

| | |
|---|---|
| RPD | Relative Percent Difference |
| Q7 | Quality control outside QC limits. |

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Explanation of QC Flag Comments:

| Code | Explanation |
|---|---|
| A | This analysis was performed on a VOA sample containing headspace. |
| 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. |
| B3 | Dilution water blank of BOD was above the recommended limit; associated samples could be high biased. |
| CP | Client provided value. |
| CV | Calculated value. |
| E | Analyte concentration exceeds the calibration range, results are estimated. |
| E1 | Estimated value. |
| E2 | Estimated value. Matrix interference observed. |
| H | Holding time was exceeded. |
| J | Estimated value, above the detection limit and below the LOQ |
| I | Insufficient sample received to meet method requirements. |
| LOQ1 | Quantitation level raised due to low sample volume and/or dilution. |
| LOQ2 | Quantitaion level raised due to matrix interference. |
| LOQ3 | < LOQ could be due to potential inhibition. |
| N1 | See case narrative |
| P | Not preserved to the proper pH |
| P1 | Storage temperature out of control |
| P2 | Incubator temperature out of control |
| 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. |
| Q7 | Quality control outside QC limits. |
| 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. |
| RE | Re-extracted and/or re-analyzed. |
| REH | The original analysis was within holding time; re-analysis past holding time. |
| S | Surrogate recovery outside control limit. |
| T | Tentatively Identified Compound (TIC) by library search. |
| T1 | Confirmed by secondary ion |
| W | Results are reported on dry weight basis. |