

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 OLCC/OHA Compliance Purposes.

Product Description

Client: **Anthem Hemp**

Product Name: **Distillate B# 3130 Prim**

Process Date: 2022-01-03

Retest Date: 2024-01-03

Matrix: Hemp Concentrate

Metrc Source ID: n/a

Metrc Package ID: n/a

License Number: n/a

Date Collected: 2022-01-04

Date Received: 2022-01-04

Report Date: 2022-01-07

Report ID: A5566-01

Tests Requested: Cannabinoid Potency Analysis

Evaluation Summary

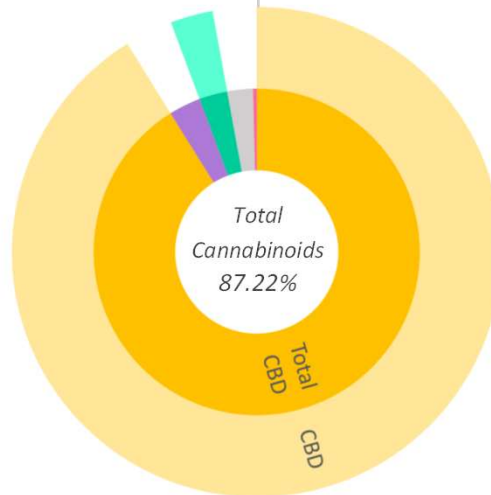
Moisture Analysis

Test Not Required

Cannabinoid Potency Analysis

Total THC *
2.43 %
24.3 mg/g

Total CBD *
79.48 %
794.8 mg/g



Abv.	Dry Wt. %	Dry Wt. mg/g
THCA	< LOQ	< LOQ
Δ-9-THC	2.43 %	24.3 mg/g
Δ-8-THC	< LOQ	< LOQ
THCV	< LOQ	< LOQ
CBDA	< LOQ	< LOQ
CBD	79.48 %	794.8 mg/g
CBGA	< LOQ	< LOQ
CBG	2.77 %	27.7 mg/g
CBDVA	< LOQ	< LOQ
CBDV	< LOQ	< LOQ
CBN	0.31 %	3.1 mg/g
CBL	< LOQ	< LOQ
CBC	2.22 %	22.2 mg/g

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

Report: Case Narrative

This certificate of analysis is prepared for...

Anthem Hemp

18253 Gothard St. Huntington Beach, CA 92648

This report presents the analytical findings for the sample collected on 2022-01-04 by Skyler Smith using sampling plan A5566 and received by PREE Laboratory on 2022-01-04. The sample was assigned a laboratory ID of A5566-01. The results in this report only apply to sample A5566-01.

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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. Solvents and Pesticides Analysis Subcontracted



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: Evaluation Detail



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Moisture Analysis	Evaluation Detail					
	Moisture Analysis	Test Not Requested/Required				
Cannabinoid Potency Analysis	Evaluation Detail					
Product Name: Distillate B# 3130 Prim	Cannabinoid Potency Analysis	Compound	Abrv.	Dry Wt. (%)	Dry Wt. (mg/g)	RL (%)
Analysis Date: 2022-01-04	Total THC *	Tetrahydro-cannabinolic acid	THCA	< LOQ	< LOQ	0.2 %
Testing Batch ID: POM220105B	2.43 %	Delta9 Tetrahydro-cannabinol	Δ-9-THC	2.43 %	24.3	0.2 %
Testing Method: LSOP #303 Cannabinoid Quantification	24.3 mg/g	Delta8 Tetrahydro-cannabinol	Δ-8-THC	< LOQ	< LOQ	0.2 %
		Tetrahydrocannabivarin	THCV	< LOQ	< LOQ	0.2 %
	Total CBD *	Cannabidiolic acid	CBDA	< LOQ	< LOQ	0.2 %
	79.48 %	Cannabidiol	CBD	79.48 %	794.8	0.2 %
	794.8 mg/g	Cannabigerolic acid	CBGA	< LOQ	< LOQ	0.2 %
		Cannabigerol	CBG	2.77 %	27.7	0.2 %
		Cannabidivarinic acid	CBDVA	< LOQ	< LOQ	0.2 %
		Cannabidivarin	CBDV	< LOQ	< LOQ	0.2 %
		Cannabinol	CBN	0.31 %	3.1	0.2 %
		Cannabicyclol	CBL	< LOQ	< LOQ	0.2 %
		Cannabichromene	CBC	2.22 %	22.2	0.2 %

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.

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

Report: Quality Check

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Moisture Analysis	Quality Control Detail						
	Moisture Analysis						
	Test Not Requested/Required						
Cannabinoid Potency Analysis	Quality Control Detail						
Analysis Date: 2022-01-04	Cannabinoid Potency Analysis		MB	LCS	Expected Value (%)	Tested Value (%)	Pass Criteria
Testing Batch ID: POM220105B	Tetrahydro-cannabinolic acid		○		< 0.1%	< 0.1%	< 0.1%
	Delta9 Tetrahydro-cannabinol		○		< 0.1%	< 0.1%	< 0.1%
	Cannabidiolic acid		○		< 0.1%	< 0.1%	< 0.1%
	Cannabidiol		○		< 0.1%	< 0.1%	< 0.1%
	Tetrahydro-cannabinolic acid			●	100.0%	104.7%	± 20%
	Delta9 Tetrahydro-cannabinol			●	100.0%	95.2%	± 20%
	Cannabidiolic acid			●	100.0%	99.8%	± 20%
	Cannabidiol			●	100.0%	101.9%	± 20%

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.

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.

EVIO Labs Portland
14775 SW 74th Ave, Tigard, OR 97224
503-954-2562 / OLCC 010-10046111391 / www.EVIOLabs.com

A5566-01

PREE Labs

010-10087092BDA

Sample ID: P220007-01

METRC Batch #:

Matrix: Extract/Concentrate

Date Sampled: 01/04/22 09:00

Date Accepted: 01/04/22

Batch ID:

Batch Size:

Sampling Method/SOP: SOP.T.20.010

Pesticides

Date/Time Extracted: 01/06/22 11:28

Date/Time Analyzed: 1/7/2022 10:36:00AM

Analysis Method/SOP: SOP.T.40.051 PDX

Analyte	LOQ	Action Level	Result	Units	Type
Abamectin	0.200	0.5	< LOQ	ppm	
Acephate	0.200	0.4	< LOQ	ppm	Organophosphate insecticide
Acequinocyl	1.00	2	< LOQ	ppm	
Acetamiprid	0.100	0.2	< LOQ	ppm	Neonicotinoid insecticide
Aldicarb	0.200	0.4	< LOQ	ppm	Carbamate insecticide
Azoxystrobin	0.100	0.2	< LOQ	ppm	
Bifenazate	0.100	0.2	< LOQ	ppm	Unclassified insecticide
Bifenthrin	0.100	0.2	< LOQ	ppm	
Boscalid	0.200	0.4	< LOQ	ppm	Anilide fungicide
Carbaryl	0.100	0.2	< LOQ	ppm	Carbamate insecticide
Carbofuran	0.100	0.2	< LOQ	ppm	Carbamate insecticide
Chlorantraniliprole	0.100	0.2	< LOQ	ppm	Anthranilic diamide insecticide
Chlorfenapyr	0.400	1	< LOQ	ppm	Pyrazole insecticide
Chlorpyrifos	0.100	0.2	< LOQ	ppm	Organophosphate insecticide
Clofentezine	0.100	0.2	< LOQ	ppm	
Cyfluthrin	0.400	1	< LOQ	ppm	
Cypermethrin	0.400	1	< LOQ	ppm	
Daminozide	0.400	1	< LOQ	ppm	
DDVP (Dichlorvos)	0.400	1	< LOQ	ppm	
Diazinon	0.100	0.2	< LOQ	ppm	Organophosphate insecticide
Dimethoate	0.100	0.2	< LOQ	ppm	
Ethoprophos	0.100	0.2	< LOQ	ppm	
Etofenprox	0.200	0.4	< LOQ	ppm	
Etoxazole	0.100	0.2	< LOQ	ppm	Unclassified miticide
Fenoxycarb	0.100	0.2	< LOQ	ppm	
Fenpyroximate	0.200	0.4	< LOQ	ppm	
Fipronil	0.200	0.4	< LOQ	ppm	Pyrazole insecticide
Fonicamid	0.400	1	< LOQ	ppm	Pyridinecarboxamide insecticide
Fludioxonil	0.200	0.4	< LOQ	ppm	non-systemic fungicide
Hexythiazox	0.400	1	< LOQ	ppm	
Imazalil	0.100	0.2	< LOQ	ppm	Azole fungicide
Imidacloprid	0.200	0.4	< LOQ	ppm	Neonicotinoid insecticide
Kresoxim-methyl	0.200	0.4	< LOQ	ppm	
Malathion	0.100	0.2	< LOQ	ppm	
Metalaxyl	0.100	0.2	< LOQ	ppm	
Methiocarb	0.100	0.2	< LOQ	ppm	Carbamate insecticide



Kawai Medeiros
Laboratory Manager - 1/7/2022

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A5566-01

PREE Labs

010-10087092BDA

Sample ID: P220007-01

METRC Batch #:

Matrix: Extract/Concentrate

Date Sampled: 01/04/22 09:00

Date Accepted: 01/04/22

Batch ID:

Batch Size:

Sampling Method/SOP: SOP.T.20.010

Pesticides

Date/Time Extracted: 01/06/22 11:28

Date/Time Analyzed: 1/7/2022 10:36:00AM

Analysis Method/SOP: SOP.T.40.051 PDX

Analyte	LOQ	Action Level	Result	Units	Type
Methomyl	0.200	0.4	< LOQ	ppm	Carbamate insecticide
Methyl parathion	0.100	0.2	< LOQ	ppm	
MGK-264	0.100	0.2	< LOQ	ppm	
Myclobutanil	0.100	0.2	< LOQ	ppm	Azole fungicide
Naled	0.200	0.5	< LOQ	ppm	
Oxamyl	0.400	1	< LOQ	ppm	Carbamate insecticide
Paclobutrazol	0.200	0.4	< LOQ	ppm	Azole plant growth regulator
Permethrins	0.100	0.2	< LOQ	ppm	
Phosmet	0.100	0.2	< LOQ	ppm	Organophosphate insecticide
Piperonyl butoxide	1.00	2	< LOQ	ppm	
Prallethrin	0.100	0.2	< LOQ	ppm	
Propiconazole	0.200	0.4	< LOQ	ppm	
Propoxur	0.100	0.2	< LOQ	ppm	Carbamate insecticide
Pyrethrins	0.400	1	< LOQ	ppm	
Pyridaben	0.100	0.2	< LOQ	ppm	Unclassified insecticide
Spinosad	0.100	0.2	< LOQ	ppm	Spinosyn insecticide
Spiromesifen	0.100	0.2	< LOQ	ppm	Keto-enol insecticide
Spirotetramat	0.100	0.2	< LOQ	ppm	Keto-enol insecticide
Spiroxamine	0.200	0.4	< LOQ	ppm	Unclassified fungicide
Tebuconazole	0.200	0.4	< LOQ	ppm	
Thiacloprid	0.100	0.2	< LOQ	ppm	
Thiamethoxam	0.100	0.2	< LOQ	ppm	Neonicotinoid insectide
Trifloxystrobin	0.100	0.2	< LOQ	ppm	Strobin fungicide

Results above the action level fail Oregon state testing requirements and will be highlighted RED.

LOQ= Limit of Quantitation; PPM= Parts per million; ND= Not detected; NT= Not tested; AC= Above calibration range. PASS/FAIL status based on OAR 333-007.



Kawai Medeiros

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A5566-01

FREE Labs

010-10087092BDA

Sample ID: P220007-01 METRC Batch #:

Matrix: Extract/Concentrate

Date Sampled: 01/04/22 09:00

Date Accepted: 01/04/22

Batch ID:

Batch Size:

Sampling Method/SOP: SOP.T.20.010

Residual Solvents

Analyte	LOQ	Action Level	Result	Units
Butanes	250	5000 ³	< LOQ	ppm
n-Butane	250	5000	< LOQ	ppm
iso-Butane	250	5000	< LOQ	ppm
Hexanes	174	290 ⁴	< LOQ	ppm
n-Hexane	174	290	< LOQ	ppm
2-Methylpentane	174	290	< LOQ	ppm
3-Methylpentane	174	290	< LOQ	ppm
2,2-Dimethylbutane	174	290	< LOQ	ppm
2,3-Dimethylbutane	174	290	< LOQ	ppm
Pentanes	1400	5000 ⁵	< LOQ	ppm
n-Pentane	1400	5000	< LOQ	ppm
iso-Pentane	1400	5000	< LOQ	ppm
Neopentane	250	5000	< LOQ	ppm
Xylenes	1302	2170	< LOQ	ppm
1,2-Dimethylbenzene	1302	2170	< LOQ	ppm
1,3-Dimethylbenzene	1302	2170	< LOQ	ppm
1,4-Dimethylbenzene	1302	2170	< LOQ	ppm
Ethyl benzene	1302	NA	< LOQ	ppm
2-Propanol (IPA)	1400	5000	< LOQ	ppm
Acetone	1400	5000	< LOQ	ppm
Acetonitrile	246	410	< LOQ	ppm
Benzene	1.2	2	< LOQ	ppm
Methanol	1000	3000	< LOQ	ppm
Propane	250	5000	< LOQ	ppm
Toluene	534	890	< LOQ	ppm
Dichloromethane	360	600	< LOQ	ppm
1,4-Dioxane	228	380	< LOQ	ppm
2-Butanol	1400	5000	< LOQ	ppm
2-Ethoxyethanol	96	160	< LOQ	ppm
Cumene	42	70	< LOQ	ppm
Cyclohexane	2278	3880	< LOQ	ppm
Ethyl acetate	1400	5000	< LOQ	ppm
Ethyl ether	1400	5000	< LOQ	ppm
Ethylene glycol	558	620	< LOQ	ppm
Ethylene oxide	30	50	< LOQ	ppm
Heptane	1400	5000	< LOQ	ppm
Isopropyl acetate	1400	5000	< LOQ	ppm
Tetrahydrofuran	432	720	< LOQ	ppm
Ethanol	1400	NA ⁷	< LOQ	ppm

Date/Time Extracted: 01/05/22 09:34

Date/Time Analyzed: 01/06/22 10:21

Analysis Method/SOP: SOP.T.40.031

3 - Total butanes are calculated as sum of n-butanes (CAS# 106-97-8) and iso-butane (CAS# 75-28-5)

4 - Total hexanes are calculated as sum of n-hexane (CAS# 110-54-3), 2-methylpentane (CAS# 107-83-5), 3-methylpentane (CAS# 96-14-0), 2,2-dimethylbutane (CAS# 75-83-2), 2,3-dimethylbutane (CAS# 79-29-8)

5 - Total pentanes are calculated as sum of n-pentane (CAS# 109-66-0), iso-pentane (CAS# 78-78-4), and neo-pentane (CAS# 463-82-1)

6 - Total xylenes are calculated as 1,2-dimethylbenzene (CAS# 95-47-6), 1,3-dimethylbenzene (CAS# 106-42-3), and 1-4-dimethylbenzene (CAS# 106-42-3)

7 - Ethanol is not regulated under OAR-333-007-0410.

TIC - Tentatively Identified Compound not regulated under OAR-333-007-0410

Results above the action level fail Oregon state testing requirements and will be highlighted RED. LOQ=Limit of Quantitation; PPM=Parts per million; ND=Not detected; NT=Not tested; AC=Above calibration range. PASS/FAIL status based on OAR 333-007.



Kawai Medeiros
Laboratory Manager - 1/7/2022

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Quality Control

Batch: P22A009 - SOP.T.40.031 Solvents

Blank(P22A009-BLK1)			Extracted: 01/05/22 09:34		Analyzed: 01/06/22 10:21		
Analyte	Result	LOQ	Recovery Limits	Analyte	Result	LOQ	Recovery Limits
Butanes	< LOQ	250 (ppm)	< LOQ	n-Butane	< LOQ	250 (ppm)	< LOQ
iso-Butane	< LOQ	250 (ppm)	< LOQ	Hexanes	< LOQ	174 (ppm)	< LOQ
n-Hexane	< LOQ	174 (ppm)	< LOQ	2-Methylpentane	< LOQ	174 (ppm)	< LOQ
3-Methylpentane	< LOQ	174 (ppm)	< LOQ	2,2-Dimethylbutane	< LOQ	174 (ppm)	< LOQ
2,3-Dimethylbutane	< LOQ	174 (ppm)	< LOQ	Pentanes	< LOQ	1400 (ppm)	< LOQ
n-Pentane	< LOQ	1400 (ppm)	< LOQ	iso-Pentane	< LOQ	1400 (ppm)	< LOQ
Neopentane	< LOQ	250 (ppm)	< LOQ	Xylenes	< LOQ	1302 (ppm)	< LOQ
1,2-Dimethylbenzene	< LOQ	1302 (ppm)	< LOQ	1,3-Dimethylbenzene	< LOQ	1302 (ppm)	< LOQ
1,4-Dimethylbenzene	< LOQ	1302 (ppm)	< LOQ	Ethyl benzene	< LOQ	1302 (ppm)	< LOQ
2-Propanol (IPA)	< LOQ	1400 (ppm)	< LOQ	Acetone	< LOQ	1400 (ppm)	< LOQ
Acetonitrile	< LOQ	246 (ppm)	< LOQ	Benzene	< LOQ	1.2 (ppm)	< LOQ
Methanol	< LOQ	1000 (ppm)	< LOQ	Propane	< LOQ	250 (ppm)	< LOQ
Toluene	< LOQ	534 (ppm)	< LOQ	Dichloromethane	< LOQ	360 (ppm)	< LOQ
1,4-Dioxane	< LOQ	228 (ppm)	< LOQ	2-Butanol	< LOQ	1400 (ppm)	< LOQ
2-Ethoxyethanol	< LOQ	96 (ppm)	< LOQ	Cumene	< LOQ	42 (ppm)	< LOQ
Cyclohexane	< LOQ	2278 (ppm)	< LOQ	Ethyl acetate	< LOQ	1400 (ppm)	< LOQ
Ethyl ether	< LOQ	1400 (ppm)	< LOQ	Ethylene glycol	< LOQ	558 (ppm)	< LOQ
Ethylene oxide	30.08783	30 (ppm)	< LOQ	Heptane	< LOQ	1400 (ppm)	< LOQ
Isopropyl acetate	< LOQ	1400 (ppm)	< LOQ	Tetrahydrofuran	< LOQ	432 (ppm)	< LOQ
Ethanol	< LOQ	1400 (ppm)	< LOQ				

LCS(P22A009-BS1)			Extracted: 01/05/22 09:34		Analyzed: 01/06/22 10:21		
Analyte	% Recovery	LOQ	Recovery Limits	Analyte	% Recovery	LOQ	Recovery Limits
Butanes	47.6	(ppm)	0-200	n-Butane	54.3	(ppm)	50-150
iso-Butane	41.0	(ppm)	50-150	Hexanes	106	(ppm)	0-200
n-Hexane	111	(ppm)	70-130	2-Methylpentane	107	(ppm)	70-130
3-Methylpentane	108	(ppm)	70-130	2,2-Dimethylbutane	106	(ppm)	70-130
2,3-Dimethylbutane	102	(ppm)	70-130	Pentanes	114	(ppm)	0-200
n-Pentane	101	(ppm)	70-130	iso-Pentane	86.6	(ppm)	70-130
Neopentane	87.1	(ppm)	50-150	Xylenes	110	(ppm)	0-200
1,2-Dimethylbenzene	110	(ppm)	70-130	1,3-Dimethylbenzene	111	(ppm)	70-130
1,4-Dimethylbenzene	111	(ppm)	70-130	Ethyl benzene	112	(ppm)	70-130
2-Propanol (IPA)	107	(ppm)	70-130	Acetone	99.3	(ppm)	70-130
Acetonitrile	122	(ppm)	70-130	Benzene	123	(ppm)	70-130
Methanol	112	(ppm)	70-130	Propane	57.9	(ppm)	50-150
Toluene	119	(ppm)	70-130	Dichloromethane	116	(ppm)	70-130
1,4-Dioxane	125	(ppm)	70-130	2-Butanol	107	(ppm)	70-130



Kawai Medeiros
Laboratory Manager - 1/7/2022

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Quality Control

Batch: P22A009 - SOP.T.40.031 Solvents (Continued)

LCS(P22A009-BS1)			Extracted: 01/05/22 09:34		Analyzed: 01/06/22 10:21		
Analyte	% Recovery	LOQ	Recovery Limits	Analyte	% Recovery	LOQ	Recovery Limits
2-Ethoxyethanol	105	(ppm)	70-130	Cumene	121	(ppm)	50-150
Cyclohexane	109	(ppm)	70-130	Ethyl acetate	107	(ppm)	70-130
Ethyl ether	104	(ppm)	70-130	Ethylene glycol	70.7	(ppm)	50-150
Ethylene oxide	85.4	(ppm)	50-150	Heptane	112	(ppm)	70-130
Isopropyl acetate	116	(ppm)	70-130	Tetrahydrofuran	109	(ppm)	70-130

Batch: P22A018 - SOP.T.30.060 Pesticide Prep

Blank(P22A018-BLK1)			Extracted: 01/06/22 11:28		Analyzed: 01/07/22 10:36		
Analyte	Result	LOQ	Recovery Limits	Analyte	Result	LOQ	Recovery Limits
Methyl parathion	< LOQ	0.100 (ppm)	< LOQ	MGK-264	< LOQ	0.100 (ppm)	< LOQ
Chlorfenapyr	< LOQ	0.400 (ppm)	< LOQ	Cyfluthrin	< LOQ	0.400 (ppm)	< LOQ
Cypermethrin	< LOQ	0.400 (ppm)	< LOQ	Abamectin	< LOQ	0.200 (ppm)	< LOQ
Acephate	< LOQ	0.200 (ppm)	< LOQ	Acequinocyl	< LOQ	1.00 (ppm)	< LOQ
Acetamiprid	< LOQ	0.100 (ppm)	< LOQ	Aldicarb	< LOQ	0.200 (ppm)	< LOQ
Azoxystrobin	< LOQ	0.100 (ppm)	< LOQ	Bifenazate	< LOQ	0.100 (ppm)	< LOQ
Bifenthrin	< LOQ	0.100 (ppm)	< LOQ	Boscalid	< LOQ	0.200 (ppm)	< LOQ
Carbaryl	< LOQ	0.100 (ppm)	< LOQ	Carbofuran	< LOQ	0.100 (ppm)	< LOQ
Chlorantraniliprole	< LOQ	0.100 (ppm)	< LOQ	Chlorpyrifos	< LOQ	0.100 (ppm)	< LOQ
Clofentezine	< LOQ	0.100 (ppm)	< LOQ	Daminozide	< LOQ	0.400 (ppm)	< LOQ
DDVP (Dichlorvos)	< LOQ	0.400 (ppm)	< LOQ	Diazinon	< LOQ	0.100 (ppm)	< LOQ
Dimethoate	< LOQ	0.100 (ppm)	< LOQ	Ethoprophos	< LOQ	0.100 (ppm)	< LOQ
Etofenprox	< LOQ	0.200 (ppm)	< LOQ	Etoxazole	< LOQ	0.100 (ppm)	< LOQ
Fenoxycarb	< LOQ	0.100 (ppm)	< LOQ	Fenpyroximate	< LOQ	0.200 (ppm)	< LOQ
Fipronil	< LOQ	0.200 (ppm)	< LOQ	Flonicamid	< LOQ	0.400 (ppm)	< LOQ
Fludioxonil	< LOQ	0.200 (ppm)	< LOQ	Hexythiazox	< LOQ	0.400 (ppm)	< LOQ
Imazalil	< LOQ	0.100 (ppm)	< LOQ	Imidacloprid	< LOQ	0.200 (ppm)	< LOQ
Kresoxim-methyl	< LOQ	0.200 (ppm)	< LOQ	Malathion	< LOQ	0.100 (ppm)	< LOQ
Metalaxyl	< LOQ	0.100 (ppm)	< LOQ	Methiocarb	< LOQ	0.100 (ppm)	< LOQ
Methomyl	< LOQ	0.200 (ppm)	< LOQ	Myclobutanil	< LOQ	0.100 (ppm)	< LOQ
Naled	< LOQ	0.200 (ppm)	< LOQ	Oxamyl	< LOQ	0.400 (ppm)	< LOQ
Paclobutrazol	< LOQ	0.200 (ppm)	< LOQ	Permethrins	< LOQ	0.100 (ppm)	< LOQ
Phosmet	< LOQ	0.100 (ppm)	< LOQ	Piperonyl butoxide	< LOQ	1.00 (ppm)	< LOQ
Prallethrin	< LOQ	0.100 (ppm)	< LOQ	Propiconazole	< LOQ	0.200 (ppm)	< LOQ
Propoxur	< LOQ	0.100 (ppm)	< LOQ	Pyridaben	< LOQ	0.100 (ppm)	< LOQ
Pyrethrins	< LOQ	0.400 (ppm)	< LOQ	Spinosad	< LOQ	0.100 (ppm)	< LOQ
Spiromesifen	< LOQ	0.100 (ppm)	< LOQ	Spirotetramat	< LOQ	0.100 (ppm)	< LOQ
Spiroxamine	< LOQ	0.200 (ppm)	< LOQ	Tebuconazole	< LOQ	0.200 (ppm)	< LOQ



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Laboratory Manager - 1/7/2022

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Quality Control

Batch: P22A018 - SOP.T.30.060 Pesticide Prep (Continued)

Blank(P22A018-BLK1)			Extracted: 01/06/22 11:28		Analyzed: 01/07/22 10:36		
Analyte	Result	LOQ	Recovery Limits	Analyte	Result	LOQ	Recovery Limits
Thiacloprid	< LOQ	0.100 (ppm)	< LOQ	Thiamethoxam	< LOQ	0.100 (ppm)	< LOQ
Trifloxystrobin	< LOQ	0.100 (ppm)	< LOQ				

LCS(P22A018-BS1)			Extracted: 01/06/22 11:28		Analyzed: 01/07/22 10:36		
Analyte	% Recovery	LOQ	Recovery Limits	Analyte	% Recovery	LOQ	Recovery Limits
Methyl parathion	86.0	0.100 (ppm)	50-150	MGK-264	111	0.100 (ppm)	50-150
Chlorfenapyr	101	0.400 (ppm)	50-150	Cyfluthrin	99.9	0.400 (ppm)	50-150
Cypermethrin	106	0.400 (ppm)	50-150	Abamectin	91.5	0.200 (ppm)	50-150
Acephate	98.6	0.200 (ppm)	50-150	Acequinocyl	135	1.00 (ppm)	50-150
Acetamiprid	91.7	0.100 (ppm)	50-150	Aldicarb	109	0.200 (ppm)	50-150
Azoxystrobin	98.0	0.100 (ppm)	50-150	Bifenazate	105	0.100 (ppm)	50-150
Bifenthrin	108	0.100 (ppm)	50-150	Boscalid	81.5	0.200 (ppm)	50-150
Carbaryl	96.0	0.100 (ppm)	50-150	Carbofuran	101	0.100 (ppm)	50-150
Chlorantraniliprole	84.9	0.100 (ppm)	50-150	Chlorpyrifos	92.2	0.100 (ppm)	50-150
Clofentezine	103	0.100 (ppm)	50-150	Daminozide	56.0	0.400 (ppm)	50-150
DDVP (Dichlorvos)	86.8	0.400 (ppm)	50-150	Diazinon	92.9	0.100 (ppm)	50-150
Dimethoate	107	0.100 (ppm)	50-150	Ethoprophos	98.7	0.100 (ppm)	50-150
Etofenprox	114	0.200 (ppm)	50-150	Etoxazole	90.7	0.100 (ppm)	50-150
Fenoxycarb	104	0.100 (ppm)	50-150	Fenpyroximate	94.5	0.200 (ppm)	50-150
Fipronil	81.6	0.200 (ppm)	50-150	Flonicamid	79.9	0.400 (ppm)	50-150
Fludioxonil	67.4	0.200 (ppm)	50-150	Hexythiazox	103	0.400 (ppm)	50-150
Imazalil	76.6	0.100 (ppm)	50-150	Imidacloprid	91.8	0.200 (ppm)	50-150
Kresoxim-methyl	99.9	0.200 (ppm)	50-150	Malathion	115	0.100 (ppm)	50-150
Metalaxyl	112	0.100 (ppm)	50-150	Methiocarb	105	0.100 (ppm)	50-150
Methomyl	106	0.200 (ppm)	50-150	Myclobutanil	100	0.100 (ppm)	50-150
Naled	101	0.200 (ppm)	50-150	Oxamyl	105	0.400 (ppm)	50-150
Paclobutrazol	96.9	0.200 (ppm)	50-150	Permethrins	95.3	0.100 (ppm)	50-150
Phosmet	93.3	0.100 (ppm)	50-150	Piperonyl butoxide	111	1.00 (ppm)	50-150
Prallethrin	107	0.100 (ppm)	50-150	Propiconazole	94.6	0.200 (ppm)	50-150
Propoxur	94.3	0.100 (ppm)	50-150	Pyridaben	109	0.100 (ppm)	50-150
Pyrethrins	112	0.400 (ppm)	50-150	Spinosad	88.6	0.100 (ppm)	50-150
Spiromesifen	92.2	0.100 (ppm)	50-150	Spirotetramat	80.1	0.100 (ppm)	50-150
Spiroxamine	96.4	0.200 (ppm)	50-150	Tebuconazole	89.1	0.200 (ppm)	50-150
Thiacloprid	94.8	0.100 (ppm)	50-150	Thiamethoxam	101	0.100 (ppm)	50-150
Trifloxystrobin	106	0.100 (ppm)	50-150				



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A5566-01

FREE Labs

010-10087092BDA

Sample ID: P220007-01 METRC Batch #:

Matrix: Extract/Concentrate

Date Sampled: 01/04/22 09:00

Date Accepted: 01/04/22

Batch ID:

Batch Size:

Sampling Method/SOP: SOP.T.20.010

Residual Solvents

Analyte	LOQ	Action Level	Result	Units
Butanes	250	5000 ³	< LOQ	ppm
n-Butane	250	5000	< LOQ	ppm
iso-Butane	250	5000	< LOQ	ppm
Hexanes	174	290 ⁴	< LOQ	ppm
n-Hexane	174	290	< LOQ	ppm
2-Methylpentane	174	290	< LOQ	ppm
3-Methylpentane	174	290	< LOQ	ppm
2,2-Dimethylbutane	174	290	< LOQ	ppm
2,3-Dimethylbutane	174	290	< LOQ	ppm
Pentanes	1400	5000 ⁵	< LOQ	ppm
n-Pentane	1400	5000	< LOQ	ppm
iso-Pentane	1400	5000	< LOQ	ppm
Neopentane	250	5000	< LOQ	ppm
Xylenes	1302	2170	< LOQ	ppm
1,2-Dimethylbenzene	1302	2170	< LOQ	ppm
1,3-Dimethylbenzene	1302	2170	< LOQ	ppm
1,4-Dimethylbenzene	1302	2170	< LOQ	ppm
Ethyl benzene	1302	NA	< LOQ	ppm
2-Propanol (IPA)	1400	5000	< LOQ	ppm
Acetone	1400	5000	< LOQ	ppm
Acetonitrile	246	410	< LOQ	ppm
Benzene	1.2	2	< LOQ	ppm
Methanol	1000	3000	< LOQ	ppm
Propane	250	5000	< LOQ	ppm
Toluene	534	890	< LOQ	ppm
Dichloromethane	360	600	< LOQ	ppm
1,4-Dioxane	228	380	< LOQ	ppm
2-Butanol	1400	5000	< LOQ	ppm
2-Ethoxyethanol	96	160	< LOQ	ppm
Cumene	42	70	< LOQ	ppm
Cyclohexane	2278	3880	< LOQ	ppm
Ethyl acetate	1400	5000	< LOQ	ppm
Ethyl ether	1400	5000	< LOQ	ppm
Ethylene glycol	558	620	< LOQ	ppm
Ethylene oxide	30	50	< LOQ	ppm
Heptane	1400	5000	< LOQ	ppm
Isopropyl acetate	1400	5000	< LOQ	ppm
Tetrahydrofuran	432	720	< LOQ	ppm
Ethanol	1400	NA ⁷	< LOQ	ppm

Date/Time Extracted: 01/05/22 09:34

Date/Time Analyzed: 01/06/22 10:21

Analysis Method/SOP: SOP.T.40.031

3 - Total butanes are calculated as sum of n-butanes (CAS# 106-97-8) and iso-butane (CAS# 75-28-5)

4 - Total hexanes are calculated as sum of n-hexane (CAS# 110-54-3), 2-methylpentane (CAS# 107-83-5), 3-methylpentane (CAS# 96-14-0), 2,2-dimethylbutane (CAS# 75-83-2), 2,3-dimethylbutane (CAS# 79-29-8)

5 - Total pentanes are calculated as sum of n-pentane (CAS# 109-66-0), iso-pentane (CAS# 78-78-4), and neo-pentane (CAS# 463-82-1)

6 - Total xylenes are calculated as 1,2-dimethylbenzene (CAS# 95-47-6), 1,3-dimethylbenzene (CAS# 106-42-3), and 1-4-dimethylbenzene (CAS# 106-42-3)

7 - Ethanol is not regulated under OAR-333-007-0410.

TIC - Tentatively Identified Compound not regulated under OAR-333-007-0410

Results above the action level fail Oregon state testing requirements and will be highlighted RED. LOQ=Limit of Quantitation; PPM=Parts per million; ND=Not detected; NT=Not tested; AC=Above calibration range. PASS/FAIL status based on OAR 333-007.



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Quality Control

Batch: P22A009 - SOP.T.40.031 Solvents

Blank(P22A009-BLK1)			Extracted: 01/05/22 09:34		Analyzed: 01/06/22 10:21		
Analyte	Result	LOQ	Recovery Limits	Analyte	Result	LOQ	Recovery Limits
Butanes	< LOQ	250 (ppm)	< LOQ	n-Butane	< LOQ	250 (ppm)	< LOQ
iso-Butane	< LOQ	250 (ppm)	< LOQ	Hexanes	< LOQ	174 (ppm)	< LOQ
n-Hexane	< LOQ	174 (ppm)	< LOQ	2-Methylpentane	< LOQ	174 (ppm)	< LOQ
3-Methylpentane	< LOQ	174 (ppm)	< LOQ	2,2-Dimethylbutane	< LOQ	174 (ppm)	< LOQ
2,3-Dimethylbutane	< LOQ	174 (ppm)	< LOQ	Pentanes	< LOQ	1400 (ppm)	< LOQ
n-Pentane	< LOQ	1400 (ppm)	< LOQ	iso-Pentane	< LOQ	1400 (ppm)	< LOQ
Neopentane	< LOQ	250 (ppm)	< LOQ	Xylenes	< LOQ	1302 (ppm)	< LOQ
1,2-Dimethylbenzene	< LOQ	1302 (ppm)	< LOQ	1,3-Dimethylbenzene	< LOQ	1302 (ppm)	< LOQ
1,4-Dimethylbenzene	< LOQ	1302 (ppm)	< LOQ	Ethyl benzene	< LOQ	1302 (ppm)	< LOQ
2-Propanol (IPA)	< LOQ	1400 (ppm)	< LOQ	Acetone	< LOQ	1400 (ppm)	< LOQ
Acetonitrile	< LOQ	246 (ppm)	< LOQ	Benzene	< LOQ	1.2 (ppm)	< LOQ
Methanol	< LOQ	1000 (ppm)	< LOQ	Propane	< LOQ	250 (ppm)	< LOQ
Toluene	< LOQ	534 (ppm)	< LOQ	Dichloromethane	< LOQ	360 (ppm)	< LOQ
1,4-Dioxane	< LOQ	228 (ppm)	< LOQ	2-Butanol	< LOQ	1400 (ppm)	< LOQ
2-Ethoxyethanol	< LOQ	96 (ppm)	< LOQ	Cumene	< LOQ	42 (ppm)	< LOQ
Cyclohexane	< LOQ	2278 (ppm)	< LOQ	Ethyl acetate	< LOQ	1400 (ppm)	< LOQ
Ethyl ether	< LOQ	1400 (ppm)	< LOQ	Ethylene glycol	< LOQ	558 (ppm)	< LOQ
Ethylene oxide	30.08783	30 (ppm)	< LOQ	Heptane	< LOQ	1400 (ppm)	< LOQ
Isopropyl acetate	< LOQ	1400 (ppm)	< LOQ	Tetrahydrofuran	< LOQ	432 (ppm)	< LOQ
Ethanol	< LOQ	1400 (ppm)	< LOQ				

LCS(P22A009-BS1)			Extracted: 01/05/22 09:34		Analyzed: 01/06/22 10:21		
Analyte	% Recovery	LOQ	Recovery Limits	Analyte	% Recovery	LOQ	Recovery Limits
Butanes	47.6	(ppm)	0-200	n-Butane	54.3	(ppm)	50-150
iso-Butane	41.0	(ppm)	50-150	Hexanes	106	(ppm)	0-200
n-Hexane	111	(ppm)	70-130	2-Methylpentane	107	(ppm)	70-130
3-Methylpentane	108	(ppm)	70-130	2,2-Dimethylbutane	106	(ppm)	70-130
2,3-Dimethylbutane	102	(ppm)	70-130	Pentanes	114	(ppm)	0-200
n-Pentane	101	(ppm)	70-130	iso-Pentane	86.6	(ppm)	70-130
Neopentane	87.1	(ppm)	50-150	Xylenes	110	(ppm)	0-200
1,2-Dimethylbenzene	110	(ppm)	70-130	1,3-Dimethylbenzene	111	(ppm)	70-130
1,4-Dimethylbenzene	111	(ppm)	70-130	Ethyl benzene	112	(ppm)	70-130
2-Propanol (IPA)	107	(ppm)	70-130	Acetone	99.3	(ppm)	70-130
Acetonitrile	122	(ppm)	70-130	Benzene	123	(ppm)	70-130
Methanol	112	(ppm)	70-130	Propane	57.9	(ppm)	50-150
Toluene	119	(ppm)	70-130	Dichloromethane	116	(ppm)	70-130
1,4-Dioxane	125	(ppm)	70-130	2-Butanol	107	(ppm)	70-130



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Quality Control

Batch: P22A009 - SOP.T.40.031 Solvents (Continued)

LCS(P22A009-BS1)			Extracted: 01/05/22 09:34		Analyzed: 01/06/22 10:21		
Analyte	% Recovery	LOQ	Recovery Limits	Analyte	% Recovery	LOQ	Recovery Limits
2-Ethoxyethanol	105	(ppm)	70-130	Cumene	121	(ppm)	50-150
Cyclohexane	109	(ppm)	70-130	Ethyl acetate	107	(ppm)	70-130
Ethyl ether	104	(ppm)	70-130	Ethylene glycol	70.7	(ppm)	50-150
Ethylene oxide	85.4	(ppm)	50-150	Heptane	112	(ppm)	70-130
Isopropyl acetate	116	(ppm)	70-130	Tetrahydrofuran	109	(ppm)	70-130



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