Lazarus Naturals

# CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

**BULK SKU** TN.FS.SLP50 **BATCH #** FH78

**PRODUCT NAME** Sleep Full Spectrum CBD Tincture **SERVING SIZE** 1 mL (~0.949 g)

**LABORATORY:** Columbia Laboratories **OREGON ACCREDITATION:** OR100028

**LOQ:** Limit Of Quantitation
**LOD:** Limit Of Detection

1 g = $10^{-3}$ kg = $10^{3}$ mg = $10^{6}$ µg 1 mg/kg = 1 ppm = 1000 ppb

| POTENCY | PER SERVING | | PER GRAM | | Percent |
|---|---|---|---|---|---|
| Cannabidiol (CBD) | **33.14** | **mg/serving** | 34.90 | mg/g | 3.49 % |
| Total THC (d9-THC, THCA) | **0.91** | **mg/serving** | 0.96 | mg/g | 0.10 % |
| Cannabigerol (CBG) | **10.54** | **mg/serving** | 11.10 | mg/g | 1.11 % |
| Cannabinol (CBN) | **10.16** | **mg/serving** | 10.70 | mg/g | 1.07 % |
| Cannabichromene (CBC) | **1.38** | **mg/serving** | 1.45 | mg/g | 0.15 % |
| Tetrahydrocannabinolic Acid (THCA) | **<LOQ** | **mg/serving** | <LOQ | mg/g | <LOQ % |
| Delta-9-THC (d9-THC) | **0.91** | **mg/serving** | 0.96 | mg/g | 0.10 % |
| Delta-8-THC (d8-THC) | **<LOQ** | **mg/serving** | <LOQ | mg/g | <LOQ % |

| HEAVY METALS | PER SERVING | | PER GRAM | | REGULATORY ACTION LEVEL |
|---|---|---|---|---|---|
| Arsenic | **<LOQ** | **µg/serving** | <LOQ | µg/g | 10 µg/day [1] |
| Cadmium | **<LOQ** | **µg/serving** | <LOQ | µg/g | 4.1 µg/day [1] |
| Lead | **<LOQ** | **µg/serving** | <LOQ | µg/g | 6 µg/day [1] |
| Mercury | **<LOQ** | **µg/serving** | <LOQ | µg/g | 2 µg/day [1] |

| PESTICIDES | REGULATORY ACTION LEVEL |
|---|---|
| None of the other 59 pesticides tested found above limit of detection in the sample. | 10 ppb [1] |

| RESIDUAL SOLVENTS | Results | | REGULATORY ACTION LEVEL |
|---|---|---|---|
| Ethanol | <LOQ | µg/g | 50,000 mg/day |
| Heptane | <LOQ | µg/g | 50,000 mg/day |
| None of the 34 residual solvents tested found above limit of quantitation in the sample. | | | |

| MICROBIAL | PASS/FAIL |
|---|---|
| Yeast & Mold | Pass |
| Coliform | Pass |

| TERPENES | % OF SAMPLE | |
|---|---|---|
| Farnesene | <LOQ | % |
| ß-Caryophyllene | 32.13 | % |
| a-Bisabolol | 25.44 | % |
| Guaiol | <LOQ | % |
| Humulene | 15.81 | % |
| Caryophyllene Oxide | 26.40 | % |


1. American Herbal Pharmacopoeia. (2014). Cannabis Inflorescence: Standards of Identity, Analysis, and Quality Control. Washington DC: AHP.

Columbia LABORATORIES
A Tentamus Company

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

**Report Number:** 23-012635/D004.R000
**Report Date:** 11/06/2023
**ORELAP#:** OR100028
**Purchase Order:** 2688460
**Received:** 10/24/23 15:54

**Customer:** Etz Hayim Holdings
**Product identity:** FORM-TN.FS.SLP50-FH78
**Client/Metrc ID:** .
**Laboratory ID:** 23-012635-0001

## Summary

### Potency:

| Analyte per 1g | Result | Limits | Units | Status |
|---|---|---|---|---|
| CBC per 1g | 1.45 | | mg/1g | |
| CBD per 1g | 34.8 | | mg/1g | |
| CBD-A per 1g | 0.105 | | mg/1g | |
| CBDV per 1g | 0.216 | | mg/1g | |
| CBE per 1g | 0.636 | | mg/1g | |
| CBG per 1g | 11.1 | | mg/1g | |
| CBL per 1g | 0.208 | | mg/1g | |
| CBN per 1g | 10.7 | | mg/1g | |
| CBT per 1g | 1.17 | | mg/1g | |
| Δ9-THC per 1g | 0.956 | | mg/1g | |

CBD-Total per Serving Size 34.9 mg/1g

THC-Total per Serving Size 0.956 mg/1g

(Reported in milligrams per serving)

### Residual Solvents:

*All analytes passing and less than LOQ.*

### Pesticides:

*All analytes passing and less than LOQ.*

### Terpenes:

| Analyte | Percent by weight | Percent of Total | Analyte | Percent by weight | Percent of Total |
|---|---|---|---|---|---|
| ß-Caryophyllene | 0.0437 | 32.13% | (-)-caryophyllene oxide | 0.0359 | 26.40% |
| a-Bisabolol | 0.0346 | 25.44% | Humulene | 0.0215 | 15.81% |
| **Total Terpenes** | **0.136** | **100.00%** | | | |

### Metals:

*Less than LOQ for all analytes.*

### Microbiology:

*Less than LOQ for all analytes.*

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| **ORELAP#:** | OR100028 |
| **Purchase Order:** | 2688460 |
| **Received:** | 10/24/23 15:54 |

**Customer:** Etz Hayim Holdings
16427 NE Airport Way
PORTLAND 97230
United States of America (USA)

**Product identity:** FORM-TN.FS.SLP50-FH78
**Client/Metrc ID:** .
**Sample Date:**
**Laboratory ID:** 23-012635-0001
**Evidence of Cooling:** No
**Temp:** 19.9 °C
**Relinquished by:** client
**Serving Size #1:** 1 g

## Sample Results

Potency per 1g **Method:** J AOAC 2015 V98-6 (mod)[þ] **Units** mg/se **Batch:** 2312240 **Analyze:** 10/26/23 9:08:00 PM

| Analyte | Result | Limits | Units | LOQ | Notes |
|---|---|---|---|---|---|
| CBC per 1g | 1.45 | | mg/1g | 0.0324 | |
| CBC-A per 1g | < LOQ | | mg/1g | 0.0324 | |
| CBC-Total per 1g | 1.45 | | mg/1g | 0.0608 | |
| CBD per 1g | 34.8 | | mg/1g | 0.324 | |
| CBD-A per 1g | 0.105 | | mg/1g | 0.0324 | |
| CBD-Total per 1g | 34.9 | | mg/1g | 0.352 | |
| CBDV per 1g | 0.216 | | mg/1g | 0.0324 | |
| CBDV-A per 1g | < LOQ | | mg/1g | 0.0324 | |
| CBDV-Total per 1g | 0.216 | | mg/1g | 0.0604 | |
| CBE per 1g | 0.636 | | mg/1g | 0.0324 | |
| CBG per 1g | 11.1 | | mg/1g | 0.324 | |
| CBG-A per 1g | < LOQ | | mg/1g | 0.0324 | |
| CBG-Total per 1g | 11.1 | | mg/1g | 0.352 | |
| CBL per 1g | 0.208 | | mg/1g | 0.0324 | |
| CBL-A per 1g | < LOQ | | mg/1g | 0.0324 | |
| CBL-Total per 1g | 0.208 | | mg/1g | 0.0608 | |
| CBN per 1g | 10.7 | | mg/1g | 0.324 | |
| CBT per 1g | 1.17 | | mg/1g | 0.0324 | |
| Δ8-THCV per 1g | < LOQ | | mg/1g | 0.0324 | |
| Δ10-THC-9R per 1g | < LOQ | | mg/1g | 0.0324 | |
| Δ10-THC-9S per 1g | < LOQ | | mg/1g | 0.0324 | |
| Δ10-THC-Total per 1g | < LOQ | | mg/1g | 0.0647 | |
| Δ8-THC per 1g | < LOQ | | mg/1g | 0.0324 | |
| Δ9-THC per 1g | 0.956 | | mg/1g | 0.0324 | |
| delta-9-THCP per 1g | < LOQ | | mg/1g | 0.0324 | |
| exo-THC per 1g | < LOQ | | mg/1g | 0.0324 | |
| THC-A per 1g | < LOQ | | mg/1g | 0.0324 | |
| THC-Total per 1g | 0.956 | | mg/1g | 0.0608 | |
| THCV per 1g | < LOQ | | mg/1g | 0.0324 | |
| THCV-A per 1g | < LOQ | | mg/1g | 0.0324 | |

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## Potency per 1g

**Method:** J AOAC 2015 V98-6 (mod)þ **Units** mg/se **Batch:** 2312240 **Analyze:** 10/26/23 9:08:00 PM

| Analyte | Result | Limits | Units | LOQ | Notes |
|---|---|---|---|---|---|
| THCV-Total per 1g | < LOQ | | mg/1g | 0.0608 | |
| Total Cannabinoids per 1g | 61.3 | | mg/1g | | |

## Microbiology

| Analyte | Result | Limits | Units | LOQ | Batch | Analyzed | Method | Status | Notes |
|---|---|---|---|---|---|---|---|---|---|
| E.coli | < LOQ | | cfu/g | 10 | 2312340 | 11/02/23 | AOAC 991.14 (Petrifilm)þ | | |
| Total Coliforms | < LOQ | | cfu/g | 10 | 2312340 | 11/02/23 | AOAC 991.14 (Petrifilm)þ | | |
| Mold (RAPID Petrifilm) | < LOQ | | cfu/g | 10 | 2312341 | 11/02/23 | AOAC 2014.05 (RAPID)þ | | |
| Yeast (RAPID Petrifilm) | < LOQ | | cfu/g | 10 | 2312341 | 11/02/23 | AOAC 2014.05 (RAPID)þ | | |

## Solvents

**Method:** Residual Solvents by GC/MSþ **Units** µg/g **Batch** 2312430 **Analyze** 11/02/23 12:11 PM

| 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) | 2120 | 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 | | Ethanol | 24200 | | 200 | | E |
| 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 | | | | | | | |

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**Purchase Order:** 2688460
**Received:** 10/24/23 15:54

Pesticides **Method:** AOAC 2007.01 & EN 15662 (mod)þ **Units** mg/kg **Batch** 2312435 **Analyze** 11/02/23 02:19 PM

| 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¥ | < LOQ | 0.20 | 0.100 | pass | |
| Clofentezine¥ | < LOQ | 0.20 | 0.100 | pass | | Cyfluthrin¥ | < LOQ | 1.0 | 0.500 | pass | |
| Cypermethrin¥ | < LOQ | 1.0 | 0.500 | pass | | Daminozide¥ | < LOQ | 1.0 | 0.500 | pass | |
| 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 | | | | | | | |

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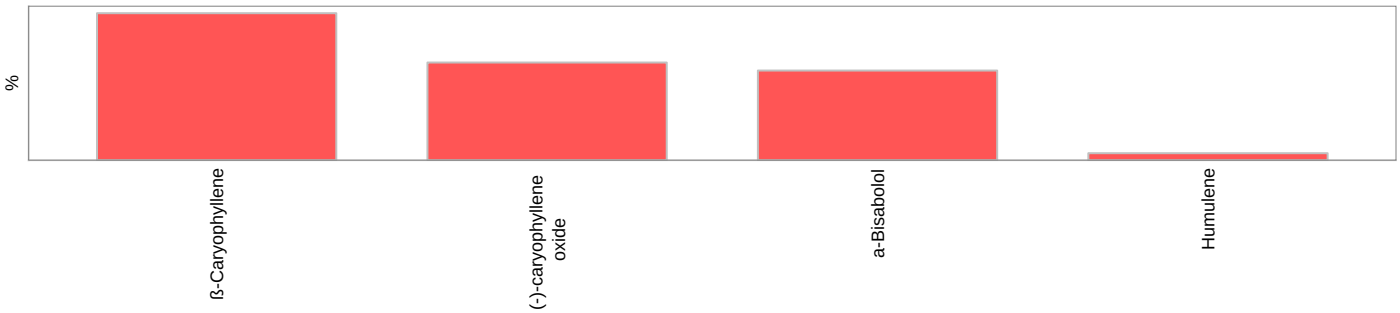
| **Received:** | 10/24/23 15:54 |

## Terpenes

**Method:** J AOAC 2015 V98-6 **Units** % **Batch** 2312403 **Analyze** 10/31/23 03:37 PM

| Analyte | Result | LOQ | % of Total | Notes | Analyte | Result | LOQ | % of Total | Notes |
|---|---|---|---|---|---|---|---|---|---|
| ß-Caryophyllene | 0.0437 | 0.019 | 32.1324% | | (-)-caryophyllene oxide | 0.0359 | 0.019 | 26.3971% | |
| a-Bisabolol | 0.0346 | 0.019 | 25.4412% | | Humulene | 0.0215 | 0.019 | 15.8088% | |
| (-)-Guaiol | < LOQ | 0.019 | 0.00% | | valencene | < LOQ | 0.019 | 0.00% | |
| ß-Myrcene | < LOQ | 0.019 | 0.00% | | nerol | < LOQ | 0.019 | 0.00% | |
| (-)-ß-Pinene | < LOQ | 0.019 | 0.00% | | Menthol | < LOQ | 0.019 | 0.00% | |
| cis-ß-Ocimene | < LOQ | 0.006 | 0.00% | | Isoborneol | < LOQ | 0.019 | 0.00% | |
| a-Terpinene | < LOQ | 0.019 | 0.00% | | (+)-Borneol | < LOQ | 0.019 | 0.00% | |
| Geraniol | < LOQ | 0.019 | 0.00% | | (±)-trans-Nerolidol | < LOQ | 0.019 | 0.00% | |
| Linalool | < LOQ | 0.019 | 0.00% | | Terpinolene | < LOQ | 0.019 | 0.00% | |
| Eucalyptol | < LOQ | 0.019 | 0.00% | | (R)-(+)-Limonene | < LOQ | 0.019 | 0.00% | |
| (-)-a-Terpineol | < LOQ | 0.019 | 0.00% | | (±)-fenchone | < LOQ | 0.019 | 0.00% | |
| Camphene | < LOQ | 0.019 | 0.00% | | p-Cymene | < LOQ | 0.019 | 0.00% | |
| (±)-Camphor | < LOQ | 0.019 | 0.00% | | (±)-cis-Nerolidol | < LOQ | 0.019 | 0.00% | |
| Sabinene hydrate | < LOQ | 0.019 | 0.00% | | gamma-Terpinene | < LOQ | 0.019 | 0.00% | |
| Geranyl acetate | < LOQ | 0.019 | 0.00% | | (+)-Cedrol | < LOQ | 0.019 | 0.00% | |
| (-)-Isopulegol | < LOQ | 0.019 | 0.00% | | (+)-fenchol | < LOQ | 0.019 | 0.00% | |
| (+)-Pulegone | < LOQ | 0.019 | 0.00% | | a-cedrene | < 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% | | farnesene | < LOQ | 0.019 | 0.00% | |
| Sabinene | < LOQ | 0.019 | 0.00% | | trans-ß-Ocimene | < LOQ | 0.013 | 0.00% | |
| **Total Terpenes** | **0.136** | | | | | | | | |




## Metals

| Analyte | Result | Limits | Units | LOQ | Batch | Analyzed | Method | Status | Notes |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic¥ | < LOQ | 0.200 | mg/kg | 0.0977 | 2312377 | 10/31/23 | AOAC 2013.06 (mod.)þ | pass | |
| Cadmium¥ | < LOQ | 0.200 | mg/kg | 0.0977 | 2312377 | 10/31/23 | AOAC 2013.06 (mod.)þ | pass | |
| Lead¥ | < LOQ | 0.500 | mg/kg | 0.0977 | 2312377 | 10/31/23 | AOAC 2013.06 (mod.)þ | pass | |
| Mercury¥ | < LOQ | 0.100 | mg/kg | 0.0489 | 2312377 | 10/31/23 | AOAC 2013.06 (mod.)þ | 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.

ᵇ = ISO/IEC 17025:2017 accredited method.
¥ = TNI accredited analyte.

***Units of Measure***

cfu/g = Colony forming units per gram
g = g
µg/g = Microgram per gram
mg/kg = Milligram per kilogram = parts per million (ppm)
mg/1g = Milligram per 1g
% = Percentage of sample
% wt = µg/g divided by 10,000

***Glossary of Qualifiers***

E: Analyte concentration exceeds the calibration range, results are estimated.

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**

**J AOAC 2015 V98-6** **Batch ID: 2312240**

**Laboratory Control Sample**

| Analyte | LCS | Result | Spike | Units | % Rec | Limits | Evaluation | Notes |
|---|---|---|---|---|---|---|---|---|
| CBDVA | 2 | 0.0323 | 0.0323 | % | 99.8 | 80.0 - 120 | Acceptable | |
| CBDV | 2 | 0.0338 | 0.0337 | % | 100 | 80.0 - 120 | Acceptable | |
| CBE | 2 | 0.0353 | 0.0358 | % | 98.4 | 80.0 - 120 | Acceptable | |
| CBDA | 1 | 0.0322 | 0.0322 | % | 99.9 | 90.0 - 110 | Acceptable | |
| CBGA | 1 | 0.0324 | 0.0329 | % | 98.2 | 80.0 - 120 | Acceptable | |
| CBG | 1 | 0.0369 | 0.0368 | % | 100 | 80.0 - 120 | Acceptable | |
| CBD | 1 | 0.0297 | 0.0313 | % | 94.9 | 90.0 - 110 | Acceptable | |
| THCV | 2 | 0.0336 | 0.0345 | % | 97.6 | 80.0 - 120 | Acceptable | |
| d8THCV | 2 | 0.0298 | 0.0283 | % | 106 | 80.0 - 120 | Acceptable | |
| THCVA | 2 | 0.0314 | 0.0312 | % | 101 | 80.0 - 120 | Acceptable | |
| CBN | 1 | 0.0328 | 0.0329 | % | 99.7 | 80.0 - 120 | Acceptable | |
| exo-THC | 2 | 0.0317 | 0.0315 | % | 101 | 80.0 - 120 | Acceptable | |
| d9THC | 1 | 0.0362 | 0.0365 | % | 99.3 | 90.0 - 110 | Acceptable | |
| d8THC | 1 | 0.0338 | 0.0340 | % | 99.6 | 90.0 - 110 | Acceptable | |
| 9Sd10THC | 1 | 0.0331 | 0.0337 | % | 98.3 | 80.0 - 120 | Acceptable | |
| CBL | 2 | 0.0313 | 0.0332 | % | 94.4 | 80.0 - 120 | Acceptable | |
| 9Rd10THC | 1 | 0.0330 | 0.0336 | % | 98.1 | 80.0 - 120 | Acceptable | |
| CBC | 2 | 0.0343 | 0.0342 | % | 100 | 80.0 - 120 | Acceptable | |
| THCA | 1 | 0.0323 | 0.0337 | % | 95.9 | 90.0 - 110 | Acceptable | |
| CBCA | 2 | 0.0336 | 0.0338 | % | 99.5 | 80.0 - 120 | Acceptable | |
| CBLA | 2 | 0.0394 | 0.0342 | % | 115 | 80.0 - 120 | Acceptable | |
| d9THCP | 2 | 0.0322 | 0.0334 | % | 96.5 | 80.0 - 120 | Acceptable | |
| CBT | 2 | 0.0355 | 0.0343 | % | 104 | 80.0 - 120 | Acceptable | |

**Method Blank**

| Analyte | Result | LOQ | Units | Limits | Evaluation | Notes |
|---|---|---|---|---|---|---|
| CBDVA | <LOQ | 0.00320 | % | < 0.00320 | Acceptable | |
| CBDV | <LOQ | 0.00320 | % | < 0.00320 | Acceptable | |
| CBE | <LOQ | 0.00320 | % | < 0.00320 | Acceptable | |
| CBDA | <LOQ | 0.00320 | % | < 0.00320 | Acceptable | |
| CBGA | <LOQ | 0.00320 | % | < 0.00320 | Acceptable | |
| CBG | <LOQ | 0.00320 | % | < 0.00320 | Acceptable | |
| CBD | <LOQ | 0.00320 | % | < 0.00320 | Acceptable | |
| THCV | <LOQ | 0.00320 | % | < 0.00320 | Acceptable | |
| d8THCV | <LOQ | 0.00320 | % | < 0.00320 | Acceptable | |
| THCVA | <LOQ | 0.00320 | % | < 0.00320 | Acceptable | |
| CBN | <LOQ | 0.00320 | % | < 0.00320 | Acceptable | |
| exo-THC | <LOQ | 0.00320 | % | < 0.00320 | Acceptable | |
| d9THC | <LOQ | 0.00320 | % | < 0.00320 | Acceptable | |
| d8THC | <LOQ | 0.00320 | % | < 0.00320 | Acceptable | |
| 9Sd10THC | <LOQ | 0.00320 | % | < 0.00320 | Acceptable | |
| CBL | <LOQ | 0.00320 | % | < 0.00320 | Acceptable | |
| 9Rd10THC | <LOQ | 0.00320 | % | < 0.00320 | Acceptable | |
| CBC | <LOQ | 0.00320 | % | < 0.00320 | Acceptable | |
| THCA | <LOQ | 0.00320 | % | < 0.00320 | Acceptable | |
| CBCA | <LOQ | 0.00320 | % | < 0.00320 | Acceptable | |
| CBLA | <LOQ | 0.00320 | % | < 0.00320 | Acceptable | |
| d9THCP | <LOQ | 0.00320 | % | < 0.00320 | Acceptable | |
| CBT | <LOQ | 0.00320 | % | < 0.00320 | 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:** 23-012635/D004.R000
**Report Date:** 11/06/2023
**ORELAP#:** OR100028
**Purchase Order:** 2688460
**Received:** 10/24/23 15:54

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

**Laboratory Quality Control Results**

**J AOAC 2015 V98-6** — **Batch ID: 2312240**

**Sample Duplicate** — Sample ID: **23-012635-0001**

| Analyte | Result | Org. Result | LOQ | Units | RPD | Limits | Evaluation | Notes |
|---|---|---|---|---|---|---|---|---|
| CBDVA | <LOQ | <LOQ | 0.00325 | % | NA | < 20 | Acceptable | |
| CBDV | 0.0216 | 0.0216 | 0.00325 | % | 0.226 | < 20 | Acceptable | |
| CBE | 0.0635 | 0.0636 | 0.00325 | % | 0.218 | < 20 | Acceptable | |
| CBDA | 0.0107 | 0.0105 | 0.00325 | % | 1.53 | < 20 | Acceptable | |
| CBGA | <LOQ | <LOQ | 0.00325 | % | NA | < 20 | Acceptable | |
| CBG | 1.12 | 1.11 | 0.00325 | % | 0.733 | < 20 | Acceptable | |
| CBD | 3.49 | 3.48 | 0.00325 | % | 0.259 | < 20 | Acceptable | |
| THCV | <LOQ | <LOQ | 0.00325 | % | NA | < 20 | Acceptable | |
| d8THCV | <LOQ | <LOQ | 0.00325 | % | NA | < 20 | Acceptable | |
| THCVA | <LOQ | <LOQ | 0.00325 | % | NA | < 20 | Acceptable | |
| CBN | 1.08 | 1.07 | 0.00325 | % | 0.462 | < 20 | Acceptable | |
| exo-THC | <LOQ | <LOQ | 0.00325 | % | NA | < 20 | Acceptable | |
| d9THC | 0.0957 | 0.0956 | 0.00325 | % | 0.163 | < 20 | Acceptable | |
| d8THC | <LOQ | <LOQ | 0.00325 | % | NA | < 20 | Acceptable | |
| 9Sd10THC | <LOQ | <LOQ | 0.00325 | % | NA | < 20 | Acceptable | |
| CBL | 0.0197 | 0.0208 | 0.00325 | % | 5.07 | < 20 | Acceptable | |
| 9Rd10THC | <LOQ | <LOQ | 0.00325 | % | NA | < 20 | Acceptable | |
| CBC | 0.146 | 0.145 | 0.00325 | % | 0.553 | < 20 | Acceptable | |
| THCA | <LOQ | <LOQ | 0.00325 | % | NA | < 20 | Acceptable | |
| CBCA | <LOQ | <LOQ | 0.00325 | % | NA | < 20 | Acceptable | |
| CBLA | <LOQ | <LOQ | 0.00325 | % | NA | < 20 | Acceptable | |
| d9THCP | <LOQ | <LOQ | 0.00325 | % | NA | < 20 | Acceptable | |
| CBT | 0.123 | 0.117 | 0.00325 | % | 5.12 | < 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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**Report Date:** 11/06/2023
**ORELAP#:** OR100028
**Purchase Order:** 2688460
**Received:** 10/24/23 15:54

Revision: 1 Document ID: 7086
Legacy ID: CFL-E57Worksheet Validated 11/04/2020

## Terpenes Quality Control Results

**Method Reference: EPA 5035** **Batch ID:** 2312403

| Method Blank | | | | | Laboratory Control Sample | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Analyte** | **Result** | **LOQ** | | **Notes** | **Result** | **LCS** | **Units** | **LCS % Rec** | **Limits** | **Notes** |
| a-pinene | <LOQ | < | 200 | | 437 | 500 | µg/g | ***87%*** | 70 - 130 | |
| Camphene | <LOQ | < | 200 | | 442 | 500 | µg/g | ***88%*** | 70 - 130 | |
| Sabinene | <LOQ | < | 200 | | 438 | 500 | µg/g | ***88%*** | 70 - 130 | |
| b-Pinene | <LOQ | < | 200 | | 436 | 500 | µg/g | ***87%*** | 70 - 130 | |
| b-Myrcene | <LOQ | < | 200 | | 442 | 500 | µg/g | ***88%*** | 70 - 130 | |
| a-phelllandrene | <LOQ | < | 200 | | 449 | 500 | µg/g | ***90%*** | 70 - 130 | |
| d-3-Carene | <LOQ | < | 200 | | 450 | 500 | µg/g | ***90%*** | 70 - 130 | |
| a-Terpinene | <LOQ | < | 200 | | 433 | 500 | µg/g | ***87%*** | 70 - 130 | |
| p-Cymene | <LOQ | < | 200 | | 442 | 500 | µg/g | ***88%*** | 70 - 130 | |
| D-Limonene | <LOQ | < | 200 | | 432 | 500 | µg/g | ***86%*** | 70 - 130 | |
| Eucalyptol | <LOQ | < | 200 | | 441 | 500 | µg/g | ***88%*** | 70 - 130 | |
| b-cis-Ocimene | <LOQ | < | 67 | | 149 | 167 | µg/g | ***90%*** | 70 - 130 | |
| b-trans-Ocimene | <LOQ | < | 133 | | 290 | 333 | µg/g | ***87%*** | 70 - 130 | |
| g-Terpinene | <LOQ | < | 200 | | 435 | 500 | µg/g | ***87%*** | 70 - 130 | |
| Sabinene_Hydrate | <LOQ | < | 200 | | 444 | 500 | µg/g | ***89%*** | 70 - 130 | |
| Terpinolene | <LOQ | < | 200 | | 437 | 500 | µg/g | ***87%*** | 70 - 130 | |
| D-Fenchone | <LOQ | < | 200 | | 446 | 500 | µg/g | ***89%*** | 70 - 130 | |
| Linalool | <LOQ | < | 200 | | 472 | 500 | µg/g | ***94%*** | 70 - 130 | |
| Fenchol | <LOQ | < | 200 | | 430 | 500 | µg/g | ***86%*** | 70 - 130 | |
| Camphor | <LOQ | < | 200 | | 441 | 500 | µg/g | ***88%*** | 70 - 130 | |
| Isopulego | <LOQ | < | 200 | | 460 | 500 | µg/g | ***92%*** | 70 - 130 | |
| Isoborneol | <LOQ | < | 200 | | 441 | 500 | µg/g | ***88%*** | 70 - 130 | |
| Borneol | <LOQ | < | 200 | | 414 | 500 | µg/g | ***83%*** | 70 - 130 | |
| DL-Menthol | <LOQ | < | 200 | | 437 | 500 | µg/g | ***87%*** | 70 - 130 | |
| Terpineol | <LOQ | < | 200 | | 449 | 500 | µg/g | ***90%*** | 70 - 130 | |
| Nerol | <LOQ | < | 200 | | 416 | 500 | µg/g | ***83%*** | 70 - 130 | |
| Pulegone | <LOQ | < | 200 | | 446 | 500 | µg/g | ***89%*** | 70 - 130 | |
| Gereniol | <LOQ | < | 200 | | 410 | 500 | µg/g | ***82%*** | 70 - 130 | |
| Geranyl_Acetate | <LOQ | < | 200 | | 449 | 500 | µg/g | ***90%*** | 70 - 130 | |
| a-Cedrene | <LOQ | < | 200 | | 459 | 500 | µg/g | ***92%*** | 70 - 130 | |
| b-Caryophyllene | <LOQ | < | 200 | | 460 | 500 | µg/g | ***92%*** | 70 - 130 | |
| a-Humulene | <LOQ | < | 200 | | 443 | 500 | µg/g | ***89%*** | 70 - 130 | |
| Valenene | <LOQ | < | 200 | | 448 | 500 | µg/g | ***90%*** | 70 - 130 | |
| cis-Nerolidol | <LOQ | < | 200 | | 463 | 500 | µg/g | ***93%*** | 70 - 130 | |
| a-Farnesene | <LOQ | < | 200 | | 495 | 500 | µg/g | ***99%*** | 70 - 130 | |
| trans-Nerolidol | <LOQ | < | 200 | | 451 | 500 | µg/g | ***90%*** | 70 - 130 | |
| Caryophyllene_Oxide | <LOQ | < | 200 | | 456 | 500 | µg/g | ***91%*** | 70 - 130 | |
| Guaiol | <LOQ | < | 200 | | 455 | 500 | µg/g | ***91%*** | 70 - 130 | |
| Cedrol | <LOQ | < | 200 | | 457 | 500 | µg/g | ***91%*** | 70 - 130 | |
| a-Bisabolol | <LOQ | < | 200 | | 452 | 500 | µg/g | ***90%*** | 70 - 130 | |

Definitions

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

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**Purchase Order:** 2688460
**Received:** 10/24/23 15:54

Revision: 1 Document ID: 7086
Legacy ID: CFL-E57Worksheet Validated 11/04/2020

## Terpenes Quality Control Results

**Method Reference: EPA 5035** **Batch ID:** 2312403

**Sample/Sample Duplicate** **Sample ID: 23-012701-0001**

| Analyte | Result | Org. Result | LOQ | Units | % RPD | LIMIT | Notes |
|---|---|---|---|---|---|---|---|
| a-pinene | 3050 | 2570 | 192 | µg/g | 17% | < 20 | |
| Camphene | 225 | 195 | 192 | µg/g | 14% | < 20 | |
| Sabinene | <LOQ | <LOQ | 192 | µg/g | 0% | < 20 | |
| b-Pinene | 860 | 727 | 192 | µg/g | 17% | < 20 | |
| b-Myrcene | 6400 | 5460 | 192 | µg/g | 16% | < 20 | |
| a-phelllandrene | <LOQ | <LOQ | 192 | µg/g | 0% | < 20 | |
| d-3-Carene | <LOQ | <LOQ | 192 | µg/g | 0% | < 20 | |
| a-Terpinene | <LOQ | <LOQ | 192 | µg/g | 0% | < 20 | |
| p-Cymene | <LOQ | <LOQ | 192 | µg/g | 0% | < 20 | |
| D-Limonene | 1140 | 981 | 192 | µg/g | 15% | < 20 | |
| Eucalyptol | 275 | 247 | 192 | µg/g | 11% | < 20 | |
| b-cis-Ocimene | 70 | <LOQ | 63.9 | µg/g | 0% | < 20 | |
| b-trans-Ocimene | 538 | 473 | 128 | µg/g | 13% | < 20 | |
| g-Terpinene | <LOQ | <LOQ | 192 | µg/g | 0% | < 20 | |
| Sabinene_Hydrate | <LOQ | <LOQ | 192 | µg/g | 0% | < 20 | |
| Terpinolene | 881 | 782 | 192 | µg/g | 12% | < 20 | |
| D-Fenchone | <LOQ | <LOQ | 192 | µg/g | 0% | < 20 | |
| Linalool | 652 | 585 | 192 | µg/g | 11% | < 20 | |
| Fenchol | 253 | 232 | 192 | µg/g | 9% | < 20 | |
| Camphor | <LOQ | <LOQ | 192 | µg/g | 0% | < 20 | |
| Isopulego | <LOQ | <LOQ | 192 | µg/g | 0% | < 20 | |
| Isoborneol | <LOQ | <LOQ | 192 | µg/g | 0% | < 20 | |
| Borneol | <LOQ | <LOQ | 192 | µg/g | 0% | < 20 | |
| DL-Menthol | <LOQ | <LOQ | 192 | µg/g | 0% | < 20 | |
| Terpineol | <LOQ | <LOQ | 192 | µg/g | 0% | < 20 | |
| Nerol | <LOQ | <LOQ | 192 | µg/g | 0% | < 20 | |
| Pulegone | <LOQ | <LOQ | 192 | µg/g | 0% | < 20 | |
| Gereniol | <LOQ | <LOQ | 192 | µg/g | 0% | < 20 | |
| Geranyl_Acetate | <LOQ | <LOQ | 192 | µg/g | 0% | < 20 | |
| a-Cedrene | <LOQ | <LOQ | 192 | µg/g | 0% | < 20 | |
| b-Caryophyllene | 8860 | 8440 | 192 | µg/g | 5% | < 20 | |
| a-Humulene | 4430 | 4260 | 192 | µg/g | 4% | < 20 | |
| Valenene | 649 | 635 | 192 | µg/g | 2% | < 20 | |
| cis-Nerolidol | <LOQ | <LOQ | 192 | µg/g | 0% | < 20 | |
| a-Farnesene | <LOQ | <LOQ | 192 | µg/g | 0% | < 20 | |
| trans-Nerolidol | 957 | 900 | 192 | µg/g | 6% | < 20 | |
| Caryophyllene_Oxide | 2720 | 2290 | 192 | µg/g | 17% | < 20 | |
| Guaiol | <LOQ | <LOQ | 192 | µg/g | 0% | < 20 | |
| Cedrol | <LOQ | <LOQ | 192 | µg/g | 0% | < 20 | |
| a-Bisabolol | 813 | 723 | 192 | µg/g | 12% | < 20 | |

Definitions

RPD Relative Percent Difference

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**Report Number:** 23-012635/D004.R000
**Report Date:** 11/06/2023
**ORELAP#:** OR100028
**Purchase Order:** 2688460
**Received:** 10/24/23 15:54

Revision: 2 Document ID: 7087
Legacy ID: CFL-E33Effective:

**Laboratory Quality Control Results**

**Residual Solvents** **Batch ID:** 2312430

| Method Blank | | | | | Laboratory Control Sample | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analyte** | **Result** | | **LOQ** | **Notes** | **Result** | **Spike** | **Units** | **% Rec** | **Limits** | | | **Notes** |
| Propane | ND | < | 200 | | 511 | 584 | µg/g | 87.5 | 60 | - | 120 | |
| Isobutane | ND | < | 200 | | 794 | 767 | µg/g | 103.5 | 60 | - | 120 | |
| Butane | ND | < | 200 | | 740 | 782 | µg/g | 94.6 | 60 | - | 120 | |
| 2,2-Dimethylpropane | ND | < | 200 | | 921 | 939 | µg/g | 98.1 | 60 | - | 120 | |
| Methanol | ND | < | 200 | | 1650 | 1670 | µg/g | 98.8 | 60 | - | 120 | |
| Ethylene Oxide | ND | < | 30 | | 58.2 | 57.1 | µg/g | 101.9 | 60 | - | 120 | |
| 2-Methylbutane | ND | < | 200 | | 1500 | 1680 | µg/g | 89.3 | 60 | - | 120 | |
| Pentane | ND | < | 200 | | 1500 | 1670 | µg/g | 89.8 | 60 | - | 120 | |
| Ethanol | ND | < | 200 | | 1600 | 1660 | µg/g | 96.4 | 70 | - | 130 | |
| Ethyl Ether | ND | < | 200 | | 1550 | 1670 | µg/g | 92.8 | 60 | - | 120 | |
| 2,2-Dimethylbutane | ND | < | 30 | | 174 | 189 | µg/g | 92.1 | 60 | - | 120 | |
| Acetone | ND | < | 200 | | 1590 | 1670 | µg/g | 95.2 | 60 | - | 120 | |
| 2-Propanol | ND | < | 200 | | 1540 | 1630 | µg/g | 94.5 | 60 | - | 120 | |
| Ethyl Formate | ND | < | 500 | | 1160 | 1600 | µg/g | 72.5 | 70 | - | 130 | |
| Acetonitrile | ND | < | 100 | | 468 | 492 | µg/g | 95.1 | 60 | - | 120 | |
| Methyl Acetate | ND | < | 500 | | 1380 | 1600 | µg/g | 86.3 | 70 | - | 130 | |
| 2,3-Dimethylbutane | ND | < | 30 | | 185 | 180 | µg/g | 102.8 | 60 | - | 120 | |
| Dichloromethane | ND | < | 60 | | 460 | 488 | µg/g | 94.3 | 60 | - | 120 | |
| 2-Methylpentane | ND | < | 30 | | 149 | 182 | µg/g | 81.9 | 60 | - | 120 | |
| MTBE | ND | < | 500 | | 1420 | 1610 | µg/g | 88.2 | 70 | - | 130 | |
| 3-Methylpentane | ND | < | 30 | | 171 | 177 | µg/g | 96.6 | 60 | - | 120 | |
| Hexane | ND | < | 30 | | 157 | 177 | µg/g | 88.7 | 60 | - | 120 | |
| 1-Propanol | ND | < | 500 | | 1430 | 1600 | µg/g | 89.4 | 70 | - | 130 | |
| Methylethylketone | ND | < | 500 | | 1340 | 1610 | µg/g | 83.2 | 70 | - | 130 | |
| Ethyl acetate | ND | < | 200 | | 1520 | 1630 | µg/g | 93.3 | 60 | - | 120 | |
| 2-Butanol | ND | < | 200 | | 1490 | 1630 | µg/g | 91.4 | 60 | - | 120 | |
| Tetrahydrofuran | ND | < | 100 | | 437 | 488 | µg/g | 89.5 | 60 | - | 120 | |
| Cyclohexane | ND | < | 200 | | 1450 | 1610 | µg/g | 90.1 | 60 | - | 120 | |
| 2-methyl-1-propanol | ND | < | 500 | | 1440 | 1610 | µg/g | 89.4 | 70 | - | 130 | |
| Benzene | ND | < | 1 | | 4.59 | 4.79 | µg/g | 95.8 | 60 | - | 120 | |
| Isopropyl Acetate | ND | < | 200 | | 1530 | 1650 | µg/g | 92.7 | 60 | - | 120 | |
| Heptane | ND | < | 200 | | 1450 | 1630 | µg/g | 89.0 | 60 | - | 120 | |
| 1-Butanol | ND | < | 500 | | 1440 | 1600 | µg/g | 90.0 | 70 | - | 130 | |
| Propyl Acetate | ND | < | 500 | | 1330 | 1600 | µg/g | 83.1 | 70 | - | 130 | |
| 1,4-Dioxane | ND | < | 100 | | 490 | 523 | µg/g | 93.7 | 60 | - | 120 | |
| 2-Ethoxyethanol | ND | < | 30 | | 155 | 179 | µg/g | 86.6 | 60 | - | 120 | |
| Methylisobutylketone | ND | < | 500 | | 1430 | 1600 | µg/g | 89.4 | 70 | - | 130 | |
| 3-Methyl-1-butanol | ND | < | 500 | | 1210 | 1600 | µg/g | 75.6 | 70 | - | 130 | |
| Ethylene Glycol | ND | < | 200 | | 427 | 506 | µg/g | 84.4 | 60 | - | 120 | |
| Toluene | ND | < | 100 | | 440 | 496 | µg/g | 88.7 | 60 | - | 120 | |
| Isobutyl Acetate | ND | < | 500 | | 1250 | 1610 | µg/g | 77.6 | 70 | - | 130 | |
| 1-Pentanol | ND | < | 500 | | 1170 | 1600 | µg/g | 73.1 | 70 | - | 130 | |
| Butyl Acetate | ND | < | 500 | | 1210 | 1610 | µg/g | 75.2 | 70 | - | 130 | |
| Ethylbenzene | ND | < | 200 | | 812 | 978 | µg/g | 83.0 | 60 | - | 120 | |
| m,p-Xylene | ND | < | 200 | | 796 | 994 | µg/g | 80.1 | 60 | - | 120 | |
| o-Xylene | ND | < | 200 | | 815 | 982 | µg/g | 83.0 | 60 | - | 120 | |
| Cumene | ND | < | 30 | | 134 | 171 | µg/g | 78.4 | 60 | - | 120 | |
| Anisole | ND | < | 500 | | 1190 | 1600 | µg/g | 74.4 | 70 | - | 130 | |
| DMSO | ND | < | 500 | | 1310 | 1620 | µg/g | 80.9 | 70 | - | 130 | |
| 1,2-dimethoxyethane | ND | < | 50 | | 150 | 186 | µg/g | 80.6 | 70 | - | 130 | |
| Triethylamine | ND | < | 500 | | 1340 | 1600 | µg/g | 83.8 | 70 | - | 130 | |
| N,N-dimethylformamide | ND | < | 150 | | 350 | 480 | µg/g | 72.9 | 70 | - | 130 | |
| N,N-dimethylacetamide | ND | < | 150 | | 396 | 483 | µg/g | 82.0 | 70 | - | 130 | |
| Pyridine | ND | < | 50 | | 128 | 168 | µg/g | 76.2 | 70 | - | 130 | |
| Sulfolane | ND | < | 50 | | 90.4 | 161 | µg/g | 56.1 | 70 | - | 130 | Q6 |
| 1,2-Dichloroethane | ND | < | 1 | | 0.94 | 1 | µg/g | 94.0 | 70 | - | 130 | |
| Chloroform | ND | < | 1 | | 0.76 | 1 | µg/g | 76.0 | 70 | - | 130 | |
| Trichloroethylene | ND | < | 1 | | 0.799 | 1 | µg/g | 79.9 | 70 | - | 130 | |
| 1,1-Dichloroethane | ND | < | 1 | | 0.855 | 1 | µg/g | 85.5 | 70 | - | 130 | |

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**ORELAP#:** OR100028
**Purchase Order:** 2688460
**Received:** 10/24/23 15:54

Revision: 2 Document ID: 7087
Legacy ID: CFL-E33Effective:

**QC - Sample Duplicate** **Sample ID: 23-012497-0001**

| Analyte | Result | Org. Result | LOQ | Units | RPD | Limits | Accept/Fail | Notes |
|---|---|---|---|---|---|---|---|---|
| Propane | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| Isobutane | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| Butane | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| 2,2-Dimethylpropane | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| Methanol | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| Ethylene Oxide | ND | ND | 30 | µg/g | 0.0 | < 20 | Acceptable | |
| 2-Methylbutane | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| Pentane | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| Ethanol | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| Ethyl Ether | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| 2,2-Dimethylbutane | ND | ND | 30 | µg/g | 0.0 | < 20 | Acceptable | |
| Acetone | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| 2-Propanol | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| Ethyl Formate | ND | ND | 500 | µg/g | 0.0 | < 20 | Acceptable | |
| Acetonitrile | ND | ND | 100 | µg/g | 0.0 | < 20 | Acceptable | |
| Methyl Acetate | ND | ND | 500 | µg/g | 0.0 | < 20 | Acceptable | |
| 2,3-Dimethylbutane | ND | ND | 30 | µg/g | 0.0 | < 20 | Acceptable | |
| Dichloromethane | ND | ND | 60 | µg/g | 0.0 | < 20 | Acceptable | |
| 2-Methylpentane | ND | ND | 30 | µg/g | 0.0 | < 20 | Acceptable | |
| MTBE | ND | ND | 500 | µg/g | 0.0 | < 20 | Acceptable | |
| 3-Methylpentane | ND | ND | 30 | µg/g | 0.0 | < 20 | Acceptable | |
| Hexane | ND | ND | 30 | µg/g | 0.0 | < 20 | Acceptable | |
| 1-Propanol | ND | ND | 500 | µg/g | 0.0 | < 20 | Acceptable | |
| Methylethylketone | ND | ND | 500 | µg/g | 0.0 | < 20 | Acceptable | |
| Ethyl acetate | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| 2-Butanol | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| Tetrahydrofuran | ND | ND | 100 | µg/g | 0.0 | < 20 | Acceptable | |
| Cyclohexane | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| 2-methyl-1-propanol | ND | ND | 500 | µg/g | 0.0 | < 20 | Acceptable | |
| Benzene | ND | ND | 1 | µg/g | 0.0 | < 20 | Acceptable | |
| Isopropyl Acetate | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| Heptane | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| 1-Butanol | ND | ND | 500 | µg/g | 0.0 | < 20 | Acceptable | |
| Propyl Acetate | ND | ND | 500 | µg/g | 0.0 | < 20 | Acceptable | |
| 1,4-Dioxane | ND | ND | 100 | µg/g | 0.0 | < 20 | Acceptable | |
| 2-Ethoxyethanol | ND | ND | 30 | µg/g | 0.0 | < 20 | Acceptable | |
| Methylisobutylketone | ND | ND | 500 | µg/g | 0.0 | < 20 | Acceptable | |
| 3-Methyl-1-butanol | ND | ND | 500 | µg/g | 0.0 | < 20 | Acceptable | |
| Ethylene Glycol | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| Toluene | ND | ND | 100 | µg/g | 0.0 | < 20 | Acceptable | |
| Isobutyl Acetate | ND | ND | 500 | µg/g | 0.0 | < 20 | Acceptable | |
| 1-Pentanol | ND | ND | 500 | µg/g | 0.0 | < 20 | Acceptable | |
| Butyl Acetate | ND | ND | 500 | µg/g | 0.0 | < 20 | Acceptable | |
| Ethylbenzene | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| m,p-Xylene | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| o-Xylene | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| Cumene | ND | ND | 30 | µg/g | 0.0 | < 20 | Acceptable | |
| Anisole | ND | ND | 500 | µg/g | 0.0 | < 20 | Acceptable | |
| DMSO | ND | ND | 500 | µg/g | 0.0 | < 20 | Acceptable | |
| 1,2-dimethoxyethane | ND | ND | 50 | µg/g | 0.0 | < 20 | Acceptable | |
| Triethylamine | ND | ND | 500 | µg/g | 0.0 | < 20 | Acceptable | |
| N,N-dimethylformamide | ND | ND | 150 | µg/g | 0.0 | < 20 | Acceptable | |
| N,N-dimethylacetamide | ND | ND | 150 | µg/g | 0.0 | < 20 | Acceptable | |
| Pyridine | ND | ND | 50 | µg/g | 0.0 | < 20 | Acceptable | |
| Sulfolane | ND | ND | 50 | µg/g | 0.0 | < 20 | Acceptable | |
| 1,2-Dichloroethane | ND | ND | 1 | µg/g | 0.0 | < 20 | Acceptable | |
| Chloroform | ND | ND | 1 | µg/g | 0.0 | < 20 | Acceptable | |
| Trichloroethylene | ND | ND | 1 | µg/g | 0.0 | < 20 | Acceptable | |
| 1,1-Dichloroethane | ND | ND | 1 | 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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12423 NE Whitaker Way
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503-254-1794

**Report Number:** 23-012635/D004.R000
**Report Date:** 11/06/2023
**ORELAP#:** OR100028
**Purchase Order:** 2688460
**Received:** 10/24/23 15:54

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:** 2312435

| Method Blank | | | | Laboratory Control Sample | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Analyte** | **Blank Result** | **Blank Limits** | **Notes** | **LCS Result** | **LCS Spike** | **LCS % Rec** | **Limits** | | **Notes** |
| Abamectin | 0.000 | < 0.250 | | 0.922 | 1.000 | 92.2 | 50.0 | 150 | |
| Acephate | 0.069 | < 0.200 | | 0.626 | 0.800 | 78.3 | 60.0 | 120 | |
| Acequinocyl | 0.033 | < 1.000 | | 2.797 | 4.000 | 69.9 | 40.0 | 160 | |
| Acetamiprid | 0.005 | < 0.100 | | 0.345 | 0.400 | 86.2 | 60.0 | 120 | |
| Aldicarb | 0.000 | < 0.200 | | 0.677 | 0.800 | 84.6 | 60.0 | 120 | |
| Azoxystrobin | 0.008 | < 0.100 | | 0.337 | 0.400 | 84.3 | 60.0 | 120 | |
| Bifenazate | 0.000 | < 0.100 | | 0.360 | 0.400 | 90.0 | 60.0 | 120 | |
| Bifenthrin | 0.011 | < 0.100 | | 0.327 | 0.400 | 81.6 | 50.0 | 150 | |
| Boscalid | 0.000 | < 0.200 | | 0.676 | 0.800 | 84.6 | 60.0 | 120 | |
| Carbaryl | 0.003 | < 0.100 | | 0.333 | 0.400 | 83.3 | 60.0 | 120 | |
| Carbofuran | 0.000 | < 0.100 | | 0.350 | 0.400 | 87.5 | 60.0 | 120 | |
| Chlorantraniliprole | 0.000 | < 0.100 | | 0.351 | 0.400 | 87.7 | 60.0 | 120 | |
| Chlorfenapyr | 0.000 | < 0.500 | | 1.687 | 2.000 | 84.3 | 60.0 | 120 | |
| Chlorpyrifos | 0.000 | < 0.100 | | 0.342 | 0.400 | 85.6 | 60.0 | 120 | |
| Clofentezine | 0.000 | < 0.100 | | 0.322 | 0.400 | 80.5 | 60.0 | 120 | |
| Cyfluthrin | 0.000 | < 0.500 | | 1.663 | 2.000 | 83.1 | 50.0 | 150 | |
| Cypermethrin | 0.000 | < 0.500 | | 1.654 | 2.000 | 82.7 | 50.0 | 150 | |
| Daminozide | 0.000 | < 0.500 | | 0.628 | 2.000 | ***31.4*** | 60.0 | 120 | **Q7** |
| Diazinon | 0.000 | < 0.100 | | 0.323 | 0.400 | 80.9 | 60.0 | 120 | |
| Dichlorvos | 0.000 | < 0.500 | | 1.720 | 2.000 | 86.0 | 60.0 | 120 | |
| Dimethoate | 0.007 | < 0.100 | | 0.325 | 0.400 | 81.3 | 60.0 | 120 | |
| Ethoprophos | 0.001 | < 0.100 | | 0.350 | 0.400 | 87.5 | 60.0 | 120 | |
| Etofenprox | 0.001 | < 0.200 | | 0.654 | 0.800 | 81.7 | 50.0 | 150 | |
| Etoxazole | 0.000 | < 0.100 | | 0.339 | 0.400 | 84.8 | 60.0 | 120 | |
| Fenoxycarb | 0.000 | < 0.100 | | 0.349 | 0.400 | 87.2 | 60.0 | 120 | |
| Fenpyroximate | 0.000 | < 0.200 | | 0.664 | 0.800 | 83.0 | 60.0 | 120 | |
| Fipronil | 0.000 | < 0.200 | | 0.662 | 0.800 | 82.8 | 60.0 | 120 | |
| Flonicamid | 0.000 | < 0.250 | | 0.810 | 1.000 | 81.0 | 60.0 | 120 | |
| Fludioxonil | 0.000 | < 0.200 | | 0.676 | 0.800 | 84.5 | 50.0 | 150 | |
| Hexythiazox | 0.000 | < 0.250 | | 0.860 | 1.000 | 86.0 | 60.0 | 120 | |
| Imazalil | 0.000 | < 0.100 | | 0.374 | 0.400 | 93.6 | 60.0 | 120 | |
| Imidacloprid | 0.000 | < 0.200 | | 0.658 | 0.800 | 82.2 | 60.0 | 120 | |
| Kresoxim-methyl | 0.000 | < 0.200 | | 0.691 | 0.800 | 86.3 | 60.0 | 120 | |
| Malathion | 0.000 | < 0.100 | | 0.360 | 0.400 | 89.9 | 60.0 | 120 | |
| Metalaxyl | 0.007 | < 0.100 | | 0.342 | 0.400 | 85.5 | 60.0 | 120 | |
| Methiocarb | 0.002 | < 0.100 | | 0.327 | 0.400 | 81.7 | 60.0 | 120 | |
| Methomyl | 0.000 | < 0.200 | | 0.634 | 0.800 | 79.2 | 60.0 | 120 | |
| MGK-264 | 0.000 | < 0.100 | | 0.334 | 0.400 | 83.4 | 50.0 | 150 | |
| Myclobutanil | 0.000 | < 0.100 | | 0.350 | 0.400 | 87.5 | 60.0 | 120 | |
| Naled | 0.000 | < 0.250 | | 0.843 | 1.000 | 84.3 | 50.0 | 150 | |
| Oxamyl | 0.000 | < 0.500 | | 1.577 | 2.000 | 78.9 | 60.0 | 120 | |
| Paclobutrazole | 0.000 | < 0.200 | | 0.697 | 0.800 | 87.1 | 60.0 | 120 | |
| Parathion-Methyl | 0.000 | < 0.100 | | 0.392 | 0.400 | 97.9 | 50.0 | 150 | |
| Permethrin | 0.000 | < 0.100 | | 0.361 | 0.400 | 90.3 | 50.0 | 150 | |
| Phosmet | 0.000 | < 0.100 | | 0.332 | 0.400 | 82.9 | 50.0 | 150 | |
| Piperonyl butoxide | 0.000 | < 0.500 | | 1.702 | 2.000 | 85.1 | 60.0 | 120 | |
| Prallethrin | 0.000 | < 0.100 | | 0.347 | 0.400 | 86.9 | 60.0 | 120 | |
| Propiconazole | 0.000 | < 0.200 | | 0.734 | 0.800 | 91.8 | 60.0 | 120 | |
| Propoxur | 0.002 | < 0.100 | | 0.350 | 0.400 | 87.5 | 60.0 | 120 | |
| Pyrethrin (Summe) | 0.002 | < 0.100 | | 0.413 | 0.488 | 84.5 | 60.0 | 120 | |
| Pyridaben | 0.003 | < 0.100 | | 0.347 | 0.400 | 86.8 | 50.0 | 150 | |
| Spinosad | 0.000 | < 0.100 | | 0.346 | 0.388 | 89.1 | 50.0 | 150 | |
| Spiromesifen | 0.000 | < 0.100 | | 0.341 | 0.400 | 85.1 | 60.0 | 120 | |
| Spirotetramat | 0.000 | < 0.100 | | 0.374 | 0.400 | 93.6 | 60.0 | 120 | |
| Spiroxamine | 0.000 | < 0.200 | | 0.694 | 0.800 | 86.8 | 60.0 | 120 | |
| Tebuconazole | 0.000 | < 0.200 | | 0.720 | 0.800 | 90.0 | 60.0 | 120 | |
| Thiacloprid | 0.000 | < 0.100 | | 0.338 | 0.400 | 84.6 | 60.0 | 120 | |
| Thiamethoxam | 0.000 | < 0.100 | | 0.324 | 0.400 | 80.9 | 60.0 | 120 | |
| Trifloxystrobin | 0.000 | < 0.100 | | 0.336 | 0.400 | 83.9 | 60.0 | 120 | |

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12423 NE Whitaker Way
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**Purchase Order:** 2688460
**Received:** 10/24/23 15:54

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:** 2312435

**Matrix Spike/Matrix Spike Duplicate Recoveries** — **Sample ID:** 23-012635-0001

| Analyte | Result | MS Res | MSD Res | Spike | RPD% | Limit | MS % Rec | MSD % Rec | Limits | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| Abamectin | 0.000 | 0.645 | 0.588 | 1.000 | 9.2% | < 30 | 64.5% | 58.8% | 50 - 150 | |
| Acephate | 0.052 | 0.657 | 0.641 | 0.800 | 2.6% | < 30 | 75.6% | 73.6% | 50 - 150 | |
| Acequinocyl | 0.000 | 1.737 | 1.492 | 4.000 | 15.2% | < 30 | 43.4% | 37.3% | 50 - 150 | Q |
| Acetamiprid | 0.000 | 0.364 | 0.348 | 0.400 | 4.5% | < 30 | 91.1% | 87.1% | 50 - 150 | |
| Aldicarb | 0.000 | 0.649 | 0.645 | 0.800 | 0.6% | < 30 | 81.2% | 80.7% | 50 - 150 | |
| Azoxystrobin | 0.009 | 0.310 | 0.299 | 0.400 | 3.7% | < 30 | 75.2% | 72.5% | 50 - 150 | |
| Bifenazate | 0.000 | 0.310 | 0.317 | 0.400 | 2.3% | < 30 | 77.5% | 79.3% | 50 - 150 | |
| Bifenthrin | 0.011 | 0.157 | 0.155 | 0.400 | 1.7% | < 30 | 36.6% | 36.0% | 50 - 150 | Q |
| Boscalid | 0.000 | 0.602 | 0.612 | 0.800 | 1.7% | < 30 | 75.2% | 76.5% | 50 - 150 | |
| Carbaryl | 0.002 | 0.308 | 0.306 | 0.400 | 0.7% | < 30 | 76.5% | 75.9% | 50 - 150 | |
| Carbofuran | 0.005 | 0.324 | 0.315 | 0.400 | 2.7% | < 30 | 79.8% | 77.6% | 50 - 150 | |
| Chlorantraniliprole | 0.000 | 0.308 | 0.276 | 0.400 | 10.8% | < 30 | 77.0% | 69.1% | 50 - 150 | |
| Chlorfenapyr | 0.000 | 1.470 | 1.449 | 2.000 | 1.4% | < 30 | 73.5% | 72.5% | 50 - 150 | |
| Chlorpyrifos | 0.000 | 0.251 | 0.259 | 0.400 | 3.1% | < 30 | 62.7% | 64.7% | 50 - 150 | |
| Clofentezine | 0.000 | 0.245 | 0.256 | 0.400 | 4.4% | < 30 | 61.2% | 63.9% | 50 - 150 | |
| Cyfluthrin | 0.000 | 0.907 | 0.904 | 2.000 | 0.4% | < 30 | 45.4% | 45.2% | 30 - 150 | |
| Cypermethrin | 0.000 | 1.023 | 0.966 | 2.000 | 5.7% | < 30 | 51.2% | 48.3% | 50 - 150 | Q |
| Daminozide | 0.000 | 0.623 | 0.573 | 2.000 | 8.4% | < 30 | 31.2% | 28.6% | 30 - 150 | Q |
| Diazinon | 0.000 | 0.283 | 0.284 | 0.400 | 0.1% | < 30 | 70.9% | 70.9% | 50 - 150 | |
| Dichlorvos | 0.032 | 1.567 | 1.542 | 2.000 | 1.6% | < 30 | 76.8% | 75.5% | 50 - 150 | |
| Dimethoate | 0.007 | 0.323 | 0.308 | 0.400 | 4.7% | < 30 | 79.0% | 75.4% | 50 - 150 | |
| Ethoprophos | 0.001 | 0.314 | 0.317 | 0.400 | 1.0% | < 30 | 78.1% | 78.9% | 50 - 150 | |
| Etofenprox | 0.001 | 0.375 | 0.363 | 0.800 | 3.4% | < 30 | 46.8% | 45.2% | 50 - 150 | Q |
| Etoxazole | 0.000 | 0.234 | 0.242 | 0.400 | 3.5% | < 30 | 58.5% | 60.6% | 50 - 150 | |
| Fenoxycarb | 0.000 | 0.292 | 0.291 | 0.400 | 0.5% | < 30 | 73.1% | 72.7% | 50 - 150 | |
| Fenpyroximate | 0.016 | 0.542 | 0.531 | 0.800 | 2.1% | < 30 | 65.7% | 64.3% | 50 - 150 | |
| Fipronil | 0.000 | 0.414 | 0.373 | 0.800 | 10.4% | < 30 | 51.8% | 46.6% | 50 - 150 | Q |
| Flonicamid | 0.000 | 0.870 | 0.803 | 1.000 | 8.0% | < 30 | 87.0% | 80.3% | 50 - 150 | |
| Fludioxonil | 0.000 | 0.778 | 0.807 | 0.800 | 3.6% | < 30 | 97.3% | 100.8% | 50 - 150 | |
| Hexythiazox | 0.000 | 0.324 | 0.314 | 1.000 | 3.3% | < 30 | 32.4% | 31.4% | 50 - 150 | Q |
| Imazalil | 0.005 | 0.329 | 0.335 | 0.400 | 1.7% | < 30 | 80.9% | 82.3% | 50 - 150 | |
| Imidacloprid | 0.021 | 0.682 | 0.635 | 0.800 | 7.4% | < 30 | 82.5% | 76.6% | 50 - 150 | |
| Kresoxim-methyl | 0.012 | 0.584 | 0.549 | 0.800 | 6.4% | < 30 | 71.5% | 67.1% | 50 - 150 | |
| Malathion | 0.015 | 0.304 | 0.314 | 0.400 | 3.5% | < 30 | 72.2% | 74.8% | 50 - 150 | |
| Metalaxyl | 0.007 | 0.318 | 0.307 | 0.400 | 3.7% | < 30 | 77.6% | 74.8% | 50 - 150 | |
| Methiocarb | 0.003 | 0.290 | 0.269 | 0.400 | 7.6% | < 30 | 71.8% | 66.6% | 50 - 150 | |
| Methomyl | 0.000 | 0.580 | 0.653 | 0.800 | 11.9% | < 30 | 72.5% | 81.6% | 50 - 150 | |
| MGK-264 | 0.000 | 0.251 | 0.248 | 0.400 | 1.2% | < 30 | 62.6% | 61.9% | 50 - 150 | |
| Myclobutanil | 0.000 | 0.329 | 0.306 | 0.400 | 7.1% | < 30 | 82.1% | 76.5% | 50 - 150 | |
| Naled | 0.000 | 0.775 | 0.743 | 1.000 | 4.3% | < 30 | 77.5% | 74.3% | 50 - 150 | |
| Oxamyl | 0.000 | 1.763 | 1.695 | 2.000 | 3.9% | < 30 | 88.2% | 84.8% | 50 - 150 | |
| Paclobutrazole | 0.000 | 0.614 | 0.577 | 0.800 | 6.2% | < 30 | 76.8% | 72.2% | 50 - 150 | |
| Parathion-Methyl | 0.000 | 0.289 | 0.287 | 0.400 | 0.6% | < 30 | 72.2% | 71.7% | 30 - 150 | |
| Permethrin | 0.000 | 0.250 | 0.251 | 0.400 | 0.3% | < 30 | 62.5% | 62.7% | 50 - 150 | |
| Phosmet | 0.000 | 0.308 | 0.305 | 0.400 | 0.9% | < 30 | 77.0% | 76.3% | 50 - 150 | |
| Piperonyl butoxide | 0.009 | 1.233 | 1.236 | 2.000 | 0.3% | < 30 | 61.2% | 61.4% | 50 - 150 | |
| Prallethrin | 0.001 | 0.204 | 0.206 | 0.400 | 1.3% | < 30 | 50.6% | 51.3% | 50 - 150 | |
| Propiconazole | 0.000 | 0.539 | 0.539 | 0.800 | 0.0% | < 30 | 67.4% | 67.4% | 50 - 150 | |
| Propoxur | 0.003 | 0.328 | 0.307 | 0.400 | 6.5% | < 30 | 81.1% | 76.0% | 50 - 150 | |
| Pyrethrin (Summe) | 0.000 | 0.323 | 0.326 | 0.488 | 1.2% | < 30 | 66.0% | 66.8% | 50 - 150 | |
| Pyridaben | 0.000 | 0.179 | 0.174 | 0.400 | 2.6% | < 30 | 44.7% | 43.5% | 50 - 150 | Q |
| Spinosad | 0.000 | 0.248 | 0.243 | 0.388 | 1.9% | < 30 | 63.9% | 62.7% | 50 - 150 | |
| Spiromesifen | 0.003 | 0.228 | 0.220 | 0.400 | 3.5% | < 30 | 56.1% | 54.1% | 50 - 150 | |
| Spirotetramat | 0.000 | 0.369 | 0.353 | 0.400 | 4.3% | < 30 | 92.1% | 88.3% | 50 - 150 | |
| Spiroxamine | 0.000 | 0.657 | 0.639 | 0.800 | 2.8% | < 30 | 82.1% | 79.8% | 50 - 150 | |
| Tebuconazole | 0.000 | 0.607 | 0.602 | 0.800 | 0.9% | < 30 | 75.9% | 75.3% | 50 - 150 | |
| Thiacloprid | 0.000 | 0.337 | 0.320 | 0.400 | 5.1% | < 30 | 84.3% | 80.1% | 50 - 150 | |
| Thiamethoxam | 0.000 | 0.333 | 0.313 | 0.400 | 6.1% | < 30 | 83.2% | 78.3% | 50 - 150 | |
| Trifloxystrobin | 0.000 | 0.254 | 0.260 | 0.400 | 2.5% | < 30 | 63.4% | 65.0% | 50 - 150 | |

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Portland, OR 97230
503-254-1794

| | |
|---|---|
| **Report Number:** | 23-012635/D004.R000 |
| **Report Date:** | 11/06/2023 |
| **ORELAP#:** | OR100028 |
| **Purchase Order:** | 2688460 |
| **Received:** | 10/24/23 15:54 |

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| **ORELAP#:** | OR100028 |
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| **Received:** | 10/24/23 15:54 |

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. |

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

**Report Number:** 23-013317/D003.R000
**Report Date:** 11/15/2023
**ORELAP#:** OR100028
**Purchase Order:**
**Received:** 11/09/23 15:28

**Customer:** Etz Hayim Holdings
16427 NE Airport Way
PORTLAND 97230
United States of America (USA)

**Product identity:** FORM-TN.FS.SLP50-FH78
**Client/Metrc ID:** .
**Sample Date:**
**Laboratory ID:** 23-013317-0001
**Evidence of Cooling:** No
**Temp:** 19.3 °C
**Relinquished by:** client

## Sample Results

Solvents **Method:** Residual Solvents by GC/MS$^{b}$ **Units** µg/g **Batch** 2312823 **Analyze** 11/15/23 12:38 PM

| 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 | | Ethanol | < LOQ | | 200 | | |
| 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 | | | | | | | |

Columbia LABORATORIES
A Tentamus Company

12423 NE Whitaker Way
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503-254-1794

| | |
|---|---|
| **Report Number:** | 23-013317/D003.R000 |
| **Report Date:** | 11/15/2023 |
| **ORELAP#:** | OR100028 |
| **Purchase Order:** | |
| **Received:** | 11/09/23 15:28 |

***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.

þ = ISO/IEC 17025:2017 accredited method.

***Units of Measure***

µg/g = Microgram per gram

% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner
General Manager

Columbia LABORATORIES
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**Report Number:** 23-013317/D003.R000
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**Received:** 11/09/23 15:28

Revision: 2 Document ID: 7087
Legacy ID: CFL-E33Effective:

Laboratory Quality Control Results

Residual Solvents — Batch ID: 2312823

| Method Blank | | | | | Laboratory Control Sample | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | Result | | LOQ | Notes | Result | Spike | Units | %Rec | Limits | | | Notes |
| Propane | ND | < | 200 | | 441 | 584 | µg/g | 75.5 | 60 | - | 120 | |
| Isobutane | ND | < | 200 | | 538 | 767 | µg/g | 70.1 | 60 | - | 120 | |
| Butane | ND | < | 200 | | 513 | 782 | µg/g | 65.6 | 60 | - | 120 | |
| 2,2-Dimethylpropane | ND | < | 200 | | 668 | 939 | µg/g | 71.1 | 60 | - | 120 | |
| Methanol | ND | < | 200 | | 1350 | 1600 | µg/g | 84.4 | 60 | - | 120 | |
| Ethylene Oxide | ND | < | 30 | | 40.3 | 57.1 | µg/g | 70.6 | 60 | - | 120 | |
| 2-Methylbutane | ND | < | 200 | | 1380 | 1600 | µg/g | 86.3 | 60 | - | 120 | |
| Pentane | ND | < | 200 | | 1370 | 1600 | µg/g | 85.6 | 60 | - | 120 | |
| Ethanol | ND | < | 200 | | 1330 | 1600 | µg/g | 83.1 | 70 | - | 130 | |
| Ethyl Ether | ND | < | 200 | | 1420 | 1600 | µg/g | 88.8 | 60 | - | 120 | |
| 2,2-Dimethylbutane | ND | < | 30 | | 146 | 161 | µg/g | 90.7 | 60 | - | 120 | |
| Acetone | ND | < | 200 | | 1390 | 1600 | µg/g | 86.9 | 60 | - | 120 | |
| 2-Propanol | ND | < | 200 | | 1310 | 1600 | µg/g | 81.9 | 60 | - | 120 | |
| Ethyl Formate | ND | < | 500 | | 1450 | 1600 | µg/g | 90.6 | 70 | - | 130 | |
| Acetonitrile | ND | < | 100 | | 413 | 488 | µg/g | 84.6 | 60 | - | 120 | |
| Methyl Acetate | ND | < | 500 | | 1590 | 1610 | µg/g | 98.8 | 70 | - | 130 | |
| 2,3-Dimethylbutane | ND | < | 30 | | 143 | 163 | µg/g | 87.7 | 60 | - | 120 | |
| Dichloromethane | ND | < | 60 | | 413 | 488 | µg/g | 84.6 | 60 | - | 120 | |
| 2-Methylpentane | ND | < | 30 | | 137 | 161 | µg/g | 85.1 | 60 | - | 120 | |
| MTBE | ND | < | 500 | | 1730 | 1650 | µg/g | 104.8 | 70 | - | 130 | |
| 3-Methylpentane | ND | < | 30 | | 138 | 162 | µg/g | 85.2 | 60 | - | 120 | |
| Hexane | ND | < | 30 | | 137 | 161 | µg/g | 85.1 | 60 | - | 120 | |
| 1-Propanol | ND | < | 500 | | 1750 | 1620 | µg/g | 108.0 | 70 | - | 130 | |
| Methylethylketone | ND | < | 500 | | 1640 | 1610 | µg/g | 101.9 | 70 | - | 130 | |
| Ethyl acetate | ND | < | 200 | | 1360 | 1610 | µg/g | 84.5 | 60 | - | 120 | |
| 2-Butanol | ND | < | 200 | | 1240 | 1610 | µg/g | 77.0 | 60 | - | 120 | |
| Tetrahydrofuran | ND | < | 100 | | 413 | 483 | µg/g | 85.5 | 60 | - | 120 | |
| Cyclohexane | ND | < | 200 | | 1410 | 1600 | µg/g | 88.1 | 60 | - | 120 | |
| 2-methyl-1-propanol | ND | < | 500 | | 1620 | 1600 | µg/g | 101.3 | 70 | - | 130 | |
| Benzene | ND | < | 1 | | 4.36 | 4.99 | µg/g | 87.4 | 60 | - | 120 | |
| Isopropyl Acetate | ND | < | 200 | | 1320 | 1600 | µg/g | 82.5 | 60 | - | 120 | |
| Heptane | ND | < | 200 | | 1340 | 1600 | µg/g | 83.8 | 60 | - | 120 | |
| 1-Butanol | ND | < | 500 | | 1690 | 1610 | µg/g | 105.0 | 70 | - | 130 | |
| Propyl Acetate | ND | < | 500 | | 1720 | 1610 | µg/g | 106.8 | 70 | - | 130 | |
| 1,4-Dioxane | ND | < | 100 | | 398 | 480 | µg/g | 82.9 | 60 | - | 120 | |
| 2-Ethoxyethanol | ND | < | 30 | | 125 | 161 | µg/g | 77.6 | 60 | - | 120 | |
| Methylisobutylketone | ND | < | 500 | | 1720 | 1610 | µg/g | 106.8 | 70 | - | 130 | |
| 3-Methyl-1-butanol | ND | < | 500 | | 1720 | 1610 | µg/g | 106.8 | 70 | - | 130 | |
| Ethylene Glycol | ND | < | 200 | | 193 | 481 | µg/g | 40.1 | 60 | - | 120 | Q6 |
| Toluene | ND | < | 100 | | 400 | 483 | µg/g | 82.8 | 60 | - | 120 | |
| Isobutyl Acetate | ND | < | 500 | | 1740 | 1610 | µg/g | 108.1 | 70 | - | 130 | |
| 1-Pentanol | ND | < | 500 | | 1760 | 1610 | µg/g | 109.3 | 70 | - | 130 | |
| Butyl Acetate | ND | < | 500 | | 1720 | 1600 | µg/g | 107.5 | 70 | - | 130 | |
| Ethylbenzene | ND | < | 200 | | 764 | 962 | µg/g | 79.4 | 60 | - | 120 | |
| m,p-Xylene | ND | < | 200 | | 772 | 994 | µg/g | 77.7 | 60 | - | 120 | |
| o-Xylene | ND | < | 200 | | 750 | 965 | µg/g | 77.7 | 60 | - | 120 | |
| Cumene | ND | < | 30 | | 131 | 169 | µg/g | 77.5 | 60 | - | 120 | |
| Anisole | ND | < | 500 | | 1730 | 1600 | µg/g | 108.1 | 70 | - | 130 | |
| DMSO | ND | < | 500 | | 1500 | 1600 | µg/g | 93.8 | 70 | - | 130 | |
| 1,2-dimethoxyethane | ND | < | 50 | | 173 | 163 | µg/g | 106.1 | 70 | - | 130 | |
| Triethylamine | ND | < | 500 | | 1330 | 1600 | µg/g | 83.1 | 70 | - | 130 | |
| N,N-dimethylformamide | ND | < | 150 | | 533 | 482 | µg/g | 110.6 | 70 | - | 130 | |
| N,N-dimethylacetamide | ND | < | 150 | | 577 | 483 | µg/g | 119.5 | 70 | - | 130 | |
| Pyridine | ND | < | 50 | | 165 | 161 | µg/g | 102.5 | 70 | - | 130 | |
| Sulfolane | ND | < | 50 | | 135 | 163 | µg/g | 82.8 | 70 | - | 130 | |
| 1,2-Dichloroethane | ND | < | 1 | | 0.894 | 1 | µg/g | 89.4 | 70 | - | 130 | |
| Chloroform | ND | < | 1 | | 0.901 | 1 | µg/g | 90.1 | 70 | - | 130 | |
| Trichloroethylene | ND | < | 1 | | 0.879 | 1 | µg/g | 87.9 | 70 | - | 130 | |
| 1,1-Dichloroethane | ND | < | 1 | | 0.908 | 1 | µg/g | 90.8 | 70 | - | 130 | |

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**ORELAP#:** OR100028
**Purchase Order:**
**Received:** 11/09/23 15:28

Revision: 2 Document ID: 7087
Legacy ID: CFL-E33Effective:

QC- Sample Duplicate — Sample ID: 23-013303-0001

| Analyte | Result | Org. Result | LOQ | Units | RPD | Limits | Accept/ Fail | Notes |
|---|---|---|---|---|---|---|---|---|
| Propane | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| Isobutane | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| Butane | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| 2,2-Dimethylpropane | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| Methanol | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| Ethylene Oxide | ND | ND | 30 | µg/g | 0.0 | < 20 | Acceptable | |
| 2-Methylbutane | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| Pentane | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| Ethanol | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| Ethyl Ether | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| 2,2-Dimethylbutane | ND | ND | 30 | µg/g | 0.0 | < 20 | Acceptable | |
| Acetone | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| 2-Propanol | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| Ethyl Formate | ND | ND | 500 | µg/g | 0.0 | < 20 | Acceptable | |
| Acetonitrile | ND | ND | 100 | µg/g | 0.0 | < 20 | Acceptable | |
| Methyl Acetate | ND | ND | 500 | µg/g | 0.0 | < 20 | Acceptable | |
| 2,3-Dimethylbutane | ND | ND | 30 | µg/g | 0.0 | < 20 | Acceptable | |
| Dichloromethane | ND | ND | 60 | µg/g | 0.0 | < 20 | Acceptable | |
| 2-Methylpentane | ND | ND | 30 | µg/g | 0.0 | < 20 | Acceptable | |
| MTBE | ND | ND | 500 | µg/g | 0.0 | < 20 | Acceptable | |
| 3-Methylpentane | ND | ND | 30 | µg/g | 0.0 | < 20 | Acceptable | |
| Hexane | ND | ND | 30 | µg/g | 0.0 | < 20 | Acceptable | |
| 1-Propanol | ND | ND | 500 | µg/g | 0.0 | < 20 | Acceptable | |
| Methylethylketone | ND | ND | 500 | µg/g | 0.0 | < 20 | Acceptable | |
| Ethyl acetate | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| 2-Butanol | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| Tetrahydrofuran | ND | ND | 100 | µg/g | 0.0 | < 20 | Acceptable | |
| Cyclohexane | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| 2-methyl-1-propanol | ND | ND | 500 | µg/g | 0.0 | < 20 | Acceptable | |
| Benzene | ND | ND | 1 | µg/g | 0.0 | < 20 | Acceptable | |
| Isopropyl Acetate | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| Heptane | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| 1-Butanol | ND | ND | 500 | µg/g | 0.0 | < 20 | Acceptable | |
| Propyl Acetate | ND | ND | 500 | µg/g | 0.0 | < 20 | Acceptable | |
| 1,4-Dioxane | ND | ND | 100 | µg/g | 0.0 | < 20 | Acceptable | |
| 2-Ethoxyethanol | ND | ND | 30 | µg/g | 0.0 | < 20 | Acceptable | |
| Methylisobutylketone | ND | ND | 500 | µg/g | 0.0 | < 20 | Acceptable | |
| 3-Methyl-1-butanol | ND | ND | 500 | µg/g | 0.0 | < 20 | Acceptable | |
| Ethylene Glycol | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| Toluene | ND | ND | 100 | µg/g | 0.0 | < 20 | Acceptable | |
| Isobutyl Acetate | ND | ND | 500 | µg/g | 0.0 | < 20 | Acceptable | |
| 1-Pentanol | ND | ND | 500 | µg/g | 0.0 | < 20 | Acceptable | |
| Butyl Acetate | ND | ND | 500 | µg/g | 0.0 | < 20 | Acceptable | |
| Ethylbenzene | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| m,p-Xylene | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| o-Xylene | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| Cumene | ND | ND | 30 | µg/g | 0.0 | < 20 | Acceptable | |
| Anisole | ND | ND | 500 | µg/g | 0.0 | < 20 | Acceptable | |
| DMSO | ND | ND | 500 | µg/g | 0.0 | < 20 | Acceptable | |
| 1,2-dimethoxyethane | ND | ND | 50 | µg/g | 0.0 | < 20 | Acceptable | |
| Triethylamine | ND | ND | 500 | µg/g | 0.0 | < 20 | Acceptable | |
| N,N-dimethylformamide | ND | ND | 150 | µg/g | 0.0 | < 20 | Acceptable | |
| N,N-dimethylacetamide | ND | ND | 150 | µg/g | 0.0 | < 20 | Acceptable | |
| Pyridine | ND | ND | 50 | µg/g | 0.0 | < 20 | Acceptable | |
| Sulfolane | ND | ND | 50 | µg/g | 0.0 | < 20 | Acceptable | |
| 1,2-Dichloroethane | ND | ND | 1 | µg/g | 0.0 | < 20 | Acceptable | |
| Chloroform | ND | ND | 1 | µg/g | 0.0 | < 20 | Acceptable | |
| Trichloroethylene | ND | ND | 1 | µg/g | 0.0 | < 20 | Acceptable | |
| 1,1-Dichloroethane | ND | ND | 1 | 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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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. |