

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: **8.26.20 CBN.ISO Batch #5 Prim**

Process Lot: Batch #5

Matrix: Hemp Concentrate

Metric Source ID: n/a

Metric Package ID: n/a

License Number: n/a

Report ID: A2033-05

Date Collected: 2020-08-26

Date Received: 2020-08-26

Report Date: 2020-08-31

Tests Requested: Cannabinoid Potency Analysis
Pesticide Analysis
Residual Solvent Analysis

Evaluation Summary

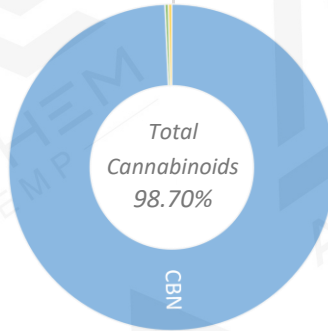
Moisture Analysis | Test Not Required

Cannabinoid Potency Analysis

Total THC * **Total CBD ***

< LOQ < LOQ

< LOQ < LOQ



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	< LOQ	< LOQ
CBGA	0.34 %	3.4 mg/g
CBG	0.13 %	1.3 mg/g
CBDVA	0.21 %	2.1 mg/g
CBDV	< LOQ	< LOQ
CBN	98.02 %	980.2 mg/g
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...

Anthem Hemp

18253 Gothard St. Huntington Beach, CA 92648

This report presents the analytical findings for the sample collected on 2020-08-26 by Chelsea Thomas using sampling plan A2033 and received by PREE Laboratory on 2020-08-26. The sample was assigned a laboratory ID of A2033-05. The results in this report only apply to sample A2033-05.

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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 initial calibration verification did not meet acceptance criteria for the following analytes: Pyrethrins, Chlorantraniliprole



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: **8.26.20 CBN.ISO Batch #5 Prim**

Analysis Date: 2020-08-29

Testing Batch ID: V769,765

Testing Method: LSOP #303 Cannabinoid Quantification

Cannabinoid Potency Analysis	Compound	Abv.	Dry Wt. (%)	Dry Wt. (mg/g)	RL (%)
Total THC *	Tetrahydro-cannabinolic acid	THCA	< LOQ	< LOQ	0.1 %
< LOQ	Delta9 Tetrahydro-cannabinol	Δ-9-THC	< LOQ	< LOQ	0.1 %
< LOQ	Delta8 Tetrahydro-cannabinol	Δ-8-THC	< LOQ	< LOQ	0.1 %
	Tetrahydrocannabivarin	THCV	< LOQ	< LOQ	0.1 %
Total CBD *	Cannabidiolic acid	CBDA	< LOQ	< LOQ	0.1 %
< LOQ	Cannabidiol	CBD	< LOQ	< LOQ	0.1 %
< LOQ	Cannabigerolic acid	CBGA	0.34 %	3.4	0.1 %
	Cannabigerol	CBG	0.13 %	1.3	0.1 %
	Cannabidivarinic acid	CBDVA	0.21 %	2.1	0.1 %
	Cannabidivarin	CBDV	< LOQ	< LOQ	0.1 %
	Cannabinol	CBN	98.02 %	980.2	0.1 %
	Cannabicyclol	CBL	< LOQ	< LOQ	0.1 %
	Cannabichromene	CBC	< LOQ	< LOQ	0.1 %

Note: Accreditation for Δ-8-THC, THCV, CBGA, CBG, CBDVA, CBDV, CBL, CBC 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: **8.26.20 CBN.ISO Batch #5 Prim**

Analysis Date: 2020-08-29

Testing Batch ID: V769,768,767,766,765,764,761

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	0.10	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	0.04	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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Moisture Analysis

Quality Control Detail

Moisture Analysis |

Cannabinoid Potency Analysis

Quality Control Detail

Analysis Date: 2020-08-29

Testing Batch ID: V769,765

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%
Cannabinol	○		< 0.1%	< 0.1%	< 0.1%
Tetrahydro-cannabinolic acid		●	100.0%	91.5%	80-120%
Delta9 Tetrahydro-cannabinol		●	100.0%	93.9%	80-120%
Cannabidiolic acid		●	100.0%	93.2%	80-120%
Cannabidiol		●	100.0%	92.5%	80-120%
Cannabinol		●	100.0%	87.8%	80-120%

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Pesticide Analysis

Analysis Date: 2020-08-29

Testing Batch ID: V769,768,767,766,765,764,761

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	< 0.04	< 0.04	< 0.04
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	< 0.02	< 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	< 0.02	< 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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Report: Quality Check

Pesticide Analysis

Quality Control Detail

Pesticide Name	LCS	Expected Value (ppm)	Tested Value (ppm)	Pass Criteria (ppm)
Abamectin	•	1.00	0.879	0.6 - 1.4
Acephate	•	1.00	0.961	0.6 - 1.4
Acequinocyl	•	1.00	0.831	0.6 - 1.4
Acetamiprid	•	1.00	0.996	0.6 - 1.4
Aldicarb	•	1.00	0.956	0.6 - 1.4
Azoxystrobin	•	1.00	0.948	0.6 - 1.4
Bifenazate	•	1.00	0.864	0.6 - 1.4
Bifenthrin	•	1.00	0.945	0.6 - 1.4
Boscalid	•	1.00	1.002	0.6 - 1.4
Carbaryl	•	1.00	0.990	0.6 - 1.4
Carbofuran	•	1.00	1.014	0.6 - 1.4
Chlorantraniliprole	•	1.00	0.939	0.6 - 1.4
Chlorfenapyr	•	1.00	0.951	0.6 - 1.4
Chlorpyrifos	•	1.00	1.074	0.6 - 1.4
Clofentezine	•	1.00	0.949	0.6 - 1.4
Cyfluthrin	•	1.00	0.955	0.6 - 1.4
Cypermethrin	•	1.00	0.974	0.6 - 1.4
Daminozide	•	1.00	0.962	0.6 - 1.4
Diazinon	•	1.00	0.940	0.6 - 1.4
Dichlorvos	•	1.00	1.025	0.6 - 1.4
Dimethoate	•	1.00	1.064	0.6 - 1.4
Ethoprophos	•	1.00	0.967	0.6 - 1.4
Etofenprox	•	1.00	0.921	0.6 - 1.4
Etoxazole	•	1.00	1.008	0.6 - 1.4
Fenoxycarb	•	1.00	0.992	0.6 - 1.4
Fenpyroximate	•	1.00	1.009	0.6 - 1.4
Fipronil	•	1.00	0.606	0.6 - 1.4
Flonicamid	•	1.00	0.988	0.6 - 1.4
Fludioxonil	•	1.00	1.010	0.6 - 1.4
Hexythiazox	•	1.00	0.985	0.6 - 1.4
Imazalil	•	1.00	0.986	0.6 - 1.4
Imidacloprid	•	1.00	0.997	0.6 - 1.4
Kresoxim-methyl	•	1.00	0.921	0.6 - 1.4

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Report: Quality Check

Pesticide Analysis

Quality Control Detail

Pesticide Name	LCS	Expected Value (ppm)	Tested Value (ppm)	Pass Criteria (ppm)
Malathion	•	1.00	1.043	0.6 - 1.4
Metalaxyl	•	1.00	0.921	0.6 - 1.4
Methiocarb	•	1.00	1.003	0.6 - 1.4
Methomyl	•	1.00	0.892	0.6 - 1.4
Methyl-Parathion	•	1.00	0.872	0.6 - 1.4
MGK-264 I	•	1.00	0.874	0.6 - 1.4
MGK-264 II	•	1.00	0.852	0.6 - 1.4
Myclobutanil	•	1.00	0.990	0.6 - 1.4
Naled	•	1.00	0.928	0.6 - 1.4
Oxamyl	•	1.00	0.943	0.6 - 1.4
Paclobutrazol	•	1.00	1.016	0.6 - 1.4
Permethrin - trans	•	1.00	0.935	0.6 - 1.4
Permethrin - cis	•	1.00	0.946	0.6 - 1.4
Phosmet	•	1.00	0.989	0.6 - 1.4
Piperonyl butoxide	•	1.00	0.990	0.6 - 1.4
Prallethrin	•	1.00	0.933	0.6 - 1.4
Propiconazole	•	1.00	0.932	0.6 - 1.4
Propoxur	•	1.00	0.996	0.6 - 1.4
Pyrethrin - Cinerin	•	1.00	0.927	0.6 - 1.4
Pyrethrin - Pyrethrins/Jasmolin	•	1.00	0.919	0.6 - 1.4
Pyridaben	•	1.00	0.934	0.6 - 1.4
Spinosyn A	•	1.00	1.002	0.6 - 1.4
Spinosyn D	•	1.00	1.045	0.6 - 1.4
Spiromesifen	•	1.00	1.029	0.6 - 1.4
Spirotetramat	•	1.00	0.940	0.6 - 1.4
Spiroxamine	•	1.00	0.991	0.6 - 1.4
Tebuconazole	•	1.00	0.972	0.6 - 1.4
Thiacloprid	•	1.00	1.040	0.6 - 1.4
Thiamethoxam	•	1.00	1.053	0.6 - 1.4
Trifloxystrobin	•	1.00	1.019	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 :
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

A2033-05

FREE Labs

010-10087092BDA

Sample ID: P200792-05 METRC Batch #:

Matrix: Extract/Concentrate

Date Sampled: 08/26/20 13:40

Date Accepted: 08/26/20

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

Date/Time Extracted: 08/26/20 13:49

Date/Time Analyzed: 08/27/20 10:29

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 - 8/27/2020

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

Batch: P20H138 - SOP.T.40.031 Solvents

Blank(P20H138-BLK1)			Extracted: 08/26/20 13:49	Analyzed: 08/27/20 10:29			
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(P20H138-BS1)			Extracted: 08/26/20 13:49	Analyzed: 08/27/20 10:29			
Analyte	% Recovery	LOQ	Recovery Limits	Analyte	% Recovery	LOQ	Recovery Limits
Butanes	65.8	(ppm)	0-200	n-Butane	68.0	(ppm)	50-150
iso-Butane	63.6	(ppm)	50-150	Hexanes	98.9	(ppm)	0-200
n-Hexane	96.6	(ppm)	70-130	2-Methylpentane	102	(ppm)	70-130
3-Methylpentane	101	(ppm)	70-130	2,2-Dimethylbutane	99.2	(ppm)	70-130
2,3-Dimethylbutane	102	(ppm)	70-130	Pentanes	108	(ppm)	0-200
n-Pentane	99.2	(ppm)	70-130	iso-Pentane	100	(ppm)	70-130
Neopentane	79.6	(ppm)	50-150	Xylenes	78.6	(ppm)	0-200
1,2-Dimethylbenzene	77.5	(ppm)	70-130	1,3-Dimethylbenzene	78.3	(ppm)	70-130
1,4-Dimethylbenzene	78.9	(ppm)	70-130	Xylenes MP	78.3	(ppm)	0-200
Ethyl benzene	80.1	(ppm)	70-130	2-Propanol (IPA)	95.3	(ppm)	70-130
Acetone	98.0	(ppm)	70-130	Acetonitrile	94.9	(ppm)	70-130
Benzene	81.1	(ppm)	70-130	Methanol	98.4	(ppm)	70-130
Propane	50.0	(ppm)	50-150	Toluene	89.4	(ppm)	70-130
Dichloromethane	92.4	(ppm)	70-130	1,4-Dioxane	90.8	(ppm)	70-130


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Quality Control

Batch: P20H138 - SOP.T.40.031 Solvents (Continued)

LCS(P20H138-BS1)			Extracted: 08/26/20 13:49		Analyzed: 08/27/20 10:29		
Analyte	% Recovery	LOQ	Recovery Limits	Analyte	% Recovery	LOQ	Recovery Limits
2-Butanol	94.9	(ppm)	70-130	2-Ethoxyethanol	90.5	(ppm)	70-130
Cumene	78.7	(ppm)	50-150	Cyclohexane	95.8	(ppm)	70-130
Ethyl acetate	97.6	(ppm)	70-130	Ethyl ether	100	(ppm)	70-130
Ethylene glycol	105	(ppm)	70-130	Ethylene oxide	97.4	(ppm)	50-150
Heptane	96.6	(ppm)	70-130	Isopropyl acetate	98.7	(ppm)	70-130
Tetrahydrofuran	93.8	(ppm)	70-130				



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