



TEST RESULTS SUMMARY

Please see the following pages for full test results.

Batch Date: 10/27/2021	Batch #: 21-1027-1	NR: Not Reported NA: Not Applicable
Product Name: 6,000 MG CBD Isolate Oil Drops (200mg/ml)		LOQ: Limit Of Quantitation LOD: Limit Of Detection
Expiration Date: 10/27/2023	Batch Size: 448 Units	1 g = 10 ⁻³ kg = 10 ³ mg = 10 ⁶ µg
Testing Lab: Columbia Labs	ORELAP Lab #: OR100028	

POTENCY PASS	Per Serving	Total Percent	Regulatory Action Level
Cannabidiol (CBD)	199 mg	20.8 %	N/A
Total THC (d9-THC + d8-THC)	<LOQ mg	<LOQ %	0.3%
Cannabigerol (CBG)	<LOQ mg	<LOQ %	N/A
Cannabinol (CBN)	<LOQ mg	<LOQ %	N/A
Cannabichromene (CBC)	<LOQ mg	<LOQ %	N/A

HEAVY METALS PASS	Per Serving	Per Gram	Regulatory Action Level
Arsenic	<LOQ µg/serving	<LOQ µg/g	10 µg/day ^[1]
Cadmium	<LOQ µg/serving	<LOQ µg/g	4.1 µg/day ^[1]
Lead	<LOQ µg/serving	<LOQ µg/g	3.5 µg/day ^[2]
Mercury	<LOQ µg/serving	<LOQ µg/g	2 µg/day ^[1]

PESTICIDES PASS	Regulatory Action Level
ZERO of 59 pesticides tested found above limit of detection in the sample.	10 ppb ^[3]

MICROBIAL PASS	Pass/Fail
Aerobic Plate Count	PASS
Ecoli 0157	PASS
Listeria spp.	PASS
Salmonella spp.	PASS
Staphylococcus	PASS
Yeast and Mold	PASS
Mycotoxins	PASS

1. Agency for Toxic Substances & Disease Registry. (2020). "Minimal Risk Levels (MRLs) for Hazardous Substances". Atlanta, GA: ATSDR. <https://www.atsdr.cdc.gov/mrls/mrllist.asp#24tag>

2. US Food and Drug Administration. (2020). "Lead in Food, Foodwares, and Dietary Supplements". Washington DC: FDA. <https://www.fda.gov/food/metals-and-your-food/lead-food-foodwares-and-dietary-supplements>

3. Oregon Department of Agriculture. (2020). "Cannabis and Pesticides". Salem, OR: ODA. <https://www.oregon.gov/ODA/programs/Pesticides/Pages/CannabisPesticides.aspx>



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794



Report Number: 21-012823/D006.R000
Report Date: 11/23/2021
ORELAP#: OR100028
Purchase Order:
Received: 11/01/21 09:24

Customer: Alliant Hemp LLC
Product identity: 200mg/ml Isolate Oil Drops #21-1027-1
Client/Metric ID: .
Laboratory ID: 21-012823-0001

Summary

Potency:

Analyte per 1ml	Result	Limits	Units	Status	
CBD per 1ml	199		mg/1ml		CBD-Total per 1ml 199 mg/1ml
CBDV per 1ml [†]	0.940		mg/1ml		THC-Total per 1ml <LOQ
					(Reported in milligrams per serving)

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

All analytes passing and less than LOQ.

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.



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Customer: Alliant Hemp LLC
Product identity: 200mg/ml Isolate Oil Drops #21-1027-1
Client/Metric ID: .
Sample Date:
Laboratory ID: 21-012823-0001
Evidence of Cooling: No
Temp: 19.5 °C
Relinquished by: UPS
Density: 0.9589 g/ml
Serving Size #1: 0.959 g

Sample Results

Potency per 1ml		Method J AOAC 2015 V98-6 (mod)Units mg/se Batch: 2110114			Analyze: 11/9/21 3:31:00 PM
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1ml [†]	< LOQ		mg/1ml	0.0304	
CBC-A per 1ml [†]	< LOQ		mg/1ml	0.0304	
CBC-Total per 1ml [†]	< LOQ		mg/1ml	0.0571	
CBD per 1ml	199		mg/1ml	3.04	
CBD-A per 1ml	< LOQ		mg/1ml	0.0304	
CBD-Total per 1ml	199		mg/1ml	3.07	
CBDV per 1ml [†]	0.940		mg/1ml	0.0304	
CBDV-A per 1ml [†]	< LOQ		mg/1ml	0.0304	
CBDV-Total per 1ml [†]	0.940		mg/1ml	0.0567	
CBE per 1ml [†]	< LOQ		mg/1ml	0.0304	
CBG per 1ml [†]	< LOQ		mg/1ml	0.0304	
CBG-A per 1ml [†]	< LOQ		mg/1ml	0.0304	
CBG-Total per 1ml [†]	< LOQ		mg/1ml	0.0567	
CBL per 1ml [†]	< LOQ		mg/1ml	0.0304	
CBL-A per 1ml [†]	< LOQ		mg/1ml	0.0304	
CBL-Total per 1ml [†]	< LOQ		mg/1ml	0.0571	
CBN per 1ml	< LOQ		mg/1ml	0.0304	
CBT per 1ml [†]	< LOQ		mg/1ml	0.0304	
Δ8-THCV per 1ml [†]	< LOQ		mg/1ml	0.0304	
Δ8-THC per 1ml [†]	< LOQ		mg/1ml	0.0304	
Δ9-THC per 1ml	< LOQ		mg/1ml	0.0304	
exo-THC per 1ml [†]	< LOQ		mg/1ml	0.0304	
THC-A per 1ml	< LOQ		mg/1ml	0.0304	
THC-Total per 1ml	< LOQ		mg/1ml	0.0571	
THCV per 1ml [†]	< LOQ		mg/1ml	0.0304	
THCV-A per 1ml [†]	< LOQ		mg/1ml	0.0304	
THCV-Total per 1ml [†]	< LOQ		mg/1ml	0.0571	
Total Cannabinoids per 1ml	200		mg/1ml		



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Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
Aerobic Plate Count	< LOQ		cfu/g	10	2110406	11/20/21	AOAC 990.12 (Petrifilm)		X
E.coli	< LOQ		cfu/g	10	2110403	11/20/21	AOAC 991.14 (Petrifilm)		X
Total Coliforms	< LOQ		cfu/g	10	2110403	11/20/21	AOAC 991.14 (Petrifilm)		X
Staphylococcus aureus	< LOQ		cfu/g	10	2110409	11/19/21	AOAC 2003.07		X
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2110404	11/21/21	AOAC 2014.05 (RAPID)		X
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2110404	11/21/21	AOAC 2014.05 (RAPID)		X
E. coli, O157:H7 (by PCR)	Negative		/25g		2110412	11/19/21	AOAC 2019.03		X
Listeria spp.	Negative		/25g		2110411	11/19/21	AOAC 2019.10		X
Salmonella spp. by PCR	Negative		/25g		2110410	11/19/21	AOAC 2020.02		X

Solvents		Method Residual Solvents by GC/MS				Units µg/g	Batch 2110287	Analyze 11/15/21 12:40 PM			
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
1,4-Dioxane	< LOQ	380	100	pass		2-Butanol	< LOQ	5000	200	pass	
2-Ethoxyethanol	< LOQ	160	30.0	pass		2-Methylbutane (Isopentane)	< LOQ		200		
2-Methylpentane	< LOQ		30.0			2-Propanol (IPA)	< LOQ	5000	200	pass	
2,2-Dimethyl butane	< LOQ		30.0			2,2-Dimethylpropane (neo-pentane)	< LOQ		200		
2,3-Dimethyl butane	< LOQ		30.0			3-Methylpentane	< LOQ		30.0		
Acetone	< LOQ	5000	200	pass		Acetonitrile	< LOQ	410	100	pass	
Benzene	< LOQ	2.00	1.00	pass		Butanes (sum)	< LOQ	5000	400	pass	
Cyclohexane	< LOQ	3880	200	pass		Ethyl acetate	< LOQ	5000	200	pass	
Ethyl benzene	< LOQ		200			Ethyl ether	< LOQ	5000	200	pass	
Ethylene glycol	< LOQ	620	200	pass		Ethylene oxide	< LOQ	50.0	20.0	pass	
Hexanes (sum)	< LOQ	290	150	pass		Isopropyl acetate	< LOQ	5000	200	pass	
Isopropyl benzene (Cumene)	< LOQ	70.0	30.0	pass		m,p-Xylene	< LOQ		200		
Methanol	< LOQ	3000	200	pass		Methylene chloride	< LOQ	600	60.0	pass	
Methylpropane (Isobutane)	< LOQ		200			n-Butane	< LOQ		200		
n-Heptane	< LOQ	5000	200	pass		n-Hexane	< LOQ		30.0		
n-Pentane	< LOQ		200			o-Xylene	< LOQ		200		
Pentanes (sum)	< LOQ	5000	600	pass		Propane	< LOQ	5000	200	pass	
Tetrahydrofuran	< LOQ	720	100	pass		Toluene	< LOQ	890	100	pass	
Total Xylenes	< LOQ		400			Total Xylenes and Ethyl benzene	< LOQ	2170	600	pass	



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Pesticides											
Method AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 2110237 Analyze 11/12/21 12:43 PM											
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin	< LOQ	0.50	0.250	pass		Acephate	< LOQ	0.40	0.250	pass	
Acequinocyl	< LOQ	2.0	1.00	pass		Acetamiprid	< LOQ	0.20	0.100	pass	
Aldicarb	< LOQ	0.40	0.200	pass		Azoxystrobin	< LOQ	0.20	0.100	pass	
Bifenazate	< LOQ	0.20	0.100	pass		Bifenthrin	< LOQ	0.20	0.100	pass	
Boscalid	< LOQ	0.40	0.200	pass		Carbaryl	< LOQ	0.20	0.100	pass	
Carbofuran	< LOQ	0.20	0.100	pass		Chlorantraniliprole	< LOQ	0.20	0.100	pass	
Chlorfenapyr	< LOQ	1.0	0.500	pass		Chlorpyrifos	< LOQ	0.20	0.100	pass	
Clofentezine	< LOQ	0.20	0.100	pass		Cyfluthrin	< LOQ	1.0	0.500	pass	
Cypermethrin	< LOQ	1.0	0.500	pass		Daminozide	< LOQ	1.0	0.500	pass	
Diazinon	< LOQ	0.20	0.100	pass		Dichlorvos	< LOQ	1.0	0.500	pass	
Dimethoate	< LOQ	0.20	0.100	pass		Ethoprophos	< LOQ	0.20	0.100	pass	
Etofenprox	< LOQ	0.40	0.200	pass		Etoxazole	< LOQ	0.20	0.100	pass	
Fenoxycarb	< LOQ	0.20	0.100	pass		Fenpyroximate	< LOQ	0.40	0.200	pass	
Fipronil	< LOQ	0.40	0.200	pass		Fonicamid	< LOQ	1.0	0.400	pass	
Fludioxonil	< LOQ	0.40	0.200	pass		Hexythiazox	< LOQ	1.0	0.400	pass	
Imazalil	< LOQ	0.20	0.100	pass		Imidacloprid	< LOQ	0.40	0.200	pass	
Kresoxim-methyl	< LOQ	0.40	0.200	pass		Malathion	< LOQ	0.20	0.100	pass	
Metalaxyl	< LOQ	0.20	0.100	pass		Methiocarb	< LOQ	0.20	0.100	pass	
Methomyl	< LOQ	0.40	0.200	pass		MGK-264	< LOQ	0.20	0.100	pass	
Myclobutanil	< LOQ	0.20	0.100	pass		Naled	< LOQ	0.50	0.250	pass	
Oxamyl	< LOQ	1.0	0.500	pass		Paclobutrazole	< LOQ	0.40	0.200	pass	
Parathion-Methyl	< LOQ	0.20	0.200	pass		Permethrin	< LOQ	0.20	0.100	pass	
Phosmet	< LOQ	0.20	0.100	pass		Piperonyl butoxide	< LOQ	2.0	1.00	pass	
Prallethrin	< LOQ	0.20	0.200	pass		Propiconazole	< LOQ	0.40	0.200	pass	
Propoxur	< LOQ	0.20	0.100	pass		Pyrethrin I (total)	< LOQ	1.0	0.500	pass	
Pyridaben	< LOQ	0.20	0.100	pass		Spinosad	< LOQ	0.20	0.100	pass	
Spiromesifen	< LOQ	0.20	0.100	pass		Spirotetramat	< LOQ	0.20	0.100	pass	
Spiroxamine	< LOQ	0.40	0.200	pass		Tebuconazole	< LOQ	0.40	0.200	pass	
Thiacloprid	< LOQ	0.20	0.100	pass		Thiamethoxam	< LOQ	0.20	0.100	pass	
Trifloxystrobin	< LOQ	0.20	0.100	pass							

Metals										
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes	
Arsenic	< LOQ	0.200	mg/kg	0.0618	2110300	11/15/21	AOAC 2013.06 (mod.)	pass	X	
Cadmium	< LOQ	0.200	mg/kg	0.0618	2110300	11/15/21	AOAC 2013.06 (mod.)	pass	X	
Lead	< LOQ	0.500	mg/kg	0.0618	2110300	11/15/21	AOAC 2013.06 (mod.)	pass	X	
Mercury	< LOQ	0.100	mg/kg	0.0309	2110300	11/15/21	AOAC 2013.06 (mod.)	pass	X	



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 503-254-1794



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Mycotoxins

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
Aflatoxin B2 [†]	< LOQ		µg/kg	5.00	2110236	11/12/21	AOAC 2007.01 & EN 15		
Aflatoxin B1 [†]	< LOQ		µg/kg	5.00	2110236	11/12/21	AOAC 2007.01 & EN 15		
Aflatoxin G1 [†]	< LOQ		µg/kg	5.00	2110236	11/12/21	AOAC 2007.01 & EN 15		
Aflatoxin G2 [†]	< LOQ		µg/kg	5.00	2110236	11/12/21	AOAC 2007.01 & EN 15		
Deoxynivalenol [†]	< LOQ		µg/kg	200	2110236	11/12/21	AOAC 2007.01 & EN 15		
Fumonisin B1 [†]	< LOQ		µg/kg	200	2110236	11/12/21	AOAC 2007.01 & EN 15		
Fumonisin B2 [†]	< LOQ		µg/kg	200	2110236	11/12/21	AOAC 2007.01 & EN 15		
HT2-Toxin [†]	< LOQ		µg/kg	40.0	2110236	11/12/21	AOAC 2007.01 & EN 15		
Nivalenol [†]	< LOQ		µg/kg	400	2110236	11/12/21	AOAC 2007.01 & EN 15		
Ochratoxin A [†]	< LOQ		µg/kg	5.00	2110236	11/12/21	AOAC 2007.01 & EN 15		
Ochratoxin B [†]	< LOQ		µg/kg	2.00	2110236	11/12/21	AOAC 2007.01 & EN 15		
T2-Toxin [†]	< LOQ		µg/kg	20.0	2110236	11/12/21	AOAC 2007.01 & EN 15		
Zearalenone [†]	< LOQ		µg/kg	200	2110236	11/12/21	AOAC 2007.01 & EN 15		

Nutrition

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
Density	0.9589		g/ml	0.1000	2109922	11/03/21	DMA 35™		X



12423 NE Whitaker Way
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503-254-1794



Report Number: 21-012823/D006.R000
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These test results are representative of the individual sample selected and submitted by the client.

Abbreviations

Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220, CCR title 16-division 42. BCC-section 5723

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

† = Analyte not NELAP accredited.

Units of Measure

/25g = Per 25g

cfu/g = Colony forming units per gram

g = Gram

g/ml = Gram per milliliter

µg/g = Microgram per gram

µg/kg = Micrograms per kilogram = parts per billion (ppb)

mg/kg = Milligram per kilogram = parts per million (ppm)

mg/1ml = Milligram per 1ml

% = Percentage of sample

% wt = µg/g divided by 10,000

Glossary of Qualifiers

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner
General Manager



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 503-254-1794

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Hemp / Cannabis Usable / Extract / Finished Products

Chain of Custody Record

Document Control ID: 2732 Revision: 1
 Effective: 05/04/2021
 ORELAP ID: OR100028

Company: <u>Alliant Hemp</u> Contact: <u>THIS TEXT REDACTED</u> Street: <u>5934 River Road North #170</u> City: <u>Keizer</u> State: <u>OR</u> Zip: <u>97113</u> <input checked="" type="checkbox"/> Email Results: <u>THIS TEXT REDACTED</u> Ph: <u>THIS TEXT REDACTED</u> <input type="checkbox"/> Fx Results: () Billing (if different): <u>THIS TEXT REDACTED</u>				Analysis Requested H0010 - Potency N223 - Density/specific gravity P2120 - Pesticide - OR compliance H0013 - Metals H0040 - Mycotoxins M19000 - Profile X H0008 - Residual Solvents							PO Number: _____ Project Number: _____ Project Name: _____ Custom Reporting: _____ Report to State - <input type="checkbox"/> METRC or <input type="checkbox"/> Other: _____ Turnaround time: <input checked="" type="checkbox"/> 5 Business Day Standard Turnaround <input type="checkbox"/> 3 Business Day Rush Turnaround* <input checked="" type="checkbox"/> 2 Business Day Rush Turnaround* <small>*Check for availability</small>		
Lab ID	Client Sample Identification	Date	Time	H0010	N223	P2120	H0013	H0040	M19000	H0008	Sample Type †	Weight (Units)	Comments/Metrc ID
	200mg/ml Isolate Oil Drops #21-1028-1	10/29/21	9:50AM	✓	✓	✓	✓	✓	✓	✓	T	1ml	THIS TEXT REDACTED
Relinquished By: <u>THIS TEXT REDACTED</u>				Date	Time	Received By: <u>DS</u>				Date	Time	Lab Use Only:	
				10/29/21	9:55AM					11/1/21	9:29	<input type="checkbox"/> Shipped Via: <u>UPS</u> or <input type="checkbox"/> Client drop Evidence of cooling: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No - Temp (°C): <u>19.5</u> Sample in good condition: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Cash <input type="checkbox"/> Check <input type="checkbox"/> CC <input type="checkbox"/> Net: _____ Prelog storage: _____	

† - Sample Type Codes: Vegetation (V); Isolates (I); Extract/Concentrate (E); Tincture/Topical (T); Edible (ED); Beverage (B)

Samples submitted to Columbia Laboratories with testing requirements constitute an agreement for services in accordance with the TERMS AND CONDITIONS associated with this COC. By signing "Relinquished by" you are agreeing to these terms
 12423 NE Whitaker Way P: (503) 254-1794 | Fax: (503) 254-1452 Page _____ of _____



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794



Report Number: 21-012823/D006.R000
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Document ID: 3177 Revision: 2
Effective: 06/25/2021
Page 1 of 1

Job Number: _____ Search Name: _____

Package/Cooler opened on (if different than received date/time) Date: 11/1/21 Time: 9:24

Received By (Initials): DS Logged in by (Initials): _____ Date: _____ Time: _____

1) Were custody seals on outside of the package/cooler? YES NO NA
If YES, how many and where? _____

Does date match collection date on COC? _____ YES NO NA

2) Was Chain of Custody (COC) included in the package/cooler? YES NO NA

3) Was COC signed when relinquished and received? (time, date)? YES NO NA

4) How was the package/cooler delivered?

UPS FEDEX USPS CLIENT COURIER OTHER: _____

Tracking Number (written in or copy of shipping label): 1Z VR2 766 03 2971 3472

5) Was packing material used? YES NO NA

Peanuts Bubble Wrap Foam Paper Other:

6) Was temperature upon receipt 4°C+/- 2°C (if appropriate)? YES NO NA

If not, client contacted: _____
Proceed? YES NO

7) Was there evidence of cooling? YES NO NA

What kind? Blue Ice Ice Cooler Packs Dry Ice

8) Were all sample containers sealed in separate plastic bags? YES NO NA

9) Did all sample containers arrive in good condition? YES NO NA

10) Were all sample container labels complete? YES NO NA

11) Did all sample container labels and tags agree with the COC? YES NO NA

12) Were correct sample containers used for the tests indicated? YES NO NA

13) Were VOA vials checked for absence of air bubbles (note if found)? YES NO NA

14) Was a sufficient amount of sample sent in each sample container? YES NO NA

16) Sample location prior to login: R99 R39 R44 F44 Ambient Shelf Cannabis Table Other: _____

Explain any discrepancies: sample leakage -> broken container (1 of 2)



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503-254-1794

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Revision # 0.00 Control CFL D06
Revision Date 05/31/2019 Effective Date 05/31/2019

Laboratory Quality Control Results

J AOAC 2015 V98-6							
Batch ID: 2109934							
Laboratory Control Sample							
Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	0.00959	0.01	%	95.9	85.0 - 115	Acceptable	
CBDV	0.0103	0.01	%	103	85.0 - 115	Acceptable	
CBE	0.00998	0.01	%	99.8	85.0 - 115	Acceptable	
CEDA	0.00990	0.01	%	99.0	85.0 - 115	Acceptable	
CBGA	0.00961	0.01	%	96.1	85.0 - 115	Acceptable	
CBS	0.0100	0.01	%	100	85.0 - 115	Acceptable	
CBD	0.0101	0.01	%	101	85.0 - 115	Acceptable	
THCV	0.00962	0.01	%	96.2	85.0 - 115	Acceptable	
δ8THCV	0.00967	0.01	%	96.7	85.0 - 115	Acceptable	
THCA	0.00941	0.01	%	94.1	85.0 - 115	Acceptable	
CBN	0.0103	0.01	%	103	85.0 - 115	Acceptable	
exo-THC	0.0102	0.01	%	102	85.0 - 115	Acceptable	
δ9THC	0.00991	0.01	%	99.1	85.0 - 115	Acceptable	
δ8THC	0.00951	0.01	%	95.1	85.0 - 115	Acceptable	
CBL	0.00935	0.01	%	93.5	85.0 - 115	Acceptable	
CBC	0.00999	0.01	%	99.9	85.0 - 115	Acceptable	
THCA	0.00995	0.01	%	99.5	85.0 - 115	Acceptable	
CBGA	0.00981	0.01	%	98.1	85.0 - 115	Acceptable	
CBLA	0.00995	0.01	%	99.5	85.0 - 115	Acceptable	
CBF	0.0112	0.01	%	112	85.0 - 115	Acceptable	

Method Blank						
Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.003	%	< 0.003	Acceptable	
CBDV	<LOQ	0.003	%	< 0.003	Acceptable	
CBE	<LOQ	0.003	%	< 0.003	Acceptable	
CEDA	<LOQ	0.003	%	< 0.003	Acceptable	
CBGA	<LOQ	0.003	%	< 0.003	Acceptable	
CBS	<LOQ	0.003	%	< 0.003	Acceptable	
CBD	<LOQ	0.003	%	< 0.003	Acceptable	
THCV	<LOQ	0.003	%	< 0.003	Acceptable	
δ8THCV	<LOQ	0.003	%	< 0.003	Acceptable	
THCA	<LOQ	0.003	%	< 0.003	Acceptable	
CBN	<LOQ	0.003	%	< 0.003	Acceptable	
exo-THC	<LOQ	0.003	%	< 0.003	Acceptable	
δ9THC	<LOQ	0.003	%	< 0.003	Acceptable	
δ8THC	<LOQ	0.003	%	< 0.003	Acceptable	
CBL	<LOQ	0.003	%	< 0.003	Acceptable	
CBC	<LOQ	0.003	%	< 0.003	Acceptable	
THCA	<LOQ	0.003	%	< 0.003	Acceptable	
CBGA	<LOQ	0.003	%	< 0.003	Acceptable	
CBLA	<LOQ	0.003	%	< 0.003	Acceptable	
CBF	<LOQ	0.003	%	< 0.003	Acceptable	

Abbreviations

ND - None Detected at or above MRL
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LOQ - Limit of Quantitation

Units of Measure:

% - Percent



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794



Report Number: 21-012823/D006.R000
Report Date: 11/23/2021
ORELAP#: OR100028
Purchase Order:
Received: 11/01/21 09:24

Revision # 0.00 Control CFL D06
Revision Date 05/31/2019 Effective Date 05/31/2019

Laboratory Quality Control Results

J AOAC 2015 V98-6								
Batch ID: 2109934								
Sample Duplicate								
Sample ID: 21-012818-0001								
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	0.00455	0.00454	0.003	%	0.334	< 20	Acceptable	
CBE	0.00805	0.00828	0.003	%	2.82	< 20	Acceptable	
CBD4	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBS4	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBS	0.0127	0.0126	0.003	%	0.601	< 20	Acceptable	
CBD	0.912	0.911	0.003	%	0.0379	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d9THC	0.0248	0.0246	0.003	%	0.659	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	0.0474	0.0476	0.003	%	0.321	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBF	0.00545	0.00534	0.003	%	2.09	< 20	Acceptable	

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Units of Measure:

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Revision #: 0.00 Control : CFL-D06
 Revision Date: 05/31/2019 Effective Date: 05/31/2019

Laboratory Quality Control Results

JAOAC2015 V98-6							
Batch ID 2110114							
Laboratory Control Sample							
Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDA	0.00954	0.01	%	95.4	85.0 - 115	Acceptable	
CBDA	0.00993	0.01	%	99.3	85.0 - 115	Acceptable	
CBE	0.00982	0.01	%	98.2	85.0 - 115	Acceptable	
CBDA	0.00976	0.01	%	97.6	85.0 - 115	Acceptable	
CBGA	0.00956	0.01	%	95.6	85.0 - 115	Acceptable	
CBG	0.00989	0.01	%	98.9	85.0 - 115	Acceptable	
CB	0.0102	0.01	%	102	85.0 - 115	Acceptable	
THCV	0.00943	0.01	%	94.3	85.0 - 115	Acceptable	
d8THCV	0.00964	0.01	%	96.4	85.0 - 115	Acceptable	
THCVA	0.00925	0.01	%	92.5	85.0 - 115	Acceptable	
CBN	0.0103	0.01	%	103	85.0 - 115	Acceptable	
exo-THC	0.00956	0.01	%	95.6	85.0 - 115	Acceptable	
d9THC	0.00987	0.01	%	98.7	85.0 - 115	Acceptable	
d8THC	0.00987	0.01	%	98.7	85.0 - 115	Acceptable	
CEL	0.00952	0.01	%	95.2	85.0 - 115	Acceptable	
CB	0.0100	0.01	%	100	85.0 - 115	Acceptable	
THCA	0.00994	0.01	%	99.4	85.0 - 115	Acceptable	
CBCA	0.00951	0.01	%	95.1	85.0 - 115	Acceptable	
CBLA	0.00999	0.01	%	99.9	85.0 - 115	Acceptable	
CBT	0.0103	0.01	%	103	85.0 - 115	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDA	<LOQ	0.003	%	< 0.003	Acceptable	
CBDA	<LOQ	0.003	%	< 0.003	Acceptable	
CBE	<LOQ	0.003	%	< 0.003	Acceptable	
CBDA	<LOQ	0.003	%	< 0.003	Acceptable	
CBGA	<LOQ	0.003	%	< 0.003	Acceptable	
CBG	<LOQ	0.003	%	< 0.003	Acceptable	
CB	<LOQ	0.003	%	< 0.003	Acceptable	
THCV	<LOQ	0.003	%	< 0.003	Acceptable	
d8THCV	<LOQ	0.003	%	< 0.003	Acceptable	
THCVA	<LOQ	0.003	%	< 0.003	Acceptable	
CBN	<LOQ	0.003	%	< 0.003	Acceptable	
exo-THC	<LOQ	0.003	%	< 0.003	Acceptable	
d9THC	<LOQ	0.003	%	< 0.003	Acceptable	
d8THC	<LOQ	0.003	%	< 0.003	Acceptable	
CEL	<LOQ	0.003	%	< 0.003	Acceptable	
CB	<LOQ	0.003	%	< 0.003	Acceptable	
THCA	<LOQ	0.003	%	< 0.003	Acceptable	
CBCA	<LOQ	0.003	%	< 0.003	Acceptable	
CBLA	<LOQ	0.003	%	< 0.003	Acceptable	
CBT	<LOQ	0.003	%	< 0.003	Acceptable	

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Revision #: 0.00 Control : CFL-D06
Revision Date: 05/31/2019 Effective Date: 05/31/2019

Laboratory Quality Control Results

JAOAC2015 V98-6									
Batch ID: 2110114									
Sample Duplicate									
Sample ID: 21-005060-0003									
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes	
CBDVA	0	0	0.003	%	10	< 20	Acceptable		
CBDV	0.0452	0.0476	0.003	%	5.14	< 20	Acceptable		
CBE	0.0157	0.0161	0.003	%	2.29	< 20	Acceptable		
CBD	0.484	0.496	0.003	%	2.51	< 20	Acceptable		
CBSA	0.00843	0.00869	0.003	%	3.02	< 20	Acceptable		
CBG	0.0192	0.0196	0.003	%	1.94	< 20	Acceptable		
CBD	2.86	2.87	0.003	%	0.282	< 20	Acceptable		
THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable		
d8THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable		
THCVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable		
CBN	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable		
exo-THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable		
d9THC	0.0404	0.0416	0.003	%	2.88	< 20	Acceptable		
d8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable		
CEL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable		
CBG	0.150	0.153	0.003	%	2.43	< 20	Acceptable		
THCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable		
CBGA	0.0417	0.0396	0.003	%	5.19	< 20	Acceptable		
CBLA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable		
CBT	0.0270	0.0270	0.003	%	0.00921	< 20	Acceptable		

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Report Number: 21-012823/D006.R000
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ORELAP#: OR100028
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Revision: 2 Document ID: 3120
Legacy ID: CFL-C21Effective:

Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg								Batch ID: 2130237	
Matrix Spike/Matrix Spike Duplicate Recoveries		Sample ID: 21-013240-0001									
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes	
Accephate	0.000	1.144	1.190	1.000	3.9%	< 30	114.4%	119.0%	50 - 150		
Acetaminocyl	0.000	1.902	2.041	4.000	7.0%	< 30	47.6%	51.0%	50 - 150	Q	
Acetamiprid	0.000	0.482	0.492	0.400	2.2%	< 30	120.4%	123.0%	50 - 150		
Aldicarb	0.000	0.947	1.049	0.800	10.2%	< 30	118.4%	131.1%	50 - 150		
Abamectin	0.000	1.231	1.306	1.000	5.9%	< 30	123.1%	130.6%	50 - 150		
Azoxystrobin	0.000	0.413	0.427	0.400	3.3%	< 30	103.4%	106.9%	50 - 150		
Bifentazate	0.000	0.721	0.737	0.400	2.1%	< 30	180.3%	184.1%	50 - 150	Q1	
Bifenthrin	0.000	0.238	0.234	0.400	1.5%	< 30	59.5%	58.5%	50 - 150		
Boscalid	0.000	0.902	0.971	0.800	7.4%	< 30	112.7%	121.4%	50 - 150		
Carbaryl	0.000	0.457	0.451	0.400	1.3%	< 30	114.2%	112.7%	50 - 150		
Carbofuran	0.000	0.373	0.427	0.400	13.4%	< 30	93.4%	106.8%	50 - 150		
Chlorantraniliprol	0.000	0.427	0.412	0.400	3.5%	< 30	106.7%	103.0%	50 - 150		
Chlorfenapyr	0.000	1.659	2.089	2.000	22.9%	< 30	83.0%	104.5%	50 - 150		
Chlorpyrifos	0.045	0.475	0.486	0.400	2.5%	< 30	107.6%	110.4%	50 - 150		
Clofentezine	0.030	0.393	0.400	0.400	1.7%	< 30	91.0%	92.5%	50 - 150		
Cyfluthrin	0.000	1.477	1.301	2.000	12.6%	< 30	73.8%	65.1%	30 - 150		
Cypermethrin	0.000	1.454	1.523	2.000	4.5%	< 30	72.7%	76.2%	50 - 150		
Daminozide	0.427	3.220	3.768	2.000	1.7%	< 30	139.7%	142.1%	30 - 150		
Diazinon	0.000	0.456	0.476	0.400	4.3%	< 30	114.1%	119.1%	50 - 150		
Dichlorvos	0.000	2.094	2.298	2.000	9.3%	< 30	104.7%	114.9%	50 - 150		
Dimethoat	0.000	0.491	0.505	0.400	2.7%	< 30	122.8%	126.2%	50 - 150		
Ethoprophos	0.000	0.442	0.476	0.400	7.3%	< 30	110.6%	119.0%	50 - 150		
Etofenprox	0.000	0.510	0.720	0.800	34.2%	< 30	63.7%	90.0%	50 - 150	R	
Etoxyzol	0.000	0.386	0.358	0.400	7.7%	< 30	96.5%	89.4%	50 - 150		
Fenoxycarb	0.000	0.411	0.409	0.400	0.5%	< 30	102.8%	102.3%	50 - 150		
Fenpyroximat	0.000	0.748	0.772	0.800	3.2%	< 30	93.5%	96.5%	50 - 150		
Fipronil	0.000	0.635	0.690	0.800	8.2%	< 30	79.4%	86.2%	50 - 150		
Fonicamid	0.000	1.380	1.333	1.000	3.5%	< 30	138.0%	133.3%	50 - 150		
Fludoxonil	0.000	0.985	0.979	0.800	0.5%	< 30	123.2%	122.4%	50 - 150		
Hexythiazox	0.000	1.020	0.911	1.000	11.3%	< 30	102.0%	91.1%	50 - 150		
Imazalil	0.020	0.461	0.462	0.400	0.1%	< 30	110.4%	110.5%	50 - 150		
Imidacloprid	0.000	0.998	1.026	0.800	2.8%	< 30	124.8%	128.3%	50 - 150		
Kresoxim-Methyl	0.000	0.853	0.856	0.800	0.4%	< 30	105.6%	107.0%	50 - 150		
Malathion	0.000	0.409	0.415	0.400	1.5%	< 30	102.2%	103.8%	50 - 150		
Metaxalyl	0.000	0.467	0.477	0.400	2.3%	< 30	115.7%	119.4%	50 - 150		
Methiocarb	0.000	0.449	0.423	0.400	5.8%	< 30	112.2%	105.8%	50 - 150		
Methomyl	0.000	0.916	0.856	0.800	6.7%	< 30	114.4%	107.0%	50 - 150		
MKG 264	0.000	0.297	0.258	0.400	14.0%	< 30	74.3%	64.6%	50 - 150		
Myclobutanil	0.071	0.441	0.434	0.400	2.1%	< 30	92.6%	90.7%	50 - 150		
Naled	0.000	0.937	0.954	1.000	1.8%	< 30	93.7%	95.4%	50 - 150		
Oxamyl	0.000	2.560	2.588	2.000	1.1%	< 30	128.0%	129.4%	50 - 150		
Perbutrazol	0.000	0.815	0.836	0.800	2.5%	< 30	101.8%	104.5%	50 - 150		
Parathion Methyl	0.053	0.544	0.612	0.800	12.9%	< 30	61.4%	69.9%	30 - 150		
Permethrin	0.000	0.326	0.370	0.400	12.6%	< 30	81.6%	92.5%	50 - 150		
Phosmet	0.000	0.420	0.430	0.400	2.3%	< 30	105.1%	107.6%	50 - 150		
Piperonyl butoxide	0.028	2.006	1.961	2.000	2.3%	< 30	98.9%	96.7%	50 - 150		
Prallethrin	0.443	0.684	0.714	0.400	11.8%	< 30	60.1%	67.7%	50 - 150		
Propiconazole	0.049	0.792	0.788	0.800	0.5%	< 30	92.9%	92.4%	50 - 150		
Propoxur	0.014	0.436	0.460	0.400	5.4%	< 30	105.5%	111.4%	50 - 150		
Pyrethrins	0.089	0.331	0.335	0.413	1.4%	< 30	58.7%	59.6%	50 - 150		
Pyridaben	0.009	0.394	0.396	0.400	0.5%	< 30	96.2%	96.6%	50 - 150		
Spinosad	0.000	0.523	0.487	0.388	7.0%	< 30	134.7%	125.6%	50 - 150		
Spiromesifen	0.000	0.491	0.498	0.400	1.5%	< 30	122.8%	124.6%	50 - 150		
Spirotetramat	0.000	0.687	0.685	0.400	0.3%	< 30	171.7%	171.2%	50 - 150	Q1	
Spiroxaime	0.000	0.949	0.975	0.800	2.7%	< 30	118.6%	121.8%	50 - 150		
Tebuconazol	0.000	0.845	0.856	0.800	1.3%	< 30	105.6%	107.0%	50 - 150		
Thiadoprid	0.000	0.476	0.484	0.400	1.9%	< 30	118.9%	121.1%	50 - 150		
Thiamethoam	0.000	0.538	0.518	0.400	3.9%	< 30	134.6%	129.5%	50 - 150		
Trifloxystrobin	0.000	0.365	0.359	0.400	1.5%	< 30	91.2%	89.7%	50 - 150		



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 Legacy ID: CFL-C21Effective:

Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg		Batch ID: 2110237				
Method blank		Laboratory Control Sample						
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Acéphate	0.000	< 0.250		1.235	1.000	123.5	72.0 - 134	
Acéquinocyl	0.000	< 1.000		4.891	4.000	122.3	71.5 - 133	
Acetamiprid	0.000	< 0.100		0.501	0.400	125.2	71.8 - 133	
Aldicarb	0.000	< 0.200		0.900	0.800	112.4	74.6 - 139	
Abamectin	0.000	< 0.250		1.373	1.000	137.3	75.1 - 140	
Azoxystrobin	0.000	< 0.100		0.512	0.400	128.0	71.2 - 132	
Bifentazate	0.000	< 0.100		0.761	0.400	190.3	77.6 - 144	Q1
Bifenthrin	0.000	< 0.100		0.471	0.400	117.8	71.1 - 132	
Boscalid	0.000	< 0.200		1.056	0.800	132.0	71.8 - 133	
Carbaryl	0.008	< 0.100		0.494	0.400	123.6	71.9 - 133	
Carbofuran	0.026	< 0.100		0.438	0.400	109.5	73.1 - 136	
Chlorantraniliprol	0.000	< 0.100		0.388	0.400	95.7	67.7 - 126	
Chlorfenapyr	0.000	< 0.500		2.534	2.000	126.7	72.4 - 134	
Chlorpyrifos	0.000	< 0.100		0.477	0.400	119.2	69.7 - 130	
Clofentezine	0.000	< 0.100		0.464	0.400	116.1	70.9 - 132	
Cyfluthrin	0.000	< 0.500		2.299	2.000	114.9	73.8 - 137	
Cypermethrin	0.000	< 0.500		2.465	2.000	123.2	72.8 - 135	
Daminozide	0.236	< 0.500		2.413	2.000	120.7	71.8 - 133	
Diazinon	0.000	< 0.100		0.526	0.400	131.6	71.9 - 133	
Dichlorvos	0.000	< 0.500		2.371	2.000	118.6	70.2 - 130	
Dimethoat	0.000	< 0.100		0.491	0.400	122.8	71.7 - 133	
Ethoprophos	0.000	< 0.100		0.505	0.400	126.2	70.6 - 131	
Etofenprox	0.000	< 0.200		1.200	0.800	150.0	73.6 - 137	Q1
Etoxazol	0.000	< 0.100		0.472	0.400	118.1	72.4 - 134	
Fenoxycarb	0.000	< 0.100		0.475	0.400	118.7	71.3 - 132	
Fenpyroximat	0.000	< 0.200		1.028	0.800	128.5	72.3 - 134	
Fipronil	0.000	< 0.200		0.946	0.800	118.3	73.5 - 136	
Fonicamid	0.000	< 0.250		1.263	1.000	126.3	71.8 - 133	
Fludioxonil	0.000	< 0.200		0.846	0.800	105.7	75.1 - 140	
Hexythiazox	0.000	< 0.250		1.227	1.000	122.7	70.1 - 130	
Imazalil	0.000	< 0.100		0.488	0.400	122.0	73.8 - 137	
Imidacloprid	0.000	< 0.200		0.951	0.800	118.9	71.4 - 133	
Kresoxim-Methyl	0.000	< 0.200		1.023	0.800	127.9	71.5 - 133	
Malathion	0.000	< 0.100		0.510	0.400	129.0	71.4 - 133	
Metalaxyl	0.000	< 0.100		0.494	0.400	123.6	72.3 - 134	
Methiocarb	0.000	< 0.100		0.454	0.400	113.5	71.3 - 132	
Methomyl	0.000	< 0.200		0.957	0.800	119.7	70.6 - 131	
MKG 264	0.000	< 0.100		0.502	0.400	125.4	71.4 - 133	
Myclobutanil	0.000	< 0.100		0.509	0.400	127.2	71.9 - 134	
Naled	0.000	< 0.250		1.156	1.000	115.6	73.3 - 136	
Oxamyl	0.000	< 0.500		2.376	2.000	118.8	71.9 - 133	
Pactbutrazol	0.000	< 0.200		0.930	0.800	116.3	72.2 - 134	
Parathion Methyl	0.000	< 0.200		0.869	0.800	108.7	74.2 - 138	
Permethrin	0.000	< 0.100		0.525	0.400	131.3	71.9 - 133	
Phosmet	0.000	< 0.100		0.511	0.400	127.8	71.5 - 133	
Piperonyl butoxide	0.000	< 0.500		2.321	2.000	116.1	74.2 - 138	
Prallethrin	0.000	< 0.100		0.493	0.400	123.3	71.8 - 133	
Propiconazole	0.012	< 0.200		0.991	0.800	123.9	71.5 - 133	
Propoxur	0.014	< 0.100		0.470	0.400	117.4	71.1 - 132	
Pyrethrins	0.000	< 0.100		0.435	0.413	105.4	68.2 - 127	
Pyridaben	0.000	< 0.100		0.491	0.400	122.8	71.3 - 132	
Spinosad	0.000	< 0.100		0.503	0.388	129.5	74.0 - 137	
Spiromesifen	0.000	< 0.100		0.571	0.400	142.7	72.9 - 135	Q1
Spirotetramat	0.000	< 0.100		0.516	0.400	128.9	72.0 - 134	
Spiroxamine	0.000	< 0.200		0.956	0.800	119.4	69.7 - 130	
Tebuconazol	0.000	< 0.200		0.992	0.800	124.0	71.5 - 133	
Thiadoprid	0.000	< 0.100		0.493	0.400	123.2	71.1 - 132	
Thiamethoxam	0.000	< 0.100		0.464	0.400	116.1	70.9 - 132	
Trifloxystrobin	0.000	< 0.100		0.476	0.400	119.0	71.5 - 133	



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Laboratory Quality Control Results

Batch ID 2110287

Residual Solvents		Method Blank		Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		934	948	µg/g	98.5	70 - 130	
Isobutane	ND	< 200		1090	1260	µg/g	86.5	70 - 130	
Butane	ND	< 200		1080	1260	µg/g	85.7	70 - 130	
2,2-Dimethylpropane	ND	< 200		1740	1600	µg/g	108.6	70 - 130	
Methanol	ND	< 200		1690	1610	µg/g	105.0	70 - 130	
Ethylene Oxide	ND	< 30		93.5	95.7	µg/g	98.4	70 - 130	
2-Methylbutane	ND	< 200		1590	1610	µg/g	98.6	70 - 130	
Pentane	ND	< 200		1600	1610	µg/g	99.4	70 - 130	
Ethanol	ND	< 200		1750	1610	µg/g	108.7	70 - 130	
Ethyl Ether	ND	< 200		1550	1610	µg/g	96.3	70 - 130	
2,2-Dimethylbutane	ND	< 30		159	164	µg/g	95.7	70 - 130	
Acetone	ND	< 200		1630	1610	µg/g	101.2	70 - 130	
2-Propanol	ND	< 200		1780	1610	µg/g	110.4	70 - 130	
Acetonitrile	ND	< 100		492	484	µg/g	101.7	70 - 130	
2,3-Dimethylbutane	ND	< 30		170	167	µg/g	101.6	70 - 130	
Dichloromethane	ND	< 60		517	491	µg/g	105.3	70 - 130	
2-Methylpentane	ND	< 30		161	165	µg/g	97.6	70 - 130	
3-Methylpentane	ND	< 30		174	172	µg/g	101.2	70 - 130	
Hexane	ND	< 30		170	167	µg/g	101.6	70 - 130	
Ethyl acetate	ND	< 200		1680	1610	µg/g	104.3	70 - 130	
2-Butanol	ND	< 200		1760	1610	µg/g	109.3	70 - 130	
Tetrahydrofuran	ND	< 100		528	483	µg/g	109.3	70 - 130	
Cyclohexane	ND	< 200		1670	1610	µg/g	103.7	70 - 130	
Benzene	ND	< 1		5.44	5.36	µg/g	101.6	70 - 130	
Isopropyl Acetate	ND	< 200		1920	1620	µg/g	118.5	70 - 130	
Heptane	ND	< 200		1830	1610	µg/g	113.7	70 - 130	
1,4-Dioxane	ND	< 100		508	489	µg/g	103.9	70 - 130	
2-Ethoxyethanol	ND	< 30		152	167	µg/g	115.0	70 - 130	
Ethylene Glycol	ND	< 200		577	504	µg/g	114.5	70 - 130	
Toluene	ND	< 200		520	484	µg/g	107.4	70 - 130	
Ethyl benzene	ND	< 200		1060	968	µg/g	109.5	70 - 130	
m,p-Xylene	ND	< 200		1150	977	µg/g	117.7	70 - 130	
o-Xylene	ND	< 200		1140	962	µg/g	116.4	70 - 130	
Cumene	ND	< 30		190	169	µg/g	112.4	70 - 130	



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QC - Sample Duplicate

Sample ID 21-013263-0001

Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Accept/ Fail	Notes
Propane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Isobutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Butane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2,2-Dimethylpropane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Methanol	289	293	200	µg/g	1.4	< 20	Acceptable	
Ethylene Oxide	ND	ND	30	µg/g	0.0	< 20	Acceptable	
2-Methylbutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Pentane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethyl Ether	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2,2-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Acetone	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Propanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Acetonitrile	ND	ND	100	µg/g	0.0	< 20	Acceptable	
2,3-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Dichloromethane	ND	ND	60	µg/g	0.0	< 20	Acceptable	
2-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
3-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Hexane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Ethyl acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Butanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Tetrahydrofuran	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Cyclohexane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Benzene	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Isopropyl Acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Heptane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
1,4-Dioxane	ND	ND	100	µg/g	0.0	< 20	Acceptable	
2-Ethoxyethanol	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Ethylene Glycol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Toluene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethyl benzene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
m p-Xylene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
o-Xylene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Cumene	ND	ND	30	µg/g	0.0	< 20	Acceptable	

Abbreviations

ND - None Detected at or above MRL
RPD - Relative Percent Difference
LOQ - Limit of Quantitation

Units of Measure:

µg/g - Microgram per gram or ppm



Explanation of QC Flag Comments:

Code	Explanation
Q	Matrix interferences affecting spike or surrogate recoveries.
Q1	Quality control result biased high. Only non-detect samples reported.
Q2	Quality control outside QC limits. Data considered estimate.
Q3	Sample concentration greater than four times the amount spiked.
Q4	Non-homogenous sample matrix, affecting RPD result and/or % recoveries.
Q5	Spike results above calibration curve.
Q6	Quality control outside QC limits. Data acceptable based on remaining QC.
R	Relative percent difference (RPD) outside control limit.
R1	RPD non-calculable, as sample or duplicate results are less than five times the LOQ.
R2	Sample replicates RPD non-calculable, as only one replicate is within the analytical range.
LOQ1	Quantitation level raised due to low sample volume and/or dilution.
LOQ2	Quantitation level raised due to matrix interference.
B	Analyte detected in method blank, but not in associated samples.
B1	The sample concentration is greater than 5 times the blank concentration.
B2	The sample concentration is less than 5 times the blank concentration.