

Report: Case Narrative

This report presents the analytical findings for the sample collected on 2021-08-12 by using sampling plan A4359 and received by PREE Laboratory on 2021-08-12. The sample was assigned a laboratory ID of A4359-02. The results in this report only apply to sample A4359-02.

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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:

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.

Moisture Analysis	Evaluation Detail								
	Moisture Analysis			Test Not Requested/Required					
Cannabinoid Potency Analysis	Evaluation Detail								
	Product Name: 08.12.21 - CBD-Isolate B#8419 - Dup								
	Cannabinoid Potency Analysis			Compound	Abrv.	Dry Wt. (%)	Dry Wt. (mg/g)	RL (%)	
	Analysis Date: 2021-08-16								
	Testing Batch ID: V1648,1647,1645,1644,1643,1642,1641,1640								
	Testing Method: LSOP #303 Cannabinoid Quantification								
	Total THC *			Tetrahydro-cannabinolic acid	THCA	< LOQ	< LOQ	0.2 %	
	< LOQ			Delta9 Tetrahydro-cannabinol	Δ-9-THC	< LOQ	< LOQ	0.2 %	
	< LOQ			Delta8 Tetrahydro-cannabinol	Δ-8-THC	< LOQ	< LOQ	0.2 %	
				Tetrahydrocannabivarin	THCV	< LOQ	< LOQ	0.2 %	
	Total CBD *			Cannabidiolic acid	CBDA	< LOQ	< LOQ	0.2 %	
	99.10 %			Cannabidiol	CBD	99.10 %	991.0	0.2 %	
	991.0 mg/g			Cannabigerolic acid	CBGA	< LOQ	< LOQ	0.2 %	
				Cannabigerol	CBG	< LOQ	< LOQ	0.2 %	
				Cannabidivarinic acid	CBDVA	< LOQ	< LOQ	0.2 %	
				Cannabidivarin	CBDV	0.43 %	4.3	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.									

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

Report: Evaluation Detail



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For OLCC/OHA Compliance Purposes.

Pesticide Analysis		Evaluation Detail				
Product Name:	08.12.21 - CBD-Isolate B#8419 - Dup	Pesticide Name	Tested Value (ppm)	Pass Criteria (ppm)	LOQ (ppm)	Status Pass/Unsatisfactory
Analysis Date:	2021-08-13	Abamectin	< LOQ	0.50	0.20	Pass
Testing Batch ID:	V1643,1642,1640,1639,1638,1527,1526	Acephate	< LOQ	0.40	0.04	Pass
Testing Method:	LSOP #307 Pesticides by LCMS/MS	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

Continued on next page...

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	0.04	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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Moisture Analysis	Quality Control Detail					
	Moisture Analysis					
Cannabinoid Potency Analysis Analysis Date: 2021-08-16 Testing Batch ID: V1648,1647,1645,1644,1643,1642,1641,1640	Quality Control Detail					
	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%	114.2% 80-120%
	Delta9 Tetrahydro-cannabinol			●	100.0%	111.9% 80-120%
	Cannabidiolic acid			●	100.0%	111.6% 80-120%
	Cannabidiol			●	100.0%	112.5% 80-120%

Report: Quality Check



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Pesticide Analysis		Quality Control Detail				
Analysis Date:	2021-08-13					
Testing Batch ID:	V1643,1642,1640,1639,1638,1527,1526					
		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
Continued on next page...						

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	< 0.02	< 0.02	< 0.02
	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	< 0.1	< 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
	Continued on next page...				

Pesticide Analysis	Quality Control Detail				
	Pesticide Name	LCS	Expected Recovery (%)	Actual Recovery (%)	Pass Criteria (%)
	Abamectin	•	100.00	96.63	60 - 140
	Acephate	•	100.00	93.41	60 - 140
	Acequinocyl	•	100.00	108.80	60 - 140
	Acetamiprid	•	100.00	94.36	60 - 140
	Aldicarb	•	100.00	98.27	60 - 140
	Azoxystrobin	•	100.00	98.45	60 - 140
	Bifenazate	•	100.00	113.85	60 - 140
	Bifenthrin	•	100.00	98.23	60 - 140
	Boscalid	•	100.00	96.55	60 - 140
	Carbaryl	•	100.00	92.22	60 - 140
	Carbofuran	•	100.00	100.67	60 - 140
	Chlorantraniliprole	•	100.00	94.77	60 - 140
	Chlorfenapyr	•	100.00	128.21	60 - 140
	Chlorpyrifos	•	100.00	104.32	60 - 140
	Clofentezine	•	100.00	90.22	60 - 140
	Cyfluthrin	•	100.00	89.87	60 - 140
	Cypermethrin	•	100.00	102.97	60 - 140
	Daminozide	•	100.00	87.88	60 - 140
	Diazinon	•	100.00	87.66	60 - 140
	Dichlorvos	•	100.00	100.80	60 - 140
	Dimethoate	•	100.00	101.50	60 - 140
	Ethoprophos	•	100.00	95.11	60 - 140
	Etofenprox	•	100.00	94.40	60 - 140
	Etoxazole	•	100.00	113.21	60 - 140
	Fenoxycarb	•	100.00	93.79	60 - 140
	Fenpyroximate	•	100.00	88.87	60 - 140
	Fipronil	•	100.00	107.74	60 - 140
	Flonicamid	•	100.00	101.47	60 - 140
	Fludioxonil	•	100.00	85.73	60 - 140
	Hexythiazox	•	100.00	93.70	60 - 140
	Imazalil	•	100.00	90.62	60 - 140
	Imidacloprid	•	100.00	95.31	60 - 140
	Kresoxim-methyl	•	100.00	92.88	60 - 140
Continued on next page...					

Pesticide Analysis

Quality Control Detail

Pesticide Name	LCS	Expected Recovery (%)	Actual Recovery (%)	Pass Criteria (%)
Malathion	•	100.00	101.83	60 - 140
Metalaxyl	•	100.00	99.49	60 - 140
Methiocarb	•	100.00	84.09	60 - 140
Methomyl	•	100.00	95.20	60 - 140
Methyl-Parathion	•	100.00	108.10	60 - 140
MGK-264 I	•	100.00	91.27	60 - 140
MGK-264 II	•	100.00	97.25	60 - 140
Myclobutanil	•	100.00	94.21	60 - 140
Naled	•	100.00	102.24	60 - 140
Oxamyl	•	100.00	96.34	60 - 140
Paclobutrazol	•	100.00	98.87	60 - 140
Permethrin - trans	•	100.00	108.66	60 - 140
Permethrin - cis	•	100.00	96.84	60 - 140
Phosmet	•	100.00	104.70	60 - 140
Piperonyl butoxide	•	100.00	108.34	60 - 140
Prallethrin	•	100.00	96.57	60 - 140
Propiconazole	•	100.00	96.00	60 - 140
Propoxur	•	100.00	93.90	60 - 140
Pyrethrin - Cinerin	•	100.00	113.13	60 - 140
Pyrethrin - Jasmolin	•	100.00	101.82	60 - 140
Pyrethrin - Pyrethrins	•	100.00	104.53	60 - 140
Pyridaben	•	100.00	85.02	60 - 140
Spinosyn A	•	100.00	93.81	60 - 140
Spinosyn D	•	100.00	104.74	60 - 140
Spiromesifen	•	100.00	114.57	60 - 140
Spirotetramat	•	100.00	102.57	60 - 140
Spiroxamine	•	100.00	102.38	60 - 140
Tebuconazole	•	100.00	90.40	60 - 140
Thiacloprid	•	100.00	97.18	60 - 140
Thiamethoxam	•	100.00	95.26	60 - 140
Trifloxystrobin	•	100.00	99.53	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 (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.

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A4359-02

FREE Labs

010-10087092BDA

Sample ID: P210729-02

METRC Batch #:

Matrix: Extract/Concentrate

Date Sampled: 08/12/21 09:00

Date Accepted: 08/12/21

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
Ethanol	1400	NA ⁷	< LOQ	ppm
Water	NA	TIC	NA	

Date/Time Extracted: 08/12/21 12:26

Date/Time Analyzed: 08/13/21 10:15

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 - 8/16/2021

Page 1 of 3

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Quality Control

Batch: P21H035 - SOP.T.40.031 Solvents

Blank(P21H035-BLK1)				Extracted: 08/12/21 12:26		Analyzed: 08/13/21 10:15	
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(P21H035-BS1)				Extracted: 08/12/21 12:26		Analyzed: 08/13/21 10:15	
Analyte	% Recovery	LOQ	Recovery Limits	Analyte	% Recovery	LOQ	Recovery Limits
Butanes	63.5	(ppm)	0-200	n-Butane	73.4	(ppm)	50-150
iso-Butane	53.5	(ppm)	50-150	Hexanes	83.1	(ppm)	0-200
n-Hexane	85.3	(ppm)	70-130	2-Methylpentane	83.2	(ppm)	70-130
3-Methylpentane	84.1	(ppm)	70-130	2,2-Dimethylbutane	89.2	(ppm)	70-130
2,3-Dimethylbutane	78.1	(ppm)	70-130	Pentanes	105	(ppm)	0-200
n-Pentane	87.3	(ppm)	70-130	iso-Pentane	78.5	(ppm)	70-130
Neopentane	96.1	(ppm)	50-150	Xylenes	85.4	(ppm)	0-200
1,2-Dimethylbenzene	84.0	(ppm)	70-130	1,3-Dimethylbenzene	87.0	(ppm)	70-130
1,4-Dimethylbenzene	87.2	(ppm)	70-130	Xylenes MP	85.0	(ppm)	0-200
Ethyl benzene	85.5	(ppm)	70-130	2-Propanol (IPA)	93.8	(ppm)	70-130
Acetone	86.3	(ppm)	70-130	Acetonitrile	84.3	(ppm)	70-130
Benzene	85.2	(ppm)	70-130	Methanol	100	(ppm)	70-130
Propane	42.5	(ppm)	50-150	Toluene	88.3	(ppm)	70-130
Dichloromethane	100	(ppm)	70-130	1,4-Dioxane	92.4	(ppm)	70-130



Kawai Medeiros
Laboratory Manager - 8/16/2021

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Quality Control

Batch: P21H035 - SOP.T.40.031 Solvents (Continued)

LCS(P21H035-BS1)				Extracted: 08/12/21 12:26		Analyzed: 08/13/21 10:15	
Analyte	% Recovery	LOQ	Recovery Limits	Analyte	% Recovery	LOQ	Recovery Limits
2-Butanol	93.7	(ppm)	70-130	2-Ethoxyethanol	94.2	(ppm)	70-130
Cumene	97.6	(ppm)	50-150	Cyclohexane	88.3	(ppm)	70-130
Ethyl acetate	85.9	(ppm)	70-130	Ethyl ether	91.5	(ppm)	70-130
Ethylene glycol	83.6	(ppm)	70-130	Ethylene oxide	78.7	(ppm)	50-150
Heptane	86.0	(ppm)	70-130	Isopropyl acetate	90.1	(ppm)	70-130
Tetrahydrofuran	90.2	(ppm)	70-130				



Kawai Medeiros
Laboratory Manager - 8/16/2021