



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



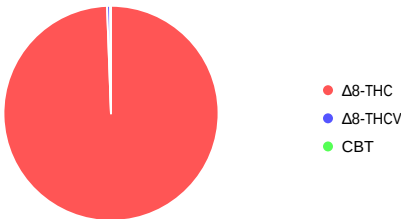
Report Number: 21-009919/D003.R001
Report Date: 09/16/2021
ORELAP#: OR100028
Purchase Order:
Received: 08/26/21 12:55

This is an amended version of report# 21-009919/D003.R000.
Reason: Combine results with report 21-008918/D002.R000.

Customer: KIK By Kalibloom
Product identity: Ice Cream Cake
Client/Metric ID: .
Laboratory ID: 21-009919-0003

Summary

Potency:

Analyte	Result (%)		
Δ8-THC†	92.2		
Δ8-THCV	0.434		
CBT†	0.108		
		CBD-Total	<LOQ
		THC-Total	<LOQ
		(Reported in percent of total sample)	



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503-254-1794



Report Number: 21-008918/D002.R000
Report Date: 08/09/2021
ORELAP#: OR100028
Purchase Order:
Received: 08/04/21 10:00

Customer: KIK By Kalibloom
Product identity: Ice Cream Cake
Client/Metric ID: .
Laboratory ID: 21-008918-0003

Summary

Residual Solvents:

Analyte	Result (µg/g)	Limits (µg/g)	Status
n-Heptane	2000	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 [†]	1.79	35.59%	(R)-(+)-Limonene [†]	0.882	17.53%
β-Caryophyllene [†]	0.609	12.11%	β-Myrcene [†]	0.371	7.38%
(-)-β-Pinene [†]	0.357	7.10%	p-Cymene [†]	0.219	4.35%
α-pinene [†]	0.185	3.68%	(+)-Pulegone [†]	0.0967	1.92%
α-Bisabolol [†]	0.0903	1.80%	Linalool [†]	0.0650	1.29%
Humulene [†]	0.0584	1.16%	α-phellandrene [†]	0.0549	1.09%
d-3-Carene [†]	0.0511	1.02%	(-)-α-Terpineol [†]	0.0488	0.97%
α-Terpinene [†]	0.0440	0.87%	nerol [†]	0.0433	0.86%
(+)-fenchol [†]	0.0346	0.69%	gamma-Terpinene [†]	0.0280	0.56%
Total Terpenes[†]	5.03	100.00%			

Metals:

Less than LOQ for all analytes.



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Received: 08/26/21 12:55

Customer: KIK By Kalibloom
United States of America (USA)
Product identity: Ice Cream Cake
Client/Metric ID: .
Sample Date:
Laboratory ID: 21-009919-0003
Evidence of Cooling: No
Temp: 24.2 °C
Relinquished by: n/a

Sample Results

Potency	Method J AOAC 2015 V98-6 (mod)	Units %	Batch: 2107757	Analyze: 8/27/21 11:20:00 PM
Analyte	As Received	Dry weight	LOQ	Notes
CBC	< LOQ		0.0931	
CBC-A [†]	< LOQ		0.0931	
CBC-Total [†]	< LOQ		0.175	
CBD	< LOQ		0.0931	
CBD-A	< LOQ		0.0931	
CBD-Total	< LOQ		0.175	
CBDV [†]	< LOQ		0.0931	
CBDV-A [†]	< LOQ		0.0931	
CBDV-Total [†]	< LOQ		0.174	
CBE [†]	< LOQ		0.0931	
CBG [†]	< LOQ		0.0931	
CBG-A [†]	< LOQ		0.0931	
CBG-Total	< LOQ		0.174	
CBL [†]	< LOQ		0.0931	
CBL-A [†]	< LOQ		0.0931	
CBL-Total [†]	< LOQ		0.175	
CBN	< LOQ		0.0931	
CBT [†]	0.108		0.0931	
Δ8-THC [†]	92.2		0.931	
Δ8-THCV	0.434		0.0931	
Δ9-THC	< LOQ		0.0931	
THC-A	< LOQ		0.0931	
THC-Total	< LOQ		0.175	
THCV [†]	< LOQ		0.0931	
THCV-A [†]	< LOQ		0.0931	
THCV-Total [†]	< LOQ		0.174	
Total Cannabinoids[†]	92.7			





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Received: 08/04/21 10:00

Solvents		Method Residual Solvents by GC/MS				Units µg/g	Batch 2106959	Analyze 08/05/21 12:56 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	2000	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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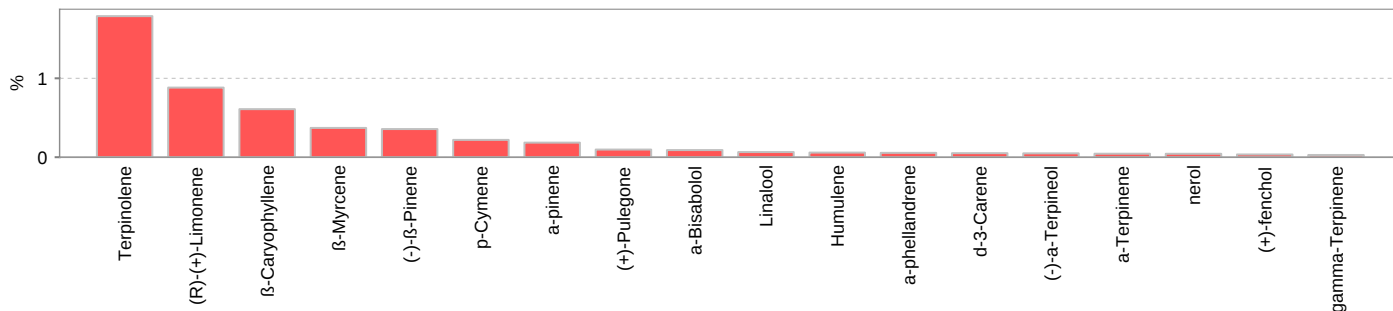


Report Number: 21-008918/D002.R000
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ORELAP#: OR100028
Purchase Order:
Received: 08/04/21 10:00

Pesticides					Method AOAC 2007.01 & EN 15662 (mod)	Units mg/kg	Batch 2106990	Analyze 08/06/21 09:21 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 2107066	Analyze 08/06/21 06:14 PM		
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
Terpinolene [†]	1.79	0.019	35.59%		(R)-(+)-Limonene [†]	0.882	0.019	17.53%	
β-Caryophyllene [†]	0.609	0.019	12.11%		β-Myrcene [†]	0.371	0.019	7.38%	
(-)-β-Pinene [†]	0.357	0.019	7.10%		p-Cymene [†]	0.219	0.019	4.35%	
α-pinene [†]	0.185	0.019	3.68%		(+)-Pulegone [†]	0.0967	0.019	1.92%	
α-Bisabolol [†]	0.0903	0.019	1.80%		Linalool [†]	0.0650	0.019	1.29%	
Humulene [†]	0.0584	0.019	1.16%		α-phellandrene [†]	0.0549	0.019	1.09%	
d-3-Carene [†]	0.0511	0.019	1.02%		(-)-α-Terpineol [†]	0.0488	0.019	0.97%	
α-Terpinene [†]	0.0440	0.019	0.87%		nerol [†]	0.0433	0.019	0.86%	
(+)-fenchol [†]	0.0346	0.019	0.69%		γ-Terpinene [†]	0.0280	0.019	0.56%	
Camphene [†]	< LOQ	0.019	0.00%		Geraniol [†]	< LOQ	0.019	0.00%	
farnesene [†]	< LOQ	0.019	0.00%		Sabinene [†]	< LOQ	0.019	0.00%	
Geranyl acetate [†]	< LOQ	0.019	0.00%		(-)-caryophyllene oxide [†]	< LOQ	0.019	0.00%	
cis-β-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%		valencene [†]	< LOQ	0.019	0.00%	
(-)-Guaiol [†]	< LOQ	0.019	0.00%		(+)-Cedrol [†]	< 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%		α-cedrene [†]	< LOQ	0.019	0.00%	
Eucalyptol [†]	< LOQ	0.019	0.00%		Isoborneol [†]	< LOQ	0.019	0.00%	
Menthol [†]	< LOQ	0.019	0.00%		trans-β-Ocimene [†]	< LOQ	0.013	0.00%	
Total Terpenes	5.03								



Metals									
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes	
Arsenic	< LOQ		mg/kg	0.0462	2106984	08/05/21	AOAC 2013.06 (mod.)	X	
Cadmium	< LOQ		mg/kg	0.0462	2106984	08/05/21	AOAC 2013.06 (mod.)	X	
Lead	< LOQ		mg/kg	0.0462	2106984	08/05/21	AOAC 2013.06 (mod.)	X	
Mercury	< LOQ		mg/kg	0.0231	2106984	08/05/21	AOAC 2013.06 (mod.)	X	



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Received: 08/26/21 12:55

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

% = Percentage of sample

% wt = $\mu\text{g/g}$ divided by 10,000

Approved Signatory

Derrick Tanner
General Manager



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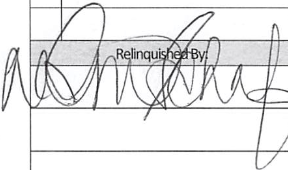
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Hemp / Cannabis Usable / Extract
Chain of Custody Record

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

21-009919

Company: KIK BY KALIBLOOM Contact: TAYLOR Street: 2216 ERMINGHAM RD STE A-4 #346 City: LAS VEGAS State: NV Zip: 89130 ☒ Email Results: KALIBLOOMWORLDWIDE Ph: (702) 561-0000 ☐ Fx Results: () Billing (if different): BILL TO KALIBLOOM				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	POTENCY		Sample Type †	Weight (Units)	Comments/Metric ID		
	BERRY KUSH	8/16	11:30	X		C	4GR	AMEND REPORT 21-000919		
	KING LOUIS XII	8/16	11:30	X		C	4GR	AMEND REPORT 21-000919		
	ICE CREAM CAKE	8/16	11:30	X		C	4GR	AMEND REPORT 21-000919		
Relinquished By:  Date: 8/16 Time: 11:30 Received By:  Date: 8/25/21 Time: 15:29										
									Lab Use Only:	
									☐ Shipped Via: _____ or ☐ Client drop Evidence of cooling: ☐ Yes ☐ No Temp (°C): 24.2	
									☐ 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
12423 NE Whitaker Way
Portland, OR 97230
P: (503) 254-1794 | Fax: (503) 254-1452
info@columbialaboratories.com
Page _____ of _____
www.columbialaboratories.com



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Report Number: 21-008918/D002.R000
Report Date: 08/09/2021
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Received: 08/04/21 10:00



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: 8/04 Time: 1000

Received By (Initials): _____ 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): 0201 2821 7248 0495

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

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

Explain any discrepancies: _____

Page ____ of ____



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

Laboratory Quality Control Results

J AOAC 2015 V98-6							
Batch ID: 2107757							
Laboratory Control Sample							
Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	0.202	0.2	%	101	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	0.200	0.2	%	99.8	85.0 - 115	Acceptable	
CBGA	0.200	0.2	%	99.8	85.0 - 115	Acceptable	
CBG	0.203	0.2	%	101	85.0 - 115	Acceptable	
CBD	0.207	0.2	%	104	85.0 - 115	Acceptable	
THCV	0.203	0.2	%	101	85.0 - 115	Acceptable	
d8THCV	0.206	0.2	%	103	85.0 - 115	Acceptable	
THCVA	0.191	0.2	%	95.4	85.0 - 115	Acceptable	
CBN	0.215	0.2	%	108	85.0 - 115	Acceptable	
exo-THC	0.191	0.2	%	95.7	85.0 - 115	Acceptable	
d9THC	0.209	0.2	%	104	85.0 - 115	Acceptable	
d8THC	0.204	0.2	%	102	85.0 - 115	Acceptable	
CBL	0.193	0.2	%	96.5	85.0 - 115	Acceptable	
CBC	0.204	0.2	%	102	85.0 - 115	Acceptable	
THCA	0.202	0.2	%	101	85.0 - 115	Acceptable	
CBCA	0.199	0.2	%	99.4	85.0 - 115	Acceptable	
CBLA	0.205	0.2	%	103	85.0 - 115	Acceptable	
CBT	0.213	0.2	%	107	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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Received: 08/26/21 12:55

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: 2107757						
Sample Duplicate		Sample ID: 21-009891-0001						
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	0.207	0.212	0.1	%	2.19	< 20	Acceptable	
CBGA	1.61	1.65	0.1	%	2.08	< 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	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
THCVA	0.776	0.789	0.1	%	1.70	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
d9THC	4.20	4.25	0.1	%	1.16	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBC	0.142	0.144	0.1	%	1.95	< 20	Acceptable	
THCA	85.2	83.8	0.1	%	1.60	< 20	Acceptable	
CBCA	0.884	0.873	0.1	%	1.23	< 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: 21-008918/D002.R000
Report Date: 08/09/2021
ORELAP#: OR100028
Purchase Order:
Received: 08/04/21 10:00

Laboratory Quality Control Results									
Residual Solvents				Batch ID: 2106959					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		632	595	µg/g	106.2	70 - 130	
Isobutane	ND	< 200		724	761	µg/g	95.1	70 - 130	
Butane	ND	< 200		725	761	µg/g	95.3	70 - 130	
2,2-Dimethylpropane	ND	< 200		1120	955	µg/g	117.3	70 - 130	
Methanol	ND	< 200		1440	1610	µg/g	89.4	70 - 130	
Ethylene Oxide	ND	< 30		55.6	58.3	µg/g	95.4	70 - 130	
2-Methylbutane	ND	< 200		1290	1610	µg/g	80.1	70 - 130	
Pentane	ND	< 200		1360	1620	µg/g	84.0	70 - 130	
Ethanol	ND	< 200		1480	1610	µg/g	91.9	70 - 130	
Ethyl Ether	ND	< 200		1540	1610	µg/g	95.7	70 - 130	
2,2-Dimethylbutane	ND	< 30		148	172	µg/g	86.0	70 - 130	
Acetone	ND	< 200		1440	1600	µg/g	90.0	70 - 130	
2-Propanol	ND	< 200		1460	1620	µg/g	90.1	70 - 130	
Acetonitrile	ND	< 100		428	501	µg/g	85.4	70 - 130	
2,3-Dimethylbutane	ND	< 30		137	163	µg/g	84.0	70 - 130	
Dichloromethane	ND	< 60		416	483	µg/g	86.1	70 - 130	
2-Methylpentane	ND	< 30		131	164	µg/g	79.9	70 - 130	
3-Methylpentane	ND	< 30		155	164	µg/g	94.5	70 - 130	
Hexane	ND	< 30		161	163	µg/g	98.8	70 - 130	
Ethyl acetate	ND	< 200		1560	1610	µg/g	96.9	70 - 130	
2-Butanol	ND	< 200		1460	1620	µg/g	90.1	70 - 130	
Tetrahydrofuran	ND	< 100		429	500	µg/g	85.8	70 - 130	
Cyclohexane	ND	< 200		1370	1610	µg/g	85.1	70 - 130	
Benzene	ND	< 1		5.01	5.42	µg/g	92.4	70 - 130	
Isopropyl Acetate	ND	< 200		1380	1600	µg/g	86.3	70 - 130	
Heptane	ND	< 200		1420	1600	µg/g	88.8	70 - 130	
1,4-Dioxane	ND	< 100		607	490	µg/g	123.9	70 - 130	
2-Ethoxyethanol	ND	< 30		169	163	µg/g	103.7	70 - 130	
Ethylene Glycol	ND	< 200		410	484	µg/g	84.7	70 - 130	
Toluene	ND	< 200		537	482	µg/g	111.4	70 - 130	
Ethylbenzene	ND	< 200		1080	970	µg/g	111.3	70 - 130	
m,p-Xylene	ND	< 200		891	991	µg/g	89.9	70 - 130	
o-Xylene	ND	< 200		789	967	µg/g	81.6	70 - 130	
Cumene	ND	< 30		141	169	µg/g	83.4	70 - 130	



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Portland, OR 97230
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Report Number: 21-008918/D002.R000
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Purchase Order:
Received: 08/04/21 10:00

QC - Sample Duplicate		Sample ID: 21-008825-0001						
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: 21-008918/D002.R000
Report Date: 08/09/2021
ORELAP#: OR100028
Purchase Order:
Received: 08/04/21 10:00

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: 2106990				
Method Blank			Laboratory Control Sample					
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Acephate	0.000	< 0.250		1.138	1.000	113.8	68.9 - 128	
Acequinocyl	0.000	< 1.000		5.163	4.000	129.1	68.8 - 128	Q1
Acetamiprid	0.000	< 0.100		0.431	0.400	107.7	69.9 - 130	
Aldicarb	0.000	< 0.200		0.836	0.800	104.5	73.1 - 136	
Abamectin	0.000	< 0.250		1.025	1.000	102.5	69.9 - 130	
Azoxystrobin	0.000	< 0.100		0.415	0.400	103.7	69.0 - 128	
Bifenazate	0.000	< 0.100		0.490	0.400	122.5	73.1 - 136	
Bifenthrin	0.000	< 0.100		0.438	0.400	109.4	69.1 - 128	
Boscalid	0.000	< 0.200		0.917	0.800	114.6	69.3 - 129	
Carbaryl	0.000	< 0.100		0.404	0.400	101.1	69.2 - 129	
Carbofuran	0.000	< 0.100		0.461	0.400	115.2	70.1 - 130	
Chlorantraniliprol	0.000	< 0.100		0.393	0.400	98.2	70.3 - 130	
Chlorfenapyr	0.000	< 0.500		2.090	2.000	104.5	69.4 - 129	
Chlorpyrifos	0.000	< 0.100		0.348	0.400	87.1	68.2 - 127	
Clofentezine	0.000	< 0.100		0.394	0.400	98.4	69.2 - 129	
Cyfluthrin	0.000	< 0.500		1.798	2.000	89.9	70.5 - 131	
Cypermethrin	0.000	< 0.500		2.106	2.000	105.3	70.0 - 130	
Daminozide	0.000	< 0.500		2.182	2.000	109.1	71.0 - 132	
Diazinon	0.000	< 0.100		0.416	0.400	104.1	69.0 - 128	
Dichlorvos	0.000	< 0.500		2.380	2.000	119.0	67.3 - 125	
Dimethoat	0.000	< 0.100		0.432	0.400	108.1	69.6 - 129	
Ethoprophos	0.000	< 0.100		0.424	0.400	105.9	68.7 - 128	
Etofenprox	0.000	< 0.200		0.708	0.800	88.4	69.8 - 130	
Etoxazol	0.000	< 0.100		0.456	0.400	114.1	69.0 - 128	
Fenoxycarb	0.000	< 0.100		0.371	0.400	92.9	69.1 - 128	
Fenpyroximat	0.000	< 0.200		0.812	0.800	101.5	69.6 - 129	
Fipronil	0.000	< 0.200		0.816	0.800	102.0	70.8 - 132	
Flonicamid	0.000	< 0.250		1.044	1.000	104.4	69.8 - 130	
Fludioxonil	0.000	< 0.200		0.957	0.800	119.7	71.2 - 132	
Hexythiazox	0.000	< 0.250		0.957	1.000	95.7	68.1 - 127	
Imazalil	0.000	< 0.100		0.460	0.400	115.0	71.2 - 132	
Imidacloprid	0.000	< 0.200		0.859	0.800	107.4	68.7 - 128	
Kresoxim-Methyl	0.000	< 0.200		0.870	0.800	108.8	69.3 - 129	
Malathion	0.000	< 0.100		0.439	0.400	109.8	68.9 - 128	
Metaxalyl	0.000	< 0.100		0.397	0.400	99.3	69.6 - 129	
Methiocarb	0.000	< 0.100		0.433	0.400	108.1	69.2 - 129	
Methomyl	0.000	< 0.200		0.745	0.800	93.1	69.5 - 129	
M/GK 264	0.000	< 0.100		0.440	0.400	110.0	68.7 - 128	
Myclobutanil	0.000	< 0.100		0.443	0.400	110.7	69.2 - 129	
Naled	0.000	< 0.250		1.111	1.000	111.1	70.7 - 131	
Oxamyl	0.000	< 0.500		2.135	2.000	106.7	70.0 - 130	
Paclobutrazol	0.000	< 0.200		0.845	0.800	105.6	69.9 - 130	
Parathion Methyl	0.000	< 0.200		0.712	0.800	89.0	71.3 - 132	
Permethrin	0.000	< 0.100		0.414	0.400	103.5	68.9 - 128	
Phosmet	0.000	< 0.100		0.427	0.400	106.7	68.8 - 128	
Piperonyl butoxide	0.000	< 0.500		1.922	2.000	96.1	69.3 - 129	
Prallethrin	0.000	< 0.100		0.408	0.400	102.0	69.7 - 129	
Propiconazole	0.000	< 0.200		0.775	0.800	96.9	69.3 - 129	
Propoxur	0.000	< 0.100		0.430	0.400	107.6	68.7 - 128	
Pyrethrins	0.000	< 0.100		0.464	0.413	112.2	67.6 - 125	
Pyridaben	0.000	< 0.100		0.390	0.400	97.5	68.7 - 128	
Spinosad	0.000	< 0.100		0.399	0.388	102.8	71.9 - 134	
Spiromesifen	0.000	< 0.100		0.420	0.400	105.0	70.0 - 130	
Spirotetramat	0.000	< 0.100		0.431	0.400	107.7	69.4 - 129	
Spiroxamine	0.000	< 0.200		0.818	0.800	102.3	67.8 - 126	
Tebuconazol	0.000	< 0.200		0.938	0.800	117.3	69.1 - 128	
Thiadoprid	0.000	< 0.100		0.405	0.400	101.2	69.1 - 128	
Thiamethoxam	0.000	< 0.100		0.417	0.400	104.2	69.2 - 128	
Trifloxystrobin	0.000	< 0.100		0.391	0.400	97.7	69.0 - 128	



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



Report Number: 21-008918/D002.R000
Report Date: 08/09/2021
ORELAP#: OR100028
Purchase Order:
Received: 08/04/21 10:00

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: 2106990										
Matrix Spike/Matrix Spike Duplicate Recoveries Sample ID: 21-008918-0001										
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Acephate	0.012	1.135	1.092	1.000	3.8%	< 30	112.2%	108.0%	50 - 150	
Acequinocyl	0.000	6.263	6.327	4.000	1.0%	< 30	156.6%	158.2%	50 - 150	Q1
Acetamidiprid	0.000	0.349	0.372	0.400	6.3%	< 30	87.3%	93.0%	50 - 150	
Aldicarb	0.000	0.930	1.427	0.800	42.2%	< 30	116.2%	178.3%	50 - 150	R,Q1
Abamectin	0.000	0.863	1.115	1.000	25.4%	< 30	86.3%	111.5%	50 - 150	
Azoxystrobin	0.000	0.396	0.415	0.400	4.7%	< 30	99.0%	103.8%	50 - 150	
Bifenazate	0.000	0.545	0.529	0.400	2.9%	< 30	136.2%	132.3%	50 - 150	
Bifenthrin	0.000	0.461	0.540	0.400	15.8%	< 30	115.2%	135.0%	50 - 150	
Boscalid	0.000	0.940	0.896	0.800	4.8%	< 30	117.5%	112.0%	50 - 150	
Carbaryl	0.000	0.427	0.411	0.400	3.7%	< 30	106.8%	102.8%	50 - 150	
Carbofuran	0.000	0.307	0.363	0.400	16.9%	< 30	76.7%	90.8%	50 - 150	
Chlorantraniliprol	0.000	0.427	0.370	0.400	14.4%	< 30	106.9%	92.5%	50 - 150	
Chlorfenapyr	0.000	1.932	2.228	2.000	14.2%	< 30	96.6%	111.4%	50 - 150	
Chlorpyrifos	0.000	0.369	0.346	0.400	6.3%	< 30	92.2%	86.5%	50 - 150	
Clofentezine	0.000	0.381	0.399	0.400	4.6%	< 30	95.2%	99.8%	50 - 150	
Cyfluthrin	0.000	1.998	2.291	2.000	13.7%	< 30	99.9%	114.6%	30 - 150	
Cypermethrin	0.000	2.142	2.448	2.000	13.4%	< 30	107.1%	122.4%	50 - 150	
Daminozide	0.000	2.179	2.242	2.000	2.8%	< 30	109.0%	112.1%	30 - 150	
Diazinon	0.000	0.422	0.388	0.400	8.5%	< 30	105.5%	96.9%	50 - 150	
Dichlorvos	0.000	2.247	2.226	2.000	1.0%	< 30	112.4%	111.3%	50 - 150	
Dimethoat	0.000	0.358	0.380	0.400	5.9%	< 30	89.6%	95.0%	50 - 150	
Ethoprophos	0.000	0.448	0.435	0.400	3.0%	< 30	112.0%	108.7%	50 - 150	
Etofenprox	0.000	1.167	0.854	0.800	31.0%	< 30	145.9%	106.7%	50 - 150	R
Etoxazol	0.000	0.452	0.433	0.400	4.1%	< 30	113.0%	108.4%	50 - 150	
Fenoxycarb	0.000	0.413	0.408	0.400	1.3%	< 30	103.3%	102.0%	50 - 150	
Fenpyroximat	0.000	0.773	0.815	0.800	5.3%	< 30	96.6%	101.8%	50 - 150	
Fipronil	0.000	0.862	0.868	0.800	0.7%	< 30	107.7%	108.4%	50 - 150	
Flonicamid	0.000	1.092	1.109	1.000	1.6%	< 30	109.2%	110.9%	50 - 150	
Fludioxonil	0.000	1.033	1.337	0.800	25.7%	< 30	129.1%	167.1%	50 - 150	Q1
Hexythiazox	0.000	1.289	1.024	1.000	22.9%	< 30	128.9%	102.4%	50 - 150	
Imazalil	0.000	0.436	0.415	0.400	5.1%	< 30	109.1%	103.7%	50 - 150	
Imidacloprid	0.000	0.862	0.845	0.800	2.0%	< 30	107.8%	105.6%	50 - 150	
Kresoxim-Methyl	0.000	0.843	0.838	0.800	0.6%	< 30	105.3%	104.7%	50 - 150	
Malathion	0.000	0.428	0.402	0.400	6.2%	< 30	106.9%	100.5%	50 - 150	
Metaxalyl	0.000	0.410	0.385	0.400	6.5%	< 30	102.6%	96.2%	50 - 150	
Methiocarb	0.000	0.434	0.447	0.400	2.9%	< 30	108.5%	111.6%	50 - 150	
Methomyl	0.000	0.799	0.821	0.800	2.7%	< 30	99.9%	102.6%	50 - 150	
M/GK 264	0.000	0.402	0.379	0.400	6.0%	< 30	100.6%	94.8%	50 - 150	
Myclobutanil	0.000	0.427	0.438	0.400	2.6%	< 30	106.7%	109.5%	50 - 150	
Naled	0.000	1.112	1.061	1.000	4.7%	< 30	111.2%	106.1%	50 - 150	
Oxamyl	0.000	2.111	2.244	2.000	6.1%	< 30	105.6%	112.2%	50 - 150	
Paclobutrazol	0.000	0.892	0.921	0.800	3.2%	< 30	111.5%	115.1%	50 - 150	
Parathion Methyl	0.000	0.811	0.796	0.800	1.9%	< 30	101.3%	99.4%	30 - 150	
Permethrin	0.000	0.555	0.598	0.400	7.5%	< 30	138.7%	149.6%	50 - 150	
Phosmet	0.000	0.438	0.399	0.400	9.3%	< 30	109.5%	99.8%	50 - 150	
Piperonyl butoxide	0.000	2.779	2.351	2.000	16.7%	< 30	139.0%	117.6%	50 - 150	
Prallethrin	0.000	0.424	0.421	0.400	0.8%	< 30	106.0%	105.1%	50 - 150	
Propiconazole	0.000	0.803	0.788	0.800	1.9%	< 30	100.4%	98.5%	50 - 150	
Propoxur	0.000	0.405	0.416	0.400	2.7%	< 30	101.3%	104.1%	50 - 150	
Pyrethrins	0.000	0.446	0.469	0.413	5.2%	< 30	107.9%	113.6%	50 - 150	
Pyridaben	0.000	0.312	0.402	0.400	25.3%	< 30	77.9%	100.4%	50 - 150	
Spinosad	0.000	0.427	0.412	0.388	3.6%	< 30	110.1%	106.3%	50 - 150	
Spiromesifen	0.000	0.450	0.439	0.400	2.4%	< 30	112.5%	109.8%	50 - 150	
Spirotetramat	0.000	0.426	0.436	0.400	2.4%	< 30	106.5%	109.0%	50 - 150	
Spiroxamine	0.000	0.961	0.786	0.800	20.0%	< 30	120.1%	98.3%	50 - 150	
Tebuconazole	0.000	0.839	0.855	0.800	1.9%	< 30	104.8%	106.9%	50 - 150	
Thiadoprid	0.000	0.412	0.394	0.400	4.5%	< 30	103.1%	98.5%	50 - 150	
Thiamethoxam	0.000	0.401	0.432	0.400	7.6%	< 30	100.2%	108.0%	50 - 150	
Trifloxystrobin	0.000	0.392	0.389	0.400	0.7%	< 30	98.0%	97.3%	50 - 150	



12423 NE Whitaker Way
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Report Number: 21-008918/D002.R000
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ORELAP#: OR100028
Purchase Order:
Received: 08/04/21 10:00

Terpenes Quality Control Results

Method Reference: EPA 5035				Batch ID: 2107066					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	LCS	Units	LCS % Rec	Limits	Notes
a-pinene	<LOQ	< 200		605	500	µg/g	121%	70 - 130	
Camphene	<LOQ	< 200		535	500	µg/g	107%	70 - 130	
Sabinene	<LOQ	< 200		485	500	µg/g	97%	70 - 130	
b-Pinene	<LOQ	< 200		461	500	µg/g	92%	70 - 130	
b-Myrcene	<LOQ	< 200		522	500	µg/g	104%	70 - 130	
a-phellandrene	<LOQ	< 200		583	500	µg/g	117%	70 - 130	
d-3-Carene	<LOQ	< 200		620	500	µg/g	124%	70 - 130	
a-Terpinene	<LOQ	< 200		501	500	µg/g	100%	70 - 130	
p-Cymene	<LOQ	< 200		557	500	µg/g	111%	70 - 130	
D-Limonene	<LOQ	< 200		444	500	µg/g	89%	70 - 130	
Eucalyptol	<LOQ	< 200		573	500	µg/g	115%	70 - 130	
b-cis-Ocimene	<LOQ	< 67		204	167	µg/g	122%	70 - 130	
b-trans-Ocimene	<LOQ	< 133		402	333	µg/g	121%	70 - 130	
g-Terpinene	<LOQ	< 200		495	500	µg/g	99%	70 - 130	
Sabinene_Hydrate	<LOQ	< 200		454	500	µg/g	91%	70 - 130	
Terpinolene	<LOQ	< 200		441	500	µg/g	88%	70 - 130	
D-Fenchone	<LOQ	< 200		488	500	µg/g	98%	70 - 130	
Linalool	<LOQ	< 200		578	500	µg/g	116%	70 - 130	
Fenchol	<LOQ	< 200		477	500	µg/g	95%	70 - 130	
Camphor	<LOQ	< 200		515	500	µg/g	103%	70 - 130	
Isopulego	<LOQ	< 200		516	500	µg/g	103%	70 - 130	
Isoborneol	<LOQ	< 200		515	500	µg/g	103%	70 - 130	
Borneol	<LOQ	< 200		471	500	µg/g	94%	70 - 130	
DL-Menthol	<LOQ	< 200		519	500	µg/g	104%	70 - 130	
Terpineol	<LOQ	< 200		429	500	µg/g	86%	70 - 130	
Nerol	<LOQ	< 200		534	500	µg/g	107%	70 - 130	
Pulegone	<LOQ	< 200		595	500	µg/g	119%	70 - 130	
Geraniol	<LOQ	< 200		442	500	µg/g	88%	70 - 130	
Geranyl_Acetate	<LOQ	< 200		554	500	µg/g	111%	70 - 130	
a-Cedrene	<LOQ	< 200		484	500	µg/g	97%	70 - 130	
b-Caryophyllene	<LOQ	< 200		424	500	µg/g	85%	70 - 130	
a-Humulene	<LOQ	< 200		455	500	µg/g	91%	70 - 130	
Valenene	<LOQ	< 200		461	500	µg/g	92%	70 - 130	
cis-Nerolidol	<LOQ	< 200		546	500	µg/g	109%	70 - 130	
a-Farnesene	<LOQ	< 200		529	500	µg/g	106%	70 - 130	
trans-Nerolidol	<LOQ	< 200		464	500	µg/g	93%	70 - 130	
Caryophyllene_Oxide	<LOQ	< 200		649	500	µg/g	130%	70 - 130	
Guaiol	<LOQ	< 200		504	500	µg/g	101%	70 - 130	
Cedrol	<LOQ	< 200		510	500	µg/g	102%	70 - 130	
a-Bisabolol	<LOQ	< 200		520	500	µg/g	104%	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: 21-008918/D002.R000
Report Date: 08/09/2021
ORELAP#: OR100028
Purchase Order:
Received: 08/04/21 10:00

Terpenes Quality Control Results

Method Reference: EPA 5035			Batch ID: 2107066				
Sample/Sample Duplicate		Sample ID: 21-008918-0001					
Analyte	Result	Org. Result	LOQ	Units	% RPD	LIMIT	Notes
a-pinene	4130	4150	198	µg/g	0%	< 20	
Camphene	990	959	198	µg/g	3%	< 20	
Sabinene	<LOQ	<LOQ	198	µg/g	0%	< 20	
b-Pinene	1050	1060	198	µg/g	1%	< 20	
b-Myrcene	5560	5590	198	µg/g	1%	< 20	
a-phellandrene	461	466	198	µg/g	1%	< 20	
d-3-Carene	<LOQ	<LOQ	198	µg/g	0%	< 20	
a-Terpinene	<LOQ	<LOQ	198	µg/g	0%	< 20	
p-Cymene	1660	1670	198	µg/g	1%	< 20	
D-Limonene	18600	18700	198	µg/g	1%	< 20	
Eucalyptol	<LOQ	<LOQ	198	µg/g	0%	< 20	
b-cis-Öcimene	<LOQ	<LOQ	66.1	µg/g	0%	< 20	
b-trans-Öcimene	<LOQ	<LOQ	132	µg/g	0%	< 20	
g-Terpinene	<LOQ	<LOQ	198	µg/g	0%	< 20	
Sabinene_Hydrate	<LOQ	<LOQ	198	µg/g	0%	< 20	
Terpinolene	461	476	198	µg/g	3%	< 20	
D-Fenchone	<LOQ	<LOQ	198	µg/g	0%	< 20	
Linalool	4810	4880	198	µg/g	1%	< 20	
Fenchol	625	636	198	µg/g	2%	< 20	
Camphor	<LOQ	<LOQ	198	µg/g	0%	< 20	
Isopulego	<LOQ	<LOQ	198	µg/g	0%	< 20	
Isoborneol	<LOQ	<LOQ	198	µg/g	0%	< 20	
Borneol	<LOQ	<LOQ	198	µg/g	0%	< 20	
DL-Menthol	<LOQ	<LOQ	198	µg/g	0%	< 20	
Terpineol	336	340	198	µg/g	1%	< 20	
Nerol	<LOQ	<LOQ	198	µg/g	0%	< 20	
Pulegone	<LOQ	<LOQ	198	µg/g	0%	< 20	
Geraniol	<LOQ	<LOQ	198	µg/g	0%	< 20	
Geranyl_Acetate	<LOQ	<LOQ	198	µg/g	0%	< 20	
a-Cedrene	<LOQ	<LOQ	198	µg/g	0%	< 20	
b-Caryophyllene	8860	8980	198	µg/g	1%	< 20	
a-Humulene	2230	2250	198	µg/g	1%	< 20	
Valenene	<LOQ	<LOQ	198	µg/g	0%	< 20	
cis-Nerolidol	<LOQ	<LOQ	198	µg/g	0%	< 20	
a-Farnesene	<LOQ	<LOQ	198	µg/g	0%	< 20	
trans-Nerolidol	<LOQ	<LOQ	198	µg/g	0%	< 20	
Caryophyllene_Oxide	<LOQ	<LOQ	198	µg/g	0%	< 20	
Guaiol	<LOQ	<LOQ	198	µg/g	0%	< 20	
Cedrol	<LOQ	<LOQ	198	µg/g	0%	< 20	
a-Bisabolol	<LOQ	<LOQ	198	µg/g	0%	< 20	

Definitions

RPD Relative Percent Difference



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



Report Number: 21-008918/D002.R000
Report Date: 08/09/2021
ORELAP#: OR100028
Purchase Order:
Received: 08/04/21 10:00

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: 2107076

Laboratory Control Sample

Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	0.195	0.2	%	97.7	85.0 - 115	Acceptable	
CBDV	0.195	0.2	%	97.6	85.0 - 115	Acceptable	
CBE	0.196	0.2	%	98.1	85.0 - 115	Acceptable	
CBD	0.197	0.2	%	98.3	85.0 - 115	Acceptable	
CBGA	0.193	0.2	%	96.6	85.0 - 115	Acceptable	
CBG	0.191	0.2	%	95.6	85.0 - 115	Acceptable	
CBD	0.199	0.2	%	99.3	85.0 - 115	Acceptable	
THCV	0.195	0.2	%	97.4	85.0 - 115	Acceptable	
d8THCV	0.191	0.2	%	95.4	85.0 - 115	Acceptable	
THCVA	0.183	0.2	%	91.5	85.0 - 115	Acceptable	
CBN	0.208	0.2	%	104	85.0 - 115	Acceptable	
exo-THC	0.184	0.2	%	92.0	85.0 - 115	Acceptable	
d9THC	0.207	0.2	%	104	85.0 - 115	Acceptable	
d8THC	0.188	0.2	%	93.8	85.0 - 115	Acceptable	
CBL	0.189	0.2	%	94.6	85.0 - 115	Acceptable	
CBC	0.192	0.2	%	96.1	85.0 - 115	Acceptable	
THCA	0.193	0.2	%	96.3	85.0 - 115	Acceptable	
CBCA	0.184	0.2	%	91.8	85.0 - 115	Acceptable	
CBLA	0.196	0.2	%	97.9	85.0 - 115	Acceptable	
CBT	0.198	0.2	%	98.9	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	
CBD	<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: 21-008918/D002.R000
Report Date: 08/09/2021
ORELAP#: OR100028
Purchase Order:
Received: 08/04/21 10:00

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: 2107076						
Sample Duplicate		Sample ID: 21-008929-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBDV	0.413	0.422	0.1	%	2.09	< 20	Acceptable	
CBE	0.304	0.312	0.1	%	2.62	< 20	Acceptable	
CBD A	0.120	0.124	0.1	%	3.30	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBD	62.8	64.1	0.1	%	2.10	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
d8THCV	<LOQ	0.106	0.1	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBN	0.106	<LOQ	0.1	%	NA	< 20	Acceptable	R2
exo-THC	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
d9THC	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
d8THC	13.3	13.2	0.1	%	0.0984	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBC	0.838	0.791	0.1	%	5.78	< 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	1.28	1.17	0.1	%	9.01	< 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
R2 - Sample replicates RPD non-calculable, as only one replicate is within analytical range.

Units of Measure:

% - Percent



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



Report Number: 21-009919/D003.R001
Report Date: 09/16/2021
ORELAP#: OR100028
Purchase Order:
Received: 08/26/21 12:55

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.