



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



Report Number: 22-003159/D004.R000
Report Date: 03/24/2022
ORELAP#: OR100028
Purchase Order:
Received: 03/18/22 12:37

Customer: KALIBLOOM
Product identity: Garlic Breath
Client/Metric ID: .
Laboratory ID: 22-003159-0001

Summary

Potency:

Analyte	As Received	Dry weight				
CBC-A [†]	0.478	0.527		<ul style="list-style-type: none"> ● CBD-A ● 8-THC ● CBD ● CBC-A ● THC-A ● CBG-A ● CBG ● CBDV-A 	CBD-Total	12.1%
CBD	0.934	1.03			THC-Total	0.320%
CBD-A	11.4	12.6			(Reported in percent of total sample)	
CBDV-A [†]	0.0334	0.0368				
CBG [†]	0.0386	0.0426				
CBG-A [†]	0.261	0.288				
Δ ⁸ -THC [†]	2.10	2.32				
THC-A	0.331	0.365				

Water Activity and Moisture:

Analyte	Result	Limits	Unit
Moisture (Loss on Drying)	9.30	15.0	%
Water Activity	0.458	0.650	aw

Pesticides:

All analytes passing and less than LOQ.

Terpenes:

Analyte	Percent by weight	Percent of Total	Analyte	Percent by weight	Percent of Total
β-Caryophyllene [†]	0.304	31.80%	(R)-(+)-Limonene [†]	0.159	16.63%
α-Bisabolol [†]	0.141	14.75%	Humulene [†]	0.100	10.46%
β-Myrcene [†]	0.0829	8.67%	Linalool [†]	0.0659	6.89%
(-)-Guaiol [†]	0.0536	5.61%	(+)-fenchol [†]	0.0253	2.65%
(-)-α-Terpineol [†]	0.0239	2.50%	Total Terpenes[†]	0.956	100.00%



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Product identity: Garlic Breath

Client/Metric ID: .

Sample Date:

Laboratory ID: 22-003159-0001

Evidence of Cooling: No

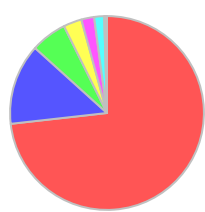
Temp: 20.3 °C

Relinquished by: Fedex

Sample Results

Potency Method J AOAC 2015 V98-6 (mod) Units % Batch 2202511 Analyze 03/23/22 11:45 AM

Analyte	As Received	Dry weight	LOQ	Units	Notes
CBC†	< LOQ	< LOQ	0.0299	%	
CBC-A†	0.478	0.527	0.0299	%	
CBC-Total†	0.419	0.462	0.0562	%	
CBD	0.934	1.03	0.0299	%	
CBD-A	11.4	12.6	0.299	%	
CBD-Total	10.9	12.1	0.292	%	
CBDV†	< LOQ	< LOQ	0.0299	%	
CBDV-A†	0.0334	0.0368	0.0299	%	
CBDV-Total†	< LOQ	< LOQ	0.0558	%	
CBE†	< LOQ	< LOQ	0.0299	%	
CBG†	0.0386	0.0426	0.0299	%	
CBG-A†	0.261	0.288	0.0299	%	
CBG-Total†	0.268	0.292	0.0558	%	
CBL†	< LOQ	< LOQ	0.0299	%	
CBL-A†	< LOQ	< LOQ	0.0299	%	
CBL-Total†	< LOQ	< LOQ	0.0562	%	
CBN	< LOQ	< LOQ	0.0299	%	
CBT†	< LOQ	< LOQ	0.0299	%	
Δ8-THC†	2.10	2.32	0.0299	%	
Δ8-THCV†	< LOQ	< LOQ	0.0299	%	
Δ9-THC	< LOQ	< LOQ	0.0299	%	
exo-THC†	< LOQ	< LOQ	0.0330	%	
THC-A	0.331	0.365	0.0299	%	
THC-Total	0.290	0.320	0.0562	%	
THCV†	< LOQ	< LOQ	0.0299	%	
THCV-A†	< LOQ	< LOQ	0.0299	%	
THCV-Total†	< LOQ	< LOQ	0.0558	%	



- CBD-A ● CBDV-A
- 8-THC
- CBD
- CBC-A
- THC-A
- CBG-A
- CBG

Water Activity and Moisture

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
Moisture (Loss on Drying)	9.30	15.0	%	0.20	2202491	03/21/22	AOAC 966.02 (mod.)	pass	
Water Activity	0.458	0.650	aw	0.0300	2202545	03/22/22	AOAC 978.18	pass	

Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.

Testing in accordance with: OAR 333-007-0400 OAR 333-007-0420 OAR 333-007-0430



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Pesticides											
Method AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 2202588 Analyze 03/24/22 03:55 PM											
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin	< LOQ	0.50	0.250	pass		Acephate	< LOQ	0.40	0.250	pass	
Acequinocyl	< LOQ	2.0	1.00	pass		Acetamiprid	< LOQ	0.20	0.100	pass	
Aldicarb	< LOQ	0.40	0.200	pass		Azoxystrobin	< LOQ	0.20	0.100	pass	
Bifenazate	< LOQ	0.20	0.100	pass		Bifenthrin	< LOQ	0.20	0.100	pass	
Boscalid	< LOQ	0.40	0.200	pass		Carbaryl	< LOQ	0.20	0.100	pass	
Carbofuran	< LOQ	0.20	0.100	pass		Chlorantraniliprole	< LOQ	0.20	0.100	pass	
Chlorfenapyr	< LOQ	1.0	0.500	pass		Chlorpyrifos	< LOQ	0.20	0.100	pass	
Clofentezine	< LOQ	0.20	0.100	pass		Cyfluthrin	< LOQ	1.0	0.500	pass	
Cypermethrin	< LOQ	1.0	0.500	pass		Daminozide	< LOQ	1.0	0.500	pass	
Diazinon	< LOQ	0.20	0.100	pass		Dichlorvos	< LOQ	1.0	0.500	pass	
Dimethoate	< LOQ	0.20	0.100	pass		Ethoprophos	< LOQ	0.20	0.100	pass	
Etofenprox	< LOQ	0.40	0.200	pass		Etoxazole	< LOQ	0.20	0.100	pass	
Fenoxycarb	< LOQ	0.20	0.100	pass		Fenpyroximate	< LOQ	0.40	0.200	pass	
Fipronil	< LOQ	0.40	0.200	pass		Fonicamid	< LOQ	1.0	0.400	pass	
Fludioxonil	< LOQ	0.40	0.200	pass		Hexythiazox	< LOQ	1.0	0.400	pass	
Imazalil	< LOQ	0.20	0.100	pass		Imidacloprid	< LOQ	0.40	0.200	pass	
Kresoxim-methyl	< LOQ	0.40	0.200	pass		Malathion	< LOQ	0.20	0.100	pass	
Metalaxyl	< LOQ	0.20	0.100	pass		Methiocarb	< LOQ	0.20	0.100	pass	
Methomyl	< LOQ	0.40	0.200	pass		MGK-264	< LOQ	0.20	0.100	pass	
Myclobutanil	< LOQ	0.20	0.100	pass		Naled	< LOQ	0.50	0.250	pass	
Oxamyl	< LOQ	1.0	0.500	pass		Paclobutrazole	< LOQ	0.40	0.200	pass	
Parathion-Methyl	< LOQ	0.20	0.200	pass		Permethrin	< LOQ	0.20	0.100	pass	
Phosmet	< LOQ	0.20	0.100	pass		Piperonyl butoxide	< LOQ	2.0	1.00	pass	
Prallethrin	< LOQ	0.20	0.200	pass		Propiconazole	< LOQ	0.40	0.200	pass	
Propoxur	< LOQ	0.20	0.100	pass		Pyrethrin I (total)	< LOQ	1.0	0.500	pass	
Pyridaben	< LOQ	0.20	0.100	pass		Spinosad	< LOQ	0.20	0.100	pass	
Spiromesifen	< LOQ	0.20	0.100	pass		Spirotetramat	< LOQ	0.20	0.100	pass	
Spiroxamine	< LOQ	0.40	0.200	pass		Tebuconazole	< LOQ	0.40	0.200	pass	
Thiacloprid	< LOQ	0.20	0.100	pass		Thiamethoxam	< LOQ	0.20	0.100	pass	
Trifloxystrobin	< LOQ	0.20	0.100	pass							

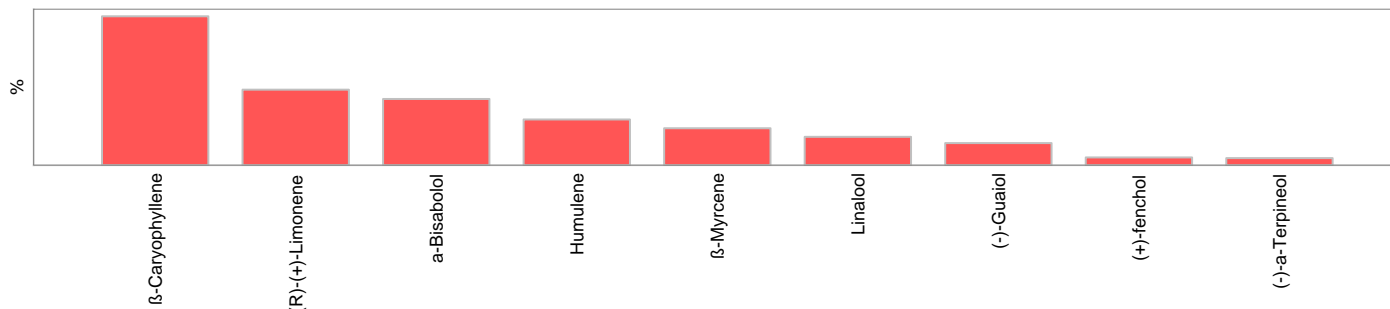


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Terpenes				Method J AOAC 2015 V98-6	Units %	Batch 2202513	Analyze 03/23/22 12:34 AM		
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
β-Caryophyllene [†]	0.304	0.019	31.799%		(R)-(+)-Limonene [†]	0.159	0.019	16.632%	
α-Bisabolol [†]	0.141	0.019	14.749%		Humulene [†]	0.100	0.019	10.460%	
β-Myrcene [†]	0.0829	0.019	8.6715%		Linalool [†]	0.0659	0.019	6.8933%	
(-)-Guaiol [†]	0.0536	0.019	5.6067%		(+)-fenchol [†]	0.0253	0.019	2.6464%	
(-)-α-Terpineol [†]	0.0239	0.019	2.5000%		(-)-β-Pinene [†]	< LOQ	0.019	0.00%	
(-)-caryophyllene oxide [†]	< LOQ	0.019	0.00%		Geraniol [†]	< LOQ	0.019	0.00%	
α-pinene [†]	< LOQ	0.019	0.00%		α-phellandrene [†]	< LOQ	0.019	0.00%	
Menthol [†]	< LOQ	0.019	0.00%		Eucalyptol [†]	< LOQ	0.019	0.00%	
nerol [†]	< LOQ	0.019	0.00%		γ-Terpinene [†]	< LOQ	0.019	0.00%	
(+)-Borneol [†]	< LOQ	0.019	0.00%		Isoborneol [†]	< LOQ	0.019	0.00%	
valencene [†]	< LOQ	0.019	0.00%		Terpinolene [†]	< LOQ	0.019	0.00%	
(±)-cis-Nerolidol [†]	< LOQ	0.019	0.00%		Geranyl acetate [†]	< LOQ	0.019	0.00%	
(±)-Camphor [†]	< LOQ	0.019	0.00%		Camphene [†]	< LOQ	0.019	0.00%	
d-3-Carene [†]	< LOQ	0.019	0.00%		(-)-Isopulegol [†]	< LOQ	0.019	0.00%	
(+)-Pulegone [†]	< LOQ	0.019	0.00%		(±)-trans-Nerolidol [†]	< LOQ	0.019	0.00%	
(+)-Cedrol [†]	< LOQ	0.019	0.00%		(±)-fenchone [†]	< LOQ	0.019	0.00%	
α-cedrene [†]	< LOQ	0.019	0.00%		α-Terpinene [†]	< LOQ	0.019	0.00%	
cis-β-Ocimene [†]	< LOQ	0.006	0.00%		farnesene [†]	< LOQ	0.019	0.00%	
p-Cymene [†]	< LOQ	0.019	0.00%		Sabinene [†]	< LOQ	0.019	0.00%	
Sabinene hydrate [†]	< LOQ	0.019	0.00%		trans-β-Ocimene [†]	< LOQ	0.012	0.00%	
Total Terpenes	0.956								





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These test results are representative of the individual sample selected and submitted by the client.

Abbreviations

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

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

† = Analyte not NELAP accredited.

Units of Measure

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

% = Percentage of sample

aw = Water Activity

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

Approved Signatory

Derrick Tanner
General Manager



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Document ID: 3177 Revision: 2
Effective: 06/25/2021
Page 1 of 1

Job Number: _____ Search Name: _____

Package/Cooler opened on (if different than received date/time) Date: _____ Time: _____

Received By (Initials): AC Logged in by (Initials): _____ Date: 3-18 Time: 12:36

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): 2709 9238 6402

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? 20.3 °C 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: _____



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Revision: 1 Document ID: 7148
Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6								
Batch ID: 2202511								
Laboratory Control Sample								
Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes	
CBDVA	0.0441	0.04	%	110	80.0 - 120	Acceptable		
CBDV	0.0431	0.04	%	108	80.0 - 120	Acceptable		
CBE	0.0388	0.04	%	96.9	80.0 - 120	Acceptable		
CBDA	0.0394	0.04	%	98.5	80.0 - 120	Acceptable		
CBGA	0.0402	0.04	%	101	80.0 - 120	Acceptable		
CBG	0.0415	0.04	%	104	80.0 - 120	Acceptable		
CBD	0.0415	0.04	%	104	80.0 - 120	Acceptable		
THCV	0.0422	0.04	%	106	80.0 - 120	Acceptable		
d8THCV	0.0414	0.04	%	103	80.0 - 120	Acceptable		
THCVA	0.0390	0.04	%	97.5	80.0 - 120	Acceptable		
CBN	0.0423	0.04	%	106	80.0 - 120	Acceptable		
exo-THC	0.0410	0.04	%	102	80.0 - 120	Acceptable		
d9THC	0.0419	0.04	%	105	80.0 - 120	Acceptable		
d8THC	0.0416	0.04	%	104	80.0 - 120	Acceptable		
CBL	0.0413	0.04	%	103	80.0 - 120	Acceptable		
CBC	0.0435	0.04	%	109	80.0 - 120	Acceptable		
THCA	0.0374	0.04	%	93.4	80.0 - 120	Acceptable		
CBCA	0.0398	0.04	%	99.6	80.0 - 120	Acceptable		
CBLA	0.0397	0.04	%	99.2	80.0 - 120	Acceptable		
CBT	0.0395	0.04	%	98.7	80.0 - 120	Acceptable		

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes	
CBDVA	< LOQ	0.03	%	< 0.03	Acceptable		
CBDV	< LOQ	0.03	%	< 0.03	Acceptable		
CBE	< LOQ	0.03	%	< 0.03	Acceptable		
CBDA	< LOQ	0.03	%	< 0.03	Acceptable		
CBGA	< LOQ	0.03	%	< 0.03	Acceptable		
CBG	< LOQ	0.03	%	< 0.03	Acceptable		
CBD	< LOQ	0.03	%	< 0.03	Acceptable		
THCV	< LOQ	0.03	%	< 0.03	Acceptable		
d8THCV	< LOQ	0.03	%	< 0.03	Acceptable		
THCVA	< LOQ	0.03	%	< 0.03	Acceptable		
CBN	< LOQ	0.03	%	< 0.03	Acceptable		
exo-THC	< LOQ	0.03	%	< 0.03	Acceptable		
d9THC	< LOQ	0.03	%	< 0.03	Acceptable		
d8THC	< LOQ	0.03	%	< 0.03	Acceptable		
CBL	< LOQ	0.03	%	< 0.03	Acceptable		
CBC	< LOQ	0.03	%	< 0.03	Acceptable		
THCA	< LOQ	0.03	%	< 0.03	Acceptable		
CBCA	< LOQ	0.03	%	< 0.03	Acceptable		
CBLA	< LOQ	0.03	%	< 0.03	Acceptable		
CBT	< LOQ	0.03	%	< 0.03	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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Laboratory Quality Control Results

J AOAC 2015 V98-6								
Batch ID: 2202511								
Sample Duplicate								
Sample ID: 22-003159-0001								
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	0.0330	0.0334	0.03	%	1.24	< 20	Acceptable	
CBDV	< LOQ	< LOQ	0.03	%	NA	< 20	Acceptable	
CBE	< LOQ	< LOQ	0.03	%	NA	< 20	Acceptable	
CBDA	11.4	11.4	0.03	%	0.00337	< 20	Acceptable	
CBGA	0.251	0.261	0.03	%	3.65	< 20	Acceptable	
CBG	0.0382	0.0386	0.03	%	0.911	< 20	Acceptable	
CBD	0.916	0.934	0.03	%	1.98	< 20	Acceptable	
THCV	< LOQ	< LOQ	0.03	%	NA	< 20	Acceptable	
d8THCV	< LOQ	< LOQ	0.03	%	NA	< 20	Acceptable	
THCVA	< LOQ	< LOQ	0.03	%	NA	< 20	Acceptable	
CBN	< LOQ	< LOQ	0.03	%	NA	< 20	Acceptable	
exo-THC	< LOQ	< LOQ	0.03	%	NA	< 20	Acceptable	
d9THC	< LOQ	< LOQ	0.03	%	NA	< 20	Acceptable	
d8THC	2.07	2.10	0.03	%	1.44	< 20	Acceptable	
CBL	< LOQ	< LOQ	0.03	%	NA	< 20	Acceptable	
CBC	< LOQ	< LOQ	0.03	%	NA	< 20	Acceptable	
THCA	0.328	0.331	0.03	%	0.865	< 20	Acceptable	
CBCA	0.458	0.478	0.03	%	4.26	< 20	Acceptable	
CBLA	< LOQ	< LOQ	0.03	%	NA	< 20	Acceptable	
CBT	< LOQ	< LOQ	0.03	%	NA	< 20	Acceptable	

Abbreviations

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

Units of Measure:

% - Percent



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Revision: 1 Document ID: 7086
 Legacy ID: CFL-E57Worksheet Validated 11/04/2020

Terpenes Quality Control Results

Method Reference: EPA 5035				Batch ID: 2202513					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	LCS	Units	LCS % Rec	Limits	Notes
a-pinene	<LOQ	< 200		492	500	µg/g	98%	70 - 130	
Camphene	<LOQ	< 200		502	500	µg/g	100%	70 - 130	
Sabinene	<LOQ	< 200		507	500	µg/g	101%	70 - 130	
b-Pinene	<LOQ	< 200		511	500	µg/g	102%	70 - 130	
b-Myrcene	<LOQ	< 200		418	500	µg/g	84%	70 - 130	
a-phellandrene	<LOQ	< 200		381	500	µg/g	76%	70 - 130	
d-3-Carene	<LOQ	< 200		542	500	µg/g	108%	70 - 130	
a-Terpinene	<LOQ	< 200		505	500	µg/g	101%	70 - 130	
p-Cymene	<LOQ	< 200		470	500	µg/g	94%	70 - 130	
D-Limonene	<LOQ	< 200		459	500	µg/g	92%	70 - 130	
Eucalyptol	<LOQ	< 200		460	500	µg/g	92%	70 - 130	
b-cis-Ocimene	<LOQ	< 67		130	167	µg/g	78%	70 - 130	
b-trans-Ocimene	<LOQ	< 133		249	333	µg/g	75%	70 - 130	
g-Terpinene	<LOQ	< 200		512	500	µg/g	102%	70 - 130	
Sabinene_Hydrate	<LOQ	< 200		462	500	µg/g	92%	70 - 130	
Terpinolene	<LOQ	< 200		479	500	µg/g	96%	70 - 130	
D-Fenchone	<LOQ	< 200		543	500	µg/g	109%	70 - 130	
Linalool	<LOQ	< 200		396	500	µg/g	79%	70 - 130	
Fenchol	<LOQ	< 200		478	500	µg/g	96%	70 - 130	
Camphor	<LOQ	< 200		502	500	µg/g	100%	70 - 130	
Isopulego	<LOQ	< 200		473	500	µg/g	95%	70 - 130	
Isoborneol	<LOQ	< 200		505	500	µg/g	101%	70 - 130	
Borneol	<LOQ	< 200		509	500	µg/g	102%	70 - 130	
DL-Menthol	<LOQ	< 200		501	500	µg/g	100%	70 - 130	
Terpineol	<LOQ	< 200		447	500	µg/g	89%	70 - 130	
Nerol	<LOQ	< 200		395	500	µg/g	79%	70 - 130	
Pulegone	<LOQ	< 200		490	500	µg/g	98%	70 - 130	
Geraniol	<LOQ	< 200		350	500	µg/g	70%	70 - 130	
Geranyl_Acetate	<LOQ	< 200		419	500	µg/g	84%	70 - 130	
a-Cedrene	<LOQ	< 200		481	500	µg/g	96%	70 - 130	
b-Caryophyllene	<LOQ	< 200		509	500	µg/g	102%	70 - 130	
a-Humulene	<LOQ	< 200		474	500	µg/g	95%	70 - 130	
Valenene	<LOQ	< 200		508	500	µg/g	102%	70 - 130	
cis-Nerolidol	<LOQ	< 200		502	500	µg/g	100%	70 - 130	
a-Farnesene	<LOQ	< 200		501	500	µg/g	100%	70 - 130	
trans-Nerolidol	<LOQ	< 200		515	500	µg/g	103%	70 - 130	
Caryophyllene_Oxide	<LOQ	< 200		506	500	µg/g	101%	70 - 130	
Guaiol	<LOQ	< 200		541	500	µg/g	108%	70 - 130	
Cedrol	<LOQ	< 200		542	500	µg/g	108%	70 - 130	
a-Bisabolol	<LOQ	< 200		525	500	µg/g	105%	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: 2202513					
Sample/Sample Duplicate		Sample ID: 22-003159-0002					
Analyte	Result	Org. Result	LOQ	Units	% RPD	LIMIT	Notes
a-pinene	<LOQ	<LOQ	184	µg/g	0%	< 20	
Camphene	<LOQ	<LOQ	184	µg/g	0%	< 20	
Sabinene	<LOQ	<LOQ	184	µg/g	0%	< 20	
b-Pinene	<LOQ	<LOQ	184	µg/g	0%	< 20	
b-Myrcene	868	895	184	µg/g	3%	< 20	
a-phellandrene	<LOQ	<LOQ	184	µg/g	0%	< 20	
d-3-Carene	<LOQ	<LOQ	184	µg/g	0%	< 20	
a-Terpinene	<LOQ	<LOQ	184	µg/g	0%	< 20	
p-Cymene	<LOQ	<LOQ	184	µg/g	0%	< 20	
D-Limonene	1290	1290	184	µg/g	0%	< 20	
Eucalyptol	<LOQ	<LOQ	184	µg/g	0%	< 20	
b-cis-Ocimene	<LOQ	<LOQ	61.3	µg/g	0%	< 20	
b-trans-Ocimene	<LOQ	<LOQ	123	µg/g	0%	< 20	
g-Terpinene	<LOQ	<LOQ	184	µg/g	0%	< 20	
Sabinene Hydrate	<LOQ	<LOQ	184	µg/g	0%	< 20	
Terpinolene	<LOQ	<LOQ	184	µg/g	0%	< 20	
D-Fenchone	<LOQ	<LOQ	184	µg/g	0%	< 20	
Linalool	440	441	184	µg/g	0%	< 20	
Fenchol	196	192	184	µg/g	2%	< 20	
Camphor	<LOQ	<LOQ	184	µg/g	0%	< 20	
Isopulego	<LOQ	<LOQ	184	µg/g	0%	< 20	
Isoborneol	<LOQ	<LOQ	184	µg/g	0%	< 20	
Borneol	<LOQ	<LOQ	184	µg/g	0%	< 20	
DL-Menthol	<LOQ	<LOQ	184	µg/g	0%	< 20	
Terpineol	204	203	184	µg/g	0%	< 20	
Nerol	<LOQ	<LOQ	184	µg/g	0%	< 20	
Pulegone	<LOQ	<LOQ	184	µg/g	0%	< 20	
Geraniol	<LOQ	<LOQ	184	µg/g	0%	< 20	
Geranyl_Acetate	<LOQ	<LOQ	184	µg/g	0%	< 20	
a-Cedrene	<LOQ	<LOQ	184	µg/g	0%	< 20	
b-Caryophyllene	3670	3680	184	µg/g	0%	< 20	
a-Humulene	1190	1190	184	µg/g	0%	< 20	
Valenene	<LOQ	<LOQ	184	µg/g	0%	< 20	
cis-Nerolidol	<LOQ	<LOQ	184	µg/g	0%	< 20	
a-Farnesene	<LOQ	<LOQ	184	µg/g	0%	< 20	
trans-Nerolidol	<LOQ	<LOQ	184	µg/g	0%	< 20	
Caryophyllene_Oxide	192	202	184	µg/g	5%	< 20	
Guaiol	<LOQ	<LOQ	184	µg/g	0%	< 20	
Cedrol	<LOQ	<LOQ	184	µg/g	0%	< 20	
a-Bisabolol	740	709	184	µg/g	4%	< 20	

Definitions

RPD Relative Percent Difference



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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg		Laboratory Control Sample			Batch ID: 2202588	
Method Blank	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Abamectin	0.000	< 0.250		1.049	1.000	104.9	78.7 - 107	
Acephate	0.013	< 0.250		0.988	1.000	98.8	67.4 - 125	
Acequinocyl	0.000	< 1.000		3.862	4.000	96.5	78.5 - 117	
Acetamiprid	0.000	< 0.100		0.396	0.400	98.9	66.9 - 124	
Aldicarb	0.000	< 0.200		0.758	0.800	94.7	70.2 - 130	
Azoxystrobin	0.000	< 0.100		0.361	0.400	90.3	76.4 - 125	
Bifenazate	0.000	< 0.100		0.363	0.400	90.7	69.0 - 128	
Bifenthrin	0.000	< 0.100		0.377	0.400	94.2	72.8 - 126	
Boscalid	0.009	< 0.200		0.771	0.800	96.4	70.5 - 131	
Carbaryl	0.000	< 0.100		0.402	0.400	100.5	72.7 - 123	
Carbofuran	0.000	< 0.100		0.415	0.400	103.8	79.7 - 118	
Chlorantraniliprole	0.000	< 0.100		0.366	0.400	91.5	69.0 - 128	
Chlorfenapyr	0.000	< 0.500		1.676	2.000	83.8	70.3 - 131	
Chlorpyrifos	0.000	< 0.100		0.332	0.400	83.1	72.7 - 122	
Clofentazine	0.000	< 0.100		0.298	0.400	74.5	42.6 - 79.1	
Cyfluthrin	0.000	< 0.500		1.840	2.000	92.0	74.2 - 130	
Cypermethrin	0.000	< 0.500		1.843	2.000	92.2	72.5 - 130	
Daminozide	0.000	< 0.500		0.845	2.000	42.3	24.8 - 46.1	
Diazinon	0.000	< 0.100		0.371	0.400	92.6	73.6 - 130	
Dichlorvos	0.000	< 0.500		1.976	2.000	98.8	80.6 - 129	
Dimethoate	0.000	< 0.100		0.389	0.400	97.3	78.9 - 118	
Ethoprophos	0.000	< 0.100		0.382	0.400	95.6	70.4 - 130	
Etofenprox	0.000	< 0.200		0.841	0.800	105.2	70.5 - 127	
Etoazole	0.009	< 0.100		0.421	0.400	105.3	70.9 - 132	
Fenoxycarb	0.000	< 0.100		0.334	0.400	83.5	73.9 - 122	
Fenpyroximate	0.000	< 0.200		0.675	0.800	84.4	76.0 - 125	
Fipronil	0.000	< 0.200		0.672	0.800	83.9	71.3 - 132	
Flonicamid	0.000	< 0.250		1.208	1.000	120.8	74.7 - 130	
Fludioxonil	0.000	< 0.200		0.700	0.800	87.5	67.1 - 125	
Hexythiazox	0.000	< 0.250		0.933	1.000	93.3	73.0 - 124	
Imazalil	0.000	< 0.100		0.368	0.400	92.1	67.2 - 125	
Imidacloprid	0.000	< 0.200		0.844	0.800	105.5	77.6 - 122	
Kresoxim-methyl	0.000	< 0.200		0.722	0.800	90.3	72.1 - 125	
Malathion	0.000	< 0.100		0.387	0.400	96.7	73.8 - 125	
Metaxyl	0.000	< 0.100		0.372	0.400	92.9	75.2 - 122	
Methiocarb	0.000	< 0.100		0.357	0.400	89.3	71.6 - 133	
Methomyl	0.000	< 0.200		0.865	0.800	108.1	65.6 - 120	
MGK-264	0.000	< 0.100		0.353	0.400	88.2	70.4 - 131	
Myclobutanil	0.000	< 0.100		0.354	0.400	88.5	68.6 - 126	
Naled	0.000	< 0.250		0.906	1.000	90.6	45.3 - 84.1	q1
Oxamyl	0.000	< 0.500		1.911	2.000	95.5	66.8 - 123	
Paclobutrazole	0.000	< 0.200		0.721	0.800	90.1	69.7 - 126	
Parathion-Methyl	0.000	< 0.200		0.870	0.800	108.8	64.1 - 116	
Permethrin	0.000	< 0.100		0.347	0.400	86.8	75.4 - 126	
Phosmet	0.000	< 0.100		0.376	0.400	94.0	71.7 - 125	
Piperonyl butoxide	0.000	< 0.500		1.861	2.000	93.1	73.8 - 129	
Prallethrin	0.000	< 0.100		0.365	0.400	91.2	67.4 - 125	
Propiconazole	0.000	< 0.200		0.712	0.800	89.0	74.8 - 124	
Propoxur	0.002	< 0.100		0.393	0.400	98.2	77.5 - 120	
Pyrethrin (Summe)	0.000	< 0.100		0.365	0.413	88.4	66.9 - 124	
Pyridaben	0.000	< 0.100		0.365	0.400	91.3	76.2 - 121	
Spinosad	0.000	< 0.100		0.357	0.388	92.1	75.0 - 133	
Spiromesifen	0.000	< 0.100		0.401	0.400	100.3	70.2 - 130	
Spirotetramat	0.000	< 0.100		0.353	0.400	88.3	70.2 - 126	
Spiroxamine	0.000	< 0.200		0.717	0.800	89.6	75.2 - 121	
Tebuconazole	0.000	< 0.200		0.684	0.800	85.5	68.4 - 127	
Thiacloprid	0.000	< 0.100		0.391	0.400	97.8	71.6 - 123	
Thiamethoxam	0.000	< 0.100		0.420	0.400	105.1	67.9 - 123	
Trifloxystrobin	0.000	< 0.100		0.340	0.400	84.9	74.7 - 125	



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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg					Batch ID: 2202588			
Matrix Spike/Matrix Spike Duplicate Recoveries		Sample ID: 22-003096-0002								
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Abamectin	0.000	0.995	0.934	1.000	6.3%	< 30	99.5%	93.4%	50 - 150	
Acephate	0.028	1.244	1.196	1.000	4.1%	< 30	121.6%	116.7%	50 - 150	
Acequinocyl	0.000	4.187	4.359	4.000	4.0%	< 30	104.7%	109.0%	50 - 150	
Acetamiprid	0.000	0.504	0.490	0.400	2.7%	< 30	125.9%	122.5%	50 - 150	
Aldicarb	0.000	0.881	0.896	0.800	1.8%	< 30	110.1%	112.0%	50 - 150	
Azoxystrobin	0.000	0.440	0.421	0.400	4.4%	< 30	109.9%	105.2%	50 - 150	
Bifenazate	0.000	0.419	0.411	0.400	1.9%	< 30	104.8%	102.8%	50 - 150	
Bifenthrin	0.000	0.269	0.283	0.400	5.1%	< 30	67.2%	70.7%	50 - 150	
Boscalid	0.000	0.745	0.735	0.800	1.4%	< 30	93.1%	91.8%	50 - 150	
Carbaryl	0.000	0.524	0.508	0.400	3.0%	< 30	130.9%	127.1%	50 - 150	
Carbofuran	0.000	0.532	0.528	0.400	0.7%	< 30	132.9%	132.0%	50 - 150	
Chlorantraniliprole	0.000	0.384	0.370	0.400	3.6%	< 30	96.0%	92.6%	50 - 150	
Chlorfenapyr	0.208	2.140	2.148	2.000	0.5%	< 30	96.6%	97.0%	50 - 150	
Chlorpyrifos	0.000	0.339	0.332	0.400	2.1%	< 30	84.8%	83.0%	50 - 150	
Clofentezine	0.000	0.334	0.324	0.400	3.1%	< 30	83.6%	81.0%	50 - 150	
Cyfluthrin	0.000	2.485	2.755	2.000	10.3%	< 30	124.3%	137.7%	30 - 150	
Cypermethrin	0.034	2.200	2.349	2.000	6.7%	< 30	108.3%	115.7%	50 - 150	
Daminozide	0.000	1.155	1.157	2.000	0.2%	< 30	57.7%	57.9%	30 - 150	
Diazinon	0.099	0.514	0.504	0.400	2.6%	< 30	103.8%	101.2%	50 - 150	
Dichlorvos	0.000	2.321	2.226	2.000	4.2%	< 30	116.1%	111.3%	50 - 150	
Dimethoate	0.000	0.462	0.466	0.400	0.9%	< 30	115.5%	116.6%	50 - 150	
Ethoprophos	0.000	0.434	0.436	0.400	0.6%	< 30	108.4%	109.0%	50 - 150	
Etofenprox	0.000	0.804	0.813	0.800	1.2%	< 30	100.4%	101.6%	50 - 150	
Etoxazole	0.000	0.553	0.524	0.400	5.3%	< 30	138.2%	131.1%	50 - 150	
Fenoxycarb	0.000	0.397	0.412	0.400	3.9%	< 30	99.2%	103.1%	50 - 150	
Fenpyroximate	0.000	0.733	0.726	0.800	1.0%	< 30	91.7%	90.7%	50 - 150	
Fipronil	0.000	0.903	0.907	0.800	0.4%	< 30	112.9%	113.3%	50 - 150	
Flonicamid	0.000	1.121	1.088	1.000	2.9%	< 30	112.1%	108.8%	50 - 150	
Fludioxonil	0.000	0.781	0.734	0.800	6.1%	< 30	97.6%	91.8%	50 - 150	
Hexythiazox	0.000	0.692	0.646	1.000	6.8%	< 30	69.2%	64.6%	50 - 150	
Imazalil	0.000	0.481	0.451	0.400	6.4%	< 30	120.3%	112.8%	50 - 150	
Imidacloprid	0.000	0.625	0.638	0.800	2.0%	< 30	78.1%	79.7%	50 - 150	
Kresoxim-methyl	0.000	0.772	0.762	0.800	1.4%	< 30	96.5%	95.2%	50 - 150	
Malathion	0.000	0.442	0.431	0.400	2.7%	< 30	110.6%	107.6%	50 - 150	
Metaxyl	0.000	0.427	0.426	0.400	0.4%	< 30	106.8%	106.4%	50 - 150	
Methiocarb	0.000	0.402	0.383	0.400	4.8%	< 30	100.5%	95.8%	50 - 150	
Methomyl	0.000	0.963	0.940	0.800	2.4%	< 30	120.4%	117.5%	50 - 150	
MGK-264	0.000	0.359	0.364	0.400	1.3%	< 30	89.7%	90.9%	50 - 150	
Myclobutanil	0.000	0.386	0.372	0.400	3.6%	< 30	96.5%	93.1%	50 - 150	
Naled	0.000	1.204	1.204	1.000	0.1%	< 30	120.4%	120.4%	50 - 150	
Oxamyl	0.000	2.079	2.070	2.000	0.4%	< 30	103.9%	103.5%	50 - 150	
Paclobutrazole	0.000	0.811	0.832	0.800	2.6%	< 30	101.4%	104.1%	50 - 150	
Parathion-Methyl	0.000	1.107	1.050	0.800	5.3%	< 30	138.4%	131.3%	30 - 150	
Permethrin	0.000	0.366	0.361	0.400	1.3%	< 30	91.4%	90.2%	50 - 150	
Phosmet	0.000	0.425	0.408	0.400	3.9%	< 30	106.1%	102.0%	50 - 150	
Piperonyl butoxide	0.038	2.201	2.011	2.000	9.2%	< 30	108.1%	98.6%	50 - 150	
Prallethrin	0.000	0.408	0.414	0.400	1.4%	< 30	102.0%	103.4%	50 - 150	
Propiconazole	0.000	0.790	0.790	0.800	0.1%	< 30	98.8%	98.7%	50 - 150	
Propoxur	0.000	0.472	0.462	0.400	2.2%	< 30	117.9%	115.4%	50 - 150	
Pyrethrin (Summe)	0.001	0.409	0.404	0.413	1.2%	< 30	99.0%	97.8%	50 - 150	
Pyridaben	0.000	0.317	0.358	0.400	12.0%	< 30	79.3%	89.5%	50 - 150	
Spinosad	0.000	0.424	0.430	0.388	1.4%	< 30	109.4%	110.9%	50 - 150	
Spiromesifen	0.000	0.843	0.848	0.400	0.5%	< 30	210.8%	211.9%	50 - 150	q
Spirotetramat	0.000	0.292	0.286	0.400	2.2%	< 30	73.0%	71.5%	50 - 150	
Spiroxamine	0.000	0.891	0.825	0.800	7.8%	< 30	111.4%	103.1%	50 - 150	
Tebuconazole	0.000	0.728	0.753	0.800	3.4%	< 30	91.1%	94.2%	50 - 150	
Thiacloprid	0.000	0.479	0.463	0.400	3.3%	< 30	119.7%	115.8%	50 - 150	
Thiamethoxam	0.000	0.409	0.432	0.400	5.6%	< 30	102.2%	108.1%	50 - 150	
Trifloxystrobin	0.000	0.378	0.355	0.400	6.4%	< 30	94.5%	88.7%	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.