

# 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

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## Product Description

Client: **GVB Oregon**

Product Name: **10.30.20 CBD-ISO Batch #8308 Dup**

Process Lot:

Process Date:

Matrix: Hemp Concentrate

Metrc Source ID: n/a

Metrc Package ID: n/a

License Number: n/a

Date Collected: 2020-10-30

Date Received: 2020-10-30

Report Date: 2020-11-03

Report ID: A2454-02

Tests Requested: Cannabinoid Potency Analysis  
Pesticide Analysis  
Residual Solvent Analysis

**10.30.20 CBD-ISO Batch #8308 Dup**

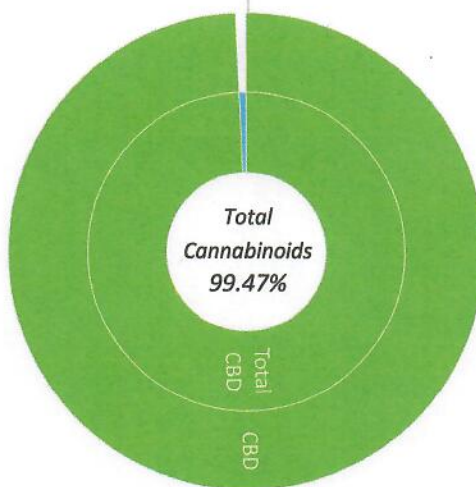
## Evaluation Summary

Moisture Analysis | Test Not Required

### Cannabinoid Potency Analysis

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

**Total CBD \***  
**98.77 %**  
**987.7 mg/g**



Abbr.	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	98.77 %	987.7 mg/g
CBGA	< LOQ	< LOQ
CBG	< LOQ	< LOQ
CBDVA	< LOQ	< LOQ
CBDV	0.70 %	7.0 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 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 2020-10-30 by Dan Hanshaw and received by PREE Laboratory on 2020-10-30. The sample was assigned a laboratory ID of A2454-02. The results in this report only apply to sample A2454-02.

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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:**

R&D sample results may not be used for compliance purposes.



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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<b>Moisture Analysis</b>	<b>Evaluation Detail</b>						
	Moisture Analysis		Test Not Requested/Required				
<b>Cannabinoid Potency Analysis</b>	<b>Evaluation Detail</b>						
Product Name: 10.30.20 CBD-ISO Batch #8308 Dup	Cannabinoid Potency Analysis		Compound	Abrv.	Dry Wt. (%)	Dry Wt. (mg/g)	RL (%)
Analysis Date: 2020-11-02	<b>Total THC *</b>		Tetrahydro-cannabinolic acid	THCA	< LOQ	< LOQ	0.5 %
Testing Batch ID: V891,890,889,879	< LOQ		Delta9 Tetrahydro-cannabinol	Δ-9-THC	< LOQ	< LOQ	0.5 %
Testing Method: LSOP #303 Cannabinoid Quantification	< LOQ		Delta8 Tetrahydro-cannabinol	Δ-8-THC	< LOQ	< LOQ	0.5 %
			Tetrahydrocannabivarin	THCV	< LOQ	< LOQ	0.5 %
	<b>Total CBD *</b>		Cannabidiolic acid	CBDA	< LOQ	< LOQ	0.5 %
	98.77 %		Cannabidiol	CBD	98.77 %	987.7	0.5 %
	987.7 mg/g		Cannabigerolic acid	CBGA	< LOQ	< LOQ	0.5 %
			Cannabigerol	CBG	< LOQ	< LOQ	0.5 %
			Cannabidivarinic acid	CBDVA	< LOQ	< LOQ	0.5 %
			Cannabidivarin	CBDV	0.70 %	7.0	0.5 %
			Cannabinol	CBN	< LOQ	< LOQ	0.5 %
			Cannabicyclol	CBL	< LOQ	< LOQ	0.5 %
			Cannabichromene	CBC	< LOQ	< LOQ	0.5 %

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

## Evaluation Detail

Product Name: **10.30.20 CBD-ISO Batch #8308 Dup**

Analysis Date: 1900-01-00

Testing Batch ID: V891,889,887,896,895,893,892

Testing Method: LSOP #307 Pesticides by LCMS/MS

Pesticide Name	Tested Value (ppm)	Pass Criteria (ppm)	LOQ (ppm)	Status Pass/Unsatisfactory
Abamectin	< LOQ	0.50	0.10	Pass
Acephate	< LOQ	0.40	0.02	Pass
Acequinocyl	< LOQ	2.00	0.10	Pass
Acetamiprid	< LOQ	0.20	0.02	Pass
Aldicarb	< LOQ	0.40	0.02	Pass
Azoxystrobin	< LOQ	0.20	0.02	Pass
Bifenazate	< LOQ	0.20	0.02	Pass
Bifenthrin	< LOQ	0.20	0.10	Pass
Boscalid	< LOQ	0.40	0.02	Pass
Carbaryl	< LOQ	0.20	0.02	Pass
Carbofuran	< LOQ	0.20	0.02	Pass
Chlorantraniliprole	< LOQ	0.20	0.02	Pass
Chlorfenapyr	< LOQ	1.00	0.50	Pass
Chlorpyrifos	< LOQ	0.20	0.02	Pass
Clofentezine	< LOQ	0.20	0.10	Pass
Cyfluthrin	< LOQ	1.00	0.50	Pass
Cypermethrin	< LOQ	1.00	0.50	Pass
Daminozide	< LOQ	1.00	0.10	Pass
Diazinon	< LOQ	0.20	0.02	Pass
Dichlorvos	< LOQ	1.00	0.10	Pass
Dimethoate	< LOQ	0.20	0.02	Pass
Ethoprophos	< LOQ	0.20	0.02	Pass
Etofenprox	< LOQ	0.40	0.10	Pass
Etoxazole	< LOQ	0.20	0.02	Pass
Fenoxycarb	< LOQ	0.20	0.02	Pass
Fenpyroximate	< LOQ	0.40	0.10	Pass
Fipronil	< LOQ	0.40	0.02	Pass
Flonicamid	< LOQ	1.00	0.02	Pass
Fludioxonil	< LOQ	0.40	0.10	Pass
Hexythiazox	< LOQ	1.00	0.02	Pass
Imazalil	< LOQ	0.20	0.02	Pass
Imidacloprid	< LOQ	0.40	0.02	Pass
Kresoxim-methyl	< LOQ	0.40	0.10	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	0.02	Pass
Metalaxyl	< LOQ	0.20	0.02	Pass
Methiocarb	< LOQ	0.20	0.02	Pass
Methomyl	< LOQ	0.40	0.02	Pass
Methyl-Parathion	< LOQ	0.20	0.10	Pass
MGK-264	< LOQ	0.20	0.10	Pass
Myclobutanil	< LOQ	0.20	0.10	Pass
Naled	< LOQ	0.50	0.02	Pass
Oxamyl	< LOQ	1.00	0.02	Pass
Paclobutrazol	< LOQ	0.40	0.02	Pass
Permethrins	< LOQ	0.20	0.10	Pass
Phosmet	< LOQ	0.20	0.02	Pass
Piperonyl butoxide	< LOQ	2.00	0.02	Pass
Prallethrin	< LOQ	0.20	0.10	Pass
Propiconazole	< LOQ	0.40	0.10	Pass
Propoxur	< LOQ	0.20	0.02	Pass
Pyrethrins	< LOQ	1.00	0.50	Pass
Pyridaben	< LOQ	0.20	0.02	Pass
Spinosad	< LOQ	0.20	0.02	Pass
Spiromesifen	< LOQ	0.20	0.10	Pass
Spirotetramat	< LOQ	0.20	0.02	Pass
Spiroxamine	< LOQ	0.40	0.02	Pass
Tebuconazole	< LOQ	0.40	0.02	Pass
Thiacloprid	< LOQ	0.20	0.02	Pass
Thiamethoxam	< LOQ	0.20	0.02	Pass
Trifloxystrobin	< LOQ	0.20	0.02	Pass

# Report: Quality Check

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<b>Moisture Analysis</b>	<b>Quality Control Detail</b>						
<p>Analysis Date: 2020-11-02</p> <p>Testing Batch ID: V891,890,889,879</p>	Moisture Analysis						
<b>Cannabinoid Potency Analysis</b>	<b>Quality Control Detail</b>						
<p>Analysis Date: 2020-11-02</p> <p>Testing Batch ID: V891,890,889,879</p>	Cannabinoid Potency Analysis		MB	LCS	Expected Value (%)	Tested Value (%)	Pass Criteria
	Tetrahydro-cannabinolic acid	o			< 0.1%	< 0.1%	< 0.1%
	Delta9 Tetrahydro-cannabinol	o			< 0.1%	< 0.1%	< 0.1%
	Cannabidiolic acid	o			< 0.1%	< 0.1%	< 0.1%
	Cannabidiol	o			< 0.1%	< 0.1%	< 0.1%
	Tetrahydro-cannabinolic acid			●	100.0%	102.3%	80-120%
	Delta9 Tetrahydro-cannabinol			●	100.0%	97.9%	80-120%
	Cannabidiolic acid			●	100.0%	97.5%	80-120%
Cannabidiol			●	100.0%	100.7%	80-120%	

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## Pesticide Analysis

Analysis Date: 1900-01-00

Testing Batch ID: V891,889,887,896,895,893,892

## 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
Fonicamid	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

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Pesticide Name	MB	Expected Value (ppm)	Tested Value (ppm)	Pass Criteria (ppm)
Malathion	o	< 0.02	< 0.02	< 0.02
Metaxyl	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	< 0.02	< 0.02	< 0.02
Spinosyn D	o	< 0.02	0.011	< 0.02
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	0.978	0.6 - 1.4
Acephate	•	1.00	1.031	0.6 - 1.4
Acequinocyl	•	1.00	1.139	0.6 - 1.4
Acetamiprid	•	1.00	1.038	0.6 - 1.4
Aldicarb	•	1.00	0.981	0.6 - 1.4
Azoxystrobin	•	1.00	0.992	0.6 - 1.4
Bifenazate	•	1.00	0.906	0.6 - 1.4
Bifenthrin	•	1.00	1.067	0.6 - 1.4
Boscalid	•	1.00	1.239	0.6 - 1.4
Carbaryl	•	1.00	1.003	0.6 - 1.4
Carbofuran	•	1.00	0.985	0.6 - 1.4
Chlorantraniliprole	•	1.00	0.983	0.6 - 1.4
Chlorfenapyr	•	1.00	1.065	0.6 - 1.4
Chlorpyrifos	•	1.00	0.904	0.6 - 1.4
Clofentezine	•	1.00	0.925	0.6 - 1.4
Cyfluthrin	•	1.00	0.914	0.6 - 1.4
Cypermethrin	•	1.00	0.999	0.6 - 1.4
Daminozide	•	1.00	0.993	0.6 - 1.4
Diazinon	•	1.00	0.991	0.6 - 1.4
Dichlorvos	•	1.00	1.099	0.6 - 1.4
Dimethoate	•	1.00	1.095	0.6 - 1.4
Ethoprophos	•	1.00	0.906	0.6 - 1.4
Etofenprox	•	1.00	0.982	0.6 - 1.4
Etoxazole	•	1.00	1.131	0.6 - 1.4
Fenoxycarb	•	1.00	0.948	0.6 - 1.4
Fenpyroximate	•	1.00	0.929	0.6 - 1.4
Fipronil	•	1.00	0.826	0.6 - 1.4
Fonicamid	•	1.00	1.062	0.6 - 1.4
Fludioxonil	•	1.00	0.898	0.6 - 1.4
Hexythiazox	•	1.00	1.015	0.6 - 1.4
Imazalil	•	1.00	0.950	0.6 - 1.4
Imidacloprid	•	1.00	1.012	0.6 - 1.4
Kresoxim-methyl	•	1.00	1.167	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	0.937	0.6 - 1.4
Metalaxyl	•	1.00	1.067	0.6 - 1.4
Methiocarb	•	1.00	1.042	0.6 - 1.4
Methomyl	•	1.00	1.038	0.6 - 1.4
Methyl-Parathion	•	1.00	1.204	0.6 - 1.4
MGK-264 I	•	1.00	1.051	0.6 - 1.4
MGK-264 II	•	1.00	0.845	0.6 - 1.4
Myclobutanil	•	1.00	1.013	0.6 - 1.4
Naled	•	1.00	1.188	0.6 - 1.4
Oxamyl	•	1.00	1.080	0.6 - 1.4
Paclobutrazol	•	1.00	0.956	0.6 - 1.4
Permethrin - trans	•	1.00	0.991	0.6 - 1.4
Permethrin - cis	•	1.00	0.969	0.6 - 1.4
Phosmet	•	1.00	1.065	0.6 - 1.4
Piperonyl butoxide	•	1.00	0.997	0.6 - 1.4
Prallethrin	•	1.00	1.257	0.6 - 1.4
Propiconazole	•	1.00	0.845	0.6 - 1.4
Propoxur	•	1.00	1.003	0.6 - 1.4
Pyrethrin - Cinerin	•	1.00	0.982	0.6 - 1.4
Pyrethrin - Pyrethrins/Jasmolin	•	1.00	1.001	0.6 - 1.4
Pyridaben	•	1.00	1.169	0.6 - 1.4
Spinosyn A	•	1.00	0.912	0.6 - 1.4
Spinosyn D	•	1.00	0.990	0.6 - 1.4
Spiromesifen	•	1.00	1.113	0.6 - 1.4
Spirotetramat	•	1.00	1.126	0.6 - 1.4
Spiroxamine	•	1.00	1.246	0.6 - 1.4
Tebuconazole	•	1.00	0.986	0.6 - 1.4
Thiacloprid	•	1.00	1.055	0.6 - 1.4
Thiamethoxam	•	1.00	1.052	0.6 - 1.4
Trifloxystrobin	•	1.00	1.113	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.

## 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 :**  
$$\% \text{ Rec.} = [(\text{Amount measured}) / (\text{Known amount})] \times 100$$

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

**A2454-02**

**PREE Labs**

**010-10087092BDA**

**Sample ID: P201113-02**

**METRC Batch #:**

**Matrix: Extract/Concentrate**

**Date Sampled: 10/30/20 09:00**

**Date Accepted: 10/30/20**

**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

*Date/Time Extracted: 11/02/20 09:48*

*Date/Time Analyzed: 11/02/20 14:13*

*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.**

**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 - 11/2/2020


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 14775 SW 74th Ave, Tigard, OR 97224  
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## Quality Control

**Batch: P20J159 - SOP.T.40.031 Solvents**

Blank(P20J159-BLK1)			Extracted: 11/02/20 09:48		Analyzed: 11/02/20 14:13		
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				

LCS(P20J159-BS1)			Extracted: 11/02/20 09:48		Analyzed: 11/02/20 14:13		
Analyte	% Recovery	LOQ	Recovery Limits	Analyte	% Recovery	LOQ	Recovery Limits
Butanes	72.6	(ppm)	0-200	n-Butane	82.4	(ppm)	50-150
iso-Butane	62.7	(ppm)	50-150	Hexanes	91.2	(ppm)	0-200
n-Hexane	91.3	(ppm)	70-130	2-Methylpentane	88.2	(ppm)	70-130
3-Methylpentane	92.4	(ppm)	70-130	2,2-Dimethylbutane	94.6	(ppm)	70-130
2,3-Dimethylbutane	88.6	(ppm)	70-130	Pentanes	102	(ppm)	0-200
n-Pentane	94.7	(ppm)	70-130	iso-Pentane	93.0	(ppm)	70-130
Neopentane	78.0	(ppm)	50-150	Xylenes	81.1	(ppm)	0-200
1,2-Dimethylbenzene	78.8	(ppm)	70-130	1,3-Dimethylbenzene	82.2	(ppm)	70-130
1,4-Dimethylbenzene	82.8	(ppm)	70-130	Xylenes MP	81.1	(ppm)	0-200
Ethyl benzene	82.0	(ppm)	70-130	2-Propanol (IPA)	95.9	(ppm)	70-130
Acetone	95.1	(ppm)	70-130	Acetonitrile	90.4	(ppm)	70-130
Benzene	75.1	(ppm)	70-130	Methanol	101	(ppm)	70-130
Propane	57.8	(ppm)	50-150	Toluene	86.9	(ppm)	70-130
Dichloromethane	91.4	(ppm)	70-130	1,4-Dioxane	86.5	(ppm)	70-130


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## Quality Control

Batch: P20J159 - SOP.T.40.031 Solvents (Continued)

LCS(P20J159-BS1)			Extracted: 11/02/20 09:48	Analyzed: 11/02/20 14:13			
Analyte	% Recovery	LOQ	Recovery Limits	Analyte	% Recovery	LOQ	Recovery Limits
2-Butanol	94.5	(ppm)	70-130	2-Ethoxyethanol	99.1	(ppm)	70-130
Cumene	83.5	(ppm)	50-150	Cyclohexane	94.3	(ppm)	70-130
Ethyl acetate	95.7	(ppm)	70-130	Ethyl ether	98.3	(ppm)	70-130
Ethylene glycol	125	(ppm)	70-130	Ethylene oxide	87.8	(ppm)	50-150
Heptane	92.5	(ppm)	70-130	Isopropyl acetate	95.0	(ppm)	70-130
Tetrahydrofuran	89.4	(ppm)	70-130				



Kawai Medeiros  
 Laboratory Manager - 11/2/2020



## Residual Solvent TIC Report

**PREE Labs**

**010-10087092BDA**

Batch ID: N/A  
Batch Size: N/A

**EVIO Sample ID:**

**Product Name:**

**P201113-02**

**A2454-02**

Ordered: 10/30/2020  
Sampled: N/A  
Completed: 11/2/2020

### Tentatively Identified Compounds (TIC's)

Prevalent Compound(s) (Descending Order)	CAS #	Compound Name
1	7732-18-5	Water
2	589-34-4	Hexane,3-methyl-
3	591-76-4	Hexane,2-methyl-
4		
5		

Residual Solvent Analytical Batch ID: P20J159

Notes: Per OAR 333-064-0100 (7), labs are required to report to the licensee or registrant and the Authority or the Commission up to 5 tentatively identified compounds (TIC's) that have the greatest apparent concentration and exceeds a 90% spectral match.



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