



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



Report Number: 21-006328/D009.R001
Report Date: 07/20/2021
ORELAP#: OR100028
Purchase Order:
Received: 06/08/21 10:30

This is an amended version of report# 21-006328/D009.R00.
Reason: Combine results with report 21-007941/D004.R000

Customer: Grams by Kalibloom
Product identity: Fire OG
Client/Metric ID: .
Laboratory ID: 21-006328-0004

Sample Date: 06/04/21 10:00

Summary

Potency:

Analyte	Result (%)	 ● Δ8-THC ● CBT ● Δ8-THCV	
Δ8-THC†	75.7		CBD-Total <LOQ
CBT†	0.750		THC-Total <LOQ
Δ8-THCV	0.378		(Reported in percent of total sample)

Residual Solvents:

Analyte	Result (μg/g)	Limits (μg/g)	Status
n-Heptane	1140	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
(R)-(+)-Limonene†	1.21	21.45%	β-Myrcene†	0.990	17.55%
β-Caryophyllene†	0.893	15.83%	α-Bisabolol†	0.554	9.82%
Linalool†	0.316	5.60%	(+)-fenchol†	0.303	5.37%
(-)-β-Pinene†	0.228	4.04%	α-pinene†	0.199	3.53%
p-Cymene†	0.179	3.17%	d-3-Carene†	0.176	3.12%
Humulene†	0.159	2.82%	Terpinolene†	0.133	2.36%
(-)-α-Terpineol†	0.109	1.93%	(-)-Isopulegol†	0.0738	1.31%
(±)-Camphor†	0.0646	1.15%	Camphene†	0.0317	0.56%
Geraniol†	0.0221	0.39%	Total Terpenes†	5.64	100.00%



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Report Number: 21-007941/D004.R000
Report Date: 07/19/2021
ORELAP#: OR100028
Purchase Order:
Received: 07/14/21 10:29

Customer: KIK By Kalibloom
Product identity: Fire OG
Client/Metric ID: .
Laboratory ID: 21-007941-0002

Sample Date: 07/06/21 10:00

Summary

Metals:

Less than LOQ for all analytes.



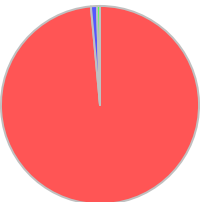
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Report Number: 21-006328/D009.R001
Report Date: 07/20/2021
ORELAP#: OR100028
Purchase Order:
Received: 06/08/21 10:30

Customer: Grams by Kalibloom
United States of America (USA)
Product identity: Fire OG
Client/Metric ID: .
Sample Date: 06/04/21 10:00
Laboratory ID: 21-006328-0004
Evidence of Cooling: No
Temp: 20.4 °C

Sample Results

Potency	Method J AOAC 2015 V98-6 (mod)			Units %	Batch: 2105221	Analyze: 6/11/21 11:20:00 PM
Analyte	As Received	Dry weight	LOQ	Notes		
CBC	< LOQ		0.0927			
CBC-A†	< LOQ		0.0927		 - Δ8-THC - CBT - Δ8-THCV	
CBC-Total†	< LOQ		0.174			
CBD	< LOQ		0.0927			
CBD-A	< LOQ		0.0927			
CBD-Total	< LOQ		0.174			
CBDV†	< LOQ		0.0927			
CBDV-A†	< LOQ		0.0927			
CBDV-Total†	< LOQ		0.173			
CBE†	< LOQ		0.0927			
CBG†	< LOQ		0.0927			
CBG-A†	< LOQ		0.0927			
CBG-Total	< LOQ		0.173			
CBL†	< LOQ		0.0927			
CBL-A†	< LOQ		0.0927			
CBL-Total†	< LOQ		0.174			
CBN	< LOQ		0.0927			
CBT†	0.750		0.0927			
Δ8-THC†	75.7		0.927			
Δ8-THCV	0.378		0.0927			
Δ9-THC	< LOQ		0.0927			
THC-A	< LOQ		0.0927			
THC-Total	< LOQ		0.174			
THCV†	< LOQ		0.0927			
THCV-A†	< LOQ		0.0927			
THCV-Total†	< LOQ		0.173			
Total Cannabinoids†	76.8					



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Received: 06/08/21 10:30

Solvents						Method Residual Solvents by GC/MS						Units µg/g	Batch 2105137	Analyze 06/11/21 09:07 AM
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	1140	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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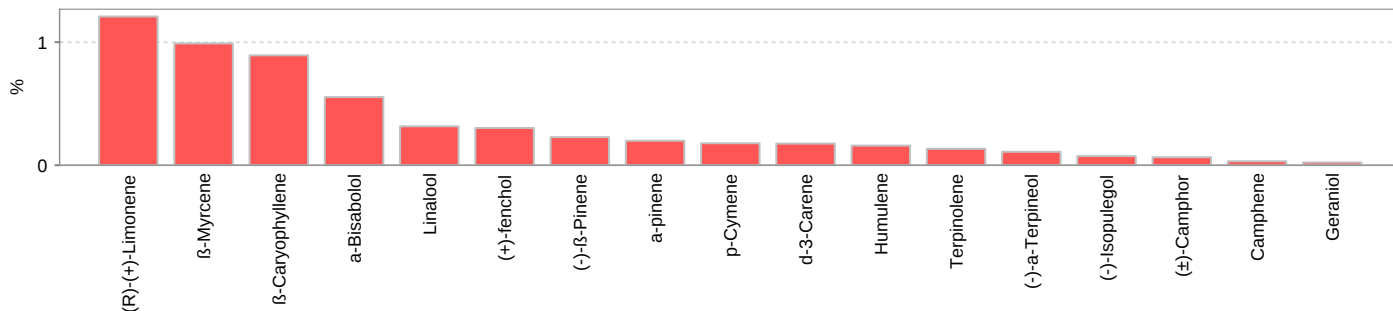


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Pesticides	Method AOAC 2007.01 & EN 15662 (mod)					Units mg/kg	Batch 2105247	Analyze 06/15/21 09:54 AM			
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin	< LOQ	0.50	0.250	pass		Acephate	< LOQ	0.40	0.250	pass	
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							



Terpenes				Method J AOAC 2015 V98-6	Units %	Batch 2105151	Analyze 06/11/21 12:15 AM		
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
(R)-(+)-Limonene [†]	1.21	0.018	21.45%		β-Myrcene [†]	0.990	0.018	17.55%	
β-Caryophyllene [†]	0.893	0.018	15.83%		α-Bisabolol [†]	0.554	0.018	9.82%	
Linalool [†]	0.316	0.018	5.60%		(+)-fenchol [†]	0.303	0.018	5.37%	
(-)-β-Pinene [†]	0.228	0.018	4.04%		α-pinene [†]	0.199	0.018	3.53%	
p-Cymene [†]	0.179	0.018	3.17%		d-3-Carene [†]	0.176	0.018	3.12%	
Humulene [†]	0.159	0.018	2.82%		Terpinolene [†]	0.133	0.018	2.36%	
(-)-α-Terpineol [†]	0.109	0.018	1.93%		(-)-Isopulegol [†]	0.0738	0.018	1.31%	
(±)-Camphor [†]	0.0646	0.018	1.15%		Camphene [†]	0.0317	0.018	0.56%	
Geraniol [†]	0.0221	0.018	0.39%		α-Terpinene [†]	< LOQ	0.018	0.00%	
(-)-caryophyllene oxide [†]	< LOQ	0.018	0.00%		cis-β-Ocimene [†]	< LOQ	0.006	0.00%	
trans-β-Ocimene [†]	< LOQ	0.012	0.00%		nerol [†]	< LOQ	0.018	0.00%	
(±)-trans-Nerolidol [†]	< LOQ	0.018	0.00%		(+)-Pulegone [†]	< LOQ	0.018	0.00%	
gamma-Terpinene [†]	< LOQ	0.018	0.00%		(+)-Borneol [†]	< LOQ	0.018	0.00%	
Geranyl acetate [†]	< LOQ	0.018	0.00%		Sabinene hydrate [†]	< LOQ	0.018	0.00%	
Menthol [†]	< LOQ	0.018	0.00%		(±)-cis-Nerolidol [†]	< LOQ	0.018	0.00%	
(-)-Guaiol [†]	< LOQ	0.018	0.00%		(+)-Cedrol [†]	< LOQ	0.018	0.00%	
(±)-fenchone [†]	< LOQ	0.018	0.00%		α-cedrene [†]	< LOQ	0.018	0.00%	
α-phellandrene [†]	< LOQ	0.018	0.00%		Eucalyptol [†]	< LOQ	0.018	0.00%	
farnesene [†]	< LOQ	0.018	0.00%		Isoborneol [†]	< LOQ	0.018	0.00%	
Sabinene [†]	< LOQ	0.018	0.00%		valencene [†]	< LOQ	0.018	0.00%	
Total Terpenes	5.64								





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Report Number: 21-007941/D004.R000
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Purchase Order:
Received: 07/14/21 10:29

Customer: KIK By Kalibloom
United States of America (USA)
Product identity: Fire OG
Client/Metric ID: .
Sample Date: 07/06/21 10:00
Laboratory ID: 21-007941-0002
Evidence of Cooling: No
Temp: 19.9 °C

Sample Results

Metals								
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Arsenic	< LOQ		mg/kg	0.0490	2106340	07/16/21	AOAC 2013.06 (mod.)	X
Cadmium	< LOQ		mg/kg	0.0490	2106340	07/16/21	AOAC 2013.06 (mod.)	X
Lead	< LOQ		mg/kg	0.0490	2106340	07/16/21	AOAC 2013.06 (mod.)	X
Mercury	< LOQ		mg/kg	0.0245	2106340	07/16/21	AOAC 2013.06 (mod.)	X



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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

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



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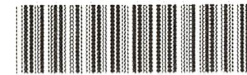
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Hemp / Cannabis Usable / Extract Chain of Custody Record

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

GRAMSBYKALI 21-006328



Grams by Kalibloom

Company: <u>KIK BY KALIBLOOM</u>				Analysis Requested										PO Num: _____		
Contact: <u>TAYLOR</u>														Project Number: _____		
Street: <u>2216 E. RUSSELL RD STE A-4</u>														Project Name: _____		
City: <u>LAS VEGAS</u> State: <u>NV</u> Zip: <u>89130</u>														Custom Reporting: _____		
Email Results: <u>KALIBLOOM@WORLDWIDE</u>														Report to State - ☐ METRC or ☐ Other: _____		
Ph: <u>(702) 661-0052</u> Fx Results: ()														Turnaround time: ☐ Standard ☐ Rush * ☒ Priority Rush *		
Billing (if different): <u>DILL TO KALIBLOOM</u>														*Ask for availability		
Sampled by: _____																
Lab ID	Client Sample Identification	Date	Time	POTENCY	METALS	SOLVENTS	PESTICIDES	TERPENES						Sample Type †	Weight (Units)	Comments/Metric ID
1	BERRY KUSH	6/4	1000	X	X	X	X	X						C	3GR	
2	DISCOTTI	6/4	1000	X	X	X	X	X						C	3GR	
3	CHEMDANG	6/4	1000	X	X	X	X	X						C	3GR	
4	FIRE OG	6/4	1000	X	X	X	X	X						C	3GR	
5	GELATO 41	6/4	1000	X	X	X	X	X						C	3GR	
6	GRAPE APE	6/4	1000	X	X	X	X	X						C	3GR	
7	GUAVA	6/4	1000	X	X	X	X	X						C	3GR	
8	GUSHERS	6/4	1000	X	X	X	X	X						C	3GR	
9	LEMON CAKE	6/4	1000	X	X	X	X	X						C	3GR	
10	PAPAYA RDSIN	6/4	1000	X	X	X	X	X						C	3GR	
11	RUNTZ	6/4	1000	X	X	X	X	X						C	3GR	
Relinquished By: <u>[Signature]</u>				Received By: <u>[Signature]</u>				Date: <u>6/4</u> Time: <u>1000</u>				Lab Use Only:				
												☐ Shipped Via: _____ or ☐ Client drop				
												Evidence of cooling: ☐ Yes ☐ No - Temp (°C): <u>20.4</u>				
												Sample in good condition: ☐ Yes ☐ No				
												☐ Cash ☐ Check ☐ CC ☐ Net: _____				
												Prelog storage: _____				

† - Sample Type Codes: Vegetation (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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info@columbiaboratories.com

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Bm



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Purchase Order:
Received: 06/08/21 10:30

GRAMSBYKALI 21-006328

Columbia Laboratories
Sample Receipt Form

Revision: 2.00 Document Control: CF015
Revised: 01/11/2021 Effective: 05/15/2021

Job Number: Grams by Kalibloom Search Name: _____

Package/Cooler opened on (if different than received date/time) Date: 6/8/21 Time: 1030

Received By (Initials): S 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): 280638103752

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 G

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: _____

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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

21-007941



KIK By Kalibloom

Company: <u>KIK BY KALIBLOOM</u> Contact: <u>TAYLOR</u> Street: <u>3315 ERUSSELL RD STE A-4</u> City: <u>LAS VEGAS</u> State: <u>NV</u> Zip: <u>89120</u> Email Results: <u>KALIBLOOMWORLDWIDE</u> Ph: <u>(702) 910052</u> Fx Results: () Billing (if different): <u>BILL TO KALIBLOOM</u>				Analysis Requested												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	METALS												Sample Type †	Weight (Units)	Comments/Metric ID
	CHEMDANG	07/06	1000	X												C	2GR	AMEND REPORT #31-DD6326
	FIRE OG	07/06	1000	X												C	2GR	AMEND REPORT #31-DD6326
	PAPAYA ROSIN	07/06	1000	X												C	2GR	AMEND REPORT #31-DD6326
	RUNTZ	07/06	1000	X												C	2GR	AMEND REPORT #31-DD6326
Relinquished By: <u>[Signature]</u>				Date	Time	Received By: <u>[Signature]</u>				Date	Time	Lab Use Only: ☒ Shipped Via: <u>Fedex</u> or ☐ Client drop Evidence of cooling: ☐ Yes ☒ No - Temp (°C): <u>19.9°C</u> Sample in good condition: ☐ Yes ☐ No ☐ Cash ☐ Check ☐ CC ☐ Net: _____ Prelog storage: _____						

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

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KIKBYKALIB 21-007941



Columbia Laboratories
Sample Receipt Form

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

Job Num. KIK By Kalibloom

Search Name: _____

Package/Cooler opened on (if different than received date/time) Date: 7/14/21 Time: 10:29

Received By (Initials): ZH 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): 2812 5705 3924

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: _____

Page ____ of ____



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



Report Number: 21-006328/D009.R001
Report Date: 07/20/2021
ORELAP#: OR100028
Purchase Order:
Received: 06/08/21 10:30

Laboratory Quality Control Results

Residual Solvents				Batch ID: 2105137					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		470	595	µg/g	79.0	70 - 130	
Isobutane	ND	< 200		636	761	µg/g	83.6	70 - 130	
Butane	ND	< 200		647	761	µg/g	85.0	70 - 130	
2,2-Dimethylpropane	ND	< 200		765	955	µg/g	80.1	70 - 130	
Methanol	ND	< 200		1370	1600	µg/g	85.6	70 - 130	
Ethylene Oxide	ND	< 30		45.3	58.3	µg/g	77.7	70 - 130	
2-Methylbutane	ND	< 200		1290	1600	µg/g	80.6	70 - 130	
Pentane	ND	< 200		1320	1600	µg/g	82.5	70 - 130	
Ethanol	ND	< 200		1410	1610	µg/g	87.6	70 - 130	
Ethyl Ether	ND	< 200		1370	1600	µg/g	85.6	70 - 130	
2,2-Dimethylbutane	ND	< 30		138	160	µg/g	86.3	70 - 130	
Acetone	ND	< 200		1360	1600	µg/g	85.0	70 - 130	
2-Propanol	ND	< 200		1420	1610	µg/g	88.2	70 - 130	
Acetonitrile	ND	< 100		409	481	µg/g	85.0	70 - 130	
2,3-Dimethylbutane	ND	< 30		149	164	µg/g	90.9	70 - 130	
Dichloromethane	ND	< 60		424	490	µg/g	86.5	70 - 130	
2-Methylpentane	ND	< 30		137	162	µg/g	84.6	70 - 130	
3-Methylpentane	ND	< 30		142	163	µg/g	87.1	70 - 130	
Hexane	ND	< 30		145	163	µg/g	89.0	70 - 130	
Ethyl acetate	ND	< 200		1370	1600	µg/g	85.6	70 - 130	
2-Butanol	ND	< 200		1650	1600	µg/g	103.1	70 - 130	
Tetrahydrofuran	ND	< 100		463	485	µg/g	95.5	70 - 130	
Cyclohexane	ND	< 200		1470	1610	µg/g	91.3	70 - 130	
Benzene	ND	< 1		4.02	4.36	µg/g	92.2	70 - 130	
Isopropyl Acetate	ND	< 200		1410	1610	µg/g	87.6	70 - 130	
Heptane	ND	< 200		1350	1610	µg/g	83.9	70 - 130	
1,4-Dioxane	ND	< 100		443	481	µg/g	92.1	70 - 130	
2-Ethoxyethanol	ND	< 30		145	162	µg/g	89.5	70 - 130	
Ethylene Glycol	ND	< 200		475	484	µg/g	98.1	70 - 130	
Toluene	ND	< 200		461	500	µg/g	92.2	70 - 130	
Ethylbenzene	ND	< 200		956	971	µg/g	98.5	70 - 130	
m,p-Xylene	ND	< 200		947	966	µg/g	98.0	70 - 130	
o-Xylene	ND	< 200		950	967	µg/g	98.2	70 - 130	
Cumene	ND	< 30		154	164	µg/g	93.9	70 - 130	



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Purchase Order:
Received: 06/08/21 10:30

QC - Sample Duplicate

Sample ID: 21-006296-0001

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	
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



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



Report Number: 21-006328/D009.R001
Report Date: 07/20/2021
ORELAP#: OR100028
Purchase Order:
Received: 06/08/21 10:30

Terpenes Quality Control Results

Method Reference: EPA 5035				Batch ID: 2105151					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	LCS	Units	LCS % Rec	Limits	Notes
a-pinene	<LOQ	< 200		555	500	µg/g	111%	70 - 130	
Camphene	<LOQ	< 200		484	500	µg/g	97%	70 - 130	
Sabinene	<LOQ	< 200		451	500	µg/g	90%	70 - 130	
b-Pinene	<LOQ	< 200		434	500	µg/g	87%	70 - 130	
b-Myrcene	<LOQ	< 200		478	500	µg/g	96%	70 - 130	
a-phellandrene	<LOQ	< 200		492	500	µg/g	98%	70 - 130	
d-3-Carene	<LOQ	< 200		404	500	µg/g	81%	70 - 130	
a-Terpinene	<LOQ	< 200		464	500	µg/g	93%	70 - 130	
p-Cymene	<LOQ	< 200		465	500	µg/g	93%	70 - 130	
D-Limonene	<LOQ	< 200		422	500	µg/g	84%	70 - 130	
Eucalyptol	<LOQ	< 200		485	500	µg/g	97%	70 - 130	
b-cis-Ocimene	<LOQ	< 67		182	167	µg/g	109%	70 - 130	
b-trans-Ocimene	<LOQ	< 133		327	333	µg/g	98%	70 - 130	
g-Terpinene	<LOQ	< 200		449	500	µg/g	90%	70 - 130	
Sabinene_Hydrate	<LOQ	< 200		431	500	µg/g	86%	70 - 130	
Terpinolene	<LOQ	< 200		372	500	µg/g	74%	70 - 130	
D-Fenchone	<LOQ	< 200		389	500	µg/g	78%	70 - 130	
Linalool	<LOQ	< 200		512	500	µg/g	102%	70 - 130	
Fenchol	<LOQ	< 200		451	500	µg/g	90%	70 - 130	
Camphor	<LOQ	< 200		465	500	µg/g	93%	70 - 130	
Isopulego	<LOQ	< 200		489	500	µg/g	98%	70 - 130	
Isoborneol	<LOQ	< 200		461	500	µg/g	92%	70 - 130	
Borneol	<LOQ	< 200		437	500	µg/g	87%	70 - 130	
DL-Menthol	<LOQ	< 200		479	500	µg/g	96%	70 - 130	
Terpineol	<LOQ	< 200		406	500	µg/g	81%	70 - 130	
Nerol	<LOQ	< 200		470	500	µg/g	94%	70 - 130	
Pulegone	<LOQ	< 200		567	500	µg/g	113%	70 - 130	
Gereniol	<LOQ	< 200		439	500	µg/g	88%	70 - 130	
Geranyl_Acetate	<LOQ	< 200		479	500	µg/g	96%	70 - 130	
a-Cedrene	<LOQ	< 200		457	500	µg/g	91%	70 - 130	
b-Caryophyllene	<LOQ	< 200		380	500	µg/g	76%	70 - 130	
a-Humulene	<LOQ	< 200		437	500	µg/g	87%	70 - 130	
Valenene	<LOQ	< 200		455	500	µg/g	91%	70 - 130	
cis-Nerolidol	<LOQ	< 200		481	500	µg/g	96%	70 - 130	
a-Farnesene	<LOQ	< 200		609	500	µg/g	122%	70 - 130	
trans-Nerolidol	<LOQ	< 200		442	500	µg/g	88%	70 - 130	
Caryophyllene_Oxide	<LOQ	< 200		582	500	µg/g	116%	70 - 130	
Guaiol	<LOQ	< 200		486	500	µg/g	97%	70 - 130	
Cedrol	<LOQ	< 200		469	500	µg/g	94%	70 - 130	
a-Bisabolol	<LOQ	< 200		490	500	µg/g	98%	70 - 130	

Definitions

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



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



Report Number: 21-006328/D009.R001
Report Date: 07/20/2021
ORELAP#: OR100028
Purchase Order:
Received: 06/08/21 10:30

Terpenes Quality Control Results

Method Reference: EPA 5035				Batch ID: 2105151			
Sample/Sample Duplicate		Sample ID: 21-006383-0001					
Analyte	Result	Org. Result	LOQ	Units	% RPD	LIMIT	Notes
a-pinene	<LOQ	<LOQ	186	µg/g	0%	< 20	
Camphene	<LOQ	<LOQ	186	µg/g	0%	< 20	
Sabinene	<LOQ	<LOQ	186	µg/g	0%	< 20	
b-Pinene	<LOQ	<LOQ	186	µg/g	0%	< 20	
b-Myrcene	<LOQ	<LOQ	186	µg/g	0%	< 20	
a-phellandrene	<LOQ	<LOQ	186	µg/g	0%	< 20	
d-3-Carene	<LOQ	<LOQ	186	µg/g	0%	< 20	
a-Terpinene	<LOQ	<LOQ	186	µg/g	0%	< 20	
p-Cymene	<LOQ	<LOQ	186	µg/g	0%	< 20	
D-Limonene	<LOQ	<LOQ	186	µg/g	0%	< 20	
Eucalyptol	<LOQ	<LOQ	186	µg/g	0%	< 20	
b-cis-OCimene	<LOQ	<LOQ	62.0	µg/g	0%	< 20	
b-trans-OCimene	<LOQ	<LOQ	124	µg/g	0%	< 20	
g-Terpinene	<LOQ	<LOQ	186	µg/g	0%	< 20	
Sabinene_Hydrate	<LOQ	<LOQ	186	µg/g	0%	< 20	
Terpinolene	<LOQ	<LOQ	186	µg/g	0%	< 20	
D-Fenchone	<LOQ	<LOQ	186	µg/g	0%	< 20	
Linalool	<LOQ	<LOQ	186	µg/g	0%	< 20	
Fenchol	<LOQ	<LOQ	186	µg/g	0%	< 20	
Camphor	<LOQ	<LOQ	186	µg/g	0%	< 20	
Isopulego	<LOQ	<LOQ	186	µg/g	0%	< 20	
Isoborneol	<LOQ	<LOQ	186	µg/g	0%	< 20	
Borneol	<LOQ	<LOQ	186	µg/g	0%	< 20	
DL-Menthol	<LOQ	<LOQ	186	µg/g	0%	< 20	
Terpineol	<LOQ	<LOQ	186	µg/g	0%	< 20	
Nerol	<LOQ	<LOQ	186	µg/g	0%	< 20	
Pulegone	<LOQ	<LOQ	186	µg/g	0%	< 20	
Geraniol	<LOQ	<LOQ	186	µg/g	0%	< 20	
Geranyl_Acetate	<LOQ	<LOQ	186	µg/g	0%	< 20	
a-Cedrene	<LOQ	<LOQ	186	µg/g	0%	< 20	
b-Caryophyllene	<LOQ	<LOQ	186	µg/g	0%	< 20	
a-Humulene	<LOQ	<LOQ	186	µg/g	0%	< 20	
Valenene	<LOQ	<LOQ	186	µg/g	0%	< 20	
cis-Nerolidol	<LOQ	<LOQ	186	µg/g	0%	< 20	
a-Farnesene	<LOQ	<LOQ	186	µg/g	0%	< 20	
trans-Nerolidol	<LOQ	<LOQ	186	µg/g	0%	< 20	
Caryophyllene_Oxide	<LOQ	<LOQ	186	µg/g	0%	< 20	
Guaiol	<LOQ	<LOQ	186	µg/g	0%	< 20	
Cedrol	<LOQ	<LOQ	186	µg/g	0%	< 20	
a-Bisabolol	<LOQ	<LOQ	186	µg/g	0%	< 20	

Definitions

RPD Relative Percent Difference

Formulas

Relative Percent Difference

$$= \frac{(\text{Sample Result } \mu\text{g/g} - \text{Duplicate Result } \mu\text{g/g})}{(\text{Sample Result } \mu\text{g/g} + \text{Duplicate Result } \mu\text{g/g})} \times 100\%$$



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



Report Number: 21-006328/D009.R001
Report Date: 07/20/2021
ORELAP#: OR100028
Purchase Order:
Received: 06/08/21 10:30

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: 2105221

Laboratory Control Sample

Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	0.201	0.2	%	100	85.0 - 115	Acceptable	
CBDV	0.211	0.2	%	106	85.0 - 115	Acceptable	
CBE	0.193	0.2	%	96.4	85.0 - 115	Acceptable	
CBDA	0.204	0.2	%	102	85.0 - 115	Acceptable	
CBGA	0.201	0.2	%	101	85.0 - 115	Acceptable	
CBG	0.207	0.2	%	103	85.0 - 115	Acceptable	
CBD	0.207	0.2	%	103	85.0 - 115	Acceptable	
THCV	0.203	0.2	%	102	85.0 - 115	Acceptable	
d8THCV	0.196	0.2	%	98.0	85.0 - 115	Acceptable	
THCVA	0.190	0.2	%	95.0	85.0 - 115	Acceptable	
CBN	0.211	0.2	%	106	85.0 - 115	Acceptable	
exo-THC	0.187	0.2	%	93.7	85.0 - 115	Acceptable	
d9THC	0.207	0.2	%	103	85.0 - 115	Acceptable	
d8THC	0.201	0.2	%	100	85.0 - 115	Acceptable	
CBL	0.192	0.2	%	95.9	85.0 - 115	Acceptable	
CBC	0.205	0.2	%	103	85.0 - 115	Acceptable	
THCA	0.191	0.2	%	95.7	85.0 - 115	Acceptable	
CBCA	0.190	0.2	%	95.0	85.0 - 115	Acceptable	
CBLA	0.198	0.2	%	98.9	85.0 - 115	Acceptable	
CBT	0.205	0.2	%	103	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



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



Report Number: 21-006328/D009.R001
Report Date: 07/20/2021
ORELAP#: OR100028
Purchase Order:
Received: 06/08/21 10:30

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: 2105221						
Sample Duplicate		Sample ID: 21-006328-0001						
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	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
d8THCV	0.427	0.427	0.1	%	0.0806	< 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	85.0	84.1	0.1	%	1.09	< 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



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



Report Number: 21-006328/D009.R001
Report Date: 07/20/2021
ORELAP#: OR100028
Purchase Order:
Received: 06/08/21 10:30

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: 2105247			
Method Blank		Laboratory Control Sample					
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits
Acephate	0.000	< 0.250		0.801	1.000	80.1	68.6 - 127
Acequinocyl	0.000	< 1.000		9.126	4.000	228.1	67.8 - 126
Acetamiprid	0.000	< 0.100		0.351	0.400	87.8	69.0 - 128
Aldicarb	0.000	< 0.200		0.739	0.800	92.3	69.8 - 130
Abamectin	0.000	< 0.250		1.029	1.000	102.9	69.5 - 129
Azoxystrobin	0.000	< 0.100		0.400	0.400	100.0	68.8 - 128
Bifenazate	0.000	< 0.100		0.293	0.400	73.3	71.1 - 132
Bifenthrin	0.000	< 0.100		0.477	0.400	119.1	68.8 - 128
Boscalid	0.000	< 0.200		0.731	0.800	91.4	69.2 - 129
Carbaryl	0.009	< 0.100		0.360	0.400	90.0	68.4 - 127
Carbofuran	0.007	< 0.100		0.359	0.400	89.8	70.4 - 131
Chlorantraniliprol	0.000	< 0.100		0.726	0.400	181.4	70.9 - 132
Chlorfenapyr	0.000	< 0.500		1.909	2.000	95.5	68.4 - 127
Chlorpyrifos	0.000	< 0.100		0.393	0.400	98.2	68.1 - 126
Clofentazine	0.000	< 0.100		0.287	0.400	71.7	68.7 - 128
Cyfluthrin	0.000	< 0.500		2.038	2.000	101.9	69.8 - 130
Cypermethrin	0.000	< 0.500		2.148	2.000	107.4	69.2 - 128
Daminozide	0.000	< 0.500		1.399	2.000	70.0	69.4 - 129
Diazinon	0.000	< 0.100		0.289	0.400	72.4	68.9 - 128
Dichlorvos	0.000	< 0.500		1.793	2.000	89.6	67.1 - 125
Dimethoat	0.000	< 0.100		0.370	0.400	92.4	68.9 - 128
Ethoprophos	0.000	< 0.100		0.354	0.400	88.4	67.9 - 126
Etofenprox	0.000	< 0.200		0.956	0.800	119.5	68.6 - 127
Etoxazol	0.000	< 0.100		0.414	0.400	103.4	67.9 - 126
Fenoxycarb	0.000	< 0.100		0.290	0.400	72.5	68.4 - 127
Fenpyroximat	0.000	< 0.200		0.867	0.800	108.4	68.4 - 127
Fipronil	0.000	< 0.200		0.751	0.800	93.9	70.1 - 130
Flonicamid	0.000	< 0.250		0.749	1.000	74.9	68.6 - 127
Fludioxonil	0.000	< 0.200		0.854	0.800	106.8	69.8 - 130
Hexythiazox	0.000	< 0.250		0.931	1.000	93.1	67.7 - 126
Imazalil	0.000	< 0.100		0.298	0.400	74.4	71.5 - 133
Imidacloprid	0.000	< 0.200		0.594	0.800	74.3	68.0 - 126
Kresoxim-Methyl	0.000	< 0.200		0.654	0.800	81.7	69.3 - 129
Malathion	0.000	< 0.100		0.323	0.400	80.8	68.5 - 127
Metaxalyl	0.000	< 0.100		0.274	0.400	68.5	68.5 - 127
Methiocarb	0.007	< 0.100		0.339	0.400	84.8	68.5 - 127
Methomyl	0.000	< 0.200		0.651	0.800	81.4	68.8 - 128
MGK 264	0.000	< 0.100		0.277	0.400	69.3	68.4 - 127
Myclobutanil	0.000	< 0.100		0.515	0.400	128.7	68.3 - 127
Naled	0.000	< 0.250		1.018	1.000	101.8	69.7 - 130
Oxamyl	0.000	< 0.500		1.693	2.000	84.6	69.2 - 128
Paclobutrazol	0.000	< 0.200		0.551	0.800	68.9	68.8 - 128
Parathion Methyl	0.000	< 0.200		0.626	0.800	78.3	69.6 - 129
Permethrin	0.000	< 0.100		0.404	0.400	101.0	69.0 - 128
Phosmet	0.000	< 0.100		0.295	0.400	73.7	68.3 - 127
Piperonyl butoxide	0.000	< 0.500		1.969	2.000	98.5	68.6 - 127
Prallethrin	0.000	< 0.100		0.280	0.400	69.9	69.5 - 129
Propiconazole	0.000	< 0.200		0.725	0.800	90.6	68.8 - 128
Propoxur	0.000	< 0.100		0.384	0.400	96.0	68.0 - 126
Pyrethrins	0.000	< 0.100		0.308	0.413	74.5	66.9 - 124
Pyridaben	0.000	< 0.100		0.387	0.400	96.8	69.6 - 129
Spinosad	0.000	< 0.100		0.464	0.388	119.6	72.2 - 134
Spiromesifen	0.000	< 0.100		0.418	0.400	104.4	68.9 - 128
Spirotetramat	0.000	< 0.100		0.378	0.400	94.5	68.6 - 127
Spiroxamine	0.000	< 0.200		0.544	0.800	67.9	67.4 - 125
Tebuconazole	0.000	< 0.200		0.613	0.800	76.7	69.2 - 128
Thiacloprid	0.000	< 0.100		0.305	0.400	76.3	68.4 - 127
Thiamethoxam	0.000	< 0.100		0.326	0.400	81.6	69.1 - 128
Trifloxystrobin	0.000	< 0.100		0.428	0.400	107.1	68.4 - 127



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



Report Number: 21-006328/D009.R001
Report Date: 07/20/2021
ORELAP#: OR100028
Purchase Order:
Received: 06/08/21 10:30

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: 2105247				
Matrix Spike/Matrix Spike Duplicate Recoveries							Sample ID: 21-006308-0002				
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes	
Acetaphate	0.040	0.741	0.717	1.000	3.5%	< 30	70.1%	67.7%	50 - 150	Q1	
Acequinocyl	0.000	10.796	12.479	4.000	14.5%	< 30	269.9%	312.0%	50 - 150		
Acetamiprid	0.000	0.325	0.321	0.400	1.2%	< 30	81.3%	80.3%	50 - 150		
Aldicarb	0.000	0.697	0.664	0.800	4.8%	< 30	87.1%	83.0%	50 - 150		
Abamectin	0.000	0.599	0.645	1.000	7.4%	< 30	59.9%	64.5%	50 - 150	Q	
Azoxystrobin	0.000	0.368	0.354	0.400	3.9%	< 30	91.9%	88.4%	50 - 150		
Bifenazate	0.000	0.384	0.360	0.400	6.4%	< 30	96.0%	90.0%	50 - 150		
Bifenthrin	0.000	0.164	0.173	0.400	5.2%	< 30	41.0%	43.2%	50 - 150		
Boscalid	0.000	0.617	0.646	0.800	4.7%	< 30	77.1%	80.8%	50 - 150	Q1	
Carbaryl	0.000	0.345	0.319	0.400	7.9%	< 30	86.3%	79.7%	50 - 150		
Carbofuran	0.000	0.335	0.325	0.400	2.9%	< 30	83.7%	81.3%	50 - 150		
Chlorantraniliprol	0.000	0.647	0.658	0.400	1.6%	< 30	161.9%	164.4%	50 - 150		
Chlorfenapyr	0.000	1.272	1.661	2.000	26.5%	< 30	63.6%	83.0%	50 - 150	Q1	
Chlorpyrifos	0.027	0.360	0.356	0.400	1.2%	< 30	83.4%	82.4%	50 - 150		
Clofentezine	0.000	0.223	0.213	0.400	4.5%	< 30	55.7%	53.3%	50 - 150		
Cyfluthrin	0.000	1.207	0.944	2.000	24.4%	< 30	60.3%	47.2%	30 - 150		
Cypermethrin	0.000	1.366	1.411	2.000	3.2%	< 30	68.3%	70.5%	50 - 150	Q1	
Daminozide	0.000	4.167	4.006	2.000	3.9%	< 30	208.4%	200.3%	30 - 150		
Diazinon	0.000	0.258	0.248	0.400	4.1%	< 30	64.5%	61.9%	50 - 150		
Dichlorvos	0.000	1.598	1.659	2.000	3.7%	< 30	79.9%	83.0%	50 - 150		
Dimethoat	0.000	0.339	0.332	0.400	1.9%	< 30	84.7%	83.1%	50 - 150	Q	
Ethoprophos	0.000	0.333	0.310	0.400	7.1%	< 30	83.2%	77.5%	50 - 150		
Etofenprox	0.000	0.815	0.865	0.800	6.1%	< 30	101.8%	108.2%	50 - 150		
Etoxazol	0.010	0.327	0.350	0.400	7.2%	< 30	79.3%	85.2%	50 - 150		
Fenoxycarb	0.000	0.466	0.458	0.400	1.9%	< 30	116.6%	114.4%	50 - 150	Q	
Fenpyroximat	0.000	0.749	0.757	0.800	1.2%	< 30	93.6%	94.7%	50 - 150		
Fipronil	0.000	0.681	0.654	0.800	3.9%	< 30	85.1%	81.8%	50 - 150		
Flonicamid	0.000	0.707	0.700	1.000	1.0%	< 30	70.7%	70.0%	50 - 150		
Fludioxonil	0.000	0.725	0.653	0.800	10.4%	< 30	90.6%	81.6%	50 - 150	Q	
Hexythiazox	0.000	0.213	0.221	1.000	3.6%	< 30	21.3%	22.1%	50 - 150		
Imazalil	0.000	0.295	0.277	0.400	6.2%	< 30	73.8%	69.4%	50 - 150		
Imidacloprid	0.000	0.574	0.524	0.800	9.1%	< 30	71.7%	65.5%	50 - 150		
Kresoxim-Methyl	0.000	0.577	0.519	0.800	10.4%	< 30	72.1%	64.9%	50 - 150	Q	
Malathion	0.000	0.326	0.302	0.400	7.5%	< 30	81.4%	75.5%	50 - 150		
Metalaxyl	0.000	0.576	0.540	0.400	6.4%	< 30	143.9%	134.9%	50 - 150		
Methiocarb	0.000	0.321	0.298	0.400	7.5%	< 30	80.3%	74.5%	50 - 150		
Methomyl	0.000	0.601	0.588	0.800	2.0%	< 30	75.1%	73.6%	50 - 150	Q	
MGK 264	0.000	0.238	0.225	0.400	5.6%	< 30	59.6%	56.3%	50 - 150		
Myclobutanil	0.000	0.494	0.448	0.400	9.8%	< 30	123.6%	112.0%	50 - 150		
Naled	0.000	0.959	0.930	1.000	3.0%	< 30	95.9%	93.0%	50 - 150		
Oxamyl	0.000	1.521	1.530	2.000	0.6%	< 30	76.1%	76.5%	50 - 150	Q	
Paclobutrazol	0.000	1.144	1.002	0.800	13.2%	< 30	143.0%	125.3%	50 - 150		
Parathion Methyl	0.000	0.509	0.630	0.800	21.3%	< 30	63.6%	78.7%	30 - 150		
Permethrin	0.000	0.313	0.321	0.400	2.5%	< 30	78.3%	80.4%	50 - 150		
Phosmet	0.000	0.269	0.262	0.400	2.7%	< 30	67.3%	65.5%	50 - 150	Q	
Piperonyl butoxide	0.050	1.159	1.139	2.000	1.8%	< 30	55.4%	54.4%	50 - 150		
Prallethrin	0.000	0.196	0.192	0.400	1.8%	< 30	48.9%	48.0%	50 - 150		
Propiconazole	0.000	0.612	0.605	0.800	1.2%	< 30	76.6%	75.6%	50 - 150		
Propoxur	0.000	0.367	0.345	0.400	6.1%	< 30	91.7%	86.3%	50 - 150	Q	
Pyrethrins	0.000	0.205	0.210	0.413	2.6%	< 30	49.6%	50.9%	50 - 150		
Pyridaben	0.000	0.266	0.281	0.400	5.2%	< 30	66.6%	70.2%	50 - 150		
Spinosad	0.000	0.430	0.416	0.388	3.2%	< 30	110.8%	107.2%	50 - 150		
Spiromesifen	0.011	0.318	0.314	0.400	1.3%	< 30	76.8%	75.8%	50 - 150	Q	
Spirotetramat	0.000	0.394	0.384	0.400	2.5%	< 30	98.4%	96.0%	50 - 150		
Spiroxamine	0.000	0.535	0.493	0.800	8.2%	< 30	66.9%	61.6%	50 - 150		
Tebuconazol	0.000	0.568	0.539	0.800	5.2%	< 30	71.0%	67.4%	50 - 150		
Thiacloprid	0.000	0.286	0.279	0.400	2.5%	< 30	71.6%	69.8%	50 - 150	Q	
Thiamethoxam	0.000	0.261	0.291	0.400	10.9%	< 30	65.1%	72.6%	50 - 150		
Trifloxystrobin	0.000	0.388	0.374	0.400	3.5%	< 30	97.0%	93.6%	50 - 150		



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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.