

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: **GVB Oregon**

Product Name: **CBC Isolate B#GVL-TST96 Prim
GVB I - CBC**

Process Date: 2021-12-02

Retest Date: 2023-12-02

Matrix: Hemp Concentrate

Metrc Source ID: n/a

Metrc Package ID: n/a

License Number: n/a

Date Collected: 2021-12-03

Date Received: 2021-12-03

Report Date: 2021-12-07

Report ID: A5332-03

Tests Requested: Cannabinoid Potency Analysis
Pesticide Analysis
Residual Solvent Analysis

Evaluation Summary

Moisture Analysis

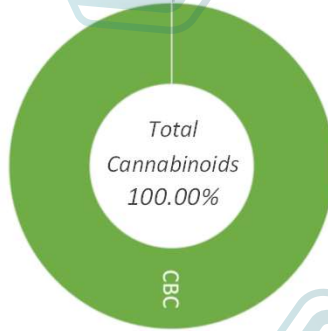
Test Not Required

Cannabinoid Potency Analysis

Total THC *
0.00 %
0.0 mg/g

Total CBD *
0.00 %
0.0 mg/g

Abrv.	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	< LOQ	< LOQ
CBGA	< LOQ	< LOQ
CBG	< LOQ	< LOQ
CBDVA	< LOQ	< LOQ
CBDV	< LOQ	< LOQ
CBN	< LOQ	< LOQ
CBL	< LOQ	< LOQ
CBC	100.00 % (A)	1000.0 mg/g



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

2491 Ewald Ave SE Salem, OR 97302

This report presents the analytical findings for the sample collected on 2021-12-03 by Skyler Smith using sampling plan A5332 and received by PREE Laboratory on 2021-12-03. The sample was assigned a laboratory ID of A5332-03. The results in this report only apply to sample A5332-03.

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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 Total Cannabinoid concentration was found to be adjusted to 102.08 %. This is within the method uncertainty and, as a result, the reported concentration was adjusted to 100.00%.

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
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Cannabinoid Potency Analysis

Evaluation Detail

Product Name: **CBC Isolate B#GVL-TST96 Prim**

Analysis Date: 2021-12-04

Testing Batch ID: V2022,2018

Testing Method: LSOP #303 Cannabinoid Quantification

Cannabinoid Potency Analysis	Compound	Abrv.	Dry Wt. (%)	Dry Wt. (mg/g)	RL (%)
Total THC *	Tetrahydro-cannabinolic acid	THCA	< LOQ	< LOQ	0.5 %
0.00 %	Delta9 Tetrahydro-cannabinol	Δ-9-THC	< LOQ	< LOQ	0.5 %
0.0 mg/g	Delta8 Tetrahydro-cannabinol	Δ-8-THC	< LOQ	< LOQ	0.5 %
	Tetrahydrocannabivarin	THCV	< LOQ	< LOQ	0.5 %
Total CBD *	Cannabidiolic acid	CBDA	< LOQ	< LOQ	0.5 %
0.00 %	Cannabidiol	CBD	< LOQ	< LOQ	0.5 %
0.0 mg/g	Cannabigerolic acid	CBGA	< LOQ	< LOQ	0.5 %
	Cannabigerol	CBG	< LOQ	< LOQ	0.5 %
	Cannabidivarinic acid	CBDVA	< LOQ	< LOQ	0.5 %
	Cannabidivarin	CBDV	< LOQ	< LOQ	0.5 %
	Cannabinol	CBN	< LOQ	< LOQ	0.5 %
	Cannabicyclol	CBL	< LOQ	< LOQ	0.5 %
	Cannabichromene	CBC	100.00 % (A)	1000.0	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: **CBC Isolate B#GVL-TST96 Prim**

Analysis Date: 2021-12-04

Testing Batch ID: V2020,2019,2018,2017,2011,2010,2009

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
Etozazole	< 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	0.10	Pass
Spiromesifen	< LOQ	0.20	0.02	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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Moisture Analysis

Quality Control Detail

Moisture Analysis |

Cannabinoid Potency Analysis

Quality Control Detail

Analysis Date: 2021-12-04

Testing Batch ID: V2022,2018

Cannabinoid Potency Analysis	MB	LCS	Expected Value (%)	Tested Value (%)	Pass Criteria
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%	88.1%	80-120%
Delta9 Tetrahydro-cannabinol		●	100.0%	95.8%	80-120%
Cannabidiolic acid		●	100.0%	90.2%	80-120%
Cannabidiol		●	100.0%	95.8%	80-120%

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Pesticide Analysis

Analysis Date: 2021-12-04

Testing Batch ID: V2020,2019,2018,2017,2011,2010,2009

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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Report: Quality Check

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
Pacllobutrazol	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	< 0.5	< 0.5
Pyrethrin - Jasmolin	o	< 0.5	< 0.5	< 0.5
Pyrethrin - Pyrethrins	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	< 0.02	< 0.02	< 0.02
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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Report: Quality Check

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Pesticide Analysis

Quality Control Detail

Pesticide Name	LCS	Expected Recovery (%)	Actual Recovery (%)	Pass Criteria (%)
Abamectin	•	100.00	75.91	60 - 140
Acephate	•	100.00	100.22	60 - 140
Acequinocyl	•	100.00	79.61	60 - 140
Acetamiprid	•	100.00	110.87	60 - 140
Aldicarb	•	100.00	83.89	60 - 140
Azoxystrobin	•	100.00	102.09	60 - 140
Bifenazate	•	100.00	95.51	60 - 140
Bifenthrin	•	100.00	89.96	60 - 140
Boscalid	•	100.00	108.09	60 - 140
Carbaryl	•	100.00	103.82	60 - 140
Carbofuran	•	100.00	106.25	60 - 140
Chlorantraniliprole	•	100.00	107.77	60 - 140
Chlorfenapyr	•	100.00	100.52	60 - 140
Chlorpyrifos	•	100.00	110.77	60 - 140
Clofentezine	•	100.00	98.02	60 - 140
Cyfluthrin	•	100.00	87.94	60 - 140
Cypermethrin	•	100.00	92.88	60 - 140
Daminozide	•	100.00	92.06	60 - 140
Diazinon	•	100.00	100.97	60 - 140
Dichlorvos	•	100.00	102.34	60 - 140
Dimethoate	•	100.00	106.64	60 - 140
Ethoprophos	•	100.00	105.38	60 - 140
Etofenprox	•	100.00	104.10	60 - 140
Etoxazole	•	100.00	113.63	60 - 140
Fenoxycarb	•	100.00	110.69	60 - 140
Fenpyroximate	•	100.00	112.85	60 - 140
Fipronil	•	100.00	105.00	60 - 140
Flonicamid	•	100.00	91.82	60 - 140
Fludioxonil	•	100.00	97.56	60 - 140
Hexythiazox	•	100.00	104.80	60 - 140
Imazalil	•	100.00	110.98	60 - 140
Imidacloprid	•	100.00	106.45	60 - 140
Kresoxim-methyl	•	100.00	94.07	60 - 140

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Report: Quality Check

Pesticide Analysis

Quality Control Detail

Pesticide Name	LCS	Expected Recovery (%)	Actual Recovery (%)	Pass Criteria (%)
Malathion	•	100.00	109.65	60 - 140
Metalaxyl	•	100.00	106.74	60 - 140
Methiocarb	•	100.00	103.78	60 - 140
Methomyl	•	100.00	97.59	60 - 140
Methyl-Parathion	•	100.00	76.42	60 - 140
MGK-264 I	•	100.00	105.93	60 - 140
MGK-264 II	•	100.00	97.93	60 - 140
Myclobutanil	•	100.00	106.62	60 - 140
Naled	•	100.00	105.19	60 - 140
Oxamyl	•	100.00	100.82	60 - 140
Paclobutrazol	•	100.00	105.31	60 - 140
Permethrin - trans	•	100.00	79.54	60 - 140
Permethrin - cis	•	100.00	85.51	60 - 140
Phosmet	•	100.00	107.76	60 - 140
Piperonyl butoxide	•	100.00	102.52	60 - 140
Prallethrin	•	100.00	106.88	60 - 140
Propiconazole	•	100.00	108.59	60 - 140
Propoxur	•	100.00	102.91	60 - 140
Pyrethrin - Cinerin	•	100.00	106.05	60 - 140
Pyrethrin - Jasmolin	•	100.00	86.15	60 - 140
Pyrethrin - Pyrethrins	•	100.00	104.81	60 - 140
Pyridaben	•	100.00	95.66	60 - 140
Spinosyn A	•	100.00	96.99	60 - 140
Spinosyn D	•	100.00	102.61	60 - 140
Spiromesifen	•	100.00	108.42	60 - 140
Spirotetramat	•	100.00	98.36	60 - 140
Spiroxamine	•	100.00	112.73	60 - 140
Tebuconazole	•	100.00	105.62	60 - 140
Thiacloprid	•	100.00	109.73	60 - 140
Thiamethoxam	•	100.00	104.80	60 - 140
Trifloxystrobin	•	100.00	103.31	61 - 140

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/kg 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

A5332-03

FREE Labs

010-10087092BDA

Sample ID: P211072-03 METRC Batch #:

Matrix: Extract/Concentrate

Date Sampled: 12/03/21 14:00

Date Accepted: 12/03/21

Batch ID:

Batch Size:

Sampling Method/SOP: SOP.T.20.010

Residual Solvents

Analyte	LOQ	Action Level	Result	Units
Butanes	2500	5000 ³	< LOQ	ppm
n-Butane	1250	5000	< LOQ	ppm
iso-Butane	1250	5000	< LOQ	ppm
Hexanes	145	290 ⁴	< LOQ	ppm
n-Hexane	145	290	< LOQ	ppm
2-Methylpentane	145	290	< LOQ	ppm
3-Methylpentane	145	290	< LOQ	ppm
2,2-Dimethylbutane	145	290	< LOQ	ppm
2,3-Dimethylbutane	145	290	< LOQ	ppm
Pentanes	2500	5000 ⁵	< LOQ	ppm
n-Pentane	833.33	5000	< LOQ	ppm
iso-Pentane	833.33	5000	< LOQ	ppm
Neopentane	833.33	5000	< LOQ	ppm
Xylenes	1085	2170	< LOQ	ppm
1,2-Dimethylbenzene	271.25	2170	< LOQ	ppm
1,3-Dimethylbenzene	271.25	2170	< LOQ	ppm
1,4-Dimethylbenzene	271.25	2170	< LOQ	ppm
Xylenes MP	1085	2170	< LOQ	ppm
Ethyl benzene	271.25	NA	< LOQ	ppm
2-Propanol (IPA)	2500	5000	< LOQ	ppm
Acetone	2500	5000	< LOQ	ppm
Acetonitrile	205	410	< LOQ	ppm
Benzene	1	2	< LOQ	ppm
Methanol	1500	3000	< LOQ	ppm
Propane	2500	5000	< LOQ	ppm
Toluene	445	890	< LOQ	ppm
Dichloromethane	300	600	< LOQ	ppm
1,4-Dioxane	190	380	< LOQ	ppm
2-Butanol	2500	5000	< LOQ	ppm
2-Ethoxyethanol	80	160	< LOQ	ppm
Cumene	35	70	< LOQ	ppm
Cyclohexane	1940	3880	< LOQ	ppm
Ethyl acetate	2500	5000	< LOQ	ppm
Ethyl ether	2500	5000	< LOQ	ppm
Ethylene glycol	310	620	< LOQ	ppm
Ethylene oxide	25	50	< LOQ	ppm
Heptane	2500	5000	< LOQ	ppm
Isopropyl acetate	2500	5000	< LOQ	ppm
Tetrahydrofuran	360	720	< LOQ	ppm
Ethanol	500	NA ⁷	< LOQ	ppm

Date/Time Extracted: 12/06/21 17:15

Date/Time Analyzed: 12/07/21 14:28

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 - 12/7/2021


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Quality Control

Batch: P21L028 - SOP.T.40.031 Solvents

Blank(P21L028-BLK1)			Extracted: 12/06/21 17:15		Analyzed: 12/07/21 14:28		
Analyte	Result	LOQ	Recovery Limits	Analyte	Result	LOQ	Recovery Limits
Butanes	< LOQ	2500 (ppm)	< LOQ	n-Butane	< LOQ	1250 (ppm)	< LOQ
iso-Butane	< LOQ	1250 (ppm)	< LOQ	Hexanes	< LOQ	145 (ppm)	< LOQ
n-Hexane	< LOQ	145 (ppm)	< LOQ	2-Methylpentane	< LOQ	145 (ppm)	< LOQ
3-Methylpentane	< LOQ	145 (ppm)	< LOQ	2,2-Dimethylbutane	< LOQ	145 (ppm)	< LOQ
2,3-Dimethylbutane	< LOQ	145 (ppm)	< LOQ	Pentanes	< LOQ	2500 (ppm)	< LOQ
n-Pentane	< LOQ	833.33 (ppm)	< LOQ	iso-Pentane	< LOQ	833.33 (ppm)	< LOQ
Neopentane	< LOQ	833.33 (ppm)	< LOQ	Xylenes	< LOQ	1085 (ppm)	< LOQ
1,2-Dimethylbenzene	< LOQ	271.25 (ppm)	< LOQ	1,3-Dimethylbenzene	< LOQ	271.25 (ppm)	< LOQ
1,4-Dimethylbenzene	< LOQ	271.25 (ppm)	< LOQ	Xylenes MP	< LOQ	1085 (ppm)	< LOQ
Ethyl benzene	< LOQ	271.25 (ppm)	< LOQ	2-Propanol (IPA)	< LOQ	2500 (ppm)	< LOQ
Acetone	< LOQ	2500 (ppm)	< LOQ	Acetonitrile	< LOQ	205 (ppm)	< LOQ
Benzene	< LOQ	1 (ppm)	< LOQ	Methanol	< LOQ	1500 (ppm)	< LOQ
Propane	< LOQ	2500 (ppm)	< LOQ	Toluene	< LOQ	445 (ppm)	< LOQ
Dichloromethane	< LOQ	300 (ppm)	< LOQ	1,4-Dioxane	< LOQ	190 (ppm)	< LOQ
2-Butanol	< LOQ	2500 (ppm)	< LOQ	2-Ethoxyethanol	< LOQ	80 (ppm)	< LOQ
Cumene	< LOQ	35 (ppm)	< LOQ	Cyclohexane	< LOQ	1940 (ppm)	< LOQ
Ethyl acetate	< LOQ	2500 (ppm)	< LOQ	Ethyl ether	< LOQ	2500 (ppm)	< LOQ
Ethylene glycol	< LOQ	310 (ppm)	< LOQ	Ethylene oxide	< LOQ	25 (ppm)	< LOQ
Heptane	< LOQ	2500 (ppm)	< LOQ	Isopropyl acetate	< LOQ	2500 (ppm)	< LOQ
Tetrahydrofuran	< LOQ	360 (ppm)	< LOQ	Ethanol	< LOQ	500 (ppm)	< LOQ

LCS(P21L028-BS1)			Extracted: 12/06/21 17:15		Analyzed: 12/07/21 14:28		
Analyte	% Recovery	LOQ	Recovery Limits	Analyte	% Recovery	LOQ	Recovery Limits
Butanes	46.0	(ppm)	0-200	n-Butane	53.0	(ppm)	50-150
iso-Butane	39.0	(ppm)	50-150	Hexanes	95.0	(ppm)	0-200
n-Hexane	99.4	(ppm)	70-130	2-Methylpentane	96.8	(ppm)	70-130
3-Methylpentane	97.3	(ppm)	70-130	2,2-Dimethylbutane	95.5	(ppm)	70-130
2,3-Dimethylbutane	90.2	(ppm)	70-130	Pentanes	99.5	(ppm)	0-200
n-Pentane	84.3	(ppm)	70-130	iso-Pentane	75.3	(ppm)	70-130
Neopentane	85.2	(ppm)	50-150	Xylenes	93.8	(ppm)	0-200
1,2-Dimethylbenzene	94.0	(ppm)	70-130	1,3-Dimethylbenzene	94.7	(ppm)	70-130
1,4-Dimethylbenzene	94.7	(ppm)	70-130	Xylenes MP	94.1	(ppm)	0-200
Ethyl benzene	96.5	(ppm)	70-130	2-Propanol (IPA)	98.0	(ppm)	70-130
Acetone	88.9	(ppm)	70-130	Acetonitrile	104	(ppm)	70-130
Benzene	111	(ppm)	70-130	Methanol	106	(ppm)	70-130
Propane	46.5	(ppm)	50-150	Toluene	102	(ppm)	70-130
Dichloromethane	108	(ppm)	70-130	1,4-Dioxane	106	(ppm)	70-130


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Quality Control

Batch: P21L028 - SOP.T.40.031 Solvents (Continued)

LCS(P21L028-BS1)			Extracted: 12/06/21 17:15		Analyzed: 12/07/21 14:28		
Analyte	% Recovery	LOQ	Recovery Limits	Analyte	% Recovery	LOQ	Recovery Limits
2-Butanol	98.4	(ppm)	70-130	2-Ethoxyethanol	96.2	(ppm)	70-130
Cumene	101	(ppm)	50-150	Cyclohexane	102	(ppm)	70-130
Ethyl acetate	95.3	(ppm)	70-130	Ethyl ether	98.8	(ppm)	70-130
Ethylene glycol	85.3	(ppm)	50-150	Ethylene oxide	79.1	(ppm)	50-150
Heptane	101	(ppm)	70-130	Isopropyl acetate	104	(ppm)	70-130
Tetrahydrofuran	96.0	(ppm)	70-130				



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