

# 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: **Enveed**

Product Name: **05.05.21 CBD-ISO Batch #8379 Prim**

Matrix: Hemp Concentrate

Metrc Source ID: n/a

Metrc Package ID: n/a

License Number: n/a

Date Collected: 2021-05-05

Date Received: 2021-05-05

Report Date: 2021-05-07

Report ID: A3623-01

Tests Requested: Cannabinoid Potency Analysis  
Pesticide Analysis  
Residual Solvent Analysis

## Evaluation Summary

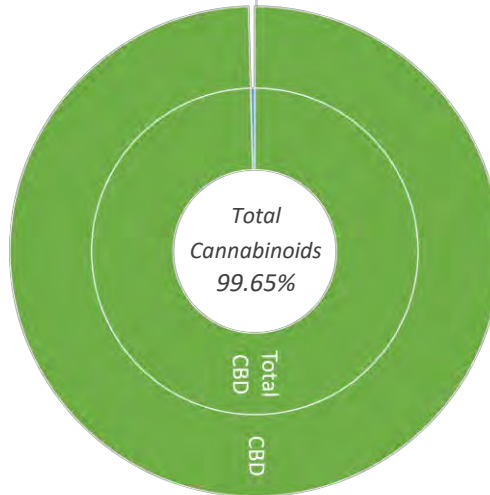
Moisture Analysis

Test Not Required

### Cannabinoid Potency Analysis

**Total THC \***  
**< LOQ**

**Total CBD \***  
**99.24 %**  
**992.4 mg/g**



Abv.	Dry Wt. %	Dry Wt. mg/g
THCA	< LOQ	< LOQ
Δ-9-THC	< LOQ	< LOQ
Δ-8-THC	< LOQ	< LOQ
THCV	< LOQ	< LOQ
CBDA	< LOQ	< LOQ
CBD	99.24 %	992.4 mg/g
CBGA	< LOQ	< LOQ
CBG	< LOQ	< LOQ
CBDVA	< LOQ	< LOQ
CBDV	0.41 %	4.1 mg/g
CBN	< LOQ	< LOQ
CBL	< LOQ	< LOQ
CBC	< LOQ	< LOQ

Pesticide Analysis

Pesticide Status

**Pass**

No Pesticides Were Detected above Oregon's action limit as stated in OAR 333-007-0400.

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

# Report: Case Narrative

This report presents the analytical findings for the sample collected on 2021-05-05 by Skyler Smith using sampling plan A3623 and received by PREE Laboratory on 2021-05-05. The sample was assigned a laboratory ID of A3623-01. The results in this report only apply to sample A3623-01.

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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. No special conditions were noted during the processing and testing of the sample.



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				
<b>Cannabinoid Potency Analysis</b>	Evaluation Detail					
Product Name: <b>05.05.21 CBD-ISO Batch #8379 Prim</b>	Cannabinoid Potency Analysis	Compound	Abrv.	Dry Wt. (%)	Dry Wt. (mg/g)	RL (%)
Analysis Date: 2021-05-06	<b>Total THC *</b>	Tetrahydro-cannabinolic acid	THCA	< LOQ	< LOQ	0.2 %
Testing Batch ID: V1332,1331,1330,1327	< LOQ	Delta9 Tetrahydro-cannabinol	Δ-9-THC	< LOQ	< LOQ	0.2 %
Testing Method: LSOP #303 Cannabinoid Quantification	< LOQ	Delta8 Tetrahydro-cannabinol	Δ-8-THC	< LOQ	< LOQ	0.2 %
		Tetrahydrocannabivarin	THCV	< LOQ	< LOQ	0.2 %
	<b>Total CBD *</b>	Cannabidiolic acid	CBDA	< LOQ	< LOQ	0.2 %
	99.24 %	Cannabidiol	CBD	99.24 %	992.4	0.2 %
	992.4 mg/g	Cannabigerolic acid	CBGA	< LOQ	< LOQ	0.2 %
		Cannabigerol	CBG	< LOQ	< LOQ	0.2 %
		Cannabidivarinic acid	CBDVA	< LOQ	< LOQ	0.2 %
		Cannabidivarin	CBDV	0.41 %	4.1	0.2 %
		Cannabinol	CBN	< LOQ	< LOQ	0.2 %
		Cannabicyclol	CBL	< LOQ	< LOQ	0.2 %
		Cannabichromene	CBC	< LOQ	< LOQ	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

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## Pesticide Analysis

Product Name: **05.05.21 CBD-ISO Batch #8379 Prim**

Analysis Date: 2021-05-06

Testing Batch ID: V1335,1334,1333,1332,1331

Testing Method: LSOP #307 Pesticides by LCMS/MS

## Evaluation Detail

Pesticide Name	Tested Value (ppm)	Pass Criteria (ppm)	LOQ (ppm)	Status Pass/Unsatisfactory
Abamectin	< LOQ	0.50	0.20	Pass
Acephate	< LOQ	0.40	0.04	Pass
Acequinocyl	< LOQ	2.00	0.20	Pass
Acetamiprid	< LOQ	0.20	0.04	Pass
Aldicarb	< LOQ	0.40	0.04	Pass
Azoxystrobin	< LOQ	0.20	0.04	Pass
Bifenazate	< LOQ	0.20	0.04	Pass
Bifenthrin	< LOQ	0.20	0.20	Pass
Boscalid	< LOQ	0.40	0.04	Pass
Carbaryl	< LOQ	0.20	0.04	Pass
Carbofuran	< LOQ	0.20	0.04	Pass
Chlorantraniliprole	< LOQ	0.20	0.04	Pass
Chlorfenapyr	< LOQ	1.00	1.00	Pass
Chlorpyrifos	< LOQ	0.20	0.04	Pass
Clofentezine	< LOQ	0.20	0.20	Pass
Cyfluthrin	< LOQ	1.00	1.00	Pass
Cypermethrin	< LOQ	1.00	1.00	Pass
Daminozide	< LOQ	1.00	0.20	Pass
Diazinon	< LOQ	0.20	0.04	Pass
Dichlorvos	< LOQ	1.00	0.20	Pass
Dimethoate	< LOQ	0.20	0.04	Pass
Ethoprophos	< LOQ	0.20	0.04	Pass
Etofenprox	< LOQ	0.40	0.20	Pass
Etoxazole	< LOQ	0.20	0.04	Pass
Fenoxycarb	< LOQ	0.20	0.04	Pass
Fenpyroximate	< LOQ	0.40	0.20	Pass
Fipronil	< LOQ	0.40	0.04	Pass
Flonicamid	< LOQ	1.00	0.04	Pass
Fludioxonil	< LOQ	0.40	0.20	Pass
Hexythiazox	< LOQ	1.00	0.04	Pass
Imazalil	< LOQ	0.20	0.04	Pass
Imidacloprid	< LOQ	0.40	0.04	Pass
Kresoxim-methyl	< LOQ	0.40	0.20	Pass

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## Pesticide Analysis

## Evaluation Detail

Pesticide Name	Tested Value (ppm)	Pass Criteria (ppm)	LOQ (ppm)	Status Pass/Unsatisfactory
Malathion	< LOQ	0.20	0.04	Pass
Metalaxyl	< LOQ	0.20	0.04	Pass
Methiocarb	< LOQ	0.20	0.04	Pass
Methomyl	< LOQ	0.40	0.04	Pass
Methyl-Parathion	< LOQ	0.20	0.20	Pass
MGK-264	< LOQ	0.20	0.20	Pass
Myclobutanil	< LOQ	0.20	0.20	Pass
Naled	< LOQ	0.50	0.04	Pass
Oxamyl	< LOQ	1.00	0.04	Pass
Paclobutrazol	< LOQ	0.40	0.04	Pass
Permethrins	< LOQ	0.20	0.20	Pass
Phosmet	< LOQ	0.20	0.04	Pass
Piperonyl butoxide	< LOQ	2.00	0.04	Pass
Prallethrin	< LOQ	0.20	0.20	Pass
Propiconazole	< LOQ	0.40	0.20	Pass
Propoxur	< LOQ	0.20	0.04	Pass
Pyrethrins	< LOQ	1.00	1.00	Pass
Pyridaben	< LOQ	0.20	0.04	Pass
Spinosad	< LOQ	0.20	0.20	Pass
Spiromesifen	< LOQ	0.20	0.20	Pass
Spirotetramat	< LOQ	0.20	0.04	Pass
Spiroxamine	< LOQ	0.40	0.04	Pass
Tebuconazole	< LOQ	0.40	0.04	Pass
Thiacloprid	< LOQ	0.20	0.04	Pass
Thiamethoxam	< LOQ	0.20	0.04	Pass
Trifloxystrobin	< LOQ	0.20	0.04	Pass

# Report: Quality Check



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<b>Moisture Analysis</b>	<b>Quality Control Detail</b>						
	Moisture Analysis						
<b>Cannabinoid Potency Analysis</b>	<b>Quality Control Detail</b>						
Analysis Date: 2021-05-06	Cannabinoid Potency Analysis		MB	LCS	Expected Value (%)	Tested Value (%)	Pass Criteria
Testing Batch ID: V1332,1331,1330,1327	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%	110.9%	80-120%
	Delta9 Tetrahydro-cannabinol			●	100.0%	109.0%	80-120%
	Cannabidiolic acid			●	100.0%	103.4%	80-120%
	Cannabidiol			●	100.0%	105.6%	80-120%

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## Pesticide Analysis

Analysis Date: 2021-05-06

Testing Batch ID: V1335,1334,1333,1332,1331

## Quality Control Detail

Pesticide Name	MB	Expected Value (ppm)	Tested Value (ppm)	Pass Criteria (ppm)
Abamectin	o	< 0.1	< 0.1	< 0.1
Acephate	o	< 0.02	< 0.02	< 0.02
Acequinocyl	o	< 0.1	< 0.1	< 0.1
Acetamiprid	o	< 0.02	< 0.02	< 0.02
Aldicarb	o	< 0.02	< 0.02	< 0.02
Azoxystrobin	o	< 0.02	< 0.02	< 0.02
Bifenazate	o	< 0.02	< 0.02	< 0.02
Bifenthrin	o	< 0.1	< 0.1	< 0.1
Boscalid	o	< 0.02	< 0.02	< 0.02
Carbaryl	o	< 0.02	< 0.02	< 0.02
Carbofuran	o	< 0.02	< 0.02	< 0.02
Chlorantraniliprole	o	< 0.02	< 0.02	< 0.02
Chlorfenapyr	o	< 0.5	< 0.5	< 0.5
Chlorpyrifos	o	< 0.02	< 0.02	< 0.02
Clofentezine	o	< 0.1	< 0.1	< 0.1
Cyfluthrin	o	< 0.5	< 0.5	< 0.5
Cypermethrin	o	< 0.5	< 0.5	< 0.5
Daminozide	o	< 0.1	< 0.1	< 0.1
Diazinon	o	< 0.02	< 0.02	< 0.02
Dichlorvos	o	< 0.1	< 0.1	< 0.1
Dimethoate	o	< 0.02	< 0.02	< 0.02
Ethoprophos	o	< 0.02	< 0.02	< 0.02
Etofenprox	o	< 0.1	< 0.1	< 0.1
Etoxazole	o	< 0.02	< 0.02	< 0.02
Fenoxycarb	o	< 0.02	< 0.02	< 0.02
Fenpyroximate	o	< 0.1	< 0.1	< 0.1
Fipronil	o	< 0.02	< 0.02	< 0.02
Flonicamid	o	< 0.02	< 0.02	< 0.02
Fludioxonil	o	< 0.1	< 0.1	< 0.1
Hexythiazox	o	< 0.02	< 0.02	< 0.02
Imazalil	o	< 0.02	< 0.02	< 0.02
Imidacloprid	o	< 0.02	< 0.02	< 0.02
Kresoxim-methyl	o	< 0.1	< 0.1	< 0.1

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## Pesticide Analysis

## Quality Control Detail

Pesticide Name	MB	Expected Value (ppm)	Tested Value (ppm)	Pass Criteria (ppm)
Malathion	o	< 0.02	< 0.02	< 0.02
Metalaxyl	o	< 0.02	< 0.02	< 0.02
Methiocarb	o	< 0.02	< 0.02	< 0.02
Methomyl	o	< 0.02	< 0.02	< 0.02
Methyl-Parathion	o	< 0.1	< 0.1	< 0.1
MGK-264 I	o	< 0.1	< 0.1	< 0.1
MGK-264 II	o	< 0.1	< 0.1	< 0.1
Myclobutanil	o	< 0.1	< 0.1	< 0.1
Naled	o	< 0.02	< 0.02	< 0.02
Oxamyl	o	< 0.02	< 0.02	< 0.02
Paclobutrazol	o	< 0.02	< 0.02	< 0.02
Permethrin - trans	o	< 0.1	< 0.1	< 0.1
Permethrin - cis	o	< 0.1	< 0.1	< 0.1
Phosmet	o	< 0.02	< 0.02	< 0.02
Piperonyl butoxide	o	< 0.02	< 0.02	< 0.02
Prallethrin	o	< 0.1	< 0.1	< 0.1
Propiconazole	o	< 0.1	< 0.1	< 0.1
Propoxur	o	< 0.02	< 0.02	< 0.02
Pyrethrin - Cinerin	o	< 0.5	< 0.02	< 0.5
Pyrethrin - Pyrethrins/Jasmolin	o	< 0.5	< 0.5	< 0.5
Pyridaben	o	< 0.02	< 0.02	< 0.02
Spinosyn A	o	< 0.1	< 0.1	< 0.1
Spinosyn D	o	< 0.1	< 0.1	< 0.1
Spiromesifen	o	< 0.1	< 0.1	< 0.1
Spirotetramat	o	< 0.02	< 0.02	< 0.02
Spiroxamine	o	< 0.02	< 0.02	< 0.02
Tebuconazole	o	< 0.02	< 0.02	< 0.02
Thiacloprid	o	< 0.02	< 0.02	< 0.02
Thiamethoxam	o	< 0.02	< 0.02	< 0.02
Trifloxystrobin	o	< 0.02	< 0.02	< 0.02

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## Pesticide Analysis

## Quality Control Detail

Pesticide Name	LCS	Expected Value (ppm)	Tested Value (ppm)	Pass Criteria (ppm)
Abamectin	•	1.00	0.996	0.6 - 1.4
Acephate	•	1.00	1.028	0.6 - 1.4
Acequinocyl	•	1.00	1.249	0.6 - 1.4
Acetamiprid	•	1.00	1.108	0.6 - 1.4
Aldicarb	•	1.00	1.003	0.6 - 1.4
Azoxystrobin	•	1.00	1.087	0.6 - 1.4
Bifenazate	•	1.00	0.989	0.6 - 1.4
Bifenthrin	•	1.00	1.116	0.6 - 1.4
Boscalid	•	1.00	0.982	0.6 - 1.4
Carbaryl	•	1.00	1.025	0.6 - 1.4
Carbofuran	•	1.00	1.096	0.6 - 1.4
Chlorantraniliprole	•	1.00	0.947	0.6 - 1.4
Chlorfenapyr	•	1.00	1.248	0.6 - 1.4
Chlorpyrifos	•	1.00	1.252	0.6 - 1.4
Clofentezine	•	1.00	1.229	0.6 - 1.4
Cyfluthrin	•	1.00	1.196	0.6 - 1.4
Cypermethrin	•	1.00	1.180	0.6 - 1.4
Daminozide	•	1.00	0.923	0.6 - 1.4
Diazinon	•	1.00	1.269	0.6 - 1.4
Dichlorvos	•	1.00	1.141	0.6 - 1.4
Dimethoate	•	1.00	1.057	0.6 - 1.4
Ethoprophos	•	1.00	1.074	0.6 - 1.4
Etofenprox	•	1.00	1.256	0.6 - 1.4
Etoxazole	•	1.00	1.169	0.6 - 1.4
Fenoxycarb	•	1.00	1.075	0.6 - 1.4
Fenpyroximate	•	1.00	1.215	0.6 - 1.4
Fipronil	•	1.00	1.202	0.6 - 1.4
Flonicamid	•	1.00	1.179	0.6 - 1.4
Fludioxonil	•	1.00	0.927	0.6 - 1.4
Hexythiazox	•	1.00	1.164	0.6 - 1.4
Imazalil	•	1.00	1.014	0.6 - 1.4
Imidacloprid	•	1.00	1.045	0.6 - 1.4
Kresoxim-methyl	•	1.00	1.053	0.6 - 1.4

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## Pesticide Analysis

## Quality Control Detail

Pesticide Name	LCS	Expected Value (ppm)	Tested Value (ppm)	Pass Criteria (ppm)
Malathion	•	1.00	1.109	0.6 - 1.4
Metalaxyl	•	1.00	1.031	0.6 - 1.4
Methiocarb	•	1.00	1.025	0.6 - 1.4
Methomyl	•	1.00	1.043	0.6 - 1.4
Methyl-Parathion	•	1.00	1.092	0.6 - 1.4
MGK-264 I	•	1.00	1.161	0.6 - 1.4
MGK-264 II	•	1.00	1.143	0.6 - 1.4
Myclobutanil	•	1.00	0.953	0.6 - 1.4
Naled	•	1.00	1.042	0.6 - 1.4
Oxamyl	•	1.00	1.031	0.6 - 1.4
Paclobutrazol	•	1.00	0.901	0.6 - 1.4
Permethrin - trans	•	1.00	1.130	0.6 - 1.4
Permethrin - cis	•	1.00	1.245	0.6 - 1.4
Phosmet	•	1.00	1.059	0.6 - 1.4
Piperonyl butoxide	•	1.00	1.076	0.6 - 1.4
Prallethrin	•	1.00	1.224	0.6 - 1.4
Propiconazole	•	1.00	1.256	0.6 - 1.4
Propoxur	•	1.00	0.998	0.6 - 1.4
Pyrethrin - Cinerin	•	1.00	1.173	0.6 - 1.4
Pyrethrin - Pyrethrins/Jasmolin	•	1.00	1.137	0.6 - 1.4
Pyridaben	•	1.00	1.293	0.6 - 1.4
Spinosyn A	•	1.00	1.214	0.6 - 1.4
Spinosyn D	•	1.00	1.199	0.6 - 1.4
Spiromesifen	•	1.00	1.217	0.6 - 1.4
Spirotetramat	•	1.00	0.997	0.6 - 1.4
Spiroxamine	•	1.00	0.953	0.6 - 1.4
Tebuconazole	•	1.00	0.953	0.6 - 1.4
Thiacloprid	•	1.00	1.171	0.6 - 1.4
Thiamethoxam	•	1.00	1.103	0.6 - 1.4
Trifloxystrobin	•	1.00	1.214	0.6 - 1.4

## 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 (E) : Compound tested above the upper limit of quantitation.

## Calculations

- Cannabinoid Potency :  
Wet WT% = (Exported concentration ppm) x (Dilution) x (Extraction Vol./Wet wt mg) x 100  
Total THC% = (%THCA) x 0.877 + (%THC)  
Total CBD% = (%CBDA) x 0.877 + (%CBD)  
Total THC (Dry WT)% = % total THC(wet) / [1-(% moisture/100)]  
Total CBD (Dry WT)% = % total CBD(wet) / [1-(% moisture/100)]
- Percentage Recovery :  
% Rec. = [(Amount measured) / (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.

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

**A3623-01**

**FREE Labs**

**010-10087092BDA**

**Sample ID: P210426-01 METRC Batch #:**

**Matrix: Extract/Concentrate**

**Date Sampled: 05/05/21 09:00**

**Date Accepted: 05/05/21**

**Batch ID:**

**Batch Size:**

**Sampling Method/SOP: SOP.T.20.010**

## Residual Solvents

Analyte	LOQ	Action Level	Result	Units
<b>Butanes</b>	250	5000 <sup>3</sup>	< LOQ	ppm
n-Butane	250	5000	< LOQ	ppm
iso-Butane	250	5000	< LOQ	ppm
<b>Hexanes</b>	174	290 <sup>4</sup>	< 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
<b>Pentanes</b>	1400	5000 <sup>5</sup>	< LOQ	ppm
n-Pentane	1400	5000	< LOQ	ppm
iso-Pentane	1400	5000	< LOQ	ppm
Neopentane	250	5000	< LOQ	ppm
<b>Xylenes</b>	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
Xylenes MP	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 <sup>7</sup>	< LOQ	ppm
Water	NA	TIC	NA	

*Date/Time Extracted: 05/06/21 15:32*

*Date/Time Analyzed: 05/07/21 10:40*

*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 - 5/7/2021

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## Quality Control

**Batch: P21E016 - SOP.T.40.031 Solvents**

Blank(P21E016-BLK1)			Extracted: 05/06/21 15:32		Analyzed: 05/07/21 10:40		
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	Xylenes MP	< 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	< LOQ	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(P21E016-BS1)			Extracted: 05/06/21 15:32		Analyzed: 05/07/21 10:40		
Analyte	% Recovery	LOQ	Recovery Limits	Analyte	% Recovery	LOQ	Recovery Limits
Butanes	82.9	(ppm)	0-200	n-Butane	93.9	(ppm)	50-150
iso-Butane	71.9	(ppm)	50-150	Hexanes	101	(ppm)	0-200
n-Hexane	103	(ppm)	70-130	2-Methylpentane	102	(ppm)	70-130
3-Methylpentane	98.9	(ppm)	70-130	2,2-Dimethylbutane	99.9	(ppm)	70-130
2,3-Dimethylbutane	100	(ppm)	70-130	Pentanes	122	(ppm)	0-200
n-Pentane	106	(ppm)	70-130	iso-Pentane	93.7	(ppm)	70-130
Neopentane	99.3	(ppm)	50-150	Xylenes	88.7	(ppm)	0-200
1,2-Dimethylbenzene	90.3	(ppm)	70-130	1,3-Dimethylbenzene	87.1	(ppm)	70-130
1,4-Dimethylbenzene	88.7	(ppm)	70-130	Xylenes MP	88.6	(ppm)	0-200
Ethyl benzene	89.7	(ppm)	70-130	2-Propanol (IPA)	96.1	(ppm)	70-130
Acetone	97.3	(ppm)	70-130	Acetonitrile	103	(ppm)	70-130
Benzene	98.7	(ppm)	70-130	Methanol	95.0	(ppm)	70-130
Propane	83.7	(ppm)	50-150	Toluene	93.0	(ppm)	70-130
Dichloromethane	95.3	(ppm)	70-130	1,4-Dioxane	99.9	(ppm)	70-130



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## Quality Control

Batch: P21E016 - SOP.T.40.031 Solvents (Continued)

LCS(P21E016-BS1)			Extracted: 05/06/21 15:32		Analyzed: 05/07/21 10:40		
Analyte	% Recovery	LOQ	Recovery Limits	Analyte	% Recovery	LOQ	Recovery Limits
2-Butanol	93.5	(ppm)	70-130	2-Ethoxyethanol	93.2	(ppm)	70-130
Cumene	88.0	(ppm)	50-150	Cyclohexane	93.8	(ppm)	70-130
Ethyl acetate	97.5	(ppm)	70-130	Ethyl ether	96.7	(ppm)	70-130
Ethylene glycol	72.0	(ppm)	70-130	Ethylene oxide	109	(ppm)	50-150
Heptane	97.0	(ppm)	70-130	Isopropyl acetate	100	(ppm)	70-130
Tetrahydrofuran	102	(ppm)	70-130				



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