



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

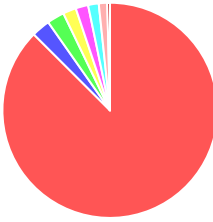


Report Number: 21-015041/D003.R000
Report Date: 01/04/2022
ORELAP#: OR100028
Purchase Order: 00024
Received: 12/24/21 09:55

Customer: FSOil
Product identity: 774-40018
Client/Metric ID: .
Laboratory ID: 21-015041-0003

Summary

Potency:

Analyte	Result (%)		CBD-Total	67.2%
CBD	66.4			
CBC	2.12			
CBE†	1.98			
CBN	1.50			
CBG†	1.43			
CBT†	1.21			
CBD-A	0.962			
CBDV†	0.310			
			THC-Total	<LOQ
			(Reported in percent of total sample)	

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

All analytes passing and less than LOQ.

Terpenes:

Analyte	Percent by weight	Percent of Total	Analyte	Percent by weight	Percent of Total
a-Bisabolol†	0.0781	72.31%	(-)-Guaiol†	0.0303	28.06%
Total Terpenes†	0.108	100.00%			

Microbiology:

Less than LOQ for all analytes.



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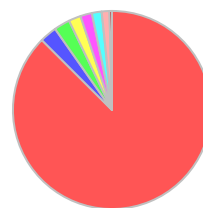


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Customer: FSOil
33739 S Meridian Rd
Woodburn Oregon 97071
United States of America (USA)
Product identity: 774-40018
Client/Metric ID: .
Sample Date:
Laboratory ID: 21-015041-0003
Evidence of Cooling: No
Temp: 18.1 °C
Relinquished by: USPS

Sample Results

Potency	Method J AOAC 2015 V98-6 (mod)			Units %	Batch: 2111546	Analyze: 12/30/21 1:30:00 PM
Analyte	As Received	Dry weight	LOQ	Notes		
CBC	2.12		0.0833			
CBC-A [†]	< LOQ		0.0833			
CBC-Total [†]	2.12		0.156			
CBD	66.4		0.833			
CBD-A	0.962		0.0833			
CBD-Total	67.2		0.906			
CBDV [†]	0.310		0.0833			
CBDV-A [†]	< LOQ		0.0833			
CBDV-Total [†]	0.310		0.156			
CBE [†]	1.98		0.0833			
CBG [†]	1.43		0.0833			
CBG-A [†]	< LOQ		0.0833			
CBG-Total	1.43		0.156			
CBL [†]	< LOQ		0.0833			
CBL-A [†]	< LOQ		0.0833			
CBL-Total [†]	< LOQ		0.156			
CBN	1.50		0.0833			
CBT [†]	1.21		0.0833			
Δ8-THC [†]	< LOQ		0.0833			
Δ8-THCV	< LOQ		0.0833			
Δ9-THC	< LOQ		0.0833			
THC-A	< LOQ		0.0833			
THC-Total	< LOQ		0.156			
THCV [†]	< LOQ		0.0833			
THCV-A [†]	< LOQ		0.0833			
THCV-Total [†]	< LOQ		0.156			
Total Cannabinoids [†]	75.9					



● CBD
● CBC
● CBE
● CBN
● CBG
● CBT
● CBD-A
● CBDV



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Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2111483	01/01/22	AOAC 2014.05 (RAPID)		X
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2111483	01/01/22	AOAC 2014.05 (RAPID)		X

Solvents	Method Residual Solvents by GC/MS				Units µg/g	Batch 2111490	Analyze 12/29/21 11:15 AM				
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
1-Butanol†	< LOQ		500			1-Pentanol†	< LOQ		500		
1,4-Dioxane	< LOQ		100			2-Butanol	< LOQ		200		
2-Ethoxyethanol	< LOQ		30.0			2-methyl-1-propanol†	< LOQ		500		
2-Methylbutane (Isopentane)	< LOQ		200			2-Methylpentane	< LOQ		30.0		
2-Propanol (IPA)	< LOQ		200			2,2-Dimethylbutane	< LOQ		30.0		
2,2-Dimethylpropane (neo-pentane)	< LOQ		200			2,3-Dimethylbutane	< LOQ		30.0		
3-Methyl-(1)-Butanol†	< LOQ		500			3-Methylpentane	< LOQ		30.0		
Acetone	< LOQ		200			Acetonitrile	< LOQ		100		
Anisole†	< LOQ		500			Benzene	< LOQ		1.00		
Butanes (sum)	< LOQ		400			Butyl acetate†	< LOQ		500		
Cyclohexane	< LOQ		200			Ethanol†	< LOQ		200		
Ethyl acetate	< LOQ		200			Ethyl benzene	< LOQ		200		
Ethyl ether	< LOQ		200			Ethyl Formate†	< LOQ		500		
Ethylene glycol	< LOQ		200			Ethylene oxide	< LOQ		20.0		
Hexanes (sum)	< LOQ		150			Isobutyl acetate†	< LOQ		500		
Isopropyl acetate	< LOQ		200			Isopropylbenzene (Cumene)	< LOQ		30.0		
m,p-Xylene	< LOQ		200			Methanol	< LOQ		200		
Methyl-t-butyl ether†	< LOQ		500			Methylacetat†	< LOQ		500		
Methylene chloride	< LOQ		60.0			Methylethylketone†	< LOQ		500		
Methylisobutylketone†	< LOQ		500			Methylpropane (Isobutane)	< LOQ		200		
n-Butane	< LOQ		200			n-Heptane	< LOQ		200		
n-Hexane	< LOQ		30.0			n-Pentane	< LOQ		200		
n-Propanol†	< LOQ		500			o-Xylene	< LOQ		200		
Pentanes (sum)	< LOQ		600			Propane	< LOQ		200		
Propyl Acetate†	< LOQ		500			Tetrahydrofuran	< LOQ		100		
Toluene	< LOQ		100			Total Residual Solvents	< LOQ		5,000		
Total Xylenes	< LOQ		400			Total Xylenes and Ethyl benzene	< LOQ		600		



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Pesticides						Method AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 2111539 Analyze 12/30/21 02:08 PM					
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin	< LOQ		0.250			Acephate	< LOQ		0.250		
Acequinocyl	< LOQ		1.00			Acetamiprid	< LOQ		0.100		
Aldicarb	< LOQ		0.200			Azoxystrobin	< LOQ		0.100		
Bifenazate	< LOQ		0.100			Bifenthrin	< LOQ		0.100		
Boscalid	< LOQ		0.200			Carbaryl	< LOQ		0.100		
Carbofuran	< LOQ		0.100			Chlorantraniliprole	< LOQ		0.100		
Chlorfenapyr	< LOQ		0.500			Chlorpyrifos	< LOQ		0.100		
Clofentezine	< LOQ		0.100			Cyfluthrin	< LOQ		0.500		
Cypermethrin	< LOQ		0.500			Daminozide	< LOQ		0.500		
Diazinon	< LOQ		0.100			Dichlorvos	< LOQ		0.500		
Dimethoate	< LOQ		0.100			Ethoprophos	< LOQ		0.100		
Etofenprox	< LOQ		0.200			Etoxazole	< LOQ		0.100		
Fenoxycarb	< LOQ		0.100			Fenpyroximate	< LOQ		0.200		
Fipronil	< LOQ		0.200			Flonicamid	< LOQ		0.400		
Fludioxonil	< LOQ		0.200			Hexythiazox	< LOQ		0.400		
Imazalil	< LOQ		0.100			Imidacloprid	< LOQ		0.200		
Kresoxim-methyl	< LOQ		0.200			Malathion	< LOQ		0.100		
Metalaxyl	< LOQ		0.100			Methiocarb	< LOQ		0.100		
Methomyl	< LOQ		0.200			MGK-264	< LOQ		0.100		
Myclobutanil	< LOQ		0.100			Naled	< LOQ		0.250		
Oxamyl	< LOQ		0.500			Paclobutrazole	< LOQ		0.200		
Parathion-Methyl	< LOQ		0.200			Permethrin	< LOQ		0.100		
Phosmet	< LOQ		0.100			Piperonyl butoxide	< LOQ		1.00		
Prallethrin	< LOQ		0.200			Propiconazole	< LOQ		0.200		
Propoxur	< LOQ		0.100			Pyrethrin I (total)	< LOQ		0.500		
Pyridaben	< LOQ		0.100			Spinosad	< LOQ		0.100		
Spiromesifen	< LOQ		0.100			Spirotetramat	< LOQ		0.100		
Spiroxamine	< LOQ		0.200			Tebuconazole	< LOQ		0.200		
Thiacloprid	< LOQ		0.100			Thiamethoxam	< LOQ		0.100		
Trifloxystrobin	< LOQ		0.100								

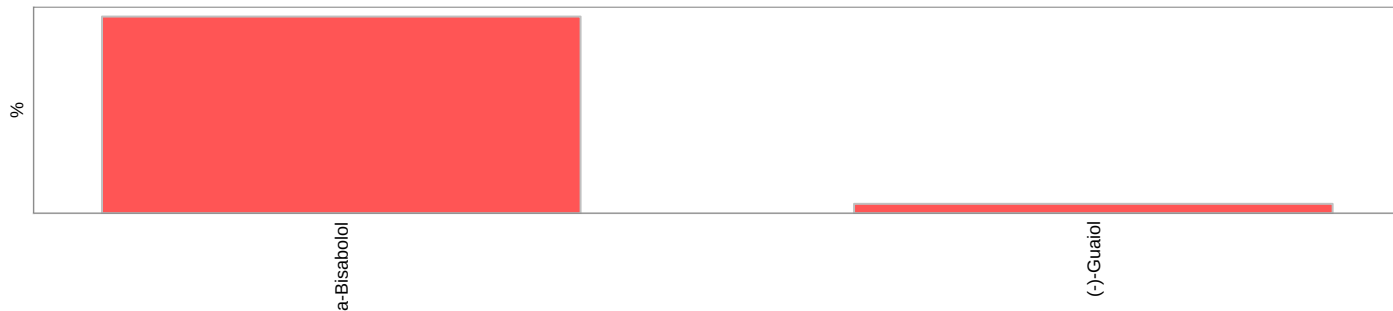


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Terpenes	Method J AOAC 2015 V98-6				Units %	Batch 2111556	Analyze 12/30/21	03:13 PM	
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
a-Bisabolol†	0.0781	0.019	72.3148%		(-)-Guaial†	0.0303	0.019	28.0556%	
(±)-trans-Nerolidol†	< LOQ	0.019	0.00%		β-Myrcene†	< LOQ	0.019	0.00%	
a-cedrene†	< LOQ	0.019	0.00%		β-Caryophyllene†	< LOQ	0.019	0.00%	
a-Terpinene†	< LOQ	0.019	0.00%		(-)-a-Terpineol†	< LOQ	0.019	0.00%	
Linalool†	< LOQ	0.019	0.00%		trans-β-Ocimene†	< LOQ	0.012	0.00%	
cis-β-Ocimene†	< LOQ	0.006	0.00%		gamma-Terpinene†	< LOQ	0.019	0.00%	
Humulene†	< LOQ	0.019	0.00%		(-)-caryophyllene oxide†	< LOQ	0.019	0.00%	
Terpinolene†	< LOQ	0.019	0.00%		nerol†	< LOQ	0.019	0.00%	
Sabinene†	< LOQ	0.019	0.00%		Sabinene hydrate†	< LOQ	0.019	0.00%	
p-Cymene†	< LOQ	0.019	0.00%		Geranyl acetate†	< LOQ	0.019	0.00%	
(R)-(+)-Limonene†	< LOQ	0.019	0.00%		(+)-Pulegone†	< LOQ	0.019	0.00%	
a-pinene†	< LOQ	0.019	0.00%		(+)-Borneol†	< LOQ	0.019	0.00%	
(+)-fenchol†	< LOQ	0.019	0.00%		(±)-Camphor†	< LOQ	0.019	0.00%	
(±)-fenchone†	< LOQ	0.019	0.00%		(-)-Isopulegol†	< LOQ	0.019	0.00%	
(-)-β-Pinene†	< LOQ	0.019	0.00%		(+)-Cedrol†	< LOQ	0.019	0.00%	
(±)-cis-Nerolidol†	< LOQ	0.019	0.00%		a-phellandrene†	< LOQ	0.019	0.00%	
Camphene†	< LOQ	0.019	0.00%		d-3-Carene†	< LOQ	0.019	0.00%	
Eucalyptol†	< LOQ	0.019	0.00%		farnesene†	< LOQ	0.019	0.00%	
Geraniol†	< LOQ	0.019	0.00%		Isoborneol†	< LOQ	0.019	0.00%	
Menthol†	< LOQ	0.019	0.00%		valencene†	< LOQ	0.019	0.00%	
Total Terpenes	0.108								





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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

cfu/g = Colony forming units per gram

µg/g = Microgram per gram

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

% = 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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Hemp / Cannabis Usable / Extract / Finished Products

Chain of Custody Record

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

Company: FSOil LLC Contact: Megan Iverson Street: 33739 S. Meridian Rd City: Woodburn State: OR Zip: 97071 ☒ Email Results: See FSOil Instructions Ph: (503) 634-2463 ☐ Fx Results: () Billing (if different): FSOil LLC				Analysis Requested								PO Number: 00024 Project Number: Project Name: FSOil Custom Reporting: Report to State - ☐ METRC or ☐ Other: Turnaround time: ☒ 5 Business Day Standard Turnaround ☐ 3 Business Day Rush Turnaround* ☐ 2 Business Day Rush Turnaround* <i>*Check for availability</i> Sampled by:		
Lab ID	Client Sample Identification	Date	Time	Potency	Terpenes	Micro: Yeast and Mold	Pesticide - OR	Residual Solvents - Class 3	Heavy Metals	Glyphosate	Salmonella Spp & Aerobic Plate Count	Sample Type †	Weight (Units)	Comments/Metric ID
	2-10A-8150-08156	12/23/21	9am	✓	✓	✓	✓	✓				C	20.9g	The samples in this COC are CO2 Hemp Extract and should be tested to the following specifications FSOil CO2 Hemp Extract
	2-10A-8150-08157	12/23/21	9am	✓	✓	✓	✓	✓				C	9.1g	
	774-40018	12/23/21	9am	✓	✓	✓	✓	✓				C	22.8g	
	2-10A-8151-08157	12/23/21	9am	✓	✓	✓	✓	✓				C	10.2g	
	2-10A-8152-08158	12/23/21	9am	✓	✓	✓	✓	✓				C	10.2g	
				NA										
				12/23/21										
Relinquished By:		Date	Time	Received By:		Date	Time	Lab Use Only:						
[Signature]		12/23/21	10am	[Signature]		12/24/21	9:55	☒ Shipped Via: USPS or ☐ Client drop Evidence of cooling: ☐ Yes ☒ No - Temp (°C): 18.1°C Sample in good condition: ☐ Yes ☒ No ☐ Cash ☐ Check ☐ CC ☐ Net: Prelog storage:						

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

Samples submitted to Columbia Laboratories with testing requirements constitute an agreement for services in accordance with the [current terms of service](#) associated with this COC. By signing "Relinquished by" you are agreeing to these terms
12423 NE Whitaker Way
Portland, OR 97230

P: (503) 254-1794 | Fax: (503) 254-1452
info@columbialaboratories.com

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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: 12/24/21 Time: 9:55

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): 9405 5036 9930 01172782 7

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: 18.1°C



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Revision: Document ID:
Legacy ID: Effective:

Laboratory Quality Control Results									
Residual Solvents					Batch ID: 2111490				
Method Blank					Laboratory Control Sample				
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		1570	1400	µg/g	112.4	70 - 130	
Isobutane	ND	< 200		2030	1780	µg/g	114.0	70 - 130	
Butane	ND	< 200		2070	1790	µg/g	115.6	70 - 130	
2,2-Dimethylpropane	ND	< 200		2370	2190	µg/g	108.2	70 - 130	
Methanol	ND	< 200		1740	1610	µg/g	108.1	70 - 130	
Ethylene Oxide	ND	< 30		168	143	µg/g	119.4	70 - 130	
2-Methylbutane	ND	< 200		1800	1630	µg/g	110.4	70 - 130	
Pentane	ND	< 200		1750	1610	µg/g	108.7	70 - 130	
Ethanol	ND	< 200		1860	1630	µg/g	114.1	70 - 130	
Ethyl Ether	ND	< 200		1780	1610	µg/g	110.6	70 - 130	
2,2-Dimethylbutane	ND	< 30		172	168	µg/g	104.2	70 - 130	
Acetone	ND	< 200		1740	1610	µg/g	108.1	70 - 130	
2-Propanol	ND	< 200		1670	1610	µg/g	103.7	70 - 130	
Ethyl Formate	ND	< 500		1600	1620	µg/g	98.8	70 - 130	
Acetonitrile	ND	< 100		448	498	µg/g	90.2	70 - 130	
Methyl Acetate	ND	< 500		2090	1810	µg/g	115.5	70 - 130	
2,3-Dimethylbutane	ND	< 30		159	162	µg/g	98.1	70 - 130	
Dichloromethane	ND	< 60		550	498	µg/g	110.4	70 - 130	
2-Methylpentane	ND	< 30		168	167	µg/g	101.2	70 - 130	
MTBE	ND	< 500		1720	1610	µg/g	106.8	70 - 130	
3-Methylpentane	ND	< 30		178	178	µg/g	97.8	70 - 130	
Hexane	ND	< 30		182	164	µg/g	111.0	70 - 130	
1-Propanol	ND	< 500		1740	1620	µg/g	107.4	70 - 130	
Methylethylketone	ND	< 500		1860	1770	µg/g	105.1	70 - 130	
Ethyl acetate	ND	< 200		1740	1620	µg/g	107.4	70 - 130	
2-Butanol	ND	< 200		1730	1600	µg/g	108.1	70 - 130	
Tetrahydrofuran	ND	< 100		568	500	µg/g	113.2	70 - 130	
Cyclohexane	ND	< 200		1810	1610	µg/g	112.4	70 - 130	
2-methyl-1-propanol	ND	< 500		1840	1610	µg/g	114.3	70 - 130	
Benzene	ND	< 1		6.44	5.62	µg/g	114.6	70 - 130	
Isopropyl Acetate	ND	< 200		1750	1610	µg/g	108.1	70 - 130	
Heptane	ND	< 200		1620	1610	µg/g	100.6	70 - 130	
1-Butanol	ND	< 500		1690	1620	µg/g	104.3	70 - 130	
Propyl Acetate	ND	< 500		1740	1620	µg/g	107.4	70 - 130	
1,4-Dioxane	ND	< 100		567	502	µg/g	112.9	70 - 130	
2-Ethoxyethanol	ND	< 30		193	164	µg/g	116.5	70 - 130	
Methylisobutylketone	ND	< 500		1720	1620	µg/g	106.2	70 - 130	
3-Methyl-1-butanol	ND	< 500		1700	1620	µg/g	104.9	70 - 130	
Ethylene Glycol	ND	< 200		455	502	µg/g	90.6	70 - 130	
Toluene	ND	< 200		463	488	µg/g	94.9	70 - 130	
Isobutyl Acetate	ND	< 500		1830	1700	µg/g	107.6	70 - 130	
1-Pentanol	ND	< 500		1750	1630	µg/g	107.4	70 - 130	
Butyl Acetate	ND	< 500		1800	1660	µg/g	108.4	70 - 130	
Ethylbenzene	ND	< 200		908	968	µg/g	94.2	70 - 130	
m,p-Xylene	ND	< 200		983	990	µg/g	99.1	70 - 130	
o-Xylene	ND	< 200		955	973	µg/g	98.2	70 - 130	
Cumene	ND	< 30		162	178	µg/g	90.9	70 - 130	
Anisole	ND	< 500		1670	1650	µg/g	101.2	70 - 130	
DMSO	ND	< 500		1680	1630	µg/g	103.1	70 - 130	
1,2-dimethoxyethane	ND	< 50		202	183	µg/g	109.8	70 - 130	
Triethylamine	ND	< 500		1610	1620	µg/g	99.4	70 - 130	
N,N-dimethylformamide	ND	< 150		513	498	µg/g	103.0	70 - 130	
N,N-dimethylacetamide	ND	< 150		538	502	µg/g	106.6	70 - 130	
Pyridine	ND	< 50		195	188	µg/g	104.8	70 - 130	
1,2-Dichloroethane	ND	< 1		1.15	1	µg/g	115.0	70 - 130	
Chloroform	ND	< 1		1.15	1	µg/g	115.0	70 - 130	
Trichloroethylene	ND	< 1		1.08	1	µg/g	108.0	70 - 130	
Ethylene Oxide	ND	< 1		1.17	1	µg/g	117.0	70 - 130	
Dichloromethane	ND	< 1		1.07	1	µg/g	107.0	70 - 130	
Benzene	ND	< 1		1.16	1	µg/g	116.0	70 - 130	



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503-254-1794



Report Number: 21-015041/D003.R000
Report Date: 01/04/2022
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Revision: Document ID:
Legacy ID: Effective:

QC - Sample Duplicate

Sample ID: 21-014904-0001

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	ND	ND	200 µg/g	0.0	< 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	
Ethyl Formate	ND	ND	500 µg/g	0.0	< 20	Acceptable	
Acetonitrile	ND	ND	100 µg/g	0.0	< 20	Acceptable	
Methyl Acetate	ND	ND	500 µg/g	0.0	< 20	Acceptable	
2,3-Dimethylbutane	ND	ND	30 µg/g	0.0	< 20	Acceptable	
Dichloromethane	81.4	82.2	60 µg/g	1.0	< 20	Acceptable	
2-Methylpentane	ND	ND	30 µg/g	0.0	< 20	Acceptable	
MTE	ND	ND	500 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	
1-Propanol	ND	ND	500 µg/g	0.0	< 20	Acceptable	
Methylcyclohexane	ND	ND	500 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	
2-methyl-1-propanol	ND	ND	500 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-Butanol	ND	ND	500 µg/g	0.0	< 20	Acceptable	
Propyl Acetate	ND	ND	500 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	
Methylcyclopentane	ND	ND	500 µg/g	0.0	< 20	Acceptable	
3-Methyl-1-butanol	ND	ND	500 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	
Isobutyl Acetate	ND	ND	500 µg/g	0.0	< 20	Acceptable	
1-Pentanol	ND	ND	500 µg/g	0.0	< 20	Acceptable	
Butyl Acetate	ND	ND	500 µg/g	0.0	< 20	Acceptable	
Ethylbenzene	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	
Anisole	ND	ND	500 µg/g	0.0	< 20	Acceptable	
DMSO	ND	ND	500 µg/g	0.0	< 20	Acceptable	
1,2-dimethoxyethane	ND	ND	50 µg/g	0.0	< 20	Acceptable	
Triethylamine	ND	ND	500 µg/g	0.0	< 20	Acceptable	
N,N-dimethylformamide	ND	ND	150 µg/g	0.0	< 20	Acceptable	
N,N-dimethylacetamide	ND	ND	150 µg/g	0.0	< 20	Acceptable	
Pyridine	ND	ND	50 µg/g	0.0	< 20	Acceptable	
1,2-Dichloroethane	ND	ND	1 µg/g	0.0	< 20	Acceptable	
Chloroform	ND	ND	1 µg/g	0.0	< 20	Acceptable	
Tetrachloroethylene	ND	ND	1 µg/g	0.0	< 20	Acceptable	
Ethylene Oxide	ND	ND	1 µg/g	0.0	< 20	Acceptable	
Dichloromethane	88.5	89.6	1 µg/g	1.2	< 20	Acceptable	
Benzene	ND	ND	1 µg/g	0.0	< 21	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



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Portland, OR 97230
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Report Number: 21-015041/D003.R000
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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662			Units: mg/Kg			Batch ID: 2111539		
Method Blank			Laboratory Control Sample					
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Acephate	0.000	< 0.250		0.989	1.000	98.9	73.4 - 136	
Acequinocyl	0.000	< 1.000		4.068	4.000	101.7	73.6 - 137	
Acetamiprid	0.000	< 0.100		0.400	0.400	100.1	73.1 - 136	
Aldicarb	0.000	< 0.200		0.810	0.800	101.2	74.6 - 139	
Abamectin	0.000	< 0.250		0.989	1.000	98.9	76.9 - 143	
Azoxystrobin	0.003	< 0.100		0.403	0.400	100.8	72.4 - 134	
Bifenazate	0.000	< 0.100		0.387	0.400	96.6	87.0 - 162	
Bifenthrin	0.000	< 0.100		0.403	0.400	100.7	72.5 - 135	
Boscalid	0.000	< 0.200		0.827	0.800	103.3	74.3 - 138	
Carbaryl	0.000	< 0.100		0.403	0.400	100.7	73.5 - 137	
Carbofuran	0.000	< 0.100		0.385	0.400	96.3	74.6 - 138	
Chlorantraniliprol	0.000	< 0.100		0.397	0.400	99.2	68.5 - 127	
Chlorfenapyr	0.000	< 0.500		2.295	2.000	114.7	73.4 - 136	
Chlorpyrifos	0.000	< 0.100		0.407	0.400	101.8	71.1 - 132	
Clofentezine	0.000	< 0.100		0.388	0.400	97.0	71.9 - 134	
Cyfluthrin	0.000	< 0.500		2.086	2.000	104.3	75.3 - 140	
Cypermethrin	0.000	< 0.500		1.990	2.000	99.5	73.7 - 137	
Daminozide	0.342	< 0.500		1.544	2.000	77.2	72.3 - 134	
Diazinon	0.000	< 0.100		0.400	0.400	100.1	75.2 - 140	
Dichlorvos	0.000	< 0.500		2.028	2.000	101.4	72.3 - 134	
Dimethoat	0.000	< 0.100		0.400	0.400	100.1	72.9 - 135	
Ethoprophos	0.000	< 0.100		0.412	0.400	103.1	72.1 - 134	
Etofenprox	0.000	< 0.200		0.755	0.800	94.4	75.2 - 140	
Etoxazol	0.000	< 0.100		0.420	0.400	105.0	74.5 - 138	
Fenoxycarb	0.000	< 0.100		0.401	0.400	100.2	72.7 - 135	
Fenpyroximat	0.000	< 0.200		0.822	0.800	102.8	74.2 - 138	
Fipronil	0.000	< 0.200		0.835	0.800	104.4	75.1 - 140	
Flonicamid	0.000	< 0.250		1.011	1.000	101.1	73.3 - 136	
Fludioxonil	0.000	< 0.200		0.780	0.800	97.5	75.5 - 140	
Hexythiazox	0.000	< 0.250		0.992	1.000	99.2	71.6 - 133	
Imazalil	0.000	< 0.100		0.424	0.400	106.1	75.0 - 139	
Imidacloprid	0.000	< 0.200		0.821	0.800	102.7	73.6 - 137	
Kresoxim-Methyl	0.000	< 0.200		0.799	0.800	99.8	73.5 - 136	
Malathion	0.000	< 0.100		0.402	0.400	100.6	73.7 - 137	
Metaxalyl	0.000	< 0.100		0.413	0.400	103.3	73.6 - 137	
Methiocarb	0.004	< 0.100		0.393	0.400	98.3	73.3 - 136	
Methomyl	0.000	< 0.200		0.863	0.800	107.8	72.2 - 134	
M/GK 264	0.000	< 0.100		0.397	0.400	99.2	73.7 - 137	
Myclobutanil	0.000	< 0.100		0.395	0.400	98.8	73.4 - 136	
Naled	0.000	< 0.250		0.997	1.000	99.7	73.5 - 137	
Oxamyl	0.000	< 0.500		2.045	2.000	102.3	72.8 - 135	
Paclobutrazol	0.000	< 0.200		0.810	0.800	101.2	73.3 - 136	
Parathion Methyl	0.000	< 0.200		0.850	0.800	106.3	75.8 - 141	
Permethrin	0.000	< 0.100		0.400	0.400	100.0	73.2 - 136	
Phosmet	0.000	< 0.100		0.411	0.400	102.7	73.2 - 136	
Piperonyl butoxide	0.000	< 0.500		1.963	2.000	98.1	76.0 - 141	
Prallethrin	0.000	< 0.100		0.378	0.400	94.5	73.6 - 137	
Propiconazole	0.000	< 0.200		0.801	0.800	100.1	73.5 - 136	
Propoxur	0.003	< 0.100		0.399	0.400	99.8	72.6 - 135	
Pyrethrins	0.000	< 0.100		0.465	0.413	112.6	67.8 - 126	
Pyridaben	0.000	< 0.100		0.402	0.400	100.4	73.1 - 136	
Spinosad	0.000	< 0.100		0.436	0.388	112.4	75.4 - 140	
Spiromesifen	0.000	< 0.100		0.382	0.400	95.4	74.7 - 139	
Spirotetramat	0.000	< 0.100		0.396	0.400	99.0	73.6 - 137	
Spiroxamine	0.000	< 0.200		0.799	0.800	99.9	71.6 - 133	
Tebuconazol	0.000	< 0.200		0.807	0.800	100.9	74.0 - 137	
Thiadoprid	0.000	< 0.100		0.396	0.400	98.9	73.5 - 137	
Thiamethoxam	0.000	< 0.100		0.401	0.400	100.2	71.7 - 133	
Trifloxystrobin	0.000	< 0.100		0.404	0.400	100.9	73.5 - 136	



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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662				Units: mg/Kg			Batch ID: 2111539						
Matrix Spike/Matrix Spike Duplicate Recoveries											Sample ID: 21-015041-0001		
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes			
Acephate	0.000	0.940	0.894	1.000	5.0%	< 30	94.0%	89.4%	50 - 150				
Acequinocyl	0.000	4.105	3.072	4.000	28.8%	< 30	102.6%	76.8%	50 - 150				
Acetamiprid	0.000	0.376	0.373	0.400	0.9%	< 30	94.0%	93.2%	50 - 150				
Aldicarb	0.000	1.980	0.841	0.800	80.7%	< 30	247.5%	105.2%	50 - 150	R, Q1			
Abamectin	0.000	1.058	0.972	1.000	8.4%	< 30	105.8%	97.2%	50 - 150				
Azoxystrobin	0.002	0.286	0.282	0.400	1.4%	< 30	70.8%	69.8%	50 - 150				
Bifenazate	0.020	0.403	0.424	0.400	5.2%	< 30	95.9%	101.1%	50 - 150				
Bifenthrin	0.000	0.188	0.174	0.400	7.5%	< 30	47.0%	43.6%	50 - 150	Q			
Boscalid	0.000	0.697	0.675	0.800	3.1%	< 30	87.1%	84.4%	50 - 150				
Carbaryl	0.000	0.340	0.341	0.400	0.1%	< 30	85.1%	85.2%	50 - 150				
Carbofuran	0.000	0.345	0.290	0.400	17.3%	< 30	86.3%	72.6%	50 - 150				
Chlorantraniliprol	0.000	0.407	0.394	0.400	3.3%	< 30	101.8%	98.6%	50 - 150				
Chlorfenapyr	0.000	1.067	1.198	2.000	11.6%	< 30	53.3%	59.9%	50 - 150				
Chlorpyrifos	0.252	0.674	0.672	0.400	0.3%	< 30	105.5%	105.2%	50 - 150				
Clofentezine	0.007	0.337	0.315	0.400	6.7%	< 30	82.3%	76.9%	50 - 150				
Cyfluthrin	0.000	1.032	1.295	2.000	22.6%	< 30	51.6%	64.7%	30 - 150				
Cypermethrin	0.000	0.904	0.967	2.000	6.7%	< 30	45.2%	48.3%	50 - 150	Q			
Daminozide	0.000	1.865	1.831	2.000	1.8%	< 30	93.2%	91.5%	30 - 150				
Diazinon	0.000	0.358	0.350	0.400	2.2%	< 30	89.5%	87.5%	50 - 150				
Dichlorvos	0.000	1.725	1.787	2.000	3.5%	< 30	86.3%	89.4%	50 - 150				
Dimethoat	0.000	0.400	0.375	0.400	6.4%	< 30	99.8%	93.6%	50 - 150				
Ethoprophos	0.000	0.386	0.355	0.400	8.4%	< 30	96.6%	88.8%	50 - 150				
Etofenprox	0.000	0.751	0.423	0.800	55.9%	< 30	93.9%	52.9%	50 - 150	R			
Etoxazol	0.000	0.291	0.303	0.400	3.8%	< 30	72.9%	75.7%	50 - 150				
Fenoxycarb	0.000	0.348	0.318	0.400	8.8%	< 30	87.0%	79.6%	50 - 150				
Fenpyroximat	0.000	0.508	0.513	0.800	0.9%	< 30	63.5%	64.1%	50 - 150				
Fipronil	0.000	0.553	0.556	0.800	0.6%	< 30	69.1%	69.5%	50 - 150				
Flonicamid	0.000	0.972	0.929	1.000	4.4%	< 30	97.2%	92.9%	50 - 150				
Fludioxonil	0.000	1.017	0.805	0.800	23.3%	< 30	127.2%	100.6%	50 - 150				
Hexythiazox	0.000	0.605	0.592	1.000	2.1%	< 30	60.5%	59.2%	50 - 150				
Imazalil	0.040	0.497	0.554	0.400	11.9%	< 30	114.1%	128.5%	50 - 150				
Imidacloprid	0.000	0.818	0.780	0.800	4.7%	< 30	102.2%	97.5%	50 - 150				
Kresoxim-Methyl	0.000	0.714	0.661	0.800	7.6%	< 30	89.2%	82.7%	50 - 150				
Malathion	0.062	0.337	0.318	0.400	7.1%	< 30	68.6%	63.9%	50 - 150				
Metaxalyl	0.000	0.378	0.363	0.400	4.0%	< 30	94.5%	90.7%	50 - 150				
Methiocarb	0.033	0.365	0.361	0.400	1.3%	< 30	83.0%	82.0%	50 - 150				
Methomyl	0.000	0.681	0.609	0.800	11.2%	< 30	85.1%	76.1%	50 - 150				
M/GK 264	0.019	0.393	0.380	0.400	3.7%	< 30	93.5%	90.1%	50 - 150				
Myclobutanil	0.018	0.324	0.296	0.400	9.6%	< 30	76.6%	69.6%	50 - 150				
Naled	0.000	0.826	0.837	1.000	1.4%	< 30	82.6%	83.7%	50 - 150				
Oxamyl	0.000	1.933	1.715	2.000	12.0%	< 30	96.6%	85.7%	50 - 150				
Paclobutrazol	0.000	0.655	0.631	0.800	3.6%	< 30	81.8%	78.9%	50 - 150				
Parathion Methyl	0.000	0.456	0.514	0.800	11.9%	< 30	57.1%	64.3%	30 - 150				
Permethrin	0.000	0.290	0.281	0.400	3.1%	< 30	72.4%	70.2%	50 - 150				
Phosmet	0.000	0.344	0.339	0.400	1.4%	< 30	85.9%	84.7%	50 - 150				
Piperonyl butoxide	0.000	1.596	1.524	2.000	4.6%	< 30	79.8%	76.2%	50 - 150				
Prallethrin	0.000	0.686	0.643	0.400	6.4%	< 30	171.4%	160.8%	50 - 150	Q1			
Propiconazole	0.000	0.695	0.649	0.800	6.8%	< 30	86.9%	81.2%	50 - 150				
Propoxur	0.000	0.353	0.347	0.400	1.9%	< 30	88.3%	86.7%	50 - 150				
Pyrethrins	0.000	0.432	0.405	0.413	6.4%	< 30	104.5%	98.0%	50 - 150				
Pyridaben	0.000	0.303	0.294	0.400	3.2%	< 30	75.8%	73.4%	50 - 150				
Spinosad	0.000	0.403	0.394	0.388	2.4%	< 30	103.9%	101.5%	50 - 150				
Spiromesifen	0.007	0.356	0.425	0.400	18.2%	< 30	87.1%	104.5%	50 - 150				
Spirotetramat	0.000	0.419	0.401	0.400	4.4%	< 30	104.8%	100.2%	50 - 150				
Spiroxamine	0.000	0.812	0.781	0.800	3.8%	< 30	101.5%	97.6%	50 - 150				
Tebuconazol	0.000	0.694	0.661	0.800	4.9%	< 30	86.8%	82.6%	50 - 150				
Thiadoprid	0.000	0.403	0.372	0.400	8.0%	< 30	100.7%	92.9%	50 - 150				
Thiamethoxam	0.000	0.408	0.337	0.400	19.2%	< 30	102.1%	84.2%	50 - 150				
Trifloxystrobin	0.000	0.259	0.261	0.400	0.7%	< 30	64.7%	65.1%	50 - 150				



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Laboratory Quality Control Results

JAOAC2015 V98-6				Batch ID: 2111546					
Laboratory Control Sample									
Analyte	Result	Spike	Units	% Rec	Limits		Evaluation	Notes	
CBDVA	0.204	0.2	%	102	85.0	- 115	Acceptable		
CBDV	0.226	0.2	%	113	85.0	- 115	Acceptable		
CBE	0.200	0.2	%	100	85.0	- 115	Acceptable		
CBDA	0.208	0.2	%	104	85.0	- 115	Acceptable		
CBGA	0.204	0.2	%	102	85.0	- 115	Acceptable		
CBG	0.209	0.2	%	104	85.0	- 115	Acceptable		
CBD	0.208	0.2	%	104	85.0	- 115	Acceptable		
THCV	0.203	0.2	%	101	85.0	- 115	Acceptable		
d8THCV	0.196	0.2	%	98.1	85.0	- 115	Acceptable		
THCVA	0.208	0.2	%	104	85.0	- 115	Acceptable		
CBN	0.207	0.2	%	104	85.0	- 115	Acceptable		
exo-THC	0.181	0.2	%	90.4	85.0	- 115	Acceptable		
d9THC	0.195	0.2	%	97.4	85.0	- 115	Acceptable		
d8THC	0.194	0.2	%	97.1	85.0	- 115	Acceptable		
CBL	0.184	0.2	%	92.0	85.0	- 115	Acceptable		
CBC	0.201	0.2	%	101	85.0	- 115	Acceptable		
THCA	0.202	0.2	%	101	85.0	- 115	Acceptable		
CBCA	0.206	0.2	%	103	85.0	- 115	Acceptable		
CBLA	0.201	0.2	%	101	85.0	- 115	Acceptable		
CBT	0.221	0.2	%	110	85.0	- 115	Acceptable		

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes	
CBDVA	<LOQ	0.1	%	< 0.1	Acceptable		
CBDV	<LOQ	0.1	%	< 0.1	Acceptable		
CBE	<LOQ	0.1	%	< 0.1	Acceptable		
CBDA	<LOQ	0.1	%	< 0.1	Acceptable		
CBGA	<LOQ	0.1	%	< 0.1	Acceptable		
CBG	<LOQ	0.1	%	< 0.1	Acceptable		
CBD	<LOQ	0.1	%	< 0.1	Acceptable		
THCV	<LOQ	0.1	%	< 0.1	Acceptable		
d8THCV	<LOQ	0.1	%	< 0.1	Acceptable		
THCVA	<LOQ	0.1	%	< 0.1	Acceptable		
CBN	<LOQ	0.1	%	< 0.1	Acceptable		
exo-THC	<LOQ	0.1	%	< 0.1	Acceptable		
d9THC	<LOQ	0.1	%	< 0.1	Acceptable		
d8THC	<LOQ	0.1	%	< 0.1	Acceptable		
CBL	<LOQ	0.1	%	< 0.1	Acceptable		
CBC	<LOQ	0.1	%	< 0.1	Acceptable		
THCA	<LOQ	0.1	%	< 0.1	Acceptable		
CBCA	<LOQ	0.1	%	< 0.1	Acceptable		
CBLA	<LOQ	0.1	%	< 0.1	Acceptable		
CBT	<LOQ	0.1	%	< 0.1	Acceptable		

Abbreviations

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

Units of Measure:

%- Percent



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Report Number: 21-015041/D003.R000
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Received: 12/24/21 09:55

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: 2111546						
Sample Duplicate		Sample ID: 21-015041-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBGA	0.238	0.243	0.1	%	1.80	< 20	Acceptable	
CBG	61.0	60.2	0.1	%	1.23	< 20	Acceptable	
CBD	2.80	2.81	0.1	%	0.180	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
d9THC	0.652	0.662	0.1	%	1.56	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBC	1.97	2.00	0.1	%	1.44	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBT	1.14	0.907	0.1	%	22.8	< 20	Outlier	

Abbreviations

ND - None Detected at or above MRL
RPD - Relative Percent Difference
LOQ - Limit of Quantitation
NA - Calculation Not Applicable given non-numerical results

Units of Measure:

%- Percent



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Terpenes Quality Control Results

Method Reference: EPA5035				Batch ID: 2111556					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	LCS	Units	LCS% Rec	Limits	Notes
a-pinene	<LOQ	< 200		516	500	µg/g	103%	70 - 130	
Camphene	<LOQ	< 200		432	500	µg/g	86%	70 - 130	
Sabinene	<LOQ	< 200		503	500	µg/g	101%	70 - 130	
b-Phene	<LOQ	< 200		559	500	µg/g	112%	70 - 130	
b-Myrcene	<LOQ	< 200		368	500	µg/g	74%	70 - 130	
a-phellandrene	<LOQ	< 200		371	500	µg/g	74%	70 - 130	
d-3-Carene	<LOQ	< 200		446	500	µg/g	89%	70 - 130	
a-Terpinene	<LOQ	< 200		473	500	µg/g	95%	70 - 130	
p-Cymene	<LOQ	< 200		397	500	µg/g	79%	70 - 130	
D-Limonene	<LOQ	< 200		493	500	µg/g	99%	70 - 130	
Eucalyptol	<LOQ	< 200		410	500	µg/g	82%	70 - 130	
b-cis-Cimene	<LOQ	< 67		148	167	µg/g	89%	70 - 130	
b-trans-Cimene	<LOQ	< 133		244	333	µg/g	73%	70 - 130	
g-Terpinene	<LOQ	< 200		505	500	µg/g	101%	70 - 130	
Sabinene Hydrate	<LOQ	< 200		546	500	µg/g	109%	70 - 130	
Terpinolene	<LOQ	< 200		500	500	µg/g	100%	70 - 130	
D-Fenchone	<LOQ	< 200		564	500	µg/g	113%	70 - 130	
Linalool	<LOQ	< 200		401	500	µg/g	80%	70 - 130	
Fenchol	<LOQ	< 200		550	500	µg/g	110%	70 - 130	
Camphor	<LOQ	< 200		403	500	µg/g	81%	70 - 130	
Isopulego	<LOQ	< 200		398	500	µg/g	80%	70 - 130	
Isoborneol	<LOQ	< 200		419	500	µg/g	84%	70 - 130	
Borneol	<LOQ	< 200		568	500	µg/g	114%	70 - 130	
DL-Menthol	<LOQ	< 200		401	500	µg/g	80%	70 - 130	
Terpineol	<LOQ	< 200		514	500	µg/g	103%	70 - 130	
Nerd	<LOQ	< 200		374	500	µg/g	75%	70 - 130	
Pulegone	<LOQ	< 200		532	500	µg/g	106%	70 - 130	
Geraniol	<LOQ	< 200		462	500	µg/g	92%	70 - 130	
Geranyl Acetate	<LOQ	< 200		379	500	µg/g	76%	70 - 130	
a-Cedrene	<LOQ	< 200		574	500	µg/g	115%	70 - 130	
b-Caryophyllene	<LOQ	< 200		462	500	µg/g	92%	70 - 130	
a-Humulene	<LOQ	< 200		594	500	µg/g	119%	70 - 130	
Valenene	<LOQ	< 200		392	500	µg/g	78%	70 - 130	
cis-Nerolidol	<LOQ	< 200		424	500	µg/g	85%	70 - 130	
a-Farnesene	<LOQ	< 200		416	500	µg/g	83%	70 - 130	
trans-Nerolidol	<LOQ	< 200		591	500	µg/g	118%	70 - 130	
Caryophyllene_Oxide	<LOQ	< 200		463	500	µg/g	93%	70 - 130	
Quaiol	<LOQ	< 200		632	500	µg/g	126%	70 - 130	
Cedrol	<LOQ	< 200		455	500	µg/g	91%	70 - 130	
a-Bisabolol	<LOQ	< 200		452	500	µg/g	90%	70 - 130	

Definitions

LQ	Limit of Quantitation
LCS	Laboratory Control Sample
% REC	Percent Recovery



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Terpenes Quality Control Results

Method Reference: EPA5035			Batch ID: 2111556				
Sample/ Sample Duplicate		Sample ID: 21-015041-0001					
Analyte	Result	Org. Result	LOQ	Units	% RPD	LIMIT	Notes
a-pinene	<LOQ	<LOQ	197	µg/g	0%	< 20	
Camphene	<LOQ	<LOQ	197	µg/g	0%	< 20	
Sabinene	<LOQ	<LOQ	197	µg/g	0%	< 20	
b-Pinene	<LOQ	<LOQ	197	µg/g	0%	< 20	
b-Myrcene	<LOQ	<LOQ	197	µg/g	0%	< 20	
a-phellandrene	<LOQ	<LOQ	197	µg/g	0%	< 20	
d-3-Carene	<LOQ	<LOQ	197	µg/g	0%	< 20	
a-Terpinene	<LOQ	<LOQ	197	µg/g	0%	< 20	
p-Cymene	<LOQ	<LOQ	197	µg/g	0%	< 20	
D-Limonene	<LOQ	<LOQ	197	µg/g	0%	< 20	
Eucalyptol	<LOQ	<LOQ	197	µg/g	0%	< 20	
b-cis-Cimene	<LOQ	<LOQ	65.7	µg/g	0%	< 20	
b-trans-Cimene	<LOQ	<LOQ	131	µg/g	0%	< 20	
g-Terpinene	<LOQ	<LOQ	197	µg/g	0%	< 20	
Sabinene Hydrate	<LOQ	<LOQ	197	µg/g	0%	< 20	
Terpinolene	<LOQ	<LOQ	197	µg/g	0%	< 20	
D-Fenchone	<LOQ	<LOQ	197	µg/g	0%	< 20	
Linalool	<LOQ	<LOQ	197	µg/g	0%	< 20	
Fenchol	<LOQ	<LOQ	197	µg/g	0%	< 20	
Camphor	<LOQ	<LOQ	197	µg/g	0%	< 20	
Isopulego	<LOQ	<LOQ	197	µg/g	0%	< 20	
Isoborneol	<LOQ	<LOQ	197	µg/g	0%	< 20	
Borneol	<LOQ	<LOQ	197	µg/g	0%	< 20	
DL-Menthol	<LOQ	<LOQ	197	µg/g	0%	< 20	
Terpineol	<LOQ	<LOQ	197	µg/g	0%	< 20	
Nerol	<LOQ	<LOQ	197	µg/g	0%	< 20	
Pulegone	<LOQ	<LOQ	197	µg/g	0%	< 20	
Geraniol	<LOQ	<LOQ	197	µg/g	0%	< 20	
Geranyl Acetate	<LOQ	<LOQ	197	µg/g	0%	< 20	
a-Cedrene	<LOQ	<LOQ	197	µg/g	0%	< 20	
b-Caryophyllene	1590	1600	197	µg/g	1%	< 20	
a-Humulene	1020	1040	197	µg/g	2%	< 20	
Valenene	<LOQ	<LOQ	197	µg/g	0%	< 20	
cis-Nerolidol	<LOQ	<LOQ	197	µg/g	0%	< 20	
a-Farnesene	2560	2460	197	µg/g	4%	< 20	
trans-Nerolidol	479	514	197	µg/g	7%	< 20	
Caryophyllene Oxide	<LOQ	<LOQ	197	µg/g	0%	< 20	
Guaiol	2640	2790	197	µg/g	6%	< 20	
Cedrol	<LOQ	<LOQ	197	µg/g	0%	< 20	
a-Bisabolol	5100	5270	197	µg/g	3%	< 20	

Definitions

RPD

Relative Percent Difference



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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.