

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

Product Name: **CBD Isolate**

Matrix: Hemp Concentrate

Metrc Source ID: n/a

Metrc Package ID: n/a

License Number: n/a

Date Collected: 2/8

Date Received: 2/8

Report Date: 2021-02-10

Report ID: A3049-01

Tests Requested: Cannabinoid Potency Analysis
Pesticide Analysis
Residual Solvent Analysis

2.8.21 Batch #CBD010

Evaluation Summary

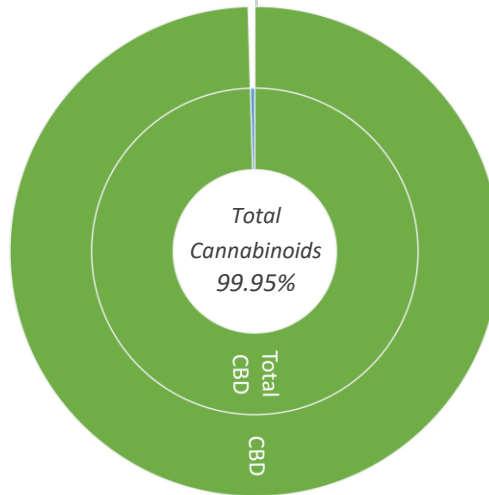
Moisture Analysis

Test Not Required

Cannabinoid Potency Analysis

Total THC *
< LOQ

Total CBD *
99.51 %
995.1 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	99.51 %	995.1 mg/g
CBGA	< LOQ	< LOQ
CBG	< LOQ	< LOQ
CBDVA	< LOQ	< LOQ
CBDV	0.44 %	4.4 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: Evaluation Detail

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Moisture Analysis	Evaluation Detail						
	Moisture Analysis		Test Not Requested/Required				
Cannabinoid Potency Analysis	Evaluation Detail						
Product Name: CBD010	Cannabinoid Potency Analysis		Compound	Abrv.	Dry Wt. (%)	Dry Wt. (mg/g)	RL (%)
Analysis Date: 2021-02-09	Total THC *	Tetrahydro-cannabinolic acid	THCA	< LOQ	< LOQ	0.2 %	
Testing Batch ID: V1094,1093,1092,1091,1090,1088	< 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 %	
Testing Method: LSOP #303 Cannabinoid Quantification	Total CBD *	Tetrahydrocannabivarin	THCV	< LOQ	< LOQ	0.2 %	
Testing Method: LSOP #303 Cannabinoid Quantification	99.51 %	Cannabidiolic acid	CBDA	< LOQ	< LOQ	0.2 %	
Testing Method: LSOP #303 Cannabinoid Quantification	995.1 mg/g	Cannabidiol	CBD	99.51 %	995.1	0.2 %	
Testing Method: LSOP #303 Cannabinoid Quantification	995.1 mg/g	Cannabigerolic acid	CBGA	< LOQ	< LOQ	0.2 %	
Testing Method: LSOP #303 Cannabinoid Quantification	995.1 mg/g	Cannabigerol	CBG	< LOQ	< LOQ	0.2 %	
Testing Method: LSOP #303 Cannabinoid Quantification	995.1 mg/g	Cannabidivarinic acid	CBDVA	< LOQ	< LOQ	0.2 %	
Testing Method: LSOP #303 Cannabinoid Quantification	995.1 mg/g	Cannabidivarin	CBDV	0.44 %	4.4	0.2 %	
Testing Method: LSOP #303 Cannabinoid Quantification	995.1 mg/g	Cannabinol	CBN	< LOQ	< LOQ	0.2 %	
Testing Method: LSOP #303 Cannabinoid Quantification	995.1 mg/g	Cannabicyclol	CBL	< LOQ	< LOQ	0.2 %	
Testing Method: LSOP #303 Cannabinoid Quantification	995.1 mg/g	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: **CBD010**

Analysis Date: 2021-02-09

Testing Batch ID: V1093,1092,1091,1090

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	0.04	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

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Moisture Analysis	Quality Control Detail						
	Moisture Analysis						
Cannabinoid Potency Analysis	Quality Control Detail						
Analysis Date: 2021-02-09	Cannabinoid Potency Analysis		MB	LCS	Expected Value (%)	Tested Value (%)	Pass Criteria
Testing Batch ID: V1094,1093,1092,1091,1090,1088	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%	107.5%	80-120%
	Delta9 Tetrahydro-cannabinol		●		100.0%	100.1%	80-120%
	Cannabidiolic acid		●		100.0%	106.7%	80-120%
	Cannabidiol		●		100.0%	89.4%	80-120%

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Analysis Date: 2021-02-09

Testing Batch ID: V1093,1092,1091,1090

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 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	< 0.02	< 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	0.923	0.6 - 1.4
Acephate	•	1.00	1.012	0.6 - 1.4
Acequinocyl	•	1.00	0.976	0.6 - 1.4
Acetamiprid	•	1.00	1.075	0.6 - 1.4
Aldicarb	•	1.00	1.042	0.6 - 1.4
Azoxystrobin	•	1.00	1.026	0.6 - 1.4
Bifenazate	•	1.00	1.091	0.6 - 1.4
Bifenthrin	•	1.00	1.009	0.6 - 1.4
Boscalid	•	1.00	0.983	0.6 - 1.4
Carbaryl	•	1.00	1.026	0.6 - 1.4
Carbofuran	•	1.00	1.042	0.6 - 1.4
Chlorantraniliprole	•	1.00	1.033	0.6 - 1.4
Chlorfenapyr	•	1.00	1.123	0.6 - 1.4
Chlorpyrifos	•	1.00	1.051	0.6 - 1.4
Clofentezine	•	1.00	1.039	0.6 - 1.4
Cyfluthrin	•	1.00	1.057	0.6 - 1.4
Cypermethrin	•	1.00	1.007	0.6 - 1.4
Daminozide	•	1.00	0.975	0.6 - 1.4
Diazinon	•	1.00	1.024	0.6 - 1.4
Dichlorvos	•	1.00	1.016	0.6 - 1.4
Dimethoate	•	1.00	1.039	0.6 - 1.4
Ethoprophos	•	1.00	1.037	0.6 - 1.4
Etofenprox	•	1.00	1.032	0.6 - 1.4
Etoxazole	•	1.00	1.095	0.6 - 1.4
Fenoxycarb	•	1.00	1.049	0.6 - 1.4
Fenpyroximate	•	1.00	1.024	0.6 - 1.4
Fipronil	•	1.00	1.008	0.6 - 1.4
Flonicamid	•	1.00	1.022	0.6 - 1.4
Fludioxonil	•	1.00	1.010	0.6 - 1.4
Hexythiazox	•	1.00	1.004	0.6 - 1.4
Imazalil	•	1.00	0.947	0.6 - 1.4
Imidacloprid	•	1.00	0.985	0.6 - 1.4
Kresoxim-methyl	•	1.00	1.063	0.6 - 1.4

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Quality Control Detail

Pesticide Name	LCS	Expected Value (ppm)	Tested Value (ppm)	Pass Criteria (ppm)
Malathion	•	1.00	1.076	0.6 - 1.4
Metalaxyl	•	1.00	1.057	0.6 - 1.4
Methiocarb	•	1.00	1.039	0.6 - 1.4
Methomyl	•	1.00	1.014	0.6 - 1.4
Methyl-Parathion	•	1.00	0.879	0.6 - 1.4
MGK-264 I	•	1.00	1.091	0.6 - 1.4
MGK-264 II	•	1.00	0.969	0.6 - 1.4
Myclobutanil	•	1.00	1.026	0.6 - 1.4
Naled	•	1.00	1.067	0.6 - 1.4
Oxamyl	•	1.00	1.071	0.6 - 1.4
Paclobutrazol	•	1.00	1.036	0.6 - 1.4
Permethrin - trans	•	1.00	1.100	0.6 - 1.4
Permethrin - cis	•	1.00	1.018	0.6 - 1.4
Phosmet	•	1.00	1.059	0.6 - 1.4
Piperonyl butoxide	•	1.00	1.062	0.6 - 1.4
Prallethrin	•	1.00	1.007	0.6 - 1.4
Propiconazole	•	1.00	1.044	0.6 - 1.4
Propoxur	•	1.00	1.030	0.6 - 1.4
Pyrethrin - Cinerin	•	1.00	0.934	0.6 - 1.4
Pyrethrin - Pyrethrins/Jasmolin	•	1.00	1.044	0.6 - 1.4
Pyridaben	•	1.00	0.982	0.6 - 1.4
Spinosyn A	•	1.00	0.956	0.6 - 1.4
Spinosyn D	•	1.00	1.048	0.6 - 1.4
Spiromesifen	•	1.00	1.075	0.6 - 1.4
Spirotetramat	•	1.00	1.143	0.6 - 1.4
Spiroxamine	•	1.00	1.038	0.6 - 1.4
Tebuconazole	•	1.00	1.020	0.6 - 1.4
Thiacloprid	•	1.00	1.086	0.6 - 1.4
Thiamethoxam	•	1.00	0.976	0.6 - 1.4
Trifloxystrobin	•	1.00	1.042	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

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

A3049-01

010-10087092BDA

Sample ID: P210138-01 METRC Batch #:

Matrix: Extract/Concentrate

Date Sampled: 02/08/21 09:00

Date Accepted: 02/08/21

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
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
Water	NA	TIC	NA	

Date/Time Extracted: 02/09/21 12:06

Date/Time Analyzed: 02/10/21 10:11

Analysis Method/SOP: SOP.T.40.031

3 - Total butanes are calculated as sum of n-butaness (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 - 2/10/2021

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

Quality Control

Batch: P21B025 - SOP.T.40.031 Solvents

Blank(P21B025-BLK1)			Extracted: 02/09/21 12:06		Analyzed: 02/10/21 10:11		
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(P21B025-BS1)			Extracted: 02/09/21 12:06		Analyzed: 02/10/21 10:11		
Analyte	% Recovery	LOQ	Recovery Limits	Analyte	% Recovery	LOQ	Recovery Limits
Butanes	56.7	(ppm)	0-200	n-Butane	63.4	(ppm)	50-150
iso-Butane	50.0	(ppm)	50-150	Hexanes	83.9	(ppm)	0-200
n-Hexane	86.0	(ppm)	70-130	2-Methylpentane	82.8	(ppm)	70-130
3-Methylpentane	83.8	(ppm)	70-130	2,2-Dimethylbutane	87.2	(ppm)	70-130
2,3-Dimethylbutane	79.7	(ppm)	70-130	Pentanes	99.6	(ppm)	0-200
n-Pentane	85.9	(ppm)	70-130	iso-Pentane	81.6	(ppm)	70-130
Neopentane	70.5	(ppm)	50-150	Xylenes	71.1	(ppm)	0-200
1,2-Dimethylbenzene	72.0	(ppm)	70-130	1,3-Dimethylbenzene	70.0	(ppm)	70-130
1,4-Dimethylbenzene	71.4	(ppm)	70-130	Xylenes MP	71.2	(ppm)	0-200
Ethyl benzene	72.6	(ppm)	70-130	2-Propanol (IPA)	80.9	(ppm)	70-130
Acetone	79.3	(ppm)	70-130	Acetonitrile	79.6	(ppm)	70-130
Benzene	69.8	(ppm)	70-130	Methanol	88.8	(ppm)	70-130
Propane	55.8	(ppm)	50-150	Toluene	77.8	(ppm)	70-130
Dichloromethane	79.7	(ppm)	70-130	1,4-Dioxane	78.9	(ppm)	70-130



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Quality Control

Batch: P21B025 - SOP.T.40.031 Solvents (Continued)

LCS(P21B025-BS1)			Extracted: 02/09/21 12:06		Analyzed: 02/10/21 10:11		
Analyte	% Recovery	LOQ	Recovery Limits	Analyte	% Recovery	LOQ	Recovery Limits
2-Butanol	81.8	(ppm)	70-130	2-Ethoxyethanol	92.0	(ppm)	70-130
Cumene	73.1	(ppm)	50-150	Cyclohexane	82.7	(ppm)	70-130
Ethyl acetate	81.3	(ppm)	70-130	Ethyl ether	86.5	(ppm)	70-130
Ethylene glycol	118	(ppm)	70-130	Ethylene oxide	79.6	(ppm)	50-150
Heptane	80.3	(ppm)	70-130	Isopropyl acetate	83.8	(ppm)	70-130
Tetrahydrofuran	80.6	(ppm)	70-130				



Kawai Medeiros
 Laboratory Manager - 2/10/2021