

Report: COA Evaluation Summary

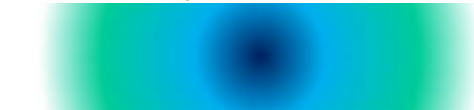


OLCC License No. 10087092BDA | ORELAP ID. 4147

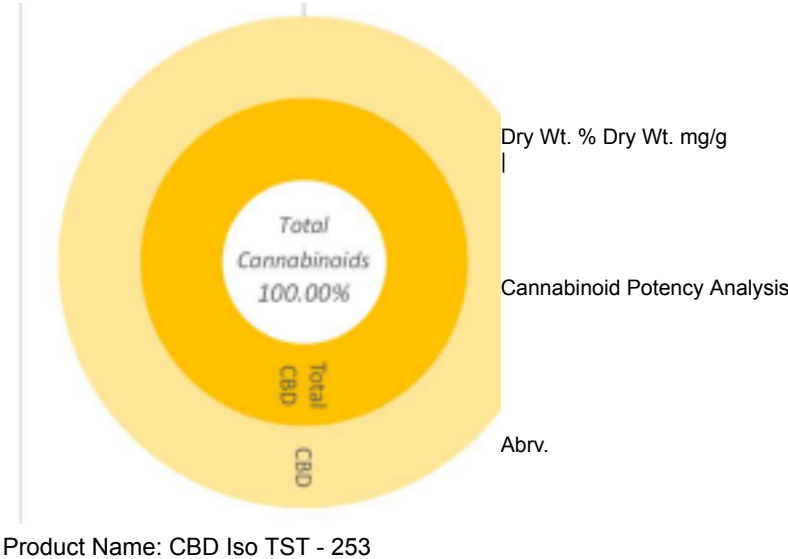
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Product Description Evaluation Summary

Client: GVB Oregon Moisture Analysis Test Not Required



CBD Iso TST - 253



Total THC * Total CBD * < LOQ < LOQ

Process Date: 5/11/2022 Δ-9-THC < LOQ
Matrix: Hemp Concentrate Δ-8-THC < LOQ
n/a
< LOQ
1000.0 mg/g (A)

Metric Source ID: THCV n/a 2022-05-12 CBGA Date Received: 2022-05-12
CBG Report Date: 2022-05-19 CBDVA
Metric Package ID: CBDA < LOQ Report ID: A6790-01 CBDV
1000.0 mg/g (A) 100.00 % (A) < LOQ
License Number: n/a CBD Date Collected: < LOQ

Tests Requested:

< LOQ Cannabinoid Potency Analysis
Pesticide Analysis CBN Total < LOQ < LOQ
Residual Solvent Analysis CBL Cannabinoids < LOQ
CBC < LOQ < LOQ 100.00%

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

Report ID: Revision 1 A6790-01 | 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 A6790-01. The results in this report only apply to sample A6790-01.

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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. The tested value of CBD was found to be 100.48 %. This is within the method uncertainty and, as a result, the reported concentration was adjusted to 100.00%.

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.

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Report: Evaluation Detail



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Evaluation Detail

Moisture Analysis | Test Not
Requested/Required

Analysis
Evaluation Detail

Cannabinoid Potency

CBD Iso TST - 253

Product Name:

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

Analysis Date: 2022-05-13 Tetrahydro-cannabinolic acid THCA < LOQ 0.15 %

Testing Batch ID: POR220513C
Total THC * < LOQ

< LOQ
Delta9 Tetrahydro-cannabinol Δ-9-THC < LOQ 0.15 % < LOQ
% < LOQ

Delta8 Tetrahydro-cannabinol Δ-8-THC < LOQ 0.15

< LOQ
Testing Method: LSOP #303 Cannabinoid Quantification Tetrahydrocannabivarin THCV < LOQ 0.15 % < LOQ

Total CBD *
100.00 % (A)
1000.0 mg/g (A)

Cannabidiol CBDV < LOQ 0.15 % < LOQ
Cannabinol CBN < LOQ 0.15 % < LOQ
Cannabicyclol CBL < LOQ 0.15 % < LOQ
Cannabichromene CBC < LOQ 0.15 % < 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 0.15 % < LOQ
Cannabidiol CBD 1000.0 0.15 % 100.00 % (A)
Cannabigerolic acid CBGA < LOQ 0.15 % < LOQ
Cannabigerol CBG < LOQ 0.15 % < LOQ
Cannabidivarinic acid CBDVA < LOQ 0.15 % < LOQ

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Report: Quality Check

PREELABORATORIES

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Analysis |

Moisture Analysis

Quality Control Detail Moisture

Test Not Requested/Required

Cannabinoid Potency Analysis Quality Control Detail

2022-05-13 Cannabinoid Potency Analysis		MB LCS Expected Value (%)		Pass Criteria
Analysis Date:		Tested Value (%)		
Testing Batch ID: POR220513C	Cannabidiolic acid	○	●	96.7%
	Cannabidiol	○	< 0.1% < 0.1% < 0.1% < 0.1%	< 0.1% < 0.1% < 0.1% < 0.1%
	Tetrahydro-cannabinolic acid Delta9	○	100.0% 100.0%	0.1% ± 20% ± 20% ± 20%
	Tetrahydro-cannabinol	○	100.0%	20%
	Cannabidiolic acid	●	< 0.1% < 0.1% < 0.1% < 0.1%	
		●	0.1% 95.1% 100.1%	

- Cannabidiol

CBC, CBN is not offered by ORELAP and therefore are not accredited tests.
100.0% 102.5% ± 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 : $\% \text{ Rec.} = [(\text{Amount measured}) / (\text{Known amount})] \times 100$

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: **A6790-01**

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: 22E0078-01

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 0.190 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 0.190 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:

A6790-01
PREE Laboratory R&D Subcontract

Analytical Results

Concentrates Lot # NA

Report cannot be used for OLCC
compliance. **Laboratory ID:**
22E0078-01

Matrix: Extracts and

Sample Metrc ID: NA
Batch RFID: NA



1,4-Dioxane < LOQ 380 64.5 2-Butanol < LOQ
5000 396 2-Ethoxyethanol < LOQ 160 27.1
2-Propanol (IPA) < LOQ 5000 396 Acetone < LOQ
5000 396 Acetonitrile < LOQ 410 69.6 Benzene <
LOQ 2 0.679

Butanes < LOQ 5000 283 Cyclohexane < LOQ
3880 659 Dichloromethane (methylene chloride) <
LOQ 600 102 Ethyl acetate < LOQ 5000 396 Ethyl
ether < LOQ 5000 396 Ethylbenzene < LOQ 2170
367 Ethylene glycol < LOQ 620 105 Ethylene oxide
< LOQ 50 33.9 Heptane 560 5000 396 Hexanes <
LOQ 290 49.2 Isopropyl acetate < LOQ 5000 396
Isopropylbenzene (cumene) < LOQ 70 11.9

Methanol < LOQ 3000 1130 Pentanes < LOQ 5000 396 Propane < LOQ 5000
113 Tetrahydrofuran < LOQ 720 122 Toluene < LOQ 890 151 Xylenes < LOQ
2170 367

<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
	Aldicarb < LOQ ppm	ppm Carbofuran < LOQ ppm	Cyfluthrin < LOQ ppm	Source
Abamectin < LOQ ppm	Azoxystrobin < LOQ ppm	Chlorantraniliprole < LOQ ppm	Cypermethrin < LOQ ppm	Result %REC
Acephate < LOQ ppm	Bifenazate < LOQ ppm	Chlorfenapyr < LOQ ppm	Daminozide < LOQ ppm DDVP	%REC
Acequinocyl < LOQ ppm	Bifenthrin < LOQ ppm	BoscalidChlorpyrifos < LOQ ppm	(Dichlorvos) < LOQ ppm	Limits RPD
				RPD Limit

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 Paclobutrazol <	Pyridaben < LOQ ppm
Analyte Result Units	Fipronil < LOQ ppm	Metalaxyl < LOQ ppm	LOQ ppm Permethrins (total) <	Spinosad < LOQ ppm
Diazinon < LOQ ppm	Flonicamid < 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



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	Spiroamine < 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		%REC	
	Source	Result	Limits RPD	RPD Limit
Abamectin	2.68 ppm	1.98	135 50-150	Acephate 1.80 ppm 2.00 89.8 60-120 Acequinocyl 1.37 ppm 2.00 68.4 40-160 Acetamiprid 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 Bifenazate 1.87 ppm 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 Carbaryl 1.89 ppm 2.00 94.6 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 Etofenprox 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 Fenpyroximate 1.91 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		%REC	
	Source	Result	Limits RPD	RPD Limit
Flonicamid	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 Imazalil 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 Malathion 1.89 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 Methomyl 1.83 ppm 2.00 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 Myclobutanil 1.86 ppm 2.00 92.9 60-120 Naled 1.92 ppm 2.00 96.0 50-150 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 Propoxur 1.95 ppm 2.00 97.5 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		%REC	
	Source	Result	Limits RPD	RPD Limit

Shea Hamilton For Brian Weigel Lab

Director

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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
Clofentazine 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
Flonicamid 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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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
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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 Thiacloprid 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 0.93 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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Analytical Results

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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		%REC	
	Source	Result	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
2-Butanol < LOQ ug/g	< LOQ ug/g Cyclohexane <	Ethylene glycol < LOQ ug/g	Methanol < LOQ ug/g	Spike Level
2-Ethoxyethanol < LOQ ug/g	LOQ ug/g Dichloromethane	Ethylene oxide < LOQ ug/g	Pentanes < LOQ ug/g	Source
2-Propanol (IPA) < LOQ ug/g	(methylene chloride) < LOQ	Heptane < LOQ ug/g	Hexanes < LOQ ug/g	Result %REC
			Tetrahydrofuran <	%REC
				Limits RPD
				RPD Limit

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

	Spike Level	%REC	
Analyte Result Units	Source	Limits RPD	
	Result %REC	RPD Limit	
1,4-Dioxane 581 ug/g	570 102 60-120	2,2-Dimethylbutane 416 ug/g	435 95.6 60-120
2,2-Dimethylpropane (neopentane) 3300 ug/g	3120 106 60-120	2-Butanol 3470 ug/g	3500 99.1 60-120
2-Ethoxyethanol 291 ug/g	240 121 60-120	2-Methylbutane (isopentane) 2640 ug/g	3500 103 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	707	< LOQ	101 71-133

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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 25		

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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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