Lazarus Naturals

# CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

**BULK SKU** BLM.LC50 **BATCH #** FA57

**PRODUCT NAME** Relax + Unwind CBD Balm **SERVING SIZE** 0.25 tsp (1.11g)

**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) | **51.14** | **mg/serving** | 46.10 | mg/g | 4.61 % |
| Total THC (d9-THC, THCA) | **0.79** | **mg/serving** | 0.71 | mg/g | 0.07 % |
| Cannabigerol (CBG) | **0.24** | **mg/serving** | 0.22 | mg/g | 0.02 % |
| Cannabinol (CBN) | **<LOQ** | **mg/serving** | <LOQ | mg/g | <LOQ % |
| Cannabichromene (CBC) | **0.52** | **mg/serving** | 0.47 | mg/g | 0.05 % |
| Tetrahydrocannabinolic Acid (THCA) | **<LOQ** | **mg/serving** | <LOQ | mg/g | <LOQ % |
| Delta-9-THC (d9-THC) | **0.79** | **mg/serving** | 0.71 | mg/g | 0.07 % |
| 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 |


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:** 23-001452/D009.R000
**Report Date:** 02/16/2023
**ORELAP#:** OR100028
**Purchase Order:**
**Received:** 02/02/23 16:14

**Customer:** Etz Hayim Holdings
**Product identity:** FORM-BLM.CL50-FA57
**Client/Metrc ID:** .
**Laboratory ID:** 23-001452-0003

## Summary

**Potency:**

| Analyte per 1g | Result | Limits | Units | Status |
|---|---|---|---|---|
| CBC per 1g | 0.465 | | mg/1g | |
| CBD per 1g | 46.1 | | mg/1g | |
| CBDV per 1g | 0.526 | | mg/1g | |
| CBG per 1g | 0.217 | | mg/1g | |
| CBL per 1g | 0.0638 | | mg/1g | |
| CBT per 1g | 0.342 | | mg/1g | |
| Δ9-THC per 1g | 0.709 | | mg/1g | |

CBD-Total per Serving Size 46.1 mg/1g

THC-Total per Serving Size 0.709 mg/1g

(Reported in milligrams per serving)

**Residual Solvents:**

*All analytes passing and less than LOQ.*

**Pesticides:**

*All analytes passing and less than LOQ.*

**Metals:**

*Less than LOQ for all analytes.*

**Microbiology:**

*Less than LOQ for all analytes.*

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**Report Date:** 02/16/2023
**ORELAP#:** OR100028
**Purchase Order:**
**Received:** 02/02/23 16:14

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

**Product identity:** FORM-BLM.CL50-FA57
**Client/Metrc ID:** .
**Sample Date:**
**Laboratory ID:** 23-001452-0003
**Evidence of Cooling:** No
**Temp:** 20.5
**Relinquished by:** client
**Serving Size #1:** 1 g

## Sample Results

Potency per 1g **Method:** J AOAC 2015 V98-6 (mod) **Units** mg/se **Batch:** 2301165 **Analyze:** 2/7/23 7:58:00 AM

| Analyte | Result | Limits | Units | LOQ | Notes |
|---|---|---|---|---|---|
| CBC per 1g | 0.465 | | mg/1g | 0.0318 | |
| CBC-A per 1g | < LOQ | | mg/1g | 0.0318 | |
| CBC-Total per 1g | 0.465 | | mg/1g | 0.0597 | |
| CBD per 1g | 46.1 | | mg/1g | 0.318 | |
| CBD-A per 1g | < LOQ | | mg/1g | 0.0318 | |
| CBD-Total per 1g | 46.1 | | mg/1g | 0.346 | |
| CBDV per 1g | 0.526 | | mg/1g | 0.0318 | |
| CBDV-A per 1g | < LOQ | | mg/1g | 0.0318 | |
| CBDV-Total per 1g | 0.526 | | mg/1g | 0.0594 | |
| CBE per 1g | < LOQ | | mg/1g | 0.0318 | |
| CBG per 1g | 0.217 | | mg/1g | 0.0318 | |
| CBG-A per 1g | < LOQ | | mg/1g | 0.0318 | |
| CBG-Total per 1g | 0.217 | | mg/1g | 0.0594 | |
| CBL per 1g | 0.0638 | | mg/1g | 0.0318 | |
| CBL-A per 1g | < LOQ | | mg/1g | 0.0318 | |
| CBL-Total per 1g | 0.0638 | | mg/1g | 0.0597 | |
| CBN per 1g | < LOQ | | mg/1g | 0.0318 | |
| CBT per 1g | 0.342 | | mg/1g | 0.0318 | |
| Δ8-THCV per 1g | < LOQ | | mg/1g | 0.0318 | |
| Δ10-THC-9R per 1g | < LOQ | | mg/1g | 0.0318 | |
| Δ10-THC-9S per 1g | < LOQ | | mg/1g | 0.0318 | |
| Δ10-THC-Total per 1g | < LOQ | | mg/1g | 0.0637 | |
| Δ8-THC per 1g | < LOQ | | mg/1g | 0.0318 | |
| Δ9-THC per 1g | 0.709 | | mg/1g | 0.0318 | |
| exo-THC per 1g | < LOQ | | mg/1g | 0.0318 | |
| THC-A per 1g | < LOQ | | mg/1g | 0.0318 | |
| THC-Total per 1g | 0.709 | | mg/1g | 0.0597 | |
| THCV per 1g | < LOQ | | mg/1g | 0.0318 | |
| THCV-A per 1g | < LOQ | | mg/1g | 0.0318 | |
| THCV-Total per 1g | < LOQ | | mg/1g | 0.0598 | |

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**Purchase Order:**
**Received:** 02/02/23 16:14

## Potency per 1g

**Method:** J AOAC 2015 V98-6 (mod) **Units** mg/se **Batch:** 2301165 **Analyze:** 2/7/23 7:58:00 AM

| Analyte | Result | Limits | Units | LOQ | Notes |
|---|---|---|---|---|---|
| Total Cannabinoids per 1g | 48.4 | | mg/1g | | |

## Microbiology

| Analyte | Result | Limits | Units | LOQ | Batch | Analyzed | Method | Status | Notes |
|---|---|---|---|---|---|---|---|---|---|
| E.coli | < LOQ | | cfu/g | 10 | 2301329 | 02/14/23 | AOAC 991.14 (Petrifilm) | | |
| Total Coliforms | < LOQ | | cfu/g | 10 | 2301329 | 02/14/23 | AOAC 991.14 (Petrifilm) | | |
| Mold (RAPID Petrifilm) | < LOQ | | cfu/g | 10 | 2301330 | 02/15/23 | AOAC 2014.05 (RAPID) | | |
| Yeast (RAPID Petrifilm) | < LOQ | | cfu/g | 10 | 2301330 | 02/15/23 | AOAC 2014.05 (RAPID) | | |

## Solvents

**Method:** Residual Solvents by GC/MS **Units** µg/g **Batch** 2301412 **Analyze** 02/14/23 02:07 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 | | | | | | | |

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## Pesticides

**Method:** AOAC 2007.01 & EN 15662 (mod) **Units** mg/kg **Batch** 2301364 **Analyze** 02/13/23 02:54 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 | | | | | | | |

## Metals

| Analyte | Result | Limits | Units | LOQ | Batch | Analyzed | Method | Status | Notes |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | < LOQ | 0.200 | mg/kg | 0.0832 | 2301355 | 02/13/23 | AOAC 2013.06 (mod.) | pass | |
| Cadmium | < LOQ | 0.200 | mg/kg | 0.0832 | 2301355 | 02/13/23 | AOAC 2013.06 (mod.) | pass | |
| Lead | < LOQ | 0.500 | mg/kg | 0.0832 | 2301355 | 02/13/23 | AOAC 2013.06 (mod.) | pass | |
| Mercury | < LOQ | 0.100 | mg/kg | 0.0416 | 2301355 | 02/13/23 | AOAC 2013.06 (mod.) | pass | |

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| | |
|---|---|
| **Report Number:** | 23-001452/D009.R000 |
| **Report Date:** | 02/16/2023 |
| **ORELAP#:** | OR100028 |
| **Purchase Order:** | |
| **Received:** | 02/02/23 16:14 |

***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.

¥ = 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

Approved Signatory

Derrick Tanner
General Manager

Columbia LABORATORIES
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Revision: 1 Document ID: 7148
Legacy ID: Worksheet Validated 04/20/2021

**Laboratory Quality Control Results**

**J AOAC 2015 V98-6** **Batch ID: 2301165**

**Laboratory Control Sample**

| Analyte | LCS | Result | Spike | Units | % Rec | Limits | Evaluation | Notes |
|---|---|---|---|---|---|---|---|---|
| CBDVA | 2 | 0.0317 | 0.034 | % | 93.8 | 80.0 - 120 | Acceptable | |
| CBDV | 2 | 0.0357 | 0.036 | % | 98.8 | 80.0 - 120 | Acceptable | |
| CBE | 2 | 0.0327 | 0.035 | % | 93.2 | 80.0 - 120 | Acceptable | |
| CBDA | 1 | 0.0301 | 0.032 | % | 95.3 | 90.0 - 110 | Acceptable | |
| CBGA | 1 | 0.0304 | 0.032 | % | 95.3 | 80.0 - 120 | Acceptable | |
| CBG | 1 | 0.0315 | 0.033 | % | 95.0 | 80.0 - 120 | Acceptable | |
| CBD | 1 | 0.0314 | 0.034 | % | 93.8 | 90.0 - 110 | Acceptable | |
| THCV | 2 | 0.0319 | 0.034 | % | 92.8 | 80.0 - 120 | Acceptable | |
| d8THCV | 2 | 0.0336 | 0.036 | % | 94.1 | 80.0 - 120 | Acceptable | |
| THCVA | 2 | 0.0303 | 0.032 | % | 93.7 | 80.0 - 120 | Acceptable | |
| CBN | 1 | 0.0325 | 0.034 | % | 96.0 | 80.0 - 120 | Acceptable | |
| exo-THC | 2 | 0.0308 | 0.034 | % | 91.2 | 80.0 - 120 | Acceptable | |
| d9THC | 1 | 0.0330 | 0.034 | % | 95.7 | 90.0 - 110 | Acceptable | |
| d8THC | 1 | 0.0334 | 0.034 | % | 96.9 | 90.0 - 110 | Acceptable | |
| 9S-d10THC | 1 | 0.0332 | 0.034 | % | 96.4 | 80.0 - 120 | Acceptable | |
| CBL | 2 | 0.0320 | 0.034 | % | 93.7 | 80.0 - 120 | Acceptable | |
| 9R-d10THC | 1 | 0.0314 | 0.032 | % | 98.5 | 80.0 - 120 | Acceptable | |
| CBC | 2 | 0.0335 | 0.035 | % | 94.6 | 80.0 - 120 | Acceptable | |
| THCA | 1 | 0.0308 | 0.032 | % | 95.5 | 90.0 - 110 | Acceptable | |
| CBCA | 2 | 0.0327 | 0.034 | % | 95.3 | 80.0 - 120 | Acceptable | |
| CBLA | 2 | 0.0325 | 0.035 | % | 93.8 | 80.0 - 120 | Acceptable | |
| CBT | 2 | 0.0327 | 0.035 | % | 92.7 | 80.0 - 120 | Acceptable | |

**Method Blank**

| Analyte | Result | LOQ | Units | Limits | Evaluation | Notes |
|---|---|---|---|---|---|---|
| CBDVA | <LOQ | 0.003 | % | < 0.003 | Acceptable | |
| CBDV | <LOQ | 0.003 | % | < 0.003 | Acceptable | |
| CBE | <LOQ | 0.003 | % | < 0.003 | Acceptable | |
| CBDA | <LOQ | 0.003 | % | < 0.003 | Acceptable | |
| CBGA | <LOQ | 0.003 | % | < 0.003 | Acceptable | |
| CBG | <LOQ | 0.003 | % | < 0.003 | Acceptable | |
| CBD | <LOQ | 0.003 | % | < 0.003 | Acceptable | |
| THCV | <LOQ | 0.003 | % | < 0.003 | Acceptable | |
| d8THCV | <LOQ | 0.003 | % | < 0.003 | Acceptable | |
| THCVA | <LOQ | 0.003 | % | < 0.003 | Acceptable | |
| CBN | <LOQ | 0.003 | % | < 0.003 | Acceptable | |
| exo-THC | <LOQ | 0.003 | % | < 0.003 | Acceptable | |
| d9THC | <LOQ | 0.003 | % | < 0.003 | Acceptable | |
| d8THC | <LOQ | 0.003 | % | < 0.003 | Acceptable | |
| 9S-d10THC | <LOQ | 0.003 | % | < 0.003 | Acceptable | |
| CBL | <LOQ | 0.003 | % | < 0.003 | Acceptable | |
| 9R-d10THC | <LOQ | 0.003 | % | < 0.003 | Acceptable | |
| CBC | <LOQ | 0.003 | % | < 0.003 | Acceptable | |
| THCA | <LOQ | 0.003 | % | < 0.003 | Acceptable | |
| CBCA | <LOQ | 0.003 | % | < 0.003 | Acceptable | |
| CBLA | <LOQ | 0.003 | % | < 0.003 | Acceptable | |
| CBT | <LOQ | 0.003 | % | < 0.003 | 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: 1 Document ID: 7148
Legacy ID: Worksheet Validated 04/20/2021

**Laboratory Quality Control Results**

**J AOAC 2015 V98-6** **Batch ID: 2301165**

**Sample Duplicate** Sample ID: **23-001446-0001**

| Analyte | Result | Org. Result | LOQ | Units | RPD | Limits | Evaluation | Notes |
|---|---|---|---|---|---|---|---|---|
| CBDVA | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| CBDV | 0.0449 | 0.0456 | 0.003 | % | 1.47 | < 20 | Acceptable | |
| CBE | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| CBDA | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| CBGA | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| CBG | 0.462 | 0.468 | 0.003 | % | 1.36 | < 20 | Acceptable | |
| CBD | 16.5 | 17.1 | 0.003 | % | 3.23 | < 20 | Acceptable | |
| THCV | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| d8THCV | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| THCVA | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| CBN | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| exo-THC | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| d9THC | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| d8THC | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| 9S-d10THC | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| CBL | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| 9R-d10THC | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| CBC | 0.140 | 0.142 | 0.003 | % | 1.73 | < 20 | Acceptable | |
| THCA | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| CBCA | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| CBLA | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| CBT | <LOQ | <LOQ | 0.003 | % | 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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503-254-1794

**Report Number:** 23-001452/D009.R000
**Report Date:** 02/16/2023
**ORELAP#:** OR100028
**Purchase Order:**
**Received:** 02/02/23 16:14

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: 2301364 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Method Blank | | | | Laboratory Control Sample | | | | | | |
| Analyte | Blank Result | Blank Limits | Notes | LCS Result | LCS Spike | LCS % Rec | Limits | | Notes |
| Abamectin | 0.000 | < 0.250 | | 0.878 | 1.000 | 87.8 | 50.0 | 150 | |
| Acephate | 0.000 | < 0.200 | | 0.846 | 0.800 | 105.7 | 60.0 | 120 | |
| Acequinocyl | 0.000 | < 1.000 | | 2.915 | 4.000 | 72.9 | 40.0 | 160 | |
| Acetamiprid | 0.000 | < 0.100 | | 0.422 | 0.400 | 105.4 | 60.0 | 120 | |
| Aldicarb | 0.000 | < 0.200 | | 0.798 | 0.800 | 99.8 | 60.0 | 120 | |
| Azoxystrobin | 0.000 | < 0.100 | | 0.404 | 0.400 | 101.0 | 60.0 | 120 | |
| Bifenazate | 0.000 | < 0.100 | | 0.396 | 0.400 | 98.9 | 60.0 | 120 | |
| Bifenthrin | 0.000 | < 0.100 | | 0.332 | 0.400 | 82.9 | 50.0 | 150 | |
| Boscalid | 0.000 | < 0.200 | | 0.791 | 0.800 | 98.9 | 60.0 | 120 | |
| Carbaryl | 0.000 | < 0.100 | | 0.397 | 0.400 | 99.2 | 60.0 | 120 | |
| Carbofuran | 0.007 | < 0.100 | | 0.406 | 0.400 | 101.6 | 60.0 | 120 | |
| Chlorantraniliprole | 0.000 | < 0.100 | | 0.383 | 0.400 | 95.6 | 60.0 | 120 | |
| Chlorfenapyr | 0.000 | < 0.500 | | 2.081 | 2.000 | 104.1 | 60.0 | 120 | |
| Chlorpyrifos | 0.000 | < 0.100 | | 0.355 | 0.400 | 88.7 | 60.0 | 120 | |
| Clofentezine | 0.000 | < 0.100 | | 0.249 | 0.400 | 62.3 | 60.0 | 120 | |
| Cyfluthrin | 0.000 | < 0.500 | | 1.772 | 2.000 | 88.6 | 50.0 | 150 | |
| Cypermethrin | 0.000 | < 0.500 | | 1.751 | 2.000 | 87.6 | 50.0 | 150 | |
| Daminozide | 0.002 | < 0.500 | | 0.823 | 2.000 | ***41.2*** | 60.0 | 120 | Q6 |
| Diazinon | 0.000 | < 0.100 | | 0.390 | 0.400 | 97.6 | 60.0 | 120 | |
| Dichlorvos | 0.102 | < 0.500 | | 2.106 | 2.000 | 105.3 | 60.0 | 120 | |
| Dimethoate | 0.000 | < 0.100 | | 0.420 | 0.400 | 104.9 | 60.0 | 120 | |
| Ethoprophos | 0.000 | < 0.100 | | 0.412 | 0.400 | 102.9 | 60.0 | 120 | |
| Etofenprox | 0.000 | < 0.200 | | 0.720 | 0.800 | 90.0 | 50.0 | 150 | |
| Etoxazole | 0.000 | < 0.100 | | 0.375 | 0.400 | 93.8 | 60.0 | 120 | |
| Fenoxycarb | 0.000 | < 0.100 | | 0.403 | 0.400 | 100.8 | 60.0 | 120 | |
| Fenpyroximate | 0.000 | < 0.200 | | 0.735 | 0.800 | 91.9 | 60.0 | 120 | |
| Fipronil | 0.000 | < 0.200 | | 0.817 | 0.800 | 102.1 | 60.0 | 120 | |
| Flonicamid | 0.000 | < 0.250 | | 1.095 | 1.000 | 109.5 | 60.0 | 120 | |
| Fludioxonil | 0.000 | < 0.200 | | 0.769 | 0.800 | 96.2 | 50.0 | 150 | |
| Hexythiazox | 0.000 | < 0.250 | | 0.922 | 1.000 | 92.2 | 60.0 | 120 | |
| Imazalil | 0.010 | < 0.100 | | 0.363 | 0.400 | 90.8 | 60.0 | 120 | |
| Imidacloprid | 0.000 | < 0.200 | | 0.845 | 0.800 | 105.6 | 60.0 | 120 | |
| Kresoxim-methyl | 0.002 | < 0.200 | | 0.740 | 0.800 | 92.5 | 60.0 | 120 | |
| Malathion | 0.000 | < 0.100 | | 0.410 | 0.400 | 102.6 | 60.0 | 120 | |
| Metalaxyl | 0.000 | < 0.100 | | 0.421 | 0.400 | 105.3 | 60.0 | 120 | |
| Methiocarb | 0.000 | < 0.100 | | 0.406 | 0.400 | 101.6 | 60.0 | 120 | |
| Methomyl | 0.000 | < 0.200 | | 0.852 | 0.800 | 106.5 | 60.0 | 120 | |
| MGK-264 | 0.009 | < 0.100 | | 0.361 | 0.400 | 90.2 | 50.0 | 150 | |
| Myclobutanil | 0.001 | < 0.100 | | 0.379 | 0.400 | 94.8 | 60.0 | 120 | |
| Naled | 0.020 | < 0.250 | | 0.866 | 1.000 | 86.6 | 50.0 | 150 | |
| Oxamyl | 0.000 | < 0.500 | | 2.082 | 2.000 | 104.1 | 60.0 | 120 | |
| Paclobutrazole | 0.000 | < 0.200 | | 0.833 | 0.800 | 104.2 | 60.0 | 120 | |
| Parathion-Methyl | 0.000 | < 0.100 | | 0.427 | 0.400 | 106.7 | 50.0 | 150 | |
| Permethrin | 0.002 | < 0.100 | | 0.343 | 0.400 | 85.8 | 50.0 | 150 | |
| Phosmet | 0.000 | < 0.100 | | 0.421 | 0.400 | 105.3 | 50.0 | 150 | |
| Piperonyl butoxide | 0.000 | < 0.500 | | 2.080 | 2.000 | 104.0 | 60.0 | 120 | |
| Prallethrin | 0.000 | < 0.100 | | 0.381 | 0.400 | 95.2 | 60.0 | 120 | |
| Propiconazole | 0.000 | < 0.200 | | 0.776 | 0.800 | 97.1 | 60.0 | 120 | |
| Propoxur | 0.000 | < 0.100 | | 0.408 | 0.400 | 101.9 | 60.0 | 120 | |
| Pyrethrin (Summe) | 0.000 | < 0.100 | | 0.439 | 0.488 | 90.0 | 60.0 | 120 | |
| Pyridaben | 0.000 | < 0.100 | | 0.369 | 0.400 | 92.4 | 50.0 | 150 | |
| Spinosad | 0.000 | < 0.100 | | 0.339 | 0.388 | 87.2 | 50.0 | 150 | |
| Spiromesifen | 0.000 | < 0.100 | | 0.374 | 0.400 | 93.5 | 60.0 | 120 | |
| Spirotetramat | 0.000 | < 0.100 | | 0.399 | 0.400 | 99.7 | 60.0 | 120 | |
| Spiroxamine | 0.000 | < 0.200 | | 0.770 | 0.800 | 96.2 | 60.0 | 120 | |
| Tebuconazole | 0.000 | < 0.200 | | 0.798 | 0.800 | 99.7 | 60.0 | 120 | |
| Thiacloprid | 0.000 | < 0.100 | | 0.413 | 0.400 | 103.2 | 60.0 | 120 | |
| Thiamethoxam | 0.000 | < 0.100 | | 0.454 | 0.400 | 113.6 | 60.0 | 120 | |
| Trifloxystrobin | 0.000 | < 0.100 | | 0.383 | 0.400 | 95.8 | 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:** 2301364

**Matrix Spike/Matrix Spike Duplicate Recoveries** — **Sample ID:** 23-001452-0001

| Analyte | Result | MS Res | MSD Res | Spike | RPD% | Limit | MS % Rec | MSD % Rec | Limits | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| Abamectin | 0.000 | 0.955 | 0.975 | 1.000 | 2.1% | < 30 | 95.5% | 97.5% | 50 - 150 | |
| Acephate | 0.017 | 1.190 | 1.078 | 0.800 | 10.0% | < 30 | 146.6% | 132.6% | 50 - 150 | |
| Acequinocyl | 0.000 | 3.187 | 3.036 | 4.000 | 4.9% | < 30 | 79.7% | 75.9% | 50 - 150 | |
| Acetamiprid | 0.000 | 0.500 | 0.481 | 0.400 | 3.9% | < 30 | 125.0% | 120.2% | 50 - 150 | |
| Aldicarb | 0.000 | 1.069 | 0.985 | 0.800 | 8.1% | < 30 | 133.6% | 123.2% | 50 - 150 | |
| Azoxystrobin | 0.000 | 0.453 | 0.451 | 0.400 | 0.6% | < 30 | 113.4% | 112.7% | 50 - 150 | |
| Bifenazate | 0.000 | 0.448 | 0.437 | 0.400 | 2.6% | < 30 | 112.1% | 109.2% | 50 - 150 | |
| Bifenthrin | 0.000 | 0.346 | 0.330 | 0.400 | 4.8% | < 30 | 86.6% | 82.5% | 50 - 150 | |
| Boscalid | 0.000 | 0.880 | 0.894 | 0.800 | 1.6% | < 30 | 110.0% | 111.7% | 50 - 150 | |
| Carbaryl | 0.000 | 0.622 | 0.592 | 0.400 | 4.9% | < 30 | 155.6% | 148.1% | 50 - 150 | Q |
| Carbofuran | 0.000 | 0.570 | 0.534 | 0.400 | 6.5% | < 30 | 142.5% | 133.5% | 50 - 150 | |
| Chlorantraniliprole | 0.000 | 0.449 | 0.437 | 0.400 | 2.7% | < 30 | 112.3% | 109.3% | 50 - 150 | |
| Chlorfenapyr | 0.000 | 2.079 | 2.025 | 2.000 | 2.6% | < 30 | 103.9% | 101.2% | 50 - 150 | |
| Chlorpyrifos | 0.005 | 0.374 | 0.361 | 0.400 | 3.6% | < 30 | 92.4% | 89.2% | 50 - 150 | |
| Clofentezine | 0.000 | 0.445 | 0.450 | 0.400 | 1.1% | < 30 | 111.4% | 112.6% | 50 - 150 | |
| Cyfluthrin | 0.000 | 1.973 | 1.921 | 2.000 | 2.7% | < 30 | 98.7% | 96.1% | 30 - 150 | |
| Cypermethrin | 0.000 | 2.306 | 2.198 | 2.000 | 4.8% | < 30 | 115.3% | 109.9% | 50 - 150 | |
| Daminozide | 0.000 | 1.916 | 1.806 | 2.000 | 5.9% | < 30 | 95.8% | 90.3% | 30 - 150 | |
| Diazinon | 0.000 | 0.407 | 0.402 | 0.400 | 1.4% | < 30 | 101.8% | 100.4% | 50 - 150 | |
| Dichlorvos | 0.000 | 2.515 | 2.384 | 2.000 | 5.4% | < 30 | 125.7% | 119.2% | 50 - 150 | |
| Dimethoate | 0.000 | 0.501 | 0.474 | 0.400 | 5.6% | < 30 | 125.3% | 118.4% | 50 - 150 | |
| Ethoprophos | 0.000 | 0.456 | 0.433 | 0.400 | 5.1% | < 30 | 113.9% | 108.3% | 50 - 150 | |
| Etofenprox | 0.000 | 0.923 | 0.871 | 0.800 | 5.8% | < 30 | 115.4% | 108.8% | 50 - 150 | |
| Etoxazole | 0.000 | 0.438 | 0.424 | 0.400 | 3.1% | < 30 | 109.4% | 106.1% | 50 - 150 | |
| Fenoxycarb | 0.000 | 0.590 | 0.587 | 0.400 | 0.4% | < 30 | 147.4% | 146.8% | 50 - 150 | |
| Fenpyroximate | 0.000 | 0.895 | 0.858 | 0.800 | 4.2% | < 30 | 111.8% | 107.3% | 50 - 150 | |
| Fipronil | 0.000 | 1.587 | 1.554 | 0.800 | 2.1% | < 30 | 198.4% | 194.2% | 50 - 150 | Q |
| Flonicamid | 0.000 | 1.033 | 0.972 | 1.000 | 6.1% | < 30 | 103.3% | 97.2% | 50 - 150 | |
| Fludioxonil | 0.000 | 0.773 | 0.702 | 0.800 | 9.6% | < 30 | 96.6% | 87.8% | 50 - 150 | |
| Hexythiazox | 0.000 | 0.519 | 0.487 | 1.000 | 6.3% | < 30 | 51.9% | 48.7% | 50 - 150 | Q |
| Imazalil | 0.000 | 0.505 | 0.480 | 0.400 | 5.2% | < 30 | 126.3% | 119.9% | 50 - 150 | |
| Imidacloprid | 0.000 | 0.636 | 0.608 | 0.800 | 4.6% | < 30 | 79.5% | 76.0% | 50 - 150 | |
| Kresoxim-methyl | 0.078 | 0.971 | 0.891 | 0.800 | 9.4% | < 30 | 111.6% | 101.6% | 50 - 150 | |
| Malathion | 0.000 | 0.444 | 0.442 | 0.400 | 0.4% | < 30 | 110.9% | 110.4% | 50 - 150 | |
| Metalaxyl | 0.000 | 0.481 | 0.459 | 0.400 | 4.7% | < 30 | 120.2% | 114.7% | 50 - 150 | |
| Methiocarb | 0.000 | 0.460 | 0.429 | 0.400 | 6.9% | < 30 | 115.0% | 107.3% | 50 - 150 | |
| Methomyl | 0.000 | 0.900 | 0.777 | 0.800 | 14.7% | < 30 | 112.5% | 97.1% | 50 - 150 | |
| MGK-264 | 0.008 | 0.410 | 0.373 | 0.400 | 9.8% | < 30 | 100.6% | 91.2% | 50 - 150 | |
| Myclobutanil | 0.000 | 0.395 | 0.383 | 0.400 | 3.3% | < 30 | 98.9% | 95.7% | 50 - 150 | |
| Naled | 0.000 | 1.229 | 1.177 | 1.000 | 4.3% | < 30 | 122.9% | 117.7% | 50 - 150 | |
| Oxamyl | 0.000 | 2.200 | 1.930 | 2.000 | 13.0% | < 30 | 110.0% | 96.5% | 50 - 150 | |
| Paclobutrazole | 0.000 | 1.090 | 1.017 | 0.800 | 6.9% | < 30 | 136.3% | 127.2% | 50 - 150 | |
| Parathion-Methyl | 0.000 | 0.512 | 0.487 | 0.400 | 5.2% | < 30 | 128.1% | 121.7% | 30 - 150 | |
| Permethrin | 0.000 | 0.405 | 0.377 | 0.400 | 7.2% | < 30 | 101.2% | 94.2% | 50 - 150 | |
| Phosmet | 0.000 | 0.355 | 0.334 | 0.400 | 6.0% | < 30 | 88.8% | 83.6% | 50 - 150 | |
| Piperonyl butoxide | 0.000 | 2.277 | 2.237 | 2.000 | 1.8% | < 30 | 113.8% | 111.8% | 50 - 150 | |
| Prallethrin | 0.000 | 0.324 | 0.320 | 0.400 | 1.0% | < 30 | 80.9% | 80.1% | 50 - 150 | |
| Propiconazole | 0.000 | 0.952 | 0.928 | 0.800 | 2.6% | < 30 | 119.0% | 116.0% | 50 - 150 | |
| Propoxur | 0.000 | 0.552 | 0.524 | 0.400 | 5.2% | < 30 | 138.0% | 131.0% | 50 - 150 | |
| Pyrethrin (Summe) | 0.001 | 0.547 | 0.510 | 0.488 | 6.9% | < 30 | 111.8% | 104.4% | 50 - 150 | |
| Pyridaben | 0.000 | 0.480 | 0.463 | 0.400 | 3.6% | < 30 | 120.0% | 115.8% | 50 - 150 | |
| Spinosad | 0.000 | 0.415 | 0.407 | 0.388 | 2.0% | < 30 | 107.0% | 104.9% | 50 - 150 | |
| Spiromesifen | 0.000 | 0.449 | 0.435 | 0.400 | 3.2% | < 30 | 112.2% | 108.6% | 50 - 150 | |
| Spirotetramat | 0.000 | 0.410 | 0.390 | 0.400 | 5.0% | < 30 | 102.5% | 97.5% | 50 - 150 | |
| Spiroxamine | 0.000 | 0.897 | 0.885 | 0.800 | 1.3% | < 30 | 112.1% | 110.6% | 50 - 150 | |
| Tebuconazole | 0.000 | 0.740 | 0.715 | 0.800 | 3.4% | < 30 | 92.5% | 89.4% | 50 - 150 | |
| Thiacloprid | 0.000 | 0.585 | 0.557 | 0.400 | 4.8% | < 30 | 146.2% | 139.3% | 50 - 150 | |
| Thiamethoxam | 0.000 | 0.415 | 0.390 | 0.400 | 6.2% | < 30 | 103.7% | 97.4% | 50 - 150 | |
| Trifloxystrobin | 0.000 | 0.437 | 0.418 | 0.400 | 4.4% | < 30 | 109.2% | 104.5% | 50 - 150 | |

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**Received:** 02/02/23 16:14

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

**Laboratory Quality Control Results**

**Residual Solvents** **Batch ID:** 2301412

| Method Blank | | | | | Laboratory Control Sample | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analyte** | **Result** | | **LOQ** | **Notes** | **Result** | **Spike** | **Units** | **% Rec** | **Limits** | | | **Notes** |
| Propane | ND | < | 200 | | 559 | 572 | µg/g | 97.7 | 60 | - | 120 | |
| Isobutane | ND | < | 200 | | 707 | 731 | µg/g | 96.7 | 60 | - | 120 | |
| Butane | ND | < | 200 | | 691 | 731 | µg/g | 94.5 | 60 | - | 120 | |
| 2,2-Dimethylpropane | ND | < | 200 | | 902 | 936 | µg/g | 96.4 | 60 | - | 120 | |
| Methanol | ND | < | 200 | | 1690 | 1620 | µg/g | 104.3 | 60 | - | 120 | |
| Ethylene Oxide | ND | < | 30 | | 56.5 | 56.2 | µg/g | 100.5 | 60 | - | 120 | |
| 2-Methylbutane | ND | < | 200 | | 1680 | 1610 | µg/g | 104.3 | 60 | - | 120 | |
| Pentane | ND | < | 200 | | 1680 | 1600 | µg/g | 105.0 | 60 | - | 120 | |
| Ethanol | ND | < | 200 | | 1690 | 1610 | µg/g | 105.0 | 70 | - | 130 | |
| Ethyl Ether | ND | < | 200 | | 1730 | 1630 | µg/g | 106.1 | 60 | - | 120 | |
| 2,2-Dimethylbutane | ND | < | 30 | | 178 | 171 | µg/g | 104.1 | 60 | - | 120 | |
| Acetone | ND | < | 200 | | 1690 | 1630 | µg/g | 103.7 | 60 | - | 120 | |
| 2-Propanol | ND | < | 200 | | 1680 | 1620 | µg/g | 103.7 | 60 | - | 120 | |
| Ethyl Formate | ND | < | 500 | | 1770 | 1670 | µg/g | 106.0 | 70 | - | 130 | |
| Acetonitrile | ND | < | 100 | | 499 | 498 | µg/g | 100.2 | 60 | - | 120 | |
| Methyl Acetate | ND | < | 500 | | 1700 | 1730 | µg/g | 98.3 | 70 | - | 130 | |
| 2,3-Dimethylbutane | ND | < | 30 | | 179 | 171 | µg/g | 104.7 | 60 | - | 120 | |
| Dichloromethane | ND | < | 60 | | 508 | 483 | µg/g | 105.2 | 60 | - | 120 | |
| 2-Methylpentane | ND | < | 30 | | 169 | 168 | µg/g | 100.6 | 60 | - | 120 | |
| MTBE | ND | < | 500 | | 1670 | 1650 | µg/g | 101.2 | 70 | - | 130 | |
| 3-Methylpentane | ND | < | 30 | | 161 | 167 | µg/g | 96.4 | 60 | - | 120 | |
| Hexane | ND | < | 30 | | 223 | 182 | µg/g | 122.5 | 60 | - | 120 | Q1 |
| 1-Propanol | ND | < | 500 | | 1500 | 1620 | µg/g | 92.6 | 70 | - | 130 | |
| Methylethylketone | ND | < | 500 | | 1560 | 1620 | µg/g | 96.3 | 70 | - | 130 | |
| Ethyl acetate | ND | < | 200 | | 1600 | 1610 | µg/g | 99.4 | 60 | - | 120 | |
| 2-Butanol | ND | < | 200 | | 1610 | 1600 | µg/g | 100.6 | 60 | - | 120 | |
| Tetrahydrofuran | ND | < | 100 | | 472 | 483 | µg/g | 97.7 | 60 | - | 120 | |
| Cyclohexane | ND | < | 200 | | 1630 | 1610 | µg/g | 101.2 | 60 | - | 120 | |
| 2-methyl-1-propanol | ND | < | 500 | | 1460 | 1620 | µg/g | 90.1 | 70 | - | 130 | |
| Benzene | ND | < | 1 | | 5.39 | 5.02 | µg/g | 107.4 | 60 | - | 120 | |
| Isopropyl Acetate | ND | < | 200 | | 1630 | 1620 | µg/g | 100.6 | 60 | - | 120 | |
| Heptane | ND | < | 200 | | 1560 | 1610 | µg/g | 96.9 | 60 | - | 120 | |
| 1-Butanol | ND | < | 500 | | 1510 | 1630 | µg/g | 92.6 | 70 | - | 130 | |
| Propyl Acetate | ND | < | 500 | | 1480 | 1610 | µg/g | 91.9 | 70 | - | 130 | |
| 1,4-Dioxane | ND | < | 100 | | 468 | 491 | µg/g | 95.3 | 60 | - | 120 | |
| 2-Ethoxyethanol | ND | < | 30 | | 166 | 181 | µg/g | 91.7 | 60 | - | 120 | |
| Methylisobutylketone | ND | < | 500 | | 1520 | 1620 | µg/g | 93.8 | 70 | - | 130 | |
| 3-Methyl-1-butanol | ND | < | 500 | | 1480 | 1630 | µg/g | 90.8 | 70 | - | 130 | |
| Ethylene Glycol | ND | < | 200 | | 405 | 484 | µg/g | 83.7 | 60 | - | 120 | |
| Toluene | ND | < | 100 | | 449 | 485 | µg/g | 92.6 | 60 | - | 120 | |
| Isobutyl Acetate | ND | < | 500 | | 1440 | 1630 | µg/g | 88.3 | 70 | - | 130 | |
| 1-Pentanol | ND | < | 500 | | 1360 | 1620 | µg/g | 84.0 | 70 | - | 130 | |
| Butyl Acetate | ND | < | 500 | | 1390 | 1620 | µg/g | 85.8 | 70 | - | 130 | |
| Ethylbenzene | ND | < | 200 | | 844 | 969 | µg/g | 87.1 | 60 | - | 120 | |
| m,p-Xylene | ND | < | 200 | | 842 | 994 | µg/g | 84.7 | 60 | - | 120 | |
| o-Xylene | ND | < | 200 | | 815 | 967 | µg/g | 84.3 | 60 | - | 120 | |
| Cumene | ND | < | 30 | | 143 | 171 | µg/g | 83.6 | 60 | - | 120 | |
| Anisole | ND | < | 500 | | 1330 | 1630 | µg/g | 81.6 | 70 | - | 130 | |
| DMSO | ND | < | 500 | | 1370 | 1680 | µg/g | 81.5 | 70 | - | 130 | |
| 1,2-dimethoxyethane | ND | < | 50 | | 155 | 169 | µg/g | 91.7 | 70 | - | 130 | |
| Triethylamine | ND | < | 500 | | 1510 | 1630 | µg/g | 92.6 | 70 | - | 130 | |
| N,N-dimethylformamide | ND | < | 150 | | 445 | 482 | µg/g | 92.3 | 70 | - | 130 | |
| N,N-dimethylacetamide | ND | < | 150 | | 401 | 510 | µg/g | 78.6 | 70 | - | 130 | |
| Pyridine | ND | < | 50 | | 180 | 203 | µg/g | 88.7 | 70 | - | 130 | |
| Sulfolane | ND | < | 50 | | 129 | 172 | µg/g | 75.0 | 70 | - | 130 | |
| 1,2-Dichloroethane | ND | < | 1 | | 1.03 | 1 | µg/g | 103.0 | 70 | - | 130 | |
| Chloroform | ND | < | 1 | | 1.01 | 1 | µg/g | 101.0 | 70 | - | 130 | |
| Trichloroethylene | ND | < | 1 | | 0.988 | 1 | µg/g | 98.8 | 70 | - | 130 | |
| 1,1-Dichloroethane | ND | < | 1 | | 1.01 | 1 | µg/g | 101.0 | 70 | - | 130 | |

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**Report Date:** 02/16/2023
**ORELAP#:** OR100028
**Purchase Order:**
**Received:** 02/02/23 16:14

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

**QC - Sample Duplicate** **Sample ID: 23-001779-0005**

| 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
Q1 - Quality control result biased high. Only non-detect samples reported.

***Units of Measure:***

µg/g- Microgram per gram or ppm

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

| | |
|---|---|
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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. |