Columbia LABORATORIES
A Tentamus Company

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

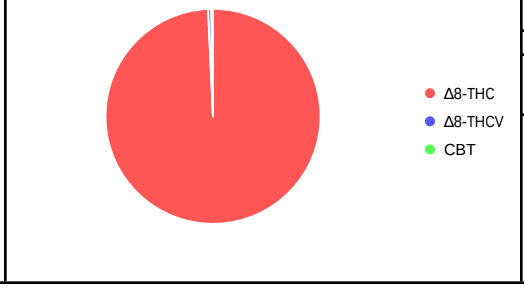
Report Number: 21-008392/D006.R000
Report Date: 07/30/2021
ORELAP#: OR100028
Purchase Order:
Received: 07/22/21 15:42

Customer: KIK By Kalibloom
Product identity: Fire OG
Client/Metrc ID: .
Laboratory ID: 21-008392-0004 **Sample Date:** 07/19/21 15:00

Summary

Potency:

Analyte	Result (%)
Δ8-THC†	91.8
Δ8-THCV	0.445
CBT†	0.223



CBD-Total	<LOQ
THC-Total	<LOQ

(Reported in percent of total sample)

Residual Solvents:

Analyte	Result (µg/g)	Limits (µg/g)	Status
n-Heptane	1650	5000	pass

Pesticides:

All analytes passing and less than LOQ.

Terpenes:

Analyte	Percent by weight	Percent of Total	Analyte	Percent by weight	Percent of Total
Terpinolene†	1.74	36.10%	(R)-(+)-Limonene†	0.859	17.82%
ß-Caryophyllene†	0.605	12.55%	ß-Myrcene†	0.363	7.53%
(-)-ß-Pinene†	0.350	7.26%	p-Cymene†	0.213	4.42%
a-pinene†	0.179	3.71%	a-Bisabolol†	0.0897	1.86%
Linalool†	0.0657	1.36%	Humulene†	0.0595	1.23%
a-phellandrene†	0.0540	1.12%	d-3-Carene†	0.0528	1.10%
(-)-a-Terpineol†	0.0462	0.96%	a-Terpinene†	0.0432	0.90%
nerol†	0.0430	0.89%	(+)-fenchol†	0.0332	0.69%
gamma-Terpinene†	0.0262	0.54%	**Total Terpenes†**	**4.82**	**100.00%**

Metals:

Less than LOQ for all analytes.

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ORELAP#: OR100028
Purchase Order:
Received: 07/22/21 15:42

Customer: KIK By Kalibloom
United States of America (USA)

Product identity: Fire OG
Client/Metrc ID: .
Sample Date: 07/19/21 15:00
Laboratory ID: 21-008392-0004
Evidence of Cooling: No
Temp: 23.6 °C

Sample Results

Potency **Method** J AOAC 2015 V98-6 (mod) **Units** % **Batch:** 2106661 **Analyze:** 7/26/21 10:58:00 PM

Analyte	As Received	Dry weight	LOQ	Notes
CBC	< LOQ		0.0934	
CBC-A†	< LOQ		0.0934	
CBC-Total†	< LOQ		0.175	
CBD	< LOQ		0.0934	
CBD-A	< LOQ		0.0934	
CBD-Total	< LOQ		0.175	
CBDV†	< LOQ		0.0934	
CBDV-A†	< LOQ		0.0934	
CBDV-Total†	< LOQ		0.174	
CBE†	< LOQ		0.0934	
CBG†	< LOQ		0.0934	
CBG-A†	< LOQ		0.0934	
CBG-Total	< LOQ		0.174	
CBL†	< LOQ		0.0934	
CBL-A†	< LOQ		0.0934	
CBL-Total†	< LOQ		0.175	
CBN	< LOQ		0.0934	
CBT†	0.223		0.0934	
Δ8-THC†	91.8		0.934	
Δ8-THCV	0.445		0.0934	
Δ9-THC	< LOQ		0.0934	
THC-A	< LOQ		0.0934	
THC-Total	< LOQ		0.175	
THCV†	< LOQ		0.0934	
THCV-A†	< LOQ		0.0934	
THCV-Total†	< LOQ		0.174	
Total Cannabinoids†	92.5			

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Purchase Order:
Received: 07/22/21 15:42

Solvents **Method** Residual Solvents by GC/MS **Units** µg/g **Batch** 2106609 **Analyze** 07/26/21 01:52 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	< LOQ		200		
2-Methylpentane	< LOQ		30.0			2-Propanol (IPA)	< LOQ	5000	200	pass	
2,2-Dimethylbutane	< LOQ		30.0			2,2-Dimethylpropane	< LOQ		200		
2,3-Dimethylbutane	< 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	
Isopropylbenzene	< LOQ	70.0	30.0	pass		m,p-Xylene	< LOQ		200		
Methanol	< LOQ	3000	200	pass		Methylene chloride	< LOQ	600	60.0	pass	
Methylpropane	< LOQ		200			n-Butane	< LOQ		200		
n-Heptane	1650	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	< LOQ	2170	600	pass	

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Purchase Order:
Received: 07/22/21 15:42

Pesticides **Method** AOAC 2007.01 & EN 15662 (mod) **Units** mg/kg **Batch** 2106667 **Analyze** 07/27/21 04:25 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		Flonicamid	< 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							

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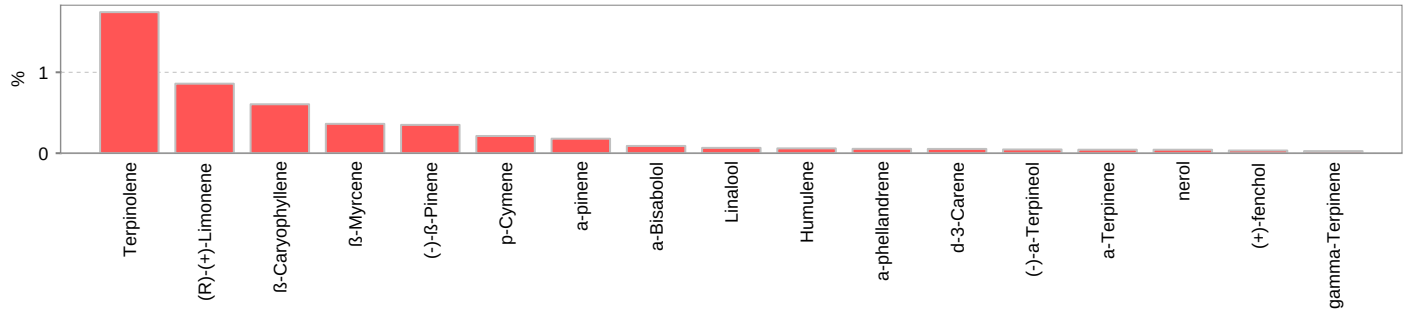
Terpenes

Method J AOAC 2015 V98-6 **Units** % **Batch** 2106687 **Analyze** 07/27/21 07:45 PM

Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
Terpinolene†	1.74	0.019	36.10%		(R)-(+)-Limonene†	0.859	0.019	17.82%	
ß-Caryophyllene†	0.605	0.019	12.55%		ß-Myrcene†	0.363	0.019	7.53%	
(-)-ß-Pinene†	0.350	0.019	7.26%		p-Cymene†	0.213	0.019	4.42%	
a-pinene†	0.179	0.019	3.71%		a-Bisabolol†	0.0897	0.019	1.86%	
Linalool†	0.0657	0.019	1.36%		Humulene†	0.0595	0.019	1.23%	
a-phellandrene†	0.0540	0.019	1.12%		d-3-Carene†	0.0528	0.019	1.10%	
(-)-a-Terpineol†	0.0462	0.019	0.96%		a-Terpinene†	0.0432	0.019	0.90%	
nerol†	0.0430	0.019	0.89%		(+)-fenchol†	0.0332	0.019	0.69%	
gamma-Terpinene†	0.0262	0.019	0.54%		Geraniol†	< LOQ	0.019	0.00%	
Camphene†	< LOQ	0.019	0.00%		Sabinene†	< LOQ	0.019	0.00%	
(-)-caryophyllene oxide†	< LOQ	0.019	0.00%		Menthol†	< LOQ	0.019	0.00%	
trans-ß-Ocimene†	< LOQ	0.013	0.00%		cis-ß-Ocimene†	< LOQ	0.006	0.00%	
(±)-Camphor†	< LOQ	0.019	0.00%		Sabinene hydrate†	< LOQ	0.019	0.00%	
(-)-Isopulegol†	< LOQ	0.019	0.00%		(+)-Borneol†	< LOQ	0.019	0.00%	
(-)-Guaiol†	< LOQ	0.019	0.00%		(+)-Cedrol†	< LOQ	0.019	0.00%	
(+)-Pulegone†	< LOQ	0.019	0.00%		(±)-cis-Nerolidol†	< LOQ	0.019	0.00%	
(±)-fenchone†	< LOQ	0.019	0.00%		(±)-trans-Nerolidol†	< LOQ	0.019	0.00%	
a-cedrene†	< LOQ	0.019	0.00%		Eucalyptol†	< LOQ	0.019	0.00%	
farnesene†	< LOQ	0.019	0.00%		Geranyl acetate†	< LOQ	0.019	0.00%	
Isoborneol†	< LOQ	0.019	0.00%		valencene†	< LOQ	0.019	0.00%	
Total Terpenes	**4.82**								



Metals

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Arsenic	< LOQ		mg/kg	0.0480	2106701	07/28/21	AOAC 2013.06 (mod.)	X
Cadmium	< LOQ		mg/kg	0.0480	2106701	07/28/21	AOAC 2013.06 (mod.)	X
Lead	< LOQ		mg/kg	0.0480	2106701	07/28/21	AOAC 2013.06 (mod.)	X
Mercury	< LOQ		mg/kg	0.0240	2106701	07/28/21	AOAC 2013.06 (mod.)	X

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Received:	07/22/21 15:42

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

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

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

Columbia LABORATORIES
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Received: 07/22/21 15:42

KIKBYKALIB 21-008392
KIK By Kalibloom

Columbia LABORATORIES
A Tentamus Company

Hemp / Cannabis Usable / Extract
Chain of Custody Record

Revision: 3.01 Control#: CF023 Rev 02/26/2020 Eff: 02/27/2020
ORELAP ID: **OR100028**

Company: KIK BY KALIBLOOM
Contact: TAYLOR
Street: 2315 ERVESELL RD STE A-4 #340
City: LAS VEGAS State: NV Zip: 89120
Email Results: KALIBLOOMWORLDWIDE@GMAIL.COM
Ph: (909) 521-0052 ☐ Fx Results: (___)
Billing (if different): BILL TO KALIBLOOM

PO Number:
Project Number:
Project Name:
Custom Reporting:
Report to State - ☐ METRC or ☐ Other:
Turnaround time: ☐ Standard ☒ Rush * ☐ Priority Rush *
*Ask for availability
Sampled by:

Lab ID	Client Sample Identification	Date	Time	Analysis Requested: POTENCY	METALS	SOLVENTS	PESTICIDES	TERPENES	Sample Type †	Weight (Units)	Comments/Metrc ID
	BERRY KUSH	07/19	2000	X	X	X	X	X	C	4GR	
	BISCOTTI	07/19	2000	X	X	X	X	X	C	4GR	
	CHEMDAWG	07/19	2000	X	X	X	X	X	C	4GR	
	FIRE OG	07/19	2000	X	X	X	X	X	C	4GR	
	GELATO #41	07/19	2000	X	X	X	X	X	C	4GR	
	GRAPE APE	07/19	2000	X	X	X	X	X	C	4GR	
	GUAVA	07/19	2000	X	X	X	X	X	C	4GR	
	GUSHERS	07/19	2000	X	X	X	X	X	C	4GR	
	KING LOUIS XIII	07/19	2000	X	X	X	X	X	C	4GR	
	LEMON CAKE	07/19	2000	X	X	X	X	X	C	4GR	
	PAPAYA ROSIN	07/19	2000	X	X	X	X	X	C	4GR	

Relinquished By:	Date	Time	Received By:	Date	Time
[signature]	07/19	2000	[signature]	07/22/21	1542

Lab Use Only:
☐ Shipped Via: UPS or ☐ Client drop
Evidence of cooling: ☐ Yes | ☒ No - Temp (°C): 23.6
Sample in good condition: ☐Yes | ☐ No
☐ Cash | ☐ Check | ☐ CC | ☐ Net:
Prelog storage:

† - Sample Type Codes: Vegitation (V) ; Isolates (S) ; Extract/Concentrate (C)

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

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Columbia LABORATORIES
A Tentamus Company

Hemp / Cannabis Usable / Extract
Chain of Custody Record

Revision: 3.01 Control#: CF023 Rev 02/26/2020 Eff: 02/27/2020
ORELAP ID: **OR100028**

KIKBYKALIB 21-008392
KIK By Kalibloom

Company: KIK BY KALIBLOOM
Contact: TAYLOR
Street: 2316 E KIRKELL RD STE A-4 #240
City: LAS VEGAS State: NV Zip: 89120
Email Results: KALIBLOOMWORLDWIDE@GMAIL.COM
Ph: 619 5610652 ☐ Fx Results: (___)_____
Billing (if different): BILL TO KALIBLOOM

PO Number: _____
Project Number: _____
Project Name: _____
Custom Reporting: _____
Report to State - ☐ METRC or ☐ Other: _____
Turnaround time: ☐ Standard ☒ Rush * ☐ Priority Rush *
*Ask for availability
Sampled by: _____

Lab ID	Client Sample Identification	Date	Time	Analysis Requested: POTENCY	METALS	SOLVENTS	PESTICIDES	TERPENES	Sample Type †	Weight (Units)	Comments/Metrc ID
	RUNTZ	07/19	2000	X	X	X	X	X	C	4GR	
	SOUR DIESEL SAUCE	07/19	2000	X	X	X	X	X	C	4GR	
	GORILLA GLUE	07/19	2000	X	X	X	X	X	C	4GR	
	BLUE DREAM	07/19	2000	X	X	X	X	X	C	4GR	

Relinquished By:	Date	Time	Received By:	Date	Time
	07/19	2000			

Lab Use Only:
☐ Shipped Via: _____ or ☐ Client drop
Evidence of cooling: ☐ Yes | ☐ No - Temp (°C): _____
Sample in good condition: ☐Yes| ☐ No _____
☐ Cash | ☐ Check | ☐ CC | ☐ Net: _____
Prelog storage: _____

† - Sample Type Codes: Vegitation (V) ; Isolates (S) ; Extract/Concentrate (C)

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Portland, OR 97230
P: (503) 254-1794 | Fax: (503) 254-1452
info@columbialaboratories.com
www.columbialaboratories.com

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Hemp / Cannabis Usable / Extract
Chain of Custody Record

Revision: 3.01 Control#: CF023 Rev 02/26/2020 Eff: 02/27/2020
ORELAP ID: **OR100028**

KIKBYKALIB 21-008392

KIK By Kalibloom

Company: KALIBLOOM
Contact: TAYLOR
Street: 3315 E. RUSSELL RD STE A-4 #240
City: LAS VEGAS State: NV Zip: 89120
☒ Email Results: KALIBLOOMWORLDWIDE@GMAIL.COM
Ph: (702) 501-0052 ☐ Fx Results: (___)_____
Billing (if different):_____

PO Number: _____
Project Number: _____
Project Name: _____
Custom Reporting: _____
Report to State - ☐ METRC or ☐ Other:_____
Turnaround time: ☒ Standard ☐ Rush * ☐ Priority Rush *
*Ask for availability
Sampled by: _____

Lab ID	Client Sample Identification	Date	Time	Analysis Requested: POTENCY	METALS	PESTICIDES	TERPENES	MOISTURE	WATER ACTIVITY	Sample Type †	Weight (Units)	Comments/Metrc ID
	LEMON SKUNK	07/19	3:30	X	X	X	X	X	X	V	15 GR	

Relinquished By:	Date	Time	Received By:	Date	Time
	07/19	3:30			

Lab Use Only:
☐ Shipped Via: _____ or ☐ Client drop
Evidence of cooling: ☐ Yes | ☐ No - Temp (°C): _____
Sample in good condition: ☐Yes| ☐ No _____
☐ Cash | ☐ Check | ☐ CC | ☐ Net: _____
Prelog storage: _____

† - Sample Type Codes: Vegitation (V) ; Isolates (S) ; Extract/Concentrate (C)

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ORELAP#: OR100028
Purchase Order:
Received: 07/22/21 15:42

KIKBYKALIB 21-008392

KIK By Kalibloom

Columbia Laboratories
Sample Receipt Form

Revision: 2.00 Document Control: CF015
Revised: 01/11/2021 Effective: 03/16/2021

Job Number

Search Name: _____

Package/Cooler opened on (if different than received date/time) Date: 7/22/21 Time: 1542

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

		YES	NO	NA
1)	Were custody seals on outside of the package/cooler? If YES, how many and where? _____			(NA)
	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): 2017 1608 1507

		YES	NO	NA
5)	Was packing material used?		(NO)	NA
	Peanuts Bubble Wrap Foam Paper Other:			
6)	Was temperature upon receipt 4°C+- 2°C (if appropriate)? If not, client contacted: _____	YES	NO	(NA)
	Proceed?	YES	NO	
7)	Was there evidence of cooling? What kind?	YES	(NO)	NA
	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: _____

Page _____ of _____

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 21-008392/D006.R000
Report Date: 07/30/2021
ORELAP#: OR100028
Purchase Order:
Received: 07/22/21 15:42

Laboratory Quality Control Results

Residual Solvents **Batch ID:** 2106609

Method Blank					Laboratory Control Sample						
Analyte	Result		LOQ	Notes	Result	Spike	Units	% Rec	Limits		Notes
Propane	ND	<	200		431	595	µg/g	72.4	70	- 130	
Isobutane	ND	<	200		610	761	µg/g	80.2	70	- 130	
Butane	ND	<	200		623	761	µg/g	81.9	70	- 130	
2,2-Dimethylpropane	ND	<	200		800	955	µg/g	83.8	70	- 130	
Ethylene Oxide	ND	<	30		47.6	58.3	µg/g	81.6	70	- 130	
Ethyl Formate	ND	<	500		1610	1610	µg/g	100.0	70	- 130	
Methyl Acetate	ND	<	500		1660	1610	µg/g	103.1	70	- 130	
MTBE	ND	<	500		1650	1600	µg/g	103.1	70	- 130	
1-Propanol	ND	<	500		1640	1620	µg/g	101.2	70	- 130	
Methylethylketone	ND	<	500		1500	1610	µg/g	93.2	70	- 130	
2-methyl-1-propanol	ND	<	500		1580	1610	µg/g	98.1	70	- 130	
1-Butanol	ND	<	500		1280	1620	µg/g	79.0	70	- 130	
Propyl Acetate	ND	<	500		1670	1610	µg/g	103.7	70	- 130	
Methylisobutylketone	ND	<	500		1610	1620	µg/g	99.4	70	- 130	
3-Methyl-1-butanol	ND	<	500		1610	1610	µg/g	100.0	70	- 130	
Isobutyl Acetate	ND	<	500		1420	1620	µg/g	87.7	70	- 130	
1-Pentanol	ND	<	500		1320	1620	µg/g	81.5	70	- 130	
Butyl Acetate	ND	<	500		1500	1620	µg/g	92.6	70	- 130	
Anisole	ND	<	500		1760	1640	µg/g	107.3	70	- 130	
DMSO	ND	<	500		1910	1620	µg/g	117.9	70	- 130	
1,2-dimethoxyethane	ND	<	50		144	162	µg/g	88.9	70	- 130	
Triethylamine	ND	<	500		1590	1610	µg/g	98.8	70	- 130	
N,N-dimethylformamide	ND	<	150		551	487	µg/g	113.1	70	- 130	
N,N-dimethylacetamide	ND	<	150		554	492	µg/g	112.6	70	- 130	
Pyridine	ND	<	50		133	165	µg/g	80.6	70	- 130	

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 21-008392/D006.R000
Report Date: 07/30/2021
ORELAP#: OR100028
Purchase Order:
Received: 07/22/21 15:42

QC - Sample Duplicate **Sample ID: 21-008145-0001**

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	
Ethylene Oxide	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Ethyl Formate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Methyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
MTBE	ND	ND	500	µg/g	0.0	< 20	Acceptable	
1-Propanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Methylethylketone	ND	ND	500	µg/g	0.0	< 20	Acceptable	
2-methyl-1-propanol	ND	ND	500	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	
Methylisobutylketone	ND	ND	500	µg/g	0.0	< 20	Acceptable	
3-Methyl-1-butanol	ND	ND	500	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	
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	

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

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 21-008392/D006.R000
Report Date: 07/30/2021
ORELAP#: OR100028
Purchase Order:
Received: 07/22/21 15:42

Laboratory Quality Control Results

Residual Solvents							Batch ID:	2106609				
Method Blank					Laboratory Control Sample							
Analyte	Result		LOQ	Notes	Result	Spike	Units	% Rec	Limits			Notes
Methanol	ND	<	200		1560	1610	µg/g	96.9	70	-	130	
2-Methylbutane	ND	<	200		1480	1610	µg/g	91.9	70	-	130	
Pentane	ND	<	200		1510	1620	µg/g	93.2	70	-	130	
Ethanol	ND	<	200		1680	1610	µg/g	104.3	70	-	130	
Ethyl Ether	ND	<	200		1610	1610	µg/g	100.0	70	-	130	
2,2-Dimethylbutane	ND	<	30		149	172	µg/g	86.6	70	-	130	
Acetone	ND	<	200		1560	1600	µg/g	97.5	70	-	130	
2-Propanol	ND	<	200		1730	1620	µg/g	106.8	70	-	130	
Acetonitrile	ND	<	100		495	501	µg/g	98.8	70	-	130	
2,3-Dimethylbutane	ND	<	30		187	163	µg/g	114.7	70	-	130	
Dichloromethane	ND	<	60		504	483	µg/g	104.3	70	-	130	
2-Methylpentane	ND	<	30		195	164	µg/g	118.9	70	-	130	
3-Methylpentane	ND	<	30		167	164	µg/g	101.8	70	-	130	
Hexane	ND	<	30		181	163	µg/g	111.0	70	-	130	
Ethyl acetate	ND	<	200		1670	1610	µg/g	103.7	70	-	130	
2-Butanol	ND	<	200		1740	1620	µg/g	107.4	70	-	130	
Tetrahydrofuran	ND	<	100		558	500	µg/g	111.6	70	-	130	
Cyclohexane	ND	<	200		1590	1610	µg/g	98.8	70	-	130	
Benzene	ND	<	1		5.75	5.42	µg/g	106.1	70	-	130	
Isopropyl Acetate	ND	<	200		1640	1600	µg/g	102.5	70	-	130	
Heptane	ND	<	200		1490	1600	µg/g	93.1	70	-	130	
1,4-Dioxane	ND	<	100		510	490	µg/g	104.1	70	-	130	
2-Ethoxyethanol	ND	<	30		163	163	µg/g	100.0	70	-	130	
Ethylene Glycol	ND	<	200		53.1	484	µg/g	11.0	70	-	130	
Toluene	ND	<	200		505	482	µg/g	104.8	70	-	130	
Ethylbenzene	ND	<	200		1120	970	µg/g	115.5	70	-	130	
m,p-Xylene	ND	<	200		1110	991	µg/g	112.0	70	-	130	
o-Xylene	ND	<	200		1150	967	µg/g	118.9	70	-	130	
Cumene	ND	<	30		203	169	µg/g	120.1	70	-	130	

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 21-008392/D006.R000
Report Date: 07/30/2021
ORELAP#: OR100028
Purchase Order:
Received: 07/22/21 15:42

QC - Sample Duplicate **Sample ID: 21-008145-0001**

Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Accept/Fail	Notes
Methanol	ND	ND	200	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	
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	

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

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 21-008392/D006.R000
Report Date: 07/30/2021
ORELAP#: OR100028
Purchase Order:
Received: 07/22/21 15:42

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: 2106661**

Laboratory Control Sample

Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	0.204	0.2	%	102	85.0 - 115	Acceptable	
CBDV	0.205	0.2	%	103	85.0 - 115	Acceptable	
CBE	0.207	0.2	%	104	85.0 - 115	Acceptable	
CBDA	0.208	0.2	%	104	85.0 - 115	Acceptable	
CBGA	0.207	0.2	%	103	85.0 - 115	Acceptable	
CBG	0.204	0.2	%	102	85.0 - 115	Acceptable	
CBD	0.212	0.2	%	106	85.0 - 115	Acceptable	
THCV	0.202	0.2	%	101	85.0 - 115	Acceptable	
d8THCV	0.204	0.2	%	102	85.0 - 115	Acceptable	
THCVA	0.196	0.2	%	98.1	85.0 - 115	Acceptable	
CBN	0.217	0.2	%	108	85.0 - 115	Acceptable	
exo-THC	0.194	0.2	%	97.2	85.0 - 115	Acceptable	
d9THC	0.212	0.2	%	106	85.0 - 115	Acceptable	
d8THC	0.194	0.2	%	96.8	85.0 - 115	Acceptable	
CBL	0.195	0.2	%	97.4	85.0 - 115	Acceptable	
CBC	0.210	0.2	%	105	85.0 - 115	Acceptable	
THCA	0.200	0.2	%	100	85.0 - 115	Acceptable	
CBCA	0.199	0.2	%	99.6	85.0 - 115	Acceptable	
CBLA	0.210	0.2	%	105	85.0 - 115	Acceptable	
CBT	0.216	0.2	%	108	85.0 - 115	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.01	%	< 0.01	Acceptable	
CBDV	<LOQ	0.01	%	< 0.01	Acceptable	
CBE	<LOQ	0.01	%	< 0.01	Acceptable	
CBDA	<LOQ	0.01	%	< 0.01	Acceptable	
CBGA	<LOQ	0.01	%	< 0.01	Acceptable	
CBG	<LOQ	0.01	%	< 0.01	Acceptable	
CBD	<LOQ	0.01	%	< 0.01	Acceptable	
THCV	<LOQ	0.01	%	< 0.01	Acceptable	
d8THCV	<LOQ	0.01	%	< 0.01	Acceptable	
THCVA	<LOQ	0.01	%	< 0.01	Acceptable	
CBN	<LOQ	0.01	%	< 0.01	Acceptable	
exo-THC	<LOQ	0.01	%	< 0.01	Acceptable	
d9THC	<LOQ	0.01	%	< 0.01	Acceptable	
d8THC	<LOQ	0.01	%	< 0.01	Acceptable	
CBL	<LOQ	0.01	%	< 0.01	Acceptable	
CBC	<LOQ	0.01	%	< 0.01	Acceptable	
THCA	<LOQ	0.01	%	< 0.01	Acceptable	
CBCA	<LOQ	0.01	%	< 0.01	Acceptable	
CBLA	<LOQ	0.01	%	< 0.01	Acceptable	
CBT	<LOQ	0.01	%	< 0.01	Acceptable	

Abbreviations

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

Units of Measure:

% - Percent

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 21-008392/D006.R000
Report Date: 07/30/2021
ORELAP#: OR100028
Purchase Order:
Received: 07/22/21 15:42

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: 2106661**

Sample Duplicate Sample ID: **21-008148-0001**

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	
CBDA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBD	5.58	5.76	0.1	%	3.15	< 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	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	

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

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 21-008392/D006.R000
Report Date: 07/30/2021
ORELAP#: OR100028
Purchase Order:
Received: 07/22/21 15:42

Revision: 1.00 Control: CFL-C21
Revised: 08/12/2019 Effective: 08/15/2019

Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662 | **Units:** mg/Kg | **Batch ID:** 2106667

Matrix Spike/Matrix Spike Duplicate Recoveries | **Sample ID: 21-008361-0001**

Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Acephate	0.000	1.029	0.973	1.000	5.5%	< 30	102.9%	97.3%	50 - 150	
Acequinocyl	0.000	2.727	1.928	4.000	34.3%	< 30	68.2%	48.2%	50 - 150	R, Q
Acetamiprid	0.000	0.411	0.396	0.400	3.6%	< 30	102.8%	99.1%	50 - 150	
Aldicarb	0.000	0.797	0.959	0.800	18.4%	< 30	99.6%	119.9%	50 - 150	
Abamectin	0.000	0.991	1.008	1.000	1.7%	< 30	99.1%	100.8%	50 - 150	
Azoxystrobin	0.000	0.403	0.395	0.400	2.0%	< 30	100.7%	98.6%	50 - 150	
Bifenazate	0.000	0.441	0.430	0.400	2.7%	< 30	110.3%	107.4%	50 - 150	
Bifenthrin	0.000	0.361	0.452	0.400	22.5%	< 30	90.3%	113.1%	50 - 150	
Boscalid	0.000	0.811	0.746	0.800	8.4%	< 30	101.4%	93.2%	50 - 150	
Carbaryl	0.000	0.375	0.395	0.400	5.0%	< 30	93.8%	98.6%	50 - 150	
Carbofuran	0.000	0.429	0.384	0.400	11.1%	< 30	107.3%	96.0%	50 - 150	
Chlorantraniliprol	0.000	0.354	0.405	0.400	13.5%	< 30	88.6%	101.4%	50 - 150	
Chlorfenapyr	0.000	1.900	2.173	2.000	13.4%	< 30	95.0%	108.7%	50 - 150	
Chlorpyrifos	0.000	0.121	0.123	0.400	2.0%	< 30	30.2%	30.8%	50 - 150	Q
Clofentezine	0.000	0.371	0.377	0.400	1.6%	< 30	92.7%	94.2%	50 - 150	
Cyfluthrin	0.000	1.701	1.695	2.000	0.3%	< 30	85.0%	84.8%	30 - 150	
Cypermethrin	0.000	1.683	1.623	2.000	3.6%	< 30	84.2%	81.2%	50 - 150	
Daminozide	0.041	2.115	2.083	2.000	1.5%	< 30	103.7%	102.1%	30 - 150	
Diazinon	0.000	0.381	0.403	0.400	5.6%	< 30	95.3%	100.7%	50 - 150	
Dichlorvos	0.000	2.049	1.990	2.000	2.9%	< 30	102.5%	99.5%	50 - 150	
Dimethoat	0.000	0.395	0.398	0.400	0.9%	< 30	98.7%	99.6%	50 - 150	
Ethoprophos	0.000	0.379	0.385	0.400	1.6%	< 30	94.7%	96.2%	50 - 150	
Etofenprox	0.000	0.804	1.174	0.800	37.5%	< 30	100.4%	146.8%	50 - 150	R, Q
Etoxazol	0.000	0.426	0.406	0.400	4.7%	< 30	106.4%	101.5%	50 - 150	
Fenoxycarb	0.000	0.402	0.415	0.400	3.1%	< 30	100.6%	103.7%	50 - 150	
Fenpyroximat	0.000	0.793	0.858	0.800	7.9%	< 30	99.1%	107.3%	50 - 150	
Fipronil	0.000	0.804	0.758	0.800	6.0%	< 30	100.5%	94.7%	50 - 150	
Flonicamid	0.000	1.018	1.011	1.000	0.6%	< 30	101.8%	101.1%	50 - 150	
Fludioxonil	0.000	0.796	0.822	0.800	3.1%	< 30	99.6%	102.7%	50 - 150	
Hexythiazox	0.000	0.121	0.121	1.000	0.2%	< 30	12.1%	12.1%	50 - 150	Q
Imazalil	0.000	0.409	0.410	0.400	0.4%	< 30	102.2%	102.6%	50 - 150	
Imidacloprid	0.000	0.820	0.821	0.800	0.2%	< 30	102.5%	102.7%	50 - 150	
Kresoxim-Methyl	0.000	0.833	0.811	0.800	2.8%	< 30	104.2%	101.3%	50 - 150	
Malathion	0.000	0.417	0.413	0.400	0.9%	< 30	104.1%	103.2%	50 - 150	
Metalaxyl	0.000	0.406	0.410	0.400	0.8%	< 30	101.6%	102.4%	50 - 150	
Methiocarb	0.000	0.394	0.383	0.400	2.7%	< 30	98.5%	95.9%	50 - 150	
Methomyl	0.000	0.808	0.795	0.800	1.7%	< 30	101.1%	99.3%	50 - 150	
MGK 264	0.000	0.325	0.332	0.400	2.1%	< 30	81.3%	83.0%	50 - 150	
Myclobutanil	0.000	0.429	0.422	0.400	1.6%	< 30	107.2%	105.5%	50 - 150	
Naled	0.000	0.926	0.969	1.000	4.5%	< 30	92.6%	96.9%	50 - 150	
Oxamyl	0.000	2.013	2.059	2.000	2.3%	< 30	100.7%	103.0%	50 - 150	
Paclobutrazol	0.000	0.828	0.809	0.800	2.3%	< 30	103.5%	101.1%	50 - 150	
Parathion Methyl	0.000	0.733	0.780	0.800	6.2%	< 30	91.6%	97.5%	30 - 150	
Permethrin	0.000	0.349	0.404	0.400	14.7%	< 30	87.2%	101.0%	50 - 150	
Phosmet	0.000	0.396	0.415	0.400	4.7%	< 30	99.1%	103.8%	50 - 150	
Piperonyl butoxide	0.000	2.025	2.432	2.000	18.3%	< 30	101.2%	121.6%	50 - 150	
Prallethrin	0.000	0.301	0.282	0.400	6.4%	< 30	75.1%	70.4%	50 - 150	
Propiconazole	0.000	0.830	0.823	0.800	0.8%	< 30	103.7%	102.9%	50 - 150	
Propoxur	0.000	0.376	0.401	0.400	6.3%	< 30	94.0%	100.2%	50 - 150	
Pyrethrins	0.000	0.466	0.499	0.413	6.9%	< 30	112.9%	120.9%	50 - 150	
Pyridaben	0.000	0.212	0.206	0.400	2.8%	< 30	53.0%	51.5%	50 - 150	
Spinosad	0.000	0.398	0.397	0.388	0.3%	< 30	102.5%	102.3%	50 - 150	
Spiromesifen	0.000	0.397	0.373	0.400	6.2%	< 30	99.1%	93.2%	50 - 150	
Spirotetramat	0.000	0.414	0.405	0.400	2.1%	< 30	103.4%	101.2%	50 - 150	
Spiroxamine	0.000	0.792	0.765	0.800	3.6%	< 30	99.0%	95.6%	50 - 150	
Tebuconazol	0.000	0.792	0.813	0.800	2.6%	< 30	99.0%	101.6%	50 - 150	
Thiacloprid	0.000	0.390	0.394	0.400	1.0%	< 30	97.4%	98.4%	50 - 150	
Thiamethoxam	0.000	0.395	0.398	0.400	0.7%	< 30	98.8%	99.5%	50 - 150	
Trifloxystrobin	0.000	0.410	0.393	0.400	4.1%	< 30	102.4%	98.3%	50 - 150	

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Report Number: 21-008392/D006.R000
Report Date: 07/30/2021
ORELAP#: OR100028
Purchase Order:
Received: 07/22/21 15:42

Revision: 1.00 Control: CFL-C21
Revised: 08/12/2019 Effective: 08/15/2019

Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662 | **Units:** mg/Kg | **Batch ID:** 2106667

	Method Blank			Laboratory Control Sample				
Analyte	**Blank Result**	**Blank Limits**	**Notes**	**LCS Result**	**LCS Spike**	**LCS % Rec**	**Limits**	**Notes**
Acephate	0.028	< 0.250		1.019	1.000	101.9	68.6 - 127	
Acequinocyl	0.000	< 1.000		3.489	4.000	87.2	68.3 - 127	
Acetamiprid	0.000	< 0.100		0.398	0.400	99.6	69.8 - 130	
Aldicarb	0.000	< 0.200		0.775	0.800	96.9	71.8 - 133	
Abamectin	0.000	< 0.250		0.996	1.000	99.6	70.0 - 130	
Azoxystrobin	0.000	< 0.100		0.395	0.400	98.8	68.8 - 128	
Bifenazate	0.000	< 0.100		0.402	0.400	100.5	73.0 - 136	
Bifenthrin	0.000	< 0.100		0.391	0.400	97.8	69.0 - 128	
Boscalid	0.000	< 0.200		0.715	0.800	89.4	69.6 - 129	
Carbaryl	0.000	< 0.100		0.413	0.400	103.2	69.1 - 128	
Carbofuran	0.000	< 0.100		0.357	0.400	89.2	70.1 - 130	
Chlorantraniliprol	0.000	< 0.100		0.368	0.400	92.0	70.4 - 131	
Chlorfenapyr	0.000	< 0.500		1.870	2.000	93.5	69.4 - 129	
Chlorpyrifos	0.000	< 0.100		0.380	0.400	95.1	68.3 - 127	
Clofentezine	0.000	< 0.100		0.393	0.400	98.3	69.3 - 129	
Cyfluthrin	0.000	< 0.500		2.043	2.000	102.2	70.1 - 130	
Cypermethrin	0.000	< 0.500		1.916	2.000	95.8	69.9 - 130	
Daminozide	0.042	< 0.500		2.003	2.000	100.1	70.9 - 132	
Diazinon	0.000	< 0.100		0.397	0.400	99.2	69.1 - 128	
Dichlorvos	0.000	< 0.500		2.002	2.000	100.1	67.3 - 125	
Dimethoat	0.000	< 0.100		0.393	0.400	98.3	69.7 - 129	
Ethoprophos	0.000	< 0.100		0.387	0.400	96.8	68.7 - 128	
Etofenprox	0.000	< 0.200		1.164	0.800	***145.5***	69.5 - 129	Q1
Etoxazol	0.000	< 0.100		0.395	0.400	98.8	68.6 - 127	
Fenoxycarb	0.000	< 0.100		0.392	0.400	97.9	69.1 - 128	
Fenpyroximat	0.000	< 0.200		0.826	0.800	103.2	69.3 - 129	
Fipronil	0.000	< 0.200		0.775	0.800	96.9	71.0 - 132	
Flonicamid	0.000	< 0.250		0.969	1.000	96.9	69.6 - 129	
Fludioxonil	0.000	< 0.200		0.764	0.800	95.4	71.1 - 132	
Hexythiazox	0.000	< 0.250		0.985	1.000	98.5	68.1 - 126	
Imazalil	0.000	< 0.100		0.407	0.400	101.8	71.4 - 133	
Imidacloprid	0.000	< 0.200		0.807	0.800	100.9	68.6 - 127	
Kresoxim-Methyl	0.000	< 0.200		0.824	0.800	103.0	69.2 - 128	
Malathion	0.000	< 0.100		0.385	0.400	96.2	68.7 - 128	
Metalaxyl	0.000	< 0.100		0.414	0.400	103.4	69.3 - 129	
Methiocarb	0.000	< 0.100		0.375	0.400	93.8	69.2 - 128	
Methomyl	0.000	< 0.200		0.793	0.800	99.1	69.3 - 129	
MGK 264	0.000	< 0.100		0.390	0.400	97.5	68.6 - 127	
Myclobutanil	0.000	< 0.100		0.413	0.400	103.2	69.1 - 128	
Naled	0.000	< 0.250		0.988	1.000	98.8	70.7 - 131	
Oxamyl	0.000	< 0.500		1.941	2.000	97.1	70.0 - 130	
Paclobutrazol	0.000	< 0.200		0.816	0.800	102.0	69.7 - 130	
Parathion Methyl	0.000	< 0.200		0.867	0.800	108.4	70.7 - 131	
Permethrin	0.000	< 0.100		0.339	0.400	84.8	69.0 - 128	
Phosmet	0.000	< 0.100		0.409	0.400	102.3	68.8 - 128	
Piperonyl butoxide	0.000	< 0.500		1.946	2.000	97.3	69.2 - 128	
Prallethrin	0.000	< 0.100		0.381	0.400	95.2	69.8 - 130	
Propiconazole	0.000	< 0.200		0.812	0.800	101.5	69.3 - 129	
Propoxur	0.000	< 0.100		0.389	0.400	97.3	68.7 - 128	
Pyrethrins	0.000	< 0.100		0.431	0.413	104.4	67.5 - 125	
Pyridaben	0.000	< 0.100		0.388	0.400	96.9	68.6 - 127	
Spinosad	0.000	< 0.100		0.394	0.388	101.4	72.0 - 134	
Spiromesifen	0.000	< 0.100		0.403	0.400	100.8	69.9 - 130	
Spirotetramat	0.000	< 0.100		0.398	0.400	99.5	69.3 - 129	
Spiroxamine	0.000	< 0.200		0.772	0.800	96.5	67.7 - 126	
Tebuconazol	0.000	< 0.200		0.766	0.800	95.8	69.4 - 129	
Thiacloprid	0.000	< 0.100		0.401	0.400	100.2	68.6 - 127	
Thiamethoxam	0.000	< 0.100		0.372	0.400	93.0	69.2 - 129	
Trifloxystrobin	0.000	< 0.100		0.380	0.400	95.1	69.0 - 128	

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ORELAP#: OR100028
Purchase Order:
Received: 07/22/21 15:42

Terpenes Quality Control Results

Method Reference: EPA 5035 **Batch ID:** 2106687

Method Blank					Laboratory Control Sample					
Analyte	**Result**	**LOQ**		**Notes**	**Result**	**LCS**	**Units**	**LCS % Rec**	**Limits**	**Notes**
a-pinene	<LOQ	<	200		611	500	µg/g	***122%***	70 - 130	
Camphene	<LOQ	<	200		501	500	µg/g	***100%***	70 - 130	
Sabinene	<LOQ	<	200		489	500	µg/g	***98%***	70 - 130	
b-Pinene	<LOQ	<	200		468	500	µg/g	***94%***	70 - 130	
b-Myrcene	<LOQ	<	200		508	500	µg/g	***102%***	70 - 130	
a-phelllandrene	<LOQ	<	200		575	500	µg/g	***115%***	70 - 130	
d-3-Carene	<LOQ	<	200		564	500	µg/g	***113%***	70 - 130	
a-Terpinene	<LOQ	<	200		495	500	µg/g	***99%***	70 - 130	
p-Cymene	<LOQ	<	200		510	500	µg/g	***102%***	70 - 130	
D-Limonene	<LOQ	<	200		450	500	µg/g	***90%***	70 - 130	
Eucalyptol	<LOQ	<	200		513	500	µg/g	***103%***	70 - 130	
b-cis-Ocimene	<LOQ	<	67		172	167	µg/g	***103%***	70 - 130	
b-trans-Ocimene	<LOQ	<	133		351	333	µg/g	***105%***	70 - 130	
g-Terpinene	<LOQ	<	200		462	500	µg/g	***92%***	70 - 130	
Sabinene_Hydrate	<LOQ	<	200		492	500	µg/g	***98%***	70 - 130	
Terpinolene	<LOQ	<	200		420	500	µg/g	***84%***	70 - 130	
D-Fenchone	<LOQ	<	200		478	500	µg/g	***96%***	70 - 130	
Linalool	<LOQ	<	200		525	500	µg/g	***105%***	70 - 130	
Fenchol	<LOQ	<	200		509	500	µg/g	***102%***	70 - 130	
Camphor	<LOQ	<	200		478	500	µg/g	***96%***	70 - 130	
Isopulego	<LOQ	<	200		475	500	µg/g	***95%***	70 - 130	
Isoborneol	<LOQ	<	200		479	500	µg/g	***96%***	70 - 130	
Borneol	<LOQ	<	200		506	500	µg/g	***101%***	70 - 130	
DL-Menthol	<LOQ	<	200		498	500	µg/g	***100%***	70 - 130	
Terpineol	<LOQ	<	200		456	500	µg/g	***91%***	70 - 130	
Nerol	<LOQ	<	200		480	500	µg/g	***96%***	70 - 130	
Pulegone	<LOQ	<	200		646	500	µg/g	***129%***	70 - 130	
Gereniol	<LOQ	<	200		507	500	µg/g	***101%***	70 - 130	
Geranyl_Acetate	<LOQ	<	200		487	500	µg/g	***97%***	70 - 130	
a-Cedrene	<LOQ	<	200		535	500	µg/g	***107%***	70 - 130	
b-Caryophyllene	<LOQ	<	200		390	500	µg/g	***78%***	70 - 130	
a-Humulene	<LOQ	<	200		515	500	µg/g	***103%***	70 - 130	
Valenene	<LOQ	<	200		402	500	µg/g	***80%***	70 - 130	
cis-Nerolidol	<LOQ	<	200		523	500	µg/g	***105%***	70 - 130	
a-Farnesene	<LOQ	<	200		540	500	µg/g	***108%***	70 - 130	
trans-Nerolidol	<LOQ	<	200		505	500	µg/g	***101%***	70 - 130	
Caryophyllene_Oxide	<LOQ	<	200		546	500	µg/g	***109%***	70 - 130	
Guaiol	<LOQ	<	200		565	500	µg/g	***113%***	70 - 130	
Cedrol	<LOQ	<	200		470	500	µg/g	***94%***	70 - 130	
a-Bisabolol	<LOQ	<	200		513	500	µg/g	***103%***	70 - 130	

Definitions

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

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Terpenes Quality Control Results

Method Reference: EPA 5035 **Batch ID:** 2106687

Sample/Sample Duplicate **Sample ID: 21-008292-0001**

Analyte	Result	Org. Result	LOQ	Units	% RPD	LIMIT	Notes
a-pinene	399	388	188	µg/g	3%	< 20	
Camphene	<LOQ	<LOQ	188	µg/g	0%	< 20	
Sabinene	341	349	188	µg/g	2%	< 20	
b-Pinene	244	244	188	µg/g	0%	< 20	
b-Myrcene	<LOQ	<LOQ	188	µg/g	0%	< 20	
a-phelllandrene	<LOQ	<LOQ	188	µg/g	0%	< 20	
d-3-Carene	<LOQ	<LOQ	188	µg/g	0%	< 20	
a-Terpinene	<LOQ	<LOQ	188	µg/g	0%	< 20	
p-Cymene	<LOQ	<LOQ	188	µg/g	0%	< 20	
D-Limonene	403	462	188	µg/g	14%	< 20	
Eucalyptol	<LOQ	<LOQ	188	µg/g	0%	< 20	
b-cis-Ocimene	577	614	62.7	µg/g	6%	< 20	
b-trans-Ocimene	248	272	125	µg/g	9%	< 20	
g-Terpinene	<LOQ	<LOQ	188	µg/g	0%	< 20	
Sabinene_Hydrate	<LOQ	<LOQ	188	µg/g	0%	< 20	
Terpinolene	<LOQ	<LOQ	188	µg/g	0%	< 20	
D-Fenchone	<LOQ	<LOQ	188	µg/g	0%	< 20	
Linalool	3610	3610	188	µg/g	0%	< 20	
Fenchol	<LOQ	<LOQ	188	µg/g	0%	< 20	
Camphor	<LOQ	<LOQ	188	µg/g	0%	< 20	
Isopulego	<LOQ	<LOQ	188	µg/g	0%	< 20	
Isoborneol	<LOQ	<LOQ	188	µg/g	0%	< 20	
Borneol	<LOQ	<LOQ	188	µg/g	0%	< 20	
DL-Menthol	<LOQ	<LOQ	188	µg/g	0%	< 20	
Terpineol	<LOQ	<LOQ	188	µg/g	0%	< 20	
Nerol	<LOQ	<LOQ	188	µg/g	0%	< 20	
Pulegone	<LOQ	<LOQ	188	µg/g	0%	< 20	
Gereniol	<LOQ	<LOQ	188	µg/g	0%	< 20	
Geranyl_Acetate	<LOQ	<LOQ	188	µg/g	0%	< 20	
a-Cedrene	<LOQ	<LOQ	188	µg/g	0%	< 20	
b-Caryophyllene	1260	1260	188	µg/g	0%	< 20	
a-Humulene	<LOQ	<LOQ	188	µg/g	0%	< 20	
Valenene	<LOQ	<LOQ	188	µg/g	0%	< 20	
cis-Nerolidol	<LOQ	<LOQ	188	µg/g	0%	< 20	
a-Farnesene	<LOQ	<LOQ	188	µg/g	0%	< 20	
trans-Nerolidol	<LOQ	<LOQ	188	µg/g	0%	< 20	
Caryophyllene_Oxide	<LOQ	<LOQ	188	µg/g	0%	< 20	
Guaiol	<LOQ	<LOQ	188	µg/g	0%	< 20	
Cedrol	<LOQ	<LOQ	188	µg/g	0%	< 20	
a-Bisabolol	<LOQ	<LOQ	188	µg/g	0%	< 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	Quantitaion 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.