

Report: COA Evaluation Summary

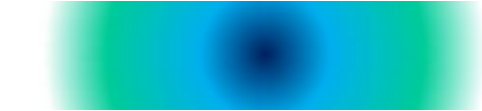


OLCC License No. 10087092BDA | ORELAP ID. 4147

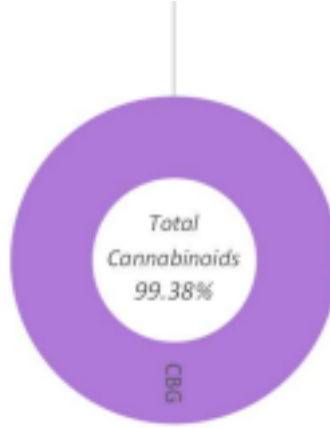
545 SW 2nd Street, Corvallis OR. 97333 | 541.257.5002 | services@preelab.com | Preelab.com For R&D Purposes Only.

Product Description Evaluation Summary

Client: GVB Oregon Moisture Analysis Test Not Required



CBG Iso TST - 259



Dry Wt. % Dry Wt. mg/g

Cannabinoid Potency Analysis

Abrv.

Product Name: CBG Iso TST - 259

Total THC * Total CBD *^{THCA} < LOQ < LOQ

Process Date: 5/11/2022 Δ-9-THC < LOQ

Matrix: Hemp Concentrate Δ-8-THC < LOQ

n/a
< LOQ < LOQ

Metric Source ID: THCV n/a

License Number: n/a CBD Date Collected: < LOQ

2022-05-12 CBGA Date Received: 2022-05-12 < LOQ

Metric Package ID: CBDA < LOQ < LOQ

CBG Report Date: 2022-05-19 CBDVA < LOQ

Report ID: A6790-02 CBDV < LOQ

LOQ

< LOQ < LOQ < LOQ < LOQ 99.38 mg/g < LOQ

< LOQ < LOQ < LOQ < LOQ < LOQ

Tests Requested:

< LOQ Cannabinoid Potency Analysis

Pesticide Analysis

CBN Total < LOQ < LOQ

Residual Solvent Analysis

CBL Cannabinoids < LOQ

CBC

< LOQ < LOQ

99.38%

* moisture compensated & adjusted for the loss of carboxylic acid group - OAR 333-064-0100

Report ID: Revision 1 A6790-02 | Page 1 of 5 | Rev 22.0 02/24/2022

Report: Case Narrative



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This certificate of analysis is prepared for...

GVB Oregon
2490 Ewald Ave SE Salem, OR 97302

This report presents the analytical findings for the sample collected on 2022-05-12 by Bharath Pogula and received by PREE Laboratory on 2022-05-12. The sample was assigned a laboratory ID of A6790-02. The results in this report only apply to sample A6790-02.


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The testing methods used are of sufficient sensitivity to meet the compliance criteria set in OAR 333-007. However, it is the responsibility of the client to utilize the data to comply with standards set in OAR 333-007.

All analyses were performed in accordance with PREE Laboratory's NELAP/TNI approved quality control system and all quality control data was within the laboratory's predefined acceptance criteria unless otherwise noted in the case narrative of this report. General comments are also recorded below.

Notes:

The Oregon Department of Agriculture requires hemp products to not contain more than 0.35% total THC, per OAR 603- 048. Residual solvent analysis was subcontracted. The report from the subcontracting laboratory is attached. R&D sample results may not be used for compliance purposes. This is a revised report, reissued due to a change in the report format. This is report revision #01.



Sardar, Tamzid M. | Laboratory Director
Corvallis, Oregon

If you have any questions regarding the information in this report, please feel free to call 541-257-5002 or email PREE at services@preelab.com.

Report ID: Revision 1 A6790-02 | Page 2 of 5 | Rev 22.0 02/24/2022

Report: Evaluation Detail



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Evaluation Detail

Moisture Analysis | Test Not
Requested/Required

Analysis
Evaluation Detail

Cannabinoid Potency

CBG Iso TST - 259

Product Name:

Cannabinoid Potency Analysis | Compound Abrv. Dry Wt. (%) RL (%)
Dry Wt. (mg/g)

Analysis Date: 2022-05-17 Tetrahydro-cannabinolic acid THCA < LOQ 0.125 %

Testing Batch ID: POM220517C
Total THC * < LOQ

< LOQ

Delta9 Tetrahydro-cannabinol Δ-9-THC < LOQ 0.125 % < LOQ
% < LOQ

Delta8 Tetrahydro-cannabinol Δ-8-THC < LOQ 0.125

< LOQ

Testing Method: LSOP #303 Cannabinoid Quantification Tetrahydrocannabivarin THCV < LOQ 0.125 % < LOQ

Total CBD *

< LOQ

< LOQ

Cannabidivarin CBDV < LOQ 0.125 % < LOQ

Cannabinol CBN < LOQ 0.125 %
< LOQ

Cannabicyclol CBL < LOQ 0.125 % < LOQ

Cannabichromene CBC < LOQ 0.125 % < LOQ

* moisture compensated & adjusted for the loss of carboxylic acid group -

Note: Accreditation for Δ-8-THC, THCV, CBGA,CBG, CBDVA, CBDV, CBL,
CBC, CBN is not offered by ORELAP and therefore are not accredited tests.

Cannabidiolic acid CBDA < LOQ 0.125 % < LOQ

Cannabidiol CBD < LOQ 0.125 % < LOQ

Cannabigerolic acid CBGA < LOQ 0.125 %
< LOQ

Cannabigerol CBG 993.8 0.125 % 99.38 %

Cannabidivarinic acid CBDVA < LOQ 0.125 % < LOQ

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Report: Quality Check



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Analysis |

Moisture Analysis

Quality Control Detail Moisture

Test Not Requested/Required

Cannabinoid Potency Analysis Quality Control Detail

2022-05-17 Cannabinoid
Potency Analysis |

MB LCS Expected Value (%)
Tested Value (%)

Pass
Criteria

Analysis Date:

Cannabidiolic acid ○

● 93.1%

Testing Batch ID:
POM220517C

Cannabidiol ○

< 0.1% < 0.1% < 0.1% < < 0.1% < 0.1% < 0.1% <

Tetrahydro-cannabinolic
acid Delta9

Tetrahydro-cannabinolic
acid Delta9 ○

0.1% 100.0% 100.0% 0.1% ± 20% ± 20% ±
100.0% 20%

Tetrahydro-cannabinol

Tetrahydro-cannabinol ●

< 0.1% < 0.1% < 0.1% <

Cannabidiolic acid ●

0.1% 94.8% 95.3%

- Cannabidiol

CBC, CBN is not offered by ORELAP and therefore are not accredited tests.
100.0% 101.0% ± 20%

Note: Accreditation for Δ-8-THC, THCV, CBGA, CBG, CBDVA, CBDV, CBL,

Definitions

- 📄 Limit of Quantitation (LOQ) : The minimum level, concentration, or quantity of a target analyte that can be reported with a specific degree of confidence.
- 📄 Method Blank (MB) : A quality control sample that is free of the analyte being measured.
- 📄 Laboratory Control Sample (LCS) : A quality control sample with a known amount of the analyte used to demonstrate accuracy.
- 📄 Field Duplicate : A second sample collected in the field using the same sampling method as the primary sample.
- 📄 Action Limit : Analyte levels set by the state of Oregon (OAR 333-007) indicating that follow-up action is necessary.
- 📄 ppm : parts per million, equivalent to 1 µg/g and 1 µg/L or 0.001 mg/g and 0.001 mg/L
- 📄 COA : Certificate of Analysis.
- 📄 Report Flag (A) : Compound tested over 100% or 1000 mg/g. The test result is within the method uncertainty and instrument result is not above the upper limit of quantitation. Value will be adjusted down to 100% or 1000 mg/mg in the reporting process.
- 📄 Report Flag (B) : Blank contamination - The analyte was detected above one-half the reporting limit in an associated blank.
- 📄 Report Flag (E) : Compound tested above the upper limit of quantitation.
- 📄 Report Flag (Q) : One or more quality control criteria (for example, LCS recovery, surrogate spike recovery) failed.

Calculations

- 📄 Cannabinoid Potency :
$$\text{Wet WT\%} = (\text{Exported concentration ppm}) \times (\text{Dilution}) \times (\text{Extraction Vol./Wet wt mg}) \times 100$$
$$\text{Total THC\%} = (\% \text{THCA}) \times 0.877 + (\% \text{THC})$$
$$\text{Total CBD\%} = (\% \text{CBDA}) \times 0.877 + (\% \text{CBD})$$
$$\text{Total THC (Dry WT)\%} = \% \text{ total THC(wet)} / [1 - (\% \text{moisture}/100)]$$
$$\text{Total CBD (Dry WT)\%} = \% \text{ total CBD(wet)} / [1 - (\% \text{moisture}/100)]$$

- 📄 Percentage Recovery : $\% \text{ Rec.} = [(\text{Amount measured}) / (\text{Known amount})] * 100$

Disclaimers

Disposal : All marijuana and hemp products received by PREE will be disposed of following the OLCC's rules for Marijuana



Waste Management, regardless of product type, unless PREE is given specific disposal instructions for a product based on test results from state regulatory agencies.



Analytical Results

SC Laboratories Oregon LLC
ORELAP# 4133/OLCC# 1018619A26E
15865 SW 74th Ave Suite 110, Tigard, OR
503-272-8830
www.sclabs.com

Sample Name: **A6790-02**

License: **010-10087092BDA**

Tested for:

PREE Laboratory

Date Sampled: **05/13/22 00:00**

Date Accepted: **05/13/22**

R&D Subcontract

Report cannot be used for OHA/OLCC compliance.

Sample Metrc ID: **NA**

Laboratory ID: **22E0078-02**

Matrix: **Extracts and Concentrates**

Batch RFID: **NA**

Lot # **NA**

Batch Size: **NA**

Pesticide Analysis in ppm

Date Extracted: 05/16/22 Analysis Method: AOAC 2007.01 & EN 15662 05/17/22 Results above the action levels
are highlighted in red #.

Date Analyzed:

Analyte Result Action Level LOQ

Analyte Result Action Level LOQ

Abamectin < LOQ 0.5 0.238 Acequinocyl < LOQ 2 0.024 Aldicarb < LOQ 0.4 0.024 Bifenazate < LOQ 0.2 0.024 Boscalid < LOQ 0.4 0.024 Carbofuran < LOQ 0.2 0.024 Chlorfenapyr < LOQ 1 0.476 Clofentezine < LOQ 0.2 0.024 Cypermethrin < LOQ 1 0.191 DDVP (Dichlorvos) < LOQ 1 0.024 Dimethoate < LOQ 0.2 0.024 Etofenprox < LOQ 0.4 0.024 Fenoxycarb < LOQ 0.2 0.024 Fipronil < LOQ 0.4 0.048 Fludioxonil < LOQ 0.4 0.095 Imazalil < LOQ 0.2 0.024 Kresoxim-methyl < LOQ 0.4 0.024 Metalaxyl < LOQ 0.2 0.024 Methomyl < LOQ 0.4 0.048 MGK-264 < LOQ 0.2 0.024 Naled < LOQ 0.5 0.048 Paclobutrazol < LOQ 0.4 0.024 Phosmet < LOQ 0.2 0.024 Prallethrin < LOQ 0.2 0.048 Propoxur < LOQ 0.2 0.024 Pyridaben < LOQ 0.2 0.024 Spiromesifen < LOQ 0.2 0.024 Spiroxamine < LOQ 0.4 0.013 Thiadiprid < LOQ 0.2 0.024 Trifloxystrobin < LOQ 0.2 0.024

Acephate < LOQ 0.4 0.024 Acetamiprid < LOQ 0.2 0.024 Azoxystrobin < LOQ 0.2 0.024 Bifenthrin < LOQ 0.2 0.024 Carbaryl < LOQ 0.2 0.024 Chlorantraniliprole < LOQ 0.2 0.024 Chlorpyrifos < LOQ 0.2 0.024 Cyfluthrin < LOQ 1 0.238 Daminozide < LOQ 1 0.095 Diazinon < LOQ 0.2 0.024 Ethoprophos < LOQ 0.2 0.024 Etoxazole < LOQ 0.2 0.024 Fenpyroximate < LOQ 0.4 0.024 Flonicamid < LOQ 1 0.024 Hexythiazox < LOQ 1 0.024 Imidacloprid < LOQ 0.4 0.024 Malathion < LOQ 0.2 0.024 Methiocarb < LOQ 0.2 0.024 Methyl parathion < LOQ 0.2 0.095 Myclobutanil < LOQ 0.2 0.024 Oxamyl < LOQ 1 0.024 Permethrins (total) < LOQ 0.2 0.095 Piperonyl butoxide < LOQ 2 0.024 Propiconazole < LOQ 0.4 0.191 Pyrethrins (total) < LOQ 1 0.476 Spinosad < LOQ 0.2 0.020 Spirotetramat < LOQ 0.2 0.048 Tebuconazole < LOQ 0.4 0.024 Thiamethoxam < LOQ 0.2 0.024

low the Limit of Quantitation - Compound not detected

These results relate only to the sample included on this report. The report may not be reproduced except in full, without the written permission of SC Laboratories. Samples tested in accordance with Oregon Administrative Rules, TNI 2009 Standard and SC Laboratories quality assurance plan unless otherwise noted.

Shea Hamilton For Brian
Weigel Lab Director

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License: 010-10087092BDA
Date Sampled: 05/13/22 00:00
Date Accepted: 05/13/22

Sample Name: Tested for:

A6790-02
PREE Laboratory R&D Subcontract

Analytical Results

Concentrates Lot # NA

Report cannot be used for OLCC
compliance. **Laboratory ID:**
22E0078-02

Matrix: Extracts and

Sample Metrc ID: NA

Batch RFID: NA



1,4-Dioxane < LOQ 380 68.0 2-Butanol < LOQ
5000 418 2-Ethoxyethanol < LOQ 160 28.6
2-Propanol (IPA) < LOQ 5000 418 Acetone < LOQ
5000 418 Acetonitrile < LOQ 410 73.3 Benzene <
LOQ 2 0.715
Butanes < LOQ 5000 298 Cyclohexane < LOQ
3880 694 Dichloromethane (methylene chloride) <
LOQ 600 108 Ethyl acetate < LOQ 5000 418 Ethyl
ether < LOQ 5000 418 Ethylbenzene < LOQ 2170
387 Ethylene glycol < LOQ 620 111 Ethylene oxide
< LOQ 50 35.8 Heptane 578 5000 418 Hexanes <
LOQ 290 51.9 Isopropyl acetate < LOQ 5000 418
Isopropylbenzene (cumene) < LOQ 70 12.5
Methanol < LOQ 3000 1190 Pentanes < LOQ 5000 418 Propane < LOQ 5000
119 Tetrahydrofuran < LOQ 720 129 Toluene < LOQ 890 159 Xylenes < LOQ
2170 387

<LOQ - Results below the Limit of Quantitation - Compound not
detected
Results above the Action Level fail state testing requirements and will
be highlighted **Red #**.
Date Extracted: 05/16/22 Date Analyzed: 05/17/22 Analysis
Method: USP 467



Shea Hamilton For Brian Weigel Lab

Director

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Case Narrative

Receiving - Chain of Custody excluded from the report at client request. Document available upon request.

Pesticides - Multiple analytes recovered above the upper acceptance limit in the Blank Spike, Matrix Spike, and/or Matrix Spike Duplicate. Analytes were below the reporting limit in all client samples. See QC Report for details.

Bifenthrin recovered below the lower acceptance limit in the Matrix Spike and Matrix Spike Duplicate. The Blank Spike recovered within acceptance limits for this analyte. Additionally, no peaks were identified in the retention time window of this analyte in client samples.

Residual Solvent - 2-Ethoxyethanol and Ethylene Glycol were above normally accepted recovery criteria in the Blank Spike, Matrix Spike, and/or Matrix Spike Duplicate. Analytes were below the reporting limit in all client samples.

3-Methylcyclopentyl acetate as detected as a tentatively identified compound in sample 22E0078-02.

Quality Control Pesticide Analysis

Batch: B221089 - Pesticide Prep

Blank(B221089-BLK1) Extracted - 05/16/22 14:38 Analyzed - 05/16/22 20:31

| Analyte Result Units | Acetamiprid < LOQ ppm | < LOQ ppm Carbaryl < LOQ | Clofentezine < LOQ ppm | Spike Level Source Result %REC %REC |
|-----------------------|------------------------|--------------------------------|---------------------------|-------------------------------------|
| Abamectin < LOQ ppm | Aldicarb < LOQ ppm | ppm Carbofuran < LOQ ppm | Cyfluthrin < LOQ ppm | Limits RPD RPD Limit |
| Acephate < LOQ ppm | Azoxystrobin < LOQ ppm | Chlorantraniliprole < LOQ ppm | Cypermethrin < LOQ ppm | |
| Acequinocyl < LOQ ppm | Bifenazate < LOQ ppm | Chlorfenapyr < LOQ ppm | Daminozide < LOQ ppm DDVP | |
| | Bifenthrin < LOQ ppm | BoscalidChlorpyrifos < LOQ ppm | (Dichlorvos) < LOQ ppm | |

Director

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or Brian Weigel Lab



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Quality Control Pesticide Analysis (Continued)

Batch: B221089 - Pesticide Prep (Continued)

Blank(B221089-BLK1) Extracted - 05/16/22 14:38 Analyzed - 05/16/22 20:31

| | | | | | |
|-----------------------------|---------------------------|------------------------|-------------------------|------------------------------|-----------------------------|
| | Fenpyroximate < LOQ ppm | Malathion < LOQ ppm | LOQ ppm | Paclbutrazol < | Pyridaben < LOQ ppm |
| Analyte Result Units | Fipronil < LOQ ppm | Metalaxyl < LOQ ppm | LOQ ppm | Permethrins (total) < | Spinosad < LOQ ppm |
| Diazinon < LOQ ppm | Fonicamid < LOQ ppm | Methiocarb < LOQ ppm | LOQ ppm | Phosmet < LOQ | Spiromesifen < LOQ ppm |
| Dimethoate < LOQ ppm | Fludioxonil < LOQ ppm | Methomyl < LOQ ppm | Methyl | ppm Piperonyl butoxide < | LOQ Spirotetramat < LOQ ppm |
| Ethoprophos < LOQ ppm | Hexythiazox < LOQ ppm | parathion < LOQ ppm | ppm | Prallethrin < LOQ ppm | Spike Level |
| Etofenprox < LOQ ppm | Imazalil < LOQ ppm | MGK-264 < LOQ ppm | Propiconazole < LOQ ppm | | Source |
| Etoxazole < LOQ ppm | Imidacloprid < LOQ ppm | Myclobutanil < LOQ ppm | Propoxur < LOQ ppm | | Result %REC |
| Fenoxycarb < LOQ ppm | Kresoxim-methyl < LOQ ppm | Naled < LOQ ppm | Oxamyl < | Pyrethrins (total) < LOQ ppm | %REC |
| | | | | | Limits RPD |
| | | | | | RPD Limit |

Director

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or Brian Weigel Lab



Analytical Results

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Quality Control Pesticide Analysis (Continued)

Batch: B221089 - Pesticide Prep (Continued)

Blank(B221089-BLK1) Extracted - 05/16/22 14:38 Analyzed - 05/16/22 20:31

| Analyte Result Units | Spiroxamine < LOQ ppm | Thiacloprid < LOQ ppm | Trifloxystrobin < LOQ ppm | Result %REC |
|----------------------|------------------------|------------------------|-------------------------------------|--|
| | Tebuconazole < LOQ ppm | Thiamethoxam < LOQ ppm | Spike Level Source | %REC Limits RPD RPD Limit |

LCS(B221089-BS1) Extracted - 05/16/22 14:38 Analyzed - 05/16/22 20:47

| Analyte Result Units | Spike Level Source Result %REC | %REC Limits RPD RPD Limit |
|--|---|---|
| Abamectin 2.68 ppm | 1.98 135 50-150 | Acephate 1.80 ppm 2.00 89.8 60-120 |
| 1.89 ppm 2.00 94.7 60-120 | Aldicarb 2.16 ppm 2.00 108 60-120 | Azoxystrobin 1.93 ppm 2.00 96.7 60-120 |
| 2.00 93.7 60-120 | Bifenthrin 1.58 ppm 2.00 79.2 50-150 | Boscalid 1.90 ppm 2.00 95.0 60-120 |
| Carbofuran 2.00 ppm 2.00 100 60-120 | Chlorantraniliprole 1.84 ppm 2.00 92.1 60-120 | Chlorfenapyr 1.90 ppm 2.00 95.2 60-120 |
| Chlorpyrifos 1.59 ppm 2.00 79.4 60-120 | Clofentezine 1.83 ppm 2.00 91.7 60-120 | Cyfluthrin 1.66 ppm 2.00 82.8 50-150 |
| Cypermethrin 1.65 ppm 2.00 82.3 50-150 | Daminozide 1.91 ppm 2.00 95.5 60-120 | DDVP (Dichlorvos) 1.62 ppm 2.00 81.2 60-120 |
| Diazinon 1.90 ppm 2.00 95.1 60-120 | Dimethoate 1.90 ppm 2.00 95.2 60-120 | Ethoprophos 1.96 ppm 2.00 98.1 60-120 |
| 1.87 ppm 2.00 93.3 50-150 | Etoxazole 1.91 ppm 2.00 95.7 60-120 | Fenoxycarb 1.91 ppm 2.00 95.5 60-120 |
| ppm 2.00 95.4 60-120 | Fipronil 1.70 ppm 2.00 85.0 60-120 | |

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Shea Hamilton For Brian Weigel Lab Director
Standard and SC Laboratories quality assurance plan unless otherwise noted.



Analytical Results

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**Quality Control
Pesticide Analysis (Continued)**

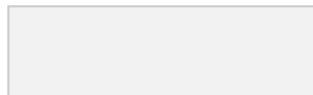
Batch: B221089 - Pesticide Prep (Continued)

LCS(B221089-BS1) Extracted - 05/16/22 14:38 Analyzed - 05/16/22 20:47

| Analyte Result Units | Spike Level Source Result %REC | %REC Limits RPD RPD Limit |
|---|---|---|
| Fonicamid 1.59 ppm 2.00 79.4 60-120 | Fludioxonil 2.09 ppm 2.00 105 50-150 | Hexythiazox 1.66 ppm 2.00 82.8 60-120 |
| 2.06 ppm 2.00 103 60-120 | Imidacloprid 1.91 ppm 2.00 95.3 60-120 | Kresoxim-methyl 1.90 ppm 2.00 95.2 60-120 |
| ppm 2.00 94.4 60-120 | Metalaxyl 1.99 ppm 2.00 99.3 60-120 | Methiocarb 1.85 ppm 2.00 92.4 60-120 |
| 91.7 60-120 | Methyl parathion 3.10 ppm 2.00 155 50-150 | MGK-264 1.72 ppm 2.00 85.8 50-150 |
| 60-120 | Myclobutanil 1.86 ppm 2.00 92.9 | Naled 1.92 ppm 2.00 96.0 50-150 |
| 60-120 | Oxamyl 1.84 ppm 2.00 92.1 60-120 | Paclobutrazol 2.01 ppm 2.00 100 60-120 |
| Permethrins (total) 1.62 ppm 2.00 81.2 50-150 | Phosmet 1.86 ppm 2.00 92.8 50-150 | Piperonyl butoxide 1.81 ppm 2.00 90.6 |
| 60-120 | Prallethrin 2.00 ppm 2.00 99.9 60-120 | Propiconazole 2.01 ppm 2.00 100 60-120 |
| Pyrethrins (total) 1.07 ppm 1.16 92.3 60-120 | Pyridaben 1.93 ppm 2.00 96.3 50-150 | Spinosad 2.20 ppm 2.00 110 50-150 |
| Spiromesifen 2.37 ppm 2.00 118 60-120 | Spirotetramat 2.02 ppm 2.00 101 60-120 | Spiroxamine 2.02 ppm 2.00 101 60-120 |
| Tebuconazole 1.99 ppm 2.00 99.7 60-120 | Thiacloprid 1.91 ppm 2.00 95.7 60-120 | Thiamethoxam 1.97 ppm 2.00 98.6 60-120 |
| Trifloxystrobin 2.12 ppm 2.00 106 60-120 | | |

Matrix Spike(B221089-MS1) Extracted - 05/16/22 14:38 Analyzed - 05/16/22 21:03

| Analyte Result Units | Spike Level Source Result %REC | %REC Limits RPD RPD Limit |
|----------------------|--------------------------------|---------------------------|
|----------------------|--------------------------------|---------------------------|



Shea Hamilton For Brian Weigel Lab

Director

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Analytical Results

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Quality Control Pesticide Analysis (Continued)

Batch: B221089 - Pesticide Prep (Continued)

Matrix Spike(B221089-MS1) Extracted - 05/16/22 14:38 Analyzed - 05/16/22 21:03

| Analyte Result Units | Spike Level Source Result %REC | %REC Limits RPD RPD Limit |
|------------------------------|--------------------------------------|---------------------------------|
| Abamectin 7.70 ppm | 1.96 < LOQ | 393 30-200 |
| Acephate 2.07 ppm | 1.98 < LOQ | 104 30-200 |
| Acequinocyl 1.54 ppm | 1.98 < LOQ | 104 30-200 |
| Acetamiprid 2.22 ppm | 1.98 < LOQ | 112 30-200 |
| Aldicarb 2.41 ppm | 1.98 < LOQ | 122 30-200 |
| Azoxystrobin 2.04 ppm | 1.98 < LOQ | 103 30-200 |
| Bifenazate 2.16 ppm | 1.98 < LOQ | 109 30-200 |
| Bifenthrin 0.29 ppm | 1.98 < LOQ | 14.8 30-200 |
| Boscalid 2.00 ppm | 1.98 < LOQ | 101 30-200 |
| Carbaryl 1.95 ppm | 1.98 < LOQ | 98.3 30-200 |
| Carbofuran 2.05 ppm | 1.98 < LOQ | 104 30-200 |
| Chlorantraniliprole 2.42 ppm | 1.98 < LOQ | 122 30-200 |
| Chlorfenapyr 1.06 ppm | 1.98 < LOQ | 53.8 30-200 |
| Chlorpyrifos 1.33 ppm | 1.98 < LOQ | 67.3 30-200 |
| Clofentezine 1.14 ppm | 1.98 < LOQ | 57.4 30-200 |
| Cyfluthrin 1.79 ppm | 1.98 < LOQ | 90.6 30-200 |
| Cypermethrin 1.64 ppm | 1.98 < LOQ | 82.7 30-200 |
| Daminozide 1.90 ppm | 1.98 < LOQ | 96.2 30-200 |
| DDVP (Dichlorvos) 1.69 ppm | 1.98 < LOQ | 85.3 30-200 |
| Diazinon 2.06 ppm | 1.98 < LOQ | 104 30-200 |
| Dimethoate 1.99 ppm | 1.98 < LOQ | 101 30-200 |
| Ethoprophos 2.17 ppm | 1.98 < LOQ | 110 30-200 |
| Etofenprox 1.24 ppm | 1.98 < LOQ | 62.6 30-200 |
| Etoxazole 2.27 ppm | 1.98 < LOQ | 115 30-200 |
| Fenoxycarb 2.16 ppm | 1.98 < LOQ | 109 30-200 |
| Fenpyroximate 2.38 ppm | 1.98 < LOQ | 120 30-200 |
| Fipronil 1.48 ppm | 1.98 < LOQ | 74.9 30-200 |
| Fonicamid 1.58 ppm | 1.98 < LOQ | 79.9 30-200 |
| Fludioxonil 1.60 ppm | 1.98 < LOQ | 80.7 30-200 |
| Hexythiazox 2.07 ppm | 1.98 < LOQ | 105 30-200 |
| Imazalil 2.17 ppm | 1.98 < LOQ | 110 30-200 |
| Imidacloprid 1.96 ppm | 1.98 < LOQ | 99.3 30-200 |
| Kresoxim-methyl 2.05 ppm | 1.98 < LOQ | 103 30-200 |
| Malathion 1.96 ppm | 1.98 < LOQ | 98.8 30-200 |
| Metalaxyl 2.09 ppm | 1.98 < LOQ | 106 30-200 |

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Quality Control Pesticide Analysis (Continued)

Batch: B221089 - Pesticide Prep (Continued)

Matrix Spike(B221089-MS1) Extracted - 05/16/22 14:38 Analyzed - 05/16/22 21:03

| Analyte Result Units | Spike Level Source Result %REC | %REC Limits RPD RPD Limit |
|----------------------|--------------------------------------|---------------------------------|
|----------------------|--------------------------------------|---------------------------------|

Methiocarb 1.69 ppm 1.98 < LOQ 85.5 30-200 Methomyl 1.96 ppm 1.98 < LOQ 98.9 30-200 Methyl parathion 3.12 ppm 1.98 < LOQ 158 30-200 MGK-264 1.47 ppm 1.98 < LOQ 74.5 30-200 Myclobutanil 2.04 ppm 1.98 < LOQ 103 30-200 Naled 1.96 ppm 1.98 < LOQ 99.0 30-200 Oxamyl 2.18 ppm 1.98 < LOQ 110 30-200 Paclobutrazol 1.80 ppm 1.98 < LOQ 90.7 30-200 Permethrins (total) 2.09 ppm 1.98 < LOQ 105 30-200 Phosmet 2.10 ppm 1.98 < LOQ 106 30-200 Piperonyl butoxide 2.20 ppm 1.98 0.02 110 30-200 Prallethrin 2.07 ppm 1.98 < LOQ 105 30-200 Propiconazole 2.05 ppm 1.98 < LOQ 104 30-200 Propoxur 2.04 ppm 1.98 < LOQ 103 30-200 Pyrethrins (total) 1.73 ppm 1.15 < LOQ 151 30-200 Pyridaben 2.18 ppm 1.98 < LOQ 110 30-200 Spinosad 2.48 ppm 1.98 < LOQ 125 30-200 Spiromesifen 3.15 ppm 1.98 < LOQ 159 30-200 Spirotetramat 3.99 ppm 1.98 < LOQ 202 30-200 Spiroxamine 2.16 ppm 1.98 < LOQ 109 30-200 Tebuconazole 1.94 ppm 1.98 < LOQ 98.2 30-200 Thiachloprid 2.25 ppm 1.98 < LOQ 114 30-200 Thiamethoxam 1.96 ppm 1.98 < LOQ 99.2 30-200 Trifloxystrobin 2.25 ppm 1.98 < LOQ 114 30-200

Matrix Spike Dup(B221089-MSD1) Extracted - 05/16/22 14:38 Analyzed - 05/16/22

| Analyte Result Units | Spike Level Source Result %REC | %REC Limits RPD RPD Limit |
|--|--|---|
| Abamectin 4.89 ppm 1.97 < LOQ 249 30-200 45.0 50 | Acephate 1.97 ppm 1.99 < LOQ 99.0 30-200 5.37 30 | Acequinocyl 1.36 ppm 1.99 < LOQ 68.7 30-200 12.6 50 |
| Acetamiprid 2.20 ppm 1.99 < LOQ 111 30-200 1.12 30 | Aldicarb 2.34 ppm 1.99 < LOQ 118 30-200 3.46 30 | Azoxystrobin 2.03 ppm 1.99 < LOQ 102 30-200 0.30 30 |
| Bifenazate 2.16 ppm 1.99 < LOQ 109 30-200 0.313 30 | Bifenthrin 0.26 ppm 1.99 < LOQ 13.2 30-200 11.7 30 | |

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**Quality Control
Pesticide Analysis (Continued)**

Batch: B221089 - Pesticide Prep (Continued)

Matrix Spike Dup(B221089-MSD1) Extracted - 05/16/22 14:38 Analyzed - 05/16/22

| Analyte Result Units | Spike Level Source Result %REC | %REC Limits RPD RPD Limit |
|--|---|---|
| Boscalid 1.98 ppm 1.99 < LOQ 99.6 30-200 1.70 30 | Carbaryl 1.90 ppm 1.99 < LOQ 95.8 30-200 2.62 30 | Carbofuran 1.99 ppm 1.99 < LOQ 100 30-200 3.40 30 |
| Chlorantraniliprole 2.38 ppm 1.99 < LOQ 120 30-200 2.13 30 | Chlorfenapyr 1.10 ppm 1.99 < LOQ 55.5 30-200 3.13 50 | Chlorpyrifos 1.24 ppm 1.99 < LOQ 62.6 30-200 7.26 30 |
| Clofentezine 1.10 ppm 1.99 < LOQ 55.3 30-200 3.73 30 | Cyfluthrin 1.65 ppm 1.99 < LOQ 83.0 30-200 8.76 50 | Cypermethrin 1.65 ppm 1.99 < LOQ 83.0 30-200 0.368 30 |
| Daminozide 1.88 ppm 1.99 < LOQ 94.7 30-200 1.55 50 | DDVP (Dichlorvos) 1.66 ppm 1.99 < LOQ 83.7 30-200 1.91 30 | Diazinon 2.00 ppm 1.99 < LOQ 101 30-200 3.32 30 |
| Dimethoate 2.01 ppm 1.99 < LOQ 101 30-200 0.373 30 | Ethoprophos 2.09 ppm 1.99 < LOQ 105 30-200 3.96 30 | Etofenprox 1.14 ppm 1.99 < LOQ 57.5 30-200 8.49 30 |
| Etoxazole 2.20 ppm 1.99 < LOQ 111 30-200 3.37 30 | Fenoxycarb 2.14 ppm 1.99 < LOQ 108 30-200 1.40 30 | Fenpyroximate 2.21 ppm 1.99 < LOQ 111 30-200 7.71 30 |
| Fipronil 1.47 ppm 1.99 < LOQ 74.1 30-200 1.15 30 | Flonicamid 1.51 ppm 1.99 < LOQ 76.0 30-200 5.03 30 | Fludioxonil 1.51 ppm 1.99 < LOQ 76.1 30-200 5.86 50 |
| Hexythiazox 1.89 ppm 1.99 < LOQ 94.9 30-200 9.62 30 | Imazalil 2.10 ppm 1.99 < LOQ 106 30-200 3.95 30 | Imidacloprid 1.96 ppm 1.99 < LOQ 98.6 30-200 0.710 30 |
| Kresoxim-methyl 1.92 ppm 1.99 < LOQ 96.7 30-200 6.78 30 | Malathion 2.00 ppm 1.99 < LOQ 101 30-200 1.74 30 | Metalaxyl 2.05 ppm 1.99 < LOQ 103 30-200 2.34 30 |
| Methiocarb 1.65 ppm 1.99 < LOQ 83.1 30-200 2.86 30 | Methomyl 2.02 ppm 1.99 < LOQ 102 30-200 2.96 30 | Methyl parathion 3.35 ppm 1.99 < LOQ 168 30-200 6.51 30 |
| MGK-264 1.35 ppm 1.99 < LOQ 68.2 30-200 8.85 30 | Myclobutanil 2.00 ppm 1.99 < LOQ 101 30-200 2.36 30 | Naled 1.90 ppm 1.99 < LOQ 95.4 30-200 2.70 30 |
| Oxamyl 2.09 ppm 1.99 < LOQ 105 30-200 4.99 30 | Paclobutrazol 1.76 ppm 1.99 < LOQ 88.4 30-200 2.59 30 | |

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Quality Control Pesticide Analysis (Continued)

Batch: B221089 - Pesticide Prep (Continued)

Matrix Spike Dup(B221089-MSD1) Extracted - 05/16/22 14:38 Analyzed - 05/16/22

| Analyte Result Units | Spike Level Source Result %REC | %REC Limits RPD RPD Limit |
|------------------------------|--------------------------------------|--|
| Permethrins (total) 2.00 ppm | 1.99 < LOQ 101 30-200 4.59 30 | Phosmet 2.05 ppm 1.99 < LOQ 103 30-200 2.77 30 |
| Piperonyl butoxide 2.17 ppm | 1.99 0.02 108 30-200 2.05 30 | Prallethrin 1.91 ppm 1.99 < LOQ 96.3 30-200 8.33 30 |
| Propiconazole 1.95 ppm | 1.99 < LOQ 98.0 30-200 5.55 30 | Propoxur 2.01 ppm 1.99 < LOQ 101 30-200 1.78 30 |
| Pyrethrins (total) 1.61 ppm | 1.15 < LOQ 140 30-200 7.60 30 | Pyridaben 2.09 ppm 1.99 < LOQ 105 30-200 4.45 30 |
| Spinosad 2.35 ppm | 1.99 < LOQ 118 30-200 5.69 35 | Spiromesifen 3.03 ppm 1.99 < LOQ 153 30-200 4.12 30 |
| Spirotetramat 4.08 ppm | 1.99 < LOQ 205 30-200 1.85 30 | Spiroxamine 2.10 ppm 1.99 < LOQ 106 30-200 3.47 30 |
| Tebuconazole 1.88 ppm | 1.99 < LOQ 94.7 30-200 3.71 30 | Thiacloprid 2.26 ppm 1.99 < LOQ 112 30-200 0.0682 30 |
| Thiamethoxam 1.94 ppm | 1.99 < LOQ 97.4 30-200 1.83 30 | Trifloxystrobin 2.07 ppm 1.99 < LOQ 104 30-200 8.89 30 |

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Analytical Results

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Quality Control Solvent Analysis

Batch: B221088 - Residual Solvent Prep

Blank(B221088-BLK1) Extracted - 05/16/22 17:38 Analyzed - 05/16/22 21:10

| | | | | | |
|-----------------------------|----------------------------|---------------------------------|------------------------------|-----------------------------|-------------------|
| | Acetone < LOQ ug/g | ug/g Ethyl acetate < LOQ ug/g | < LOQ ug/g Isopropyl acetate | LOQ ug/g Toluene < LOQ ug/g | |
| Analyte Result Units | Acetonitrile < LOQ ug/g | Ethyl ether < LOQ ug/g | < LOQ ug/g Isopropylbenzene | Xylenes < LOQ ug/g | |
| 1,4-Dioxane < LOQ ug/g | Benzene < LOQ ug/g | Butanes Ethylbenzene < LOQ ug/g | (cumene) < LOQ ug/g | Spike Level | |
| 2-Butanol < LOQ ug/g | < LOQ ug/g Cyclohexane < | Ethylene glycol < LOQ ug/g | Methanol < LOQ ug/g | Source | |
| 2-Ethoxyethanol < LOQ ug/g | LOQ ug/g Dichloromethane | Ethylene oxide < LOQ ug/g | Pentanes < LOQ ug/g | Propane %REC | |
| 2-Propanol (IPA) < LOQ ug/g | (methylene chloride) < LOQ | Heptane < LOQ ug/g | Hexanes < LOQ ug/g | Tetrahydrofuran < | Limits RPD |
| | | | | | RPD Limit |

LCS(B221088-BS1) Extracted - 05/16/22 17:38 Analyzed - 05/16/22 20:07

| Analyte Result Units | Spike Level | %REC | Source | Limits RPD | RPD Limit |
|---------------------------------------|--------------------|-------------|---------------------|---|--------------------------|
| 1,4-Dioxane 581 ug/g | 570 | 102 | 60-120 | 2,2-Dimethylbutane 416 ug/g | 435 95.6 60-120 |
| 2-Butanol 3120 ug/g | 106 | 60-120 | 2-Butanol 3470 ug/g | 3500 99.1 60-120 | 2-Ethoxyethanol 291 ug/g |
| 2-Methylbutane (neopentane) 3300 ug/g | 3120 | 106 | 60-120 | 2-Methylpentane/2,3-Dimethylbutane 849 ug/g | 870 97.6 60-120 |

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Analytical Results

Quality Control Solvent Analysis (Continued)

Batch: B221088 - Residual Solvent Prep (Continued)

LCS(B221088-BS1) Extracted - 05/16/22 17:38 Analyzed - 05/16/22 20:07

| Analyte Result Units | Spike Level | | %REC | |
|--------------------------------------|-------------|--------|------------|-----------|
| | Source | Result | Limits RPD | RPD Limit |
| 2-Methylpropane (isobutane) | 3320 ug/g | 3120 | 106 | 60-120 |
| 2-Propanol (IPA) | 3500 ug/g | 3500 | 99.9 | 60-120 |
| 3-Methylpentane | 431 ug/g | 435 | 99.0 | 60-120 |
| Acetone | 3520 ug/g | 3500 | 101 | 60-120 |
| Acetonitrile | 675 ug/g | 615 | 110 | 60-120 |
| Benzene | 2.74 ug/g | 3.00 | 91.4 | 60-120 |
| Cyclohexane | 6000 ug/g | 5820 | 103 | 60-120 |
| Dichloromethane (methylene chloride) | 843 ug/g | 900 | 93.6 | 60-120 |
| Ethyl acetate | 3490 ug/g | 3500 | 99.7 | 60-120 |
| Ethyl ether | 3590 ug/g | 3500 | 102 | 60-120 |
| Ethylbenzene | 3190 ug/g | 3250 | 98.2 | 60-120 |
| Ethylene glycol | 1180 ug/g | 930 | 127 | 60-120 |
| Ethylene oxide | 348 ug/g | 375 | 92.9 | 60-120 |
| Heptane | 3490 ug/g | 3500 | 99.8 | 60-120 |
| Isopropyl acetate | 3480 ug/g | 3500 | 99.4 | 60-120 |
| Isopropylbenzene (cumene) | 107 ug/g | 105 | 102 | 60-120 |
| m,p-Xylene | 6530 ug/g | 6510 | 100 | 60-120 |
| Methanol | 2680 ug/g | 2500 | 107 | 60-120 |
| n-Butane | 2750 ug/g | 3120 | 88.2 | 60-120 |
| n-Hexane | 431 ug/g | 435 | 99.1 | 60-120 |
| n-Pentane | 3740 ug/g | 3500 | 107 | 60-120 |
| Propane | 1320 ug/g | 1250 | 106 | 60-120 |
| Tetrahydrofuran | 1060 ug/g | 1080 | 98.0 | 60-120 |
| Toluene | 1340 ug/g | 1340 | 99.9 | 60-120 |
| o-Xylene | 3120 ug/g | 3250 | 96.0 | 60-120 |

Matrix Spike(B221088-MS1) Extracted - 05/16/22 17:38 Analyzed - 05/16/22 20:28

| Analyte Result Units | Spike Level | | %REC | |
|------------------------------------|-------------|--------|------------|-------------|
| | Source | Result | Limits RPD | RPD Limit |
| 1,4-Dioxane | 525 ug/g | 522 | < LOQ | 101 71-131 |
| 2,2-Dimethylbutane | 396 ug/g | 399 | < LOQ | 99.4 70-130 |
| 2,2-Dimethylpropane (neopentane) | 3170 ug/g | 2860 | < LOQ | 111 65-168 |
| 2-Butanol | 3250 ug/g | 3210 | < LOQ | 101 71-133 |
| 2-Ethoxyethanol | 255 ug/g | 220 | < LOQ | 116 68-126 |
| 2-Methylbutane (isopentane) | 3500 ug/g | 3210 | < LOQ | 109 68-141 |
| 2-Methylpentane/2,3-Dimethylbutane | 803 ug/g | 767 | < LOQ | 101 71-133 |

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Analytical Results

Quality Control Solvent Analysis (Continued)

Batch: B221088 - Residual Solvent Prep (Continued)

Matrix Spike(B221088-MS1) Extracted - 05/16/22 17:38 Analyzed - 05/16/22 20:28

| Analyte Result Units | Spike Level | | %REC | |
|--------------------------------------|-------------|--------|------------|-------------|
| | Source | Result | Limits RPD | RPD Limit |
| 2-Methylpropane (isobutane) | 3150 ug/g | 2860 | 4.87 | 110 46-179 |
| 2-Propanol (IPA) | 3290 ug/g | 3210 | < LOQ | 103 74-138 |
| 3-Methylpentane | 413 ug/g | 399 | < LOQ | 104 69-129 |
| Acetone | 3340 ug/g | 3210 | 65.5 | 102 76-142 |
| Acetonitrile | 627 ug/g | 564 | < LOQ | 111 72-134 |
| Benzene | 2.70 ug/g | 2.75 | < LOQ | 98.2 64-130 |
| Cyclohexane | 5610 ug/g | 5340 | < LOQ | 105 78-144 |
| Dichloromethane (methylene chloride) | 802 ug/g | 825 | < LOQ | 97.3 71-131 |
| Ethyl acetate | 3320 ug/g | 3210 | < LOQ | 104 75-139 |
| Ethyl ether | 3400 ug/g | | | |

3210 < LOQ 106 81-141 Ethylbenzene 2970 ug/g 2980 < LOQ 99.9 73-135 Ethylene glycol 1050 ug/g 852 < LOQ 123 44-113 Ethylene oxide 317 ug/g 344 < LOQ 92.1 63-142 Heptane 3330 ug/g 3210 < LOQ 104 76-140 Isopropyl acetate 3240 ug/g 3210 < LOQ 101 76-140 Isopropylbenzene (cumene) 108 ug/g 96.2 < LOQ 112 61-200 m,p-Xylene 5990 ug/g 5970 < LOQ 100 74-138 Methanol 2500 ug/g 2290 < LOQ 109 73-135 n-Butane 2560 ug/g 2860 < LOQ 89.5 32-176 n-Hexane 410 ug/g 399 < LOQ 103 69-127 n-Pentane 3560 ug/g 3210 < LOQ 111 71-140 Propane 1250 ug/g 1150 < LOQ 109 45-152 Tetrahydrofuran 978 ug/g 990 < LOQ 98.8 74-137 Toluene 1200 ug/g 1230 < LOQ 98.3 71-131 o-Xylene 2880 ug/g 2980 < LOQ 96.6 72-134

Matrix Spike Dup(B221088-MSD1) Extracted - 05/16/22 17:38 Analyzed - 05/16/22

| Analyte Result Units | Spike Level Source Result %REC | %REC Limits RPD RPD Limit |
|--|---|--|
| 1,4-Dioxane 558 ug/g | 551 < LOQ 101 71-131 6.07 25 | 2,2-Dimethylbutane 424 ug/g 421 < LOQ 101 70-130 6.62 25 |
| 2,2-Dimethylpropane (neopentane) 3390 ug/g | 3020 < LOQ 112 65-168 6.64 25 | 2-Butanol 3490 ug/g 3390 < LOQ 103 71-133 6.99 25 |
| 2-Ethoxyethanol 280 ug/g | 232 < LOQ 121 68-126 9.70 | 25 2-Methylbutane (isopentane) 3740 ug/g |
| 3390 < LOQ 110 68-141 6.62 25 | 2-Methylpentane/2,3-Dimethylbutane 858 ug/g | 842 < LOQ 102 71-133 6.65 |

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**Quality Control
Solvent Analysis (Continued)**

Batch: B221088 - Residual Solvent Prep (Continued)

Matrix Spike Dup(B221088-MSD1) Extracted - 05/16/22 17:38 Analyzed - 05/16/22

| Analyte Result Units | Spike Level Source Result %REC | %REC Limits RPD RPD Limit |
|---------------------------------------|--------------------------------|---|
| 2-Methylpropane (isobutane) 3470 ug/g | 3020 4.87 115 46-179 9.48 25 | 2-Propanol (IPA) 3580 ug/g 3390 < LOQ 106 74-138 8.43 25 |
| 3-Methylpentane 434 ug/g | 421 < LOQ 103 69-129 4.90 25 | Acetone 3600 ug/g 3390 65.5 105 76-142 7.74 25 |
| Acetonitrile 675 ug/g | 595 < LOQ 113 72-134 7.42 25 | Benzene 2.79 ug/g 2.90 < LOQ 96.1 64-130 3.23 50 |
| Cyclohexane 5970 ug/g | 5630 < LOQ 106 78-144 6.36 25 | Dichloromethane (methylene chloride) 862 ug/g 871 < LOQ 99.0 71-131 7.22 25 |
| Ethyl acetate 3570 ug/g | 3390 < LOQ 105 75-139 7.25 25 | Ethyl ether 3670 ug/g 3390 < LOQ 108 81-141 7.84 25 |
| Ethylbenzene 3160 ug/g | 3140 < LOQ 101 73-135 6.12 25 | Ethylene glycol 1100 ug/g 900 < LOQ 122 44-113 5.15 50 |
| Ethylene oxide 342 ug/g | 363 < LOQ 94.3 63-142 7.79 25 | Heptane 3570 ug/g 3390 < LOQ 106 76-140 7.17 25 |
| Isopropyl acetate 3480 ug/g | 3390 < LOQ 103 76-140 7.12 25 | Isopropylbenzene (cumene) 112 ug/g 102 < LOQ 110 61-200 3.50 25 |
| m,p-Xylene 6510 ug/g | 6300 < LOQ 103 74-138 8.29 25 | Methanol 2710 ug/g 2420 < LOQ 112 73-135 8.01 25 |
| n-Butane 2820 ug/g | 3020 < LOQ 93.4 32-176 9.73 25 | n-Hexane 430 ug/g 421 < LOQ 102 69-127 4.81 25 |
| n-Pentane 3840 ug/g | 3390 < LOQ 113 71-140 7.46 25 | Propane 1340 ug/g 1210 < LOQ 111 45-152 7.08 50 |
| Tetrahydrofuran 1040 ug/g | 1040 < LOQ 99.8 74-137 6.38 25 | Toluene 1310 ug/g 1290 < LOQ 101 71-131 8.55 25 |
| o-Xylene 3130 ug/g | 3140 < LOQ 99.6 72-134 8.43 25 | |

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