Lazarus Naturals

CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

BULK SKU CAP.SLPMTN50 **BATCH #** DK39

PRODUCT NAME Full Spectrum Sleep Capsules + Melatonin **SERVING SIZE** 0.35 g

LABORATORY: Columbia Laboratories **OREGON ACCREDITATION:** OR100028

LOQ: Limit Of Quantitation
LOD: Limit Of Detection

1 g = 10^{-3} kg = 10^{3} mg = 10^{6} µg 1 mg/kg = 1 ppm = 1000 ppb

POTENCY	PER SERVING		PER GRAM		Percent	
Cannabidiol (CBD)	30.5	mg/serving	87.1	mg/g	8.71	%
Total THC (d9-THC, THCA)	<LOQ	mg/serving	<LOQ	mg/g	<LOQ	%
Cannabigerol (CBG)	13.1	mg/serving	37.5	mg/g	3.75	%
Cannabinol (CBN)	13.8	mg/serving	39.4	mg/g	3.94	%
Cannabichromene (CBC)	0.644	mg/serving	1.84	mg/g	0.184	%
Tetrahydrocannabinolic Acid (THCA)	<LOQ	mg/serving	<LOQ	mg/g	<LOQ	%
Delta-9-THC (d9-THC)	0.532	mg/serving	1.52	mg/g	0.152	%
Delta-8-THC (d8-THC)	<LOQ	mg/serving	<LOQ	mg/g	<LOQ	%

HEAVY METALS	PER SERVING		PER GRAM		REGULATORY ACTION LEVEL	
Arsenic	<LOQ	µg/serving	<LOQ	µg/g	10	µg/day [1]
Cadmium	<LOQ	µg/serving	<LOQ	µg/g	4.1	µg/day [1]
Lead	0.0249	µg/serving	0.0711	µg/g	3.5	µg/day [2]
Mercury	<LOQ	µg/serving	<LOQ	µg/g	2	µg/day [1]

PESTICIDES	REGULATORY ACTION LEVEL
None of the other 59 pesticides tested found above limit of detection in the sample.	10 ppb [1]

RESIDUAL SOLVENTS	Results	REGULATORY ACTION LEVEL
Ethanol	<LOQ	
Heptane	<LOQ	
None of the 34 residual solvents tested found above limit of quantitation in the sample.		

MICROBIAL	PASS/FAIL
Yeast & Mold	Pass
Coliform	Pass

1. American Herbal Pharmacopoeia. (2014). Cannabis Inflorescence: Standards of Identity, Analysis, and Quality Control. Washington DC: AHP.
2. US Food and Drug Administration. (2019). Lead in Food, Foodwares, and Dietary Supplements. Washington DC: FDA.US Food and Drug Administration. (2019). Lead in Food, Foodwares, and Dietary Supplements. Washington DC: FDA.

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 21-013811/D002.R000
Report Date: 12/02/2021
ORELAP#: OR100028
Purchase Order:
Received: 11/23/21 14:55

Customer: Etz Hayim Holdings
Product identity: FORM-DK39-CAP.SLPMTN50
Client/Metrc ID: .
Laboratory ID: 21-013811-0001

Summary

Potency:

Analyte per 1g	Result	Limits	Units	Status
CBC per 1g†	1 84		mg/1g	
CBD per 1g	87 1		mg/1g	
CBG per 1g†	37 5		mg/1g	
CBN per 1g	39 4		mg/1g	
CBT per 1g†	1 31		mg/1g	
Δ9 THC per 1g	1 52		mg/1g	

CBD Total per 1g	87.1 mg/1g
THC-Total per 1g	<LOQ

(Reported in milligrams per serving)

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 21-013811/D002.R000
Report Date: 12/02/2021
ORELAP#: OR100028
Purchase Order:
Received: 11/23/21 14:55

Customer: Etz Hayim Holdings
16427 NE Airport Way
PORTLAND 97230
United States of America (USA)

Product identity: FORM-DK39-CAP.SLPMTN50
Client/Metrc ID: .
Sample Date:
Laboratory ID: 21-013811-0001
Evidence of Cooling: No
Temp: 19.9 °C
Relinquished by: Client
Serving Size #1: 1 g
Density: 0.5600 g/ml

Sample Results

Potency per 1g **Method** J AOAC 2015 V98-6 (mod) **Units** mg/se **Batch:** 2110693 **Analyze:** 11/30/21 12:32:00 A

Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1g†	1.84		mg/1g	0.858	
CBC-A per 1g†	< LOQ		mg/1g	0.858	
CBC-Total per 1g†	1.84		mg/1g	1.61	
CBD per 1g	87.1		mg/1g	0.858	
CBD-A per 1g	< LOQ		mg/1g	0.858	
CBD-Total per 1g	87.1		mg/1g	1.61	
CBDV per 1g†	< LOQ		mg/1g	0.858	
CBDV-A per 1g†	< LOQ		mg/1g	0.858	
CBDV-Total per 1g†	< LOQ		mg/1g	1.60	
CBE per 1g†	< LOQ		mg/1g	0.858	
CBG per 1g†	37.5		mg/1g	0.858	
CBG-A per 1g†	< LOQ		mg/1g	0.858	
CBG-Total per 1g†	37.5		mg/1g	1.60	
CBL per 1g†	< LOQ		mg/1g	0.858	
CBL-A per 1g†	< LOQ		mg/1g	0.858	
CBL-Total per 1g†	< LOQ		mg/1g	1.61	
CBN per 1g	39.4		mg/1g	0.858	
CBT per 1g†	1.31		mg/1g	0.858	
Δ8-THCV per 1g†	< LOQ		mg/1g	0.858	
Δ8-THC per 1g†	< LOQ		mg/1g	0.858	
Δ9-THC per 1g	1.52		mg/1g	0.858	
exo-THC per 1g†	< LOQ		mg/1g	0.858	
THC-A per 1g	< LOQ		mg/1g	0.858	
THC-Total per 1g	< LOQ		mg/1g	1.61	
THCV per 1g†	< LOQ		mg/1g	0.858	
THCV-A per 1g†	< LOQ		mg/1g	0.858	
THCV-Total per 1g†	< LOQ		mg/1g	1.61	
Total Cannabinoids per 1g	169		mg/1g		

Columbia LABORATORIES
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Columbia LABORATORIES
A Tentamus Company

12423 NE Whitaker Way
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503-254-1794

Report Number:	21-013811/D002.R000
Report Date:	12/02/2021
ORELAP#:	OR100028
Purchase Order:	
Received:	11/23/21 14:55

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, 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

g = Gram
g/ml = Gram per milliliter
mg/1g = Milligram per 1g
% = Percentage of sample
% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner
General Manager

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 21-013811/D002.R000
Report Date: 12/02/2021
ORELAP#: OR100028
Purchase Order:
Received: 11/23/21 14:55

PIXIS Labs
A Tentamus Company

12423 NE Whitaker Way Portland OR 97230 p.503-254-1794

Cannabis Chain of Custody Record

ORELAP ID: OR100028

Compa [redacted]
Contac
Addres
Email:
Phone:
Processor's License:

Analysis Requested

Field ID	Date/Time Collected		Pesticides – OR 59 compounds	Pesticide Multi-Residue – 379 compounds	Potency	Residual Solvents	Water Activity	Moisture	Terpenes	Micro: Yeast and Mold	Micro: *E.Coli* and Total Coliform	Heavy Metals	Mycotoxins	Other	Matrix	Weight	Serving size for edibles	Comments/Metrc ID
FORM-DK39-CAP.SLPMTN5(	11/10	1445			X													Laz Nat Discount

Purchase Order Number:
Project Number:
Project Name:

☐ Report Instructions:
☐ Send to State - METRC
☑ Email Final Results:
☐ Fax Final Results
☐ Cash/Check/CC/Net 30
Other:

Collected By:	Relinquished By	Date	Time	Received by	Date	Time
☑Standard (5 day)	[redacted]					
☐Rush (3-4 day) (1.5x Standard)						
☐Priority Rush (2 day) (2x Standard)						

Lab Use Only:
Client Alias:
Order Number:
Proper Container
Sample Condition
Temperature: 19.9°C
Shipped Via: Client
Evidence of cooling: ☐Yes ☑No

SUBMISSION OF SAMPLES WITH TESTING REQUIREMENTS TO PIXIS WILL BE UNDERSTOOD TO BE AN AGREEMENT FOR SERVICES IN ACCORDANCE WITH THE CONDITIONS LISTED ON THE BACK OF THIS FORM

Revision: 1.02 Control#: CF023
Effective 01/31/2019 Revised 01/31/2019

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Page 1 of 2

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 21-013811/D002.R000
Report Date: 12/02/2021
ORELAP#: OR100028
Purchase Order:
Received: 11/23/21 14:55

Revision Documen D
Legacy D Effec ive

Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2110693**

Laboratory Control Sample

Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	0.196	0.2	%	98.2	85.0 - 115	Acceptable	
CBDV	0.209	0.2	%	104	85.0 - 115	Acceptable	
CBE	0.207	0.2	%	103	85.0 - 115	Acceptable	
CBDA	0.215	0.2	%	107	85.0 - 115	Acceptable	
CBGA	0.196	0.2	%	98.2	85.0 - 115	Acceptable	
CBG	0.200	0.2	%	100	85.0 - 115	Acceptable	
CBD	0.212	0.2	%	106	85.0 - 115	Acceptable	
THCV	0.199	0.2	%	99.6	85.0 - 115	Acceptable	
d8THCV	0.194	0.2	%	97.1	85.0 - 115	Acceptable	
THCVA	0.193	0.2	%	96.4	85.0 - 115	Acceptable	
CBN	0.212	0.2	%	106	85.0 - 115	Acceptable	
exo-THC	0.191	0.2	%	95.4	85.0 - 115	Acceptable	
d9THC	0.207	0.2	%	104	85.0 - 115	Acceptable	
d8THC	0.196	0.2	%	97.8	85.0 - 115	Acceptable	
CBL	0.185	0.2	%	92.7	85.0 - 115	Acceptable	
CBC	0.202	0.2	%	101	85.0 - 115	Acceptable	
THCA	0.210	0.2	%	105	85.0 - 115	Acceptable	
CBCA	0.198	0.2	%	98.8	85.0 - 115	Acceptable	
CBLA	0.206	0.2	%	103	85.0 - 115	Acceptable	
CBT	0.215	0.2	%	108	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

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 21-013811/D002.R000
Report Date: 12/02/2021
ORELAP#: OR100028
Purchase Order:
Received: 11/23/21 14:55

Revision Documen D
Legacy D Effec ive

Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2110693**

Sample Duplicate Sample D **21-013776-0001**

Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBDV	0.134	0.133	0.1	%	0.951	< 20	Acceptable	
CBE	0.155	0.157	0.1	%	1.03	< 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	18.0	18.1	0.1	%	0.659	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
d9THC	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBC	0.133	0.129	0.1	%	2.82	< 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	0.328	0.125	0.1	%	89.7	< 20	Outlier	

Abbreviations

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

Units of Measure:

% - Percent

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 21-013811/D002.R000
Report Date: 12/02/2021
ORELAP#: OR100028
Purchase Order:
Received: 11/23/21 14:55

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	Quantitaion level raised due to matrix interference.
B	Analyte detected in method blank, but not in associated samples.
B1	The sample concentration is greater than 5 times the blank concentration.
B2	The sample concentration is less than 5 times the blank concentration.

Columbia LABORATORIES
A Tentamus Company

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

Report Number:	21-013523/D004.R000
Report Date:	11/23/2021
ORELAP#:	OR100028
Purchase Order:	
Received:	11/16/21 15:19

Customer:	Etz Hayim Holdings
Product identity:	FORM-DK39-CAP.SLPMTN50
Client/Metrc ID:	.
Laboratory ID:	21-013523-0002

Summary

Microbiology:

Less than LOQ for all analytes.

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 21-013523/D004.R000
Report Date: 11/23/2021
ORELAP#: OR100028
Purchase Order:
Received: 11/16/21 15:19

Customer: Etz Hayim Holdings
16427 NE Airport Way
PORTLAND 97230
United States of America (USA)

Product identity: FORM-DK39-CAP.SLPMTN50
Client/Metrc ID: .
Sample Date:
Laboratory ID: 21-013523-0002
Evidence of Cooling: No
Temp: 25 °C
Relinquished by: Client

Sample Results

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2110356	11/19/21	AOAC 991.14 (Petrifilm)		X
Total Coliforms	< LOQ		cfu/g	10	2110356	11/19/21	AOAC 991.14 (Petrifilm)		X
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2110357	11/20/21	AOAC 2014.05 (RAPID)		X
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2110357	11/20/21	AOAC 2014.05 (RAPID)		X

Columbia LABORATORIES
A Tentamus Company

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

Report Number:	21-013523/D004.R000
Report Date:	11/23/2021
ORELAP#:	OR100028
Purchase Order:	
Received:	11/16/21 15:19

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.

Units of Measure

cfu/g = Colony forming units per gram

% wt = µg/g divided by 10,000

Glossary of Qualifiers

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner
General Manager

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 21-013523/D004.R000
Report Date: 11/23/2021
ORELAP#: OR100028
Purchase Order:
Received: 11/16/21 15:19

PIXIS Labs
A Tentamus Company

12423 NE Whitaker Way Portland OR 97230 p.503-254-1794

Cannabis Chain of Custody Record

ORELAP ID: OR100028

Comp [redacted]
Conta
Addr
Email
Phon
Processor's License:

Analysis Requested

Purchase Order Number:
Project Number:
Project Name:

☐ Report Instructions:
☐ Send to State - METRC
☑ Email Final Results:
☐ Fax Final Results
☐ Cash/Check/CC/Net 30
Other:

Field ID	Date/Time Collected		Pesticides – OR 59 compounds	Pesticide Multi-Residue – 379 compounds	Potency	Residual Solvents	Water Activity	Moisture	Terpenes	Micro: Yeast and Mold	Micro: *E.Coli* and Total Coliform	Heavy Metals	Mycotoxins	Other	Matrix	Weight	Serving size for edibles	Comments/Metrc ID
FORM-DK39-CAP.SLPMTN50	11/9	1545			X										Powder			Lab Nat Discount
FORM-DK39-CAP.SLPMTN50	11/9	1545								X	X				Powder			
FORM-DK39-CAP.SLPMTN50	11/9	1545	X			X			X			X			Powder			

Collected By:	Relinquished By:	Date	Time	Received by:	Date	Time
☑Standard (5 day)	[redacted]					
☐Rush (3-4 day) (1.5x Standard)						
☐Priority Rush (2 day) (2x Standard)						

Lab Use Only:
Client Alias:
Order Number:
Proper Container
Sample Condition
Temperature: 24.5°C
Shipped Via: Client
Evidence of cooling: ☐Yes ☑No

SUBMISSION OF SAMPLES WITH TESTING REQUIREMENTS TO PIXIS WILL BE UNDERSTOOD TO BE AN AGREEMENT FOR SERVICES IN ACCORDANCE WITH THE CONDITIONS LISTED ON THE BACK OF THIS FORM

Revision: 1.02 Control#: CF023
Effective 01/31/2019 Revised 01/31/2019

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Page 1 of 2

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 21-013523/D004.R000
Report Date: 11/23/2021
ORELAP#: OR100028
Purchase Order:
Received: 11/16/21 15:19

Revision: 2 Document ID: 3120
Legacy ID: CFL-C21Effective:

Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662 | Units: mg/Kg | Batch ID: 2110393

Matrix Spike/Matrix Spike Duplicate Recoveries | Sample ID: 21-012819-0002

Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Acephate	0.000	1.192	1.319	1.000	10.1%	< 30	119.2%	131.9%	50 - 150	
Acequinocyl	0.000	2.419	2.335	4.000	3.5%	< 30	60.5%	58.4%	50 - 150	
Acetamiprid	0.000	0.459	0.471	0.400	2.5%	< 30	114.8%	117.8%	50 - 150	
Aldicarb	0.000	0.771	0.502	0.800	42.2%	< 30	96.3%	62.8%	50 - 150	R
Abamectin	0.000	1.296	1.434	1.000	10.1%	< 30	129.6%	143.4%	50 - 150	
Azoxystrobin	0.000	0.404	0.411	0.400	1.7%	< 30	100.9%	102.7%	50 - 150	
Bifenazate	0.000	0.520	0.610	0.400	16.0%	< 30	129.9%	152.5%	50 - 150	Q1
Bifenthrin	0.000	0.373	0.356	0.400	4.7%	< 30	93.3%	89.0%	50 - 150	
Boscalid	0.000	0.881	0.911	0.800	3.3%	< 30	110.1%	113.8%	50 - 150	
Carbaryl	0.000	0.448	0.459	0.400	2.5%	< 30	112.0%	114.8%	50 - 150	
Carbofuran	0.000	0.386	0.346	0.400	11.1%	< 30	96.5%	86.4%	50 - 150	
Chlorantraniliprol	0.000	0.418	0.410	0.400	2.0%	< 30	104.5%	102.5%	50 - 150	
Chlorfenapyr	0.000	2.171	1.772	2.000	20.2%	< 30	108.5%	88.6%	50 - 150	
Chlorpyrifos	0.000	0.442	0.437	0.400	1.2%	< 30	110.4%	109.1%	50 - 150	
Clofentezine	0.000	0.441	0.461	0.400	4.3%	< 30	110.2%	115.1%	50 - 150	
Cyfluthrin	0.000	1.152	1.294	2.000	11.7%	< 30	57.6%	64.7%	30 - 150	
Cypermethrin	0.000	0.988	1.067	2.000	7.7%	< 30	49.4%	53.3%	50 - 150	Q
Daminozide	0.000	1.469	1.799	2.000	20.2%	< 30	73.5%	90.0%	30 - 150	
Diazinon	0.000	0.426	0.464	0.400	8.6%	< 30	106.5%	116.0%	50 - 150	
Dichlorvos	0.000	2.361	2.357	2.000	0.2%	< 30	118.1%	117.8%	50 - 150	
Dimethoat	0.000	0.453	0.481	0.400	6.1%	< 30	113.2%	120.3%	50 - 150	
Ethoprophos	0.000	0.401	0.458	0.400	13.3%	< 30	100.2%	114.4%	50 - 150	
Etofenprox	0.000	0.584	0.466	0.800	22.6%	< 30	73.0%	58.2%	50 - 150	
Etoxazol	0.000	0.403	0.490	0.400	19.5%	< 30	100.8%	122.6%	50 - 150	
Fenoxycarb	0.000	0.454	0.456	0.400	0.4%	< 30	113.5%	113.9%	50 - 150	
Fenpyroximat	0.000	0.489	0.497	0.800	1.6%	< 30	61.2%	62.2%	50 - 150	
Fipronil	0.000	0.902	0.834	0.800	7.9%	< 30	112.8%	104.2%	50 - 150	
Flonicamid	0.000	1.396	1.225	1.000	13.0%	< 30	139.6%	122.5%	50 - 150	
Fludioxonil	0.000	0.811	1.074	0.800	27.9%	< 30	101.4%	134.2%	50 - 150	
Hexythiazox	0.000	1.079	1.334	1.000	21.2%	< 30	107.9%	133.4%	50 - 150	
Imazalil	0.000	0.460	0.464	0.400	0.9%	< 30	114.9%	116.0%	50 - 150	
Imidacloprid	0.000	0.895	0.963	0.800	7.2%	< 30	111.9%	120.3%	50 - 150	
Kresoxim-Methyl	0.000	0.888	0.913	0.800	2.7%	< 30	111.0%	114.1%	50 - 150	
Malathion	0.000	0.353	0.398	0.400	12.0%	< 30	88.3%	99.5%	50 - 150	
Metalaxyl	0.000	0.449	0.467	0.400	3.9%	< 30	112.3%	116.8%	50 - 150	
Methiocarb	0.000	0.444	0.436	0.400	1.8%	< 30	111.1%	109.1%	50 - 150	
Methomyl	0.000	1.008	0.790	0.800	24.2%	< 30	126.0%	98.8%	50 - 150	
MGK 264	0.000	0.419	0.470	0.400	11.5%	< 30	104.7%	117.4%	50 - 150	
Myclobutanil	0.000	0.418	0.410	0.400	2.0%	< 30	104.5%	102.4%	50 - 150	
Naled	0.000	0.947	0.981	1.000	3.5%	< 30	94.7%	98.1%	50 - 150	
Oxamyl	0.000	2.385	2.222	2.000	7.1%	< 30	119.2%	111.1%	50 - 150	
Paclobutrazol	0.000	0.948	0.987	0.800	4.1%	< 30	118.5%	123.4%	50 - 150	
Parathion Methyl	0.000	0.856	0.754	0.800	12.7%	< 30	107.0%	94.2%	30 - 150	
Permethrin	0.000	0.334	0.405	0.400	19.2%	< 30	83.4%	101.1%	50 - 150	
Phosmet	0.000	0.451	0.473	0.400	4.6%	< 30	112.8%	118.2%	50 - 150	
Piperonyl butoxide	0.000	2.700	2.613	2.000	3.3%	< 30	135.0%	130.6%	50 - 150	
Prallethrin	0.000	0.639	0.680	0.400	6.2%	< 30	159.8%	170.0%	50 - 150	Q1
Propiconazole	0.000	0.935	0.964	0.800	3.1%	< 30	116.9%	120.5%	50 - 150	
Propoxur	0.000	0.437	0.418	0.400	4.3%	< 30	109.1%	104.6%	50 - 150	
Pyrethrins	0.002	0.354	0.386	0.413	8.8%	< 30	85.2%	93.0%	50 - 150	
Pyridaben	0.000	0.446	0.428	0.400	4.3%	< 30	111.6%	106.9%	50 - 150	
Spinosad	0.000	0.459	0.492	0.388	7.0%	< 30	118.3%	126.8%	50 - 150	
Spiromesifen	0.000	0.463	0.474	0.400	2.3%	< 30	115.8%	118.5%	50 - 150	
Spirotetramat	0.000	0.517	0.507	0.400	2.0%	< 30	129.2%	126.7%	50 - 150	
Spiroxamine	0.000	0.849	0.900	0.800	5.8%	< 30	106.1%	112.5%	50 - 150	
Tebuconazol	0.000	0.914	0.913	0.800	0.1%	< 30	114.3%	114.2%	50 - 150	
Thiacloprid	0.000	0.464	0.459	0.400	1.2%	< 30	116.0%	114.6%	50 - 150	
Thiamethoxam	0.000	0.502	0.452	0.400	10.4%	< 30	125.6%	113.1%	50 - 150	
Trifloxystrobin	0.000	0.451	0.449	0.400	0.3%	< 30	112.7%	112.3%	50 - 150	

Columbia LABORATORIES
A Tentamus Company

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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662 | Units: mg/Kg | Batch ID: 2110393

	Method Blank			Laboratory Control Sample				
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Acephate	0.009	< 0.250		1.243	1.000	124.3	72.3 - 134	
Acequinocyl	0.000	< 1.000		5.172	4.000	129.3	71.4 - 133	
Acetamiprid	0.000	< 0.100		0.458	0.400	114.6	72.5 - 135	
Aldicarb	0.000	< 0.200		0.936	0.800	117.0	74.5 - 138	
Abamectin	0.000	< 0.250		1.156	1.000	115.6	75.7 - 141	
Azoxystrobin	0.000	< 0.100		0.388	0.400	97.1	72.1 - 134	
Bifenazate	0.000	< 0.100		0.512	0.400	128.0	78.9 - 147	
Bifenthrin	0.000	< 0.100		0.410	0.400	102.6	71.9 - 134	
Boscalid	0.000	< 0.200		1.011	0.800	126.4	72.6 - 135	
Carbaryl	0.000	< 0.100		0.486	0.400	121.5	72.7 - 135	
Carbofuran	0.009	< 0.100		0.488	0.400	121.9	73.4 - 136	
Chlorantraniliprol	0.000	< 0.100		0.397	0.400	99.1	68.0 - 126	
Chlorfenapyr	0.000	< 0.500		2.513	2.000	125.6	72.3 - 134	
Chlorpyrifos	0.000	< 0.100		0.508	0.400	126.9	70.3 - 131	
Clofentezine	0.000	< 0.100		0.459	0.400	114.7	70.9 - 132	
Cyfluthrin	0.000	< 0.500		2.346	2.000	117.3	74.1 - 138	
Cypermethrin	0.000	< 0.500		2.302	2.000	115.1	73.0 - 136	
Daminozide	0.000	< 0.500		2.152	2.000	107.6	72.0 - 134	
Diazinon	0.000	< 0.100		0.463	0.400	115.8	72.4 - 134	
Dichlorvos	0.000	< 0.500		2.408	2.000	120.4	70.6 - 131	
Dimethoat	0.000	< 0.100		0.441	0.400	110.2	72.2 - 134	
Ethoprophos	0.000	< 0.100		0.415	0.400	103.8	71.1 - 132	
Etofenprox	0.000	< 0.200		0.721	0.800	90.1	73.6 - 137	
Etoxazol	0.000	< 0.100		0.471	0.400	117.7	72.5 - 135	
Fenoxycarb	0.000	< 0.100		0.453	0.400	113.2	71.7 - 133	
Fenpyroximat	0.000	< 0.200		0.934	0.800	116.8	72.8 - 135	
Fipronil	0.000	< 0.200		1.068	0.800	133.6	73.8 - 137	
Flonicamid	0.000	< 0.250		1.270	1.000	127.0	72.7 - 135	
Fludioxonil	0.000	< 0.200		0.796	0.800	99.5	75.5 - 140	
Hexythiazox	0.000	< 0.250		1.068	1.000	106.8	70.7 - 131	
Imazalil	0.000	< 0.100		0.450	0.400	112.5	74.2 - 138	
Imidacloprid	0.000	< 0.200		0.889	0.800	111.2	72.2 - 134	
Kresoxim-Methyl	0.000	< 0.200		0.965	0.800	120.6	72.0 - 134	
Malathion	0.000	< 0.100		0.448	0.400	112.0	72.0 - 134	
Metalaxyl	0.000	< 0.100		0.463	0.400	115.8	72.7 - 135	
Methiocarb	0.000	< 0.100		0.473	0.400	118.3	72.0 - 134	
Methomyl	0.000	< 0.200		0.929	0.800	116.1	71.6 - 133	
MGK 264	0.000	< 0.100		0.497	0.400	124.2	71.9 - 133	
Myclobutanil	0.000	< 0.100		0.413	0.400	103.2	72.4 - 135	
Naled	0.000	< 0.250		1.119	1.000	111.9	72.6 - 135	
Oxamyl	0.000	< 0.500		2.260	2.000	113.0	72.8 - 135	
Paclobutrazol	0.000	< 0.200		1.067	0.800	133.3	72.5 - 135	
Parathion Methyl	0.033	< 0.200		0.939	0.800	117.4	74.6 - 138	
Permethrin	0.000	< 0.100		0.427	0.400	106.8	72.3 - 134	
Phosmet	0.000	< 0.100		0.440	0.400	109.9	72.0 - 134	
Piperonyl butoxide	0.000	< 0.500		2.862	2.000	*143.1*	74.7 - 139	Q1
Prallethrin	0.000	< 0.100		0.484	0.400	121.0	72.3 - 134	
Propiconazole	0.000	< 0.200		1.037	0.800	129.6	72.1 - 134	
Propoxur	0.005	< 0.100		0.485	0.400	121.2	71.5 - 133	
Pyrethrins	0.000	< 0.100		0.424	0.413	102.7	68.6 - 127	
Pyridaben	0.000	< 0.100		0.528	0.400	131.9	71.5 - 133	
Spinosad	0.000	< 0.100		0.431	0.388	111.0	74.4 - 138	
Spiromesifen	0.000	< 0.100		0.465	0.400	116.2	73.7 - 137	
Spirotetramat	0.000	< 0.100		0.503	0.400	125.8	72.6 - 135	
Spiroxamine	0.000	< 0.200		0.836	0.800	104.5	70.3 - 131	
Tebuconazol	0.000	< 0.200		1.047	0.800	130.9	72.1 - 134	
Thiacloprid	0.000	< 0.100		0.473	0.400	118.3	71.8 - 133	
Thiamethoxam	0.000	< 0.100		0.446	0.400	111.5	71.6 - 133	
Trifloxystrobin	0.000	< 0.100		0.439	0.400	109.7	72.0 - 134	

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Laboratory Quality Control Results

Residual Solvents **Batch ID:** 2 042

Method Blank					Laboratory Control Sample						
Analyte	**Result**		**LOQ**	**Notes**	**Result**	**Spike**	**Units**	**% Rec**	**Limits**		**Notes**
Propane	ND		200		8 9	9 8	µg/g	86	0	0	
Isobutane	ND		200		992	260	µg/g	8	0	0	
Butane	ND		200		98	260	µg/g	8 3	0	0	
2 2 Dimethylpropane	ND		200		530	600	µg/g	95 6	0	0	
Methanol	ND		200		630	6 0	µg/g	0 2	0	0	
Ethy ene Ox de	ND		30		86 2	95	µg/g	90	0	0	
2 Methylbutane	ND		200		520	6 0	µg/g	9	0	0	
Pentane	ND		200		5 0	6 0	µg/g	93 8	0	0	
Ethanol	ND		200		680	6 0	µg/g	0 3	0	0	
Ethyl Ether	ND		200		80	6 0	µg/g	9 9	0	0	
2 2 Dimethylbutane	ND		30		6	6	µg/g	89 0	0	0	
Acetone	ND		200		520	6 0	µg/g	9	0	0	
2 Propanol	ND		200		650	6 0	µg/g	02 5	0	0	
Ethyl Formate	ND		500		60	6 0	µg/g	90	0	0	
Acetonitri e	ND		00		6	8	µg/g	92	0	0	
Methyl Acetate	ND		500		660	6 0	µg/g	03	0	0	
2 3 Dimethylbutane	ND		30		6	6	µg/g	00 0	0	0	
Dichloromethane	ND		60		85	9	µg/g	98 8	0	0	
2 Methylpentane	ND		30		2	65	µg/g	86	0	0	
M BE	ND		500		690	600	µg/g	05 6	0	0	
3 Methylpentane	ND		30		2	2	µg/g	00 0	0	0	
Hexane	ND		30		63	6	µg/g	9 6	0	0	
Propanol	ND		500		30	6 0	µg/g	0 5	0	0	
Methy ethylketone	ND		500		6 0	620	µg/g	03	0	0	
Ethyl acetate	ND		200		5 0	6 0	µg/g	9 5	0	0	
2 Butanol	ND		200		620	6 0	µg/g	00 6	0	0	
etrahydrofuran	ND		00		92	83	µg/g	0 9	0	0	
Cyclohexane	ND		200		530	6 0	µg/g	95 0	0	0	
2 methyl propanol	ND		500		8 0	620	µg/g		0	0	
Benzene	ND				9	5 36	µg/g	9	0	0	
Isopropyl Acetate	ND		200		0	620	µg/g	09 3	0	0	
Heptane	ND		200		600	6 0	µg/g	99	0	0	
Butanol	ND		500		0	6 0	µg/g	08	0	0	
Propyl Acetate	ND		500		920	620	µg/g	8 5	0	0	
Dioxane	ND		00		0	89	µg/g	96	0	0	
2 Ethoxyethanol	ND		30		8	6	µg/g	06 6	0	0	
Methy isobutylketone	ND		500		820	6 0	µg/g	3 0	0	0	
3 Methyl butanol	ND		500		80	6 0	µg/g	0 6	0	0	
Ethy ene Glycol	ND		200		5 2	50	µg/g	0 5	0	0	
o uene	ND		200		69	8	µg/g	96 9	0	0	
Isobutyl Acetate	ND		500		90	6 0	µg/g	2	0	0	
Pentanol	ND		500		30	6 0	µg/g	0 5	0	0	
Butyl Acetate	ND		500		800	620	µg/g		0	0	
Ethy benzene	ND		200		95	68	µg/g	98 2	0	0	
m p Xylene	ND		200		020	9	µg/g	0	0	0	
o Xylene	ND		200		020	982	µg/g	03 9	0	0	
Cumene	ND		30		0	69	µg/g	00 6	0	0	
Anisole	ND		500		8 0	630	µg/g	2 9	0	0	
DMSO	ND		500		820	630	µg/g		0	0	
2 d methoxyethane	ND		50		5	62	µg/g	08 0	0	0	
riethylamine	ND		500		850	6 0	µg/g	0 8	0	0	
N N dimethylformamide	ND		50		5 5	502	µg/g	02 6	0	0	
N N dimethylacetam de	ND		50		5	85	µg/g	8	0	0	
Pyridine	ND		50			66	µg/g	03 0	0	0	
2 Dichloroethane	ND				23		µg/g	23 0	0	0	
Chloroform	ND				23		µg/g	23 0	0	0	
richloroethylene	ND				2		µg/g	20 0	0	0	
Ethy ene Ox de	ND				08		µg/g	08 0	0	0	
Dichloromethane	ND				6		µg/g	6 0	0	0	
Benzene	ND				2		µg/g	20 0	0	0	

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QC Sample Duplicate **Sample ID: 21 013511 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	
Ethy ene Ox de	ND	ND	30	µg/g	0 0	20	Acceptable	
2 Methylbutane	ND	ND	200	µg/g	0 0	20	Acceptable	
Pentane	ND	ND	200	µg/g	0 0	20	Acceptable	
Ethanol	ND	ND	200	µg/g	0 0	20	Acceptable	
Ethyl Ether	ND	ND	200	µg/g	0 0	20	Acceptable	
2 2 Dimethylbutane	ND	ND	30	µg/g	0 0	20	Acceptable	
Acetone	ND	ND	200	µg/g	0 0	20	Acceptable	
2 Propanol	ND	ND	200	µg/g	0 0	20	Acceptable	
Ethyl Formate	ND	ND	500	µg/g	0 0	20	Acceptable	
Acetonitri e	ND	ND	00	µg/g	0 0	20	Acceptable	
Methyl Acetate	ND	ND	500	µg/g	0 0	20	Acceptable	
2 3 Dimethylbutane	ND	ND	30	µg/g	0 0	20	Acceptable	
Dichloromethane	ND	ND	60	µg/g	0 0	20	Acceptable	
2 Methylpentane	ND	ND	30	µg/g	0 0	20	Acceptable	
M BE	ND	ND	500	µg/g	0 0	20	Acceptable	
3 Methylpentane	ND	ND	30	µg/g	0 0	20	Acceptable	
Hexane	ND	ND	30	µg/g	0 0	20	Acceptable	
Propanol	ND	ND	500	µg/g	0 0	20	Acceptable	
Methy ethylketone	ND	ND	500	µg/g	0 0	20	Acceptable	
Ethyl acetate	ND	ND	200	µg/g	0 0	20	Acceptable	
2 Butanol	ND	ND	200	µg/g	0 0	20	Acceptable	
etrahydrofuran	ND	ND	00	µg/g	0 0	20	Acceptable	
Cyclohexane	ND	ND	200	µg/g	0 0	20	Acceptable	
2 methyl propanol	ND	ND	500	µg/g	0 0	20	Acceptable	
Benzene	ND	ND		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	
Butanol	ND	ND	500	µg/g	0 0	20	Acceptable	
Propyl Acetate	ND	ND	500	µg/g	0 0	20	Acceptable	
Dioxane	ND	ND	00	µg/g	0 0	20	Acceptable	
2 Ethoxyethanol	ND	ND	30	µg/g	0 0	20	Acceptable	
Methy isobutylketone	ND	ND	500	µg/g	0 0	20	Acceptable	
3 Methyl butanol	ND	ND	500	µg/g	0 0	20	Acceptable	
Ethy ene Glycol	ND	ND	200	µg/g	0 0	20	Acceptable	
o uene	ND	ND	200	µg/g	0 0	20	Acceptable	
Isobutyl Acetate	ND	ND	500	µg/g	0 0	20	Acceptable	
Pentanol	ND	ND	500	µg/g	0 0	20	Acceptable	
Butyl Acetate	ND	ND	500	µg/g	0 0	20	Acceptable	
Ethy benzene	ND	ND	200	µg/g	0 0	20	Acceptable	
m p Xylene	ND	ND	200	µg/g	0 0	20	Acceptable	
o Xylene	ND	ND	200	µg/g	0 0	20	Acceptable	
Cumene	ND	ND	30	µg/g	0 0	20	Acceptable	
Anisole	ND	ND	500	µg/g	0 0	20	Acceptable	
DMSO	ND	ND	500	µg/g	0 0	20	Acceptable	
2 d methoxyethane	ND	ND	50	µg/g	0 0	20	Acceptable	
riethylamine	ND	ND	500	µg/g	0 0	20	Acceptable	
N N dimethylformamide	ND	ND	50	µg/g	0 0	20	Acceptable	
N N dimethylacetam de	ND	ND	50	µg/g	0 0	20	Acceptable	
Pyridine	ND	ND	50	µg/g	0 0	20	Acceptable	
2 Dichloroethane	ND	ND		µg/g	0 0	20	Acceptable	
Chloroform	ND	ND		µg/g	0 0	20	Acceptable	
richloroethylene	ND	ND		µg/g	0 0	20	Acceptable	
Ethy ene Ox de	ND	ND		µg/g	0 0	20	Acceptable	
Dichloromethane	ND	ND		µg/g	0 0	20	Acceptable	
Benzene	ND	ND		µg/g	0 0	2	Acceptable	

Abbreviations

ND None Detected at or above MRL
RPD Relative Percent D fference
LOQ Limit of Quantitation

Units of Measure:

µg/g M crogram per gram or ppm

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Terpenes Quality Control Results

Method Reference: EPA 5035 **Batch ID:** 2 0484

Method Blank				Laboratory Control Sample					
Analyte	**Result**	**LOQ**	**Notes**	**Result**	**LCS**	**Units**	**LCS % Rec**	**Limits**	**Notes**
a-pinene	< OQ	< 200		50	500	µg/g	***100%***	70 - 30	
Camphene	< OQ	< 200		487	500	µg/g	***97%***	70 - 30	
Sabinene	< OQ	< 200		472	500	µg/g	***94%***	70 - 30	
b-Pinene	< OQ	< 200		547	500	µg/g	***109%***	70 - 30	
b-Myrcene	< OQ	< 200		467	500	µg/g	***93%***	70 - 30	
a-phelllandrene	< OQ	< 200		445	500	µg/g	***89%***	70 - 30	
d-3-Carene	< OQ	< 200		499	500	µg/g	***100%***	70 - 30	
a-Terpinene	< OQ	< 200		484	500	µg/g	***97%***	70 - 30	
p-Cymene	< OQ	< 200		473	500	µg/g	***95%***	70 - 30	
D- imonene	< OQ	< 200		5 7	500	µg/g	***103%***	70 - 30	
ucalyp ol	< OQ	< 200		492	500	µg/g	***98%***	70 - 30	
b-cis-Ocimene	< OQ	< 67		58	67	µg/g	***95%***	70 - 30	
b- rans-Ocimene	< OQ	< 33		302	333	µg/g	***91%***	70 - 30	
g-Terpinene	< OQ	< 200		5 3	500	µg/g	***103%***	70 - 30	
Sabinene ydra e	< OQ	< 200		559	500	µg/g	***112%***	70 - 30	
Terpinolene	< OQ	< 200		5 2	500	µg/g	***102%***	70 - 30	
D- enchone	< OQ	< 200		5 7	500	µg/g	***103%***	70 - 30	
inalool	< OQ	< 200		49	500	µg/g	***98%***	70 - 30	
enchol	< OQ	< 200		528	500	µg/g	***106%***	70 - 30	
Camphor	< OQ	< 200		474	500	µg/g	***95%***	70 - 30	
sopulego	< OQ	< 200		434	500	µg/g	***87%***	70 - 30	
soborneol	< OQ	< 200		494	500	µg/g	***99%***	70 - 30	
Borneol	< OQ	< 200		559	500	µg/g	***112%***	70 - 30	
D -Men hol	< OQ	< 200		496	500	µg/g	***99%***	70 - 30	
Terpineol	< OQ	< 200		5 7	500	µg/g	***103%***	70 - 30	
Nerol	< OQ	< 200		462	500	µg/g	***92%***	70 - 30	
Pulegone	< OQ	< 200		550	500	µg/g	***110%***	70 - 30	
Gereniol	< OQ	< 200		558	500	µg/g	***112%***	70 - 30	
Geranyl Ace a e	< OQ	< 200		50	500	µg/g	***100%***	70 - 30	
a-Cedrene	< OQ	< 200		57	500	µg/g	***114%***	70 - 30	
b-Caryophyllene	< OQ	< 200		530	500	µg/g	***106%***	70 - 30	
a- umulene	< OQ	< 200		567	500	µg/g	***113%***	70 - 30	
Valenene	< OQ	< 200		444	500	µg/g	***89%***	70 - 30	
cis-Nerolidol	< OQ	< 200		497	500	µg/g	***99%***	70 - 30	
a- arnesene	< OQ	< 200		382	500	µg/g	***76%***	70 - 30	
rans-Nerolidol	< OQ	< 200		587	500	µg/g	***117%***	70 - 30	
Caryophyllene Oxide	< OQ	< 200		505	500	µg/g	***101%***	70 - 30	
Guaiol	< OQ	< 200		592	500	µg/g	***118%***	70 - 30	
Cedrol	< OQ	< 200		5 7	500	µg/g	***103%***	70 - 30	
a-Bisabolol	< OQ	< 200		523	500	µg/g	***105%***	70 - 30	

Definitions

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

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 21-013523/D004.R000
Report Date: 11/23/2021
ORELAP#: OR100028
Purchase Order:
Received: 11/16/21 15:19

Revision Document D
Legacy D Effective

Terpenes Quality Control Results

Method Reference: EPA 5035 **Batch ID:** 2 0484

Sample/Sample Duplicate **Sample ID: 21-013481-0001**

Analyte	Result	Org. Result	LOQ	Units	% RPD	LIMIT	Notes
a-pinene	< OQ	< OQ	96	µg/g	0%	< 20	
Camphene	< OQ	< OQ	96	µg/g	0%	< 20	
Sabinene	< OQ	< OQ	96	µg/g	0%	< 20	
b-Pinene	< OQ	< OQ	96	µg/g	0%	< 20	
b-Myrcene	< OQ	< OQ	96	µg/g	0%	< 20	
a-phelllandrene	< OQ	< OQ	96	µg/g	0%	< 20	
d-3-Carene	< OQ	< OQ	96	µg/g	0%	< 20	
a-Terpinene	< OQ	< OQ	96	µg/g	0%	< 20	
p-Cymene	< OQ	< OQ	96	µg/g	0%	< 20	
D- imonene	27600	27800	96	µg/g	1%	< 20	
ucalyp ol	237	225	96	µg/g	5%	< 20	
b-cis-Ocimene	< OQ	< OQ	65.3	µg/g	0%	< 20	
b- rans-Ocimene	< OQ	< OQ	3	µg/g	0%	< 20	
g-Terpinene	< OQ	< OQ	96	µg/g	0%	< 20	
Sabinene ydra e	< OQ	< OQ	96	µg/g	0%	< 20	
Terpinolene	< OQ	< OQ	96	µg/g	0%	< 20	
D- enchone	< OQ	< OQ	96	µg/g	0%	< 20	
inalool	< OQ	< OQ	96	µg/g	0%	< 20	
enchol	< OQ	< OQ	96	µg/g	0%	< 20	
Camphor	< OQ	< OQ	96	µg/g	0%	< 20	
sopulego	< OQ	< OQ	96	µg/g	0%	< 20	
soborneol	< OQ	< OQ	96	µg/g	0%	< 20	
Borneol	< OQ	< OQ	96	µg/g	0%	< 20	
D -Men hol	800	790	96	µg/g	1%	< 20	
Terpineol	< OQ	< OQ	96	µg/g	0%	< 20	
Nerol	< OQ	< OQ	96	µg/g	0%	< 20	
Pulegone	< OQ	< OQ	96	µg/g	0%	< 20	
Gereniol	< OQ	< OQ	96	µg/g	0%	< 20	
Geranyl Ace a e	< OQ	< OQ	96	µg/g	0%	< 20	
a-Cedrene	< OQ	< OQ	96	µg/g	0%	< 20	
b-Caryophyllene	< OQ	< OQ	96	µg/g	0%	< 20	
a- umulene	< OQ	< OQ	96	µg/g	0%	< 20	
Valenene	< OQ	< OQ	96	µg/g	0%	< 20	
cis-Nerolidol	< OQ	< OQ	96	µg/g	0%	< 20	
a- arnesene	< OQ	< OQ	96	µg/g	0%	< 20	
rans-Nerolidol	656	655	96	µg/g	0%	< 20	
Caryophyllene Oxide	600	580	96	µg/g	1%	< 20	
Guaiol	780	760	96	µg/g	1%	< 20	
Cedrol	< OQ	< OQ	96	µg/g	0%	< 20	
a-Bisabolol	8980	8890	96	µg/g	1%	< 20	

Definitions

RPD Relative Percent Difference

Columbia LABORATORIES
A Tentamus Company

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Portland, OR 97230
503-254-1794

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Explanation of QC Flag Comments:

Code	Explanation
Q	Matrix interferences affecting spike or surrogate recoveries.
Q1	Quality control result biased high. Only non-detect samples reported.
Q2	Quality control outside QC limits. Data considered estimate.
Q3	Sample concentration greater than four times the amount spiked.
Q4	Non-homogenous sample matrix, affecting RPD result and/or % recoveries.
Q5	Spike results above calibration curve.
Q6	Quality control outside QC limits. Data acceptable based on remaining QC.
R	Relative percent difference (RPD) outside control limit.
R1	RPD non-calculable, as sample or duplicate results are less than five times the LOQ.
R2	Sample replicates RPD non-calculable, as only one replicate is within the analytical range.
LOQ1	Quantitation level raised due to low sample volume and/or dilution.
LOQ2	Quantitaion level raised due to matrix interference.
B	Analyte detected in method blank, but not in associated samples.
B1	The sample concentration is greater than 5 times the blank concentration.
B2	The sample concentration is less than 5 times the blank concentration.

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 21-013523/D003.R000
Report Date: 11/23/2021
ORELAP#: OR100028
Purchase Order:
Received: 11/16/21 15:19

Customer: Etz Hayim Holdings
Product identity: FORM-DK39-CAP.SLPMTN50
Client/Metrc ID: .
Laboratory ID: 21-013523-0002

Summary

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

All analytes passing and less than LOQ.

Terpenes:

Analyte	Percent by weight	Percent of Total	Analyte	Percent by weight	Percent of Total
a-Bisabolol†	0.0573	24.38%	farnesene†	0.0513	21.83%
ß-Caryophyllene†	0.0499	21.23%	(-)-Guaiol†	0.0292	12.43%
Humulene†	0.0280	11.91%	(-)-caryophyllene oxide†	0.0196	8.34%
Total Terpenes†	**0.235**	**100.00%**			

Metals:

Analyte	Result	Units	Limit	Status
Lead	0.0711	mg/kg	0.500	pass

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 21-013523/D003.R000
Report Date: 11/23/2021
ORELAP#: OR100028
Purchase Order:
Received: 11/16/21 15:19

Customer: Etz Hayim Holdings
16427 NE Airport Way
PORTLAND 97230
United States of America (USA)

Product identity: FORM-DK39-CAP.SLPMTN50
Client/Metrc ID: .
Sample Date:
Laboratory ID: 21-013523-0002
Evidence of Cooling: No
Temp: 25 °C
Relinquished by: Client

Sample Results

Solvents **Method** Residual Solvents by GC/MS **Units** µg/g **Batch** 2110421 **Analyze** 11/18/21 11:37 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 (Isopentane)	< LOQ		200		
2-Methylpentane	< LOQ		30.0			2-Propanol (IPA)	< LOQ	5000	200	pass	
2,2-Dimethylbutane	< LOQ		30.0			2,2-Dimethylpropane (neo-pentane)	< 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		Ethanol†	< LOQ		200		
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 (Cumene)	< LOQ	70.0	30.0	pass	
m,p-Xylene	< LOQ		200			Methanol	< LOQ	3000	200	pass	
Methylene chloride	< LOQ	600	60.0	pass		Methylpropane (Isobutane)	< LOQ		200		
n-Butane	< LOQ		200			n-Heptane	< LOQ	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 benzene	< LOQ	2170	600	pass							

Columbia LABORATORIES
A Tentamus Company

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Pesticides **Method** AOAC 2007.01 & EN 15662 (mod) **Units** mg/kg **Batch** 2110393 **Analyze** 11/17/21 04:26 PM

Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin	< LOQ	0.50	0.250	pass		Acephate	< LOQ	0.40	0.250	pass	
Acequinocyl	< LOQ	2.0	1.00	pass		Acetamiprid	< LOQ	0.20	0.100	pass	
Aldicarb	< LOQ	0.40	0.200	pass		Azoxystrobin	< LOQ	0.20	0.100	pass	
Bifenazate	< LOQ	0.20	0.100	pass		Bifenthrin	< LOQ	0.20	0.100	pass	
Boscalid	< LOQ	0.40	0.200	pass		Carbaryl	< LOQ	0.20	0.100	pass	
Carbofuran	< LOQ	0.20	0.100	pass		Chlorantraniliprole	< LOQ	0.20	0.100	pass	
Chlorfenapyr	< LOQ	1.0	0.500	pass		Chlorpyrifos	< LOQ	0.20	0.100	pass	
Clofentezine	< LOQ	0.20	0.100	pass		Cyfluthrin	< LOQ	1.0	0.500	pass	
Cypermethrin	< LOQ	1.0	0.500	pass		Daminozide	< LOQ	1.0	0.500	pass	
Diazinon	< LOQ	0.20	0.100	pass		Dichlorvos	< LOQ	1.0	0.500	pass	
Dimethoate	< LOQ	0.20	0.100	pass		Ethoprophos	< LOQ	0.20	0.100	pass	
Etofenprox	< LOQ	0.40	0.200	pass		Etoxazole	< LOQ	0.20	0.100	pass	
Fenoxycarb	< LOQ	0.20	0.100	pass		Fenpyroximate	< LOQ	0.40	0.200	pass	
Fipronil	< LOQ	0.40	0.200	pass		Flonicamid	< LOQ	1.0	0.400	pass	
Fludioxonil	< LOQ	0.40	0.200	pass		Hexythiazox	< LOQ	1.0	0.400	pass	
Imazalil	< LOQ	0.20	0.100	pass		Imidacloprid	< LOQ	0.40	0.200	pass	
Kresoxim-methyl	< LOQ	0.40	0.200	pass		Malathion	< LOQ	0.20	0.100	pass	
Metalaxyl	< LOQ	0.20	0.100	pass		Methiocarb	< LOQ	0.20	0.100	pass	
Methomyl	< LOQ	0.40	0.200	pass		MGK-264	< LOQ	0.20	0.100	pass	
Myclobutanil	< LOQ	0.20	0.100	pass		Naled	< LOQ	0.50	0.250	pass	
Oxamyl	< LOQ	1.0	0.500	pass		Paclobutrazole	< LOQ	0.40	0.200	pass	
Parathion-Methyl	< LOQ	0.20	0.200	pass		Permethrin	< LOQ	0.20	0.100	pass	
Phosmet	< LOQ	0.20	0.100	pass		Piperonyl butoxide	< LOQ	2.0	1.00	pass	
Prallethrin	< LOQ	0.20	0.200	pass		Propiconazole	< LOQ	0.40	0.200	pass	
Propoxur	< LOQ	0.20	0.100	pass		Pyrethrin I (total)	< LOQ	1.0	0.500	pass	
Pyridaben	< LOQ	0.20	0.100	pass		Spinosad	< LOQ	0.20	0.100	pass	
Spiromesifen	< LOQ	0.20	0.100	pass		Spirotetramat	< LOQ	0.20	0.100	pass	
Spiroxamine	< LOQ	0.40	0.200	pass		Tebuconazole	< LOQ	0.40	0.200	pass	
Thiacloprid	< LOQ	0.20	0.100	pass		Thiamethoxam	< LOQ	0.20	0.100	pass	
Trifloxystrobin	< LOQ	0.20	0.100	pass							

Columbia LABORATORIES
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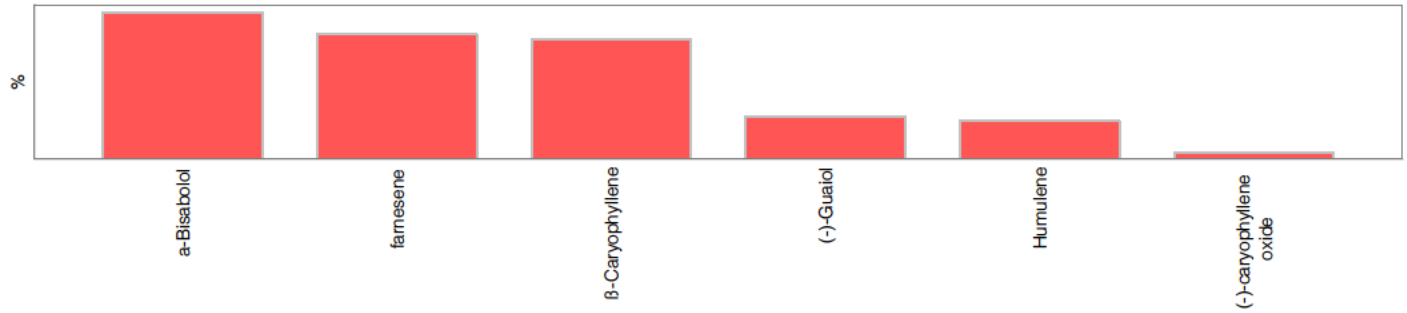
Purchase Order:
Received: 11/16/21 15:19

Terpenes

Method J AOAC 2015 V98-6 **Units** % **Batch** 2110484 **Analyze** 11/19/21 02:28 AM

Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
a-Bisabolol†	0.0573	0.018	24.3830%		farnesene†	0.0513	0.018	21.8298%	
ß-Caryophyllene†	0.0499	0.018	21.2340%		(-)-Guaiol†	0.0292	0.018	12.4255%	
Humulene†	0.0280	0.018	11.9149%		(-)-caryophyllene oxide†	0.0196	0.018	8.3404%	
Eucalyptol†	< LOQ	0.018	0.00%		(±)-trans-Nerolidol†	< LOQ	0.018	0.00%	
Geraniol†	< LOQ	0.018	0.00%		ß-Myrcene†	< LOQ	0.018	0.00%	
trans-ß-Ocimene†	< LOQ	0.012	0.00%		gamma-Terpinene†	< LOQ	0.018	0.00%	
a-Terpinene†	< LOQ	0.018	0.00%		(+)-Pulegone†	< LOQ	0.018	0.00%	
Linalool†	< LOQ	0.018	0.00%		Terpinolene†	< LOQ	0.018	0.00%	
(-)-a-Terpineol†	< LOQ	0.018	0.00%		nerol†	< LOQ	0.018	0.00%	
Sabinene†	< LOQ	0.018	0.00%		Sabinene hydrate†	< LOQ	0.018	0.00%	
(+)-fenchol†	< LOQ	0.018	0.00%		p-Cymene†	< LOQ	0.018	0.00%	
Geranyl acetate†	< LOQ	0.018	0.00%		a-pinene†	< LOQ	0.018	0.00%	
(+)-Cedrol†	< LOQ	0.018	0.00%		(+)-Borneol†	< LOQ	0.018	0.00%	
valencene†	< LOQ	0.018	0.00%		(±)-Camphor†	< LOQ	0.018	0.00%	
(-)-Isopulegol†	< LOQ	0.018	0.00%		(-)-ß-Pinene†	< LOQ	0.018	0.00%	
(±)-cis-Nerolidol†	< LOQ	0.018	0.00%		(±)-fenchone†	< LOQ	0.018	0.00%	
(R)-(+)-Limonene†	< LOQ	0.018	0.00%		a-cedrene†	< LOQ	0.018	0.00%	
a-phellandrene†	< LOQ	0.018	0.00%		Camphene†	< LOQ	0.018	0.00%	
cis-ß-Ocimene†	< LOQ	0.006	0.00%		d-3-Carene†	< LOQ	0.018	0.00%	
Isoborneol†	< LOQ	0.018	0.00%		Menthol†	< LOQ	0.018	0.00%	
Total Terpenes	**0.235**								



Metals

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
Arsenic	< LOQ	0.200	mg/kg	0.0492	2110488	11/19/21	AOAC 2013.06 (mod.)	pass	X
Cadmium	< LOQ	0.200	mg/kg	0.0492	2110488	11/19/21	AOAC 2013.06 (mod.)	pass	X
Lead	0.0711	0.500	mg/kg	0.0492	2110488	11/19/21	AOAC 2013.06 (mod.)	pass	X
Mercury	< LOQ	0.100	mg/kg	0.0246	2110488	11/19/21	AOAC 2013.06 (mod.)	pass	X

Columbia LABORATORIES
A Tentamus Company

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Received:	11/16/21 15:19

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

µg/g = Microgram per gram

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

% = Percentage of sample

% wt = µg/g divided by 10,000

Glossary of Qualifiers

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner
General Manager

Columbia LABORATORIES
A Tentamus Company

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Portland, OR 97230
503-254-1794

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PIXIS Labs
A Tentamus Company

12423 NE Whitaker Way Portland OR 97230 p.503-254-1794

Cannabis Chain of Custody Record

ORELAP ID: OR100028

[redacted]

Processor's License:

Analysis Requested

Purchase Order Number:
Project Number:
Project Name:

☐ Report Instructions:
☐ Send to State - METRC
☑ Email Final Results:
☐ Fax Final Results
☐ Cash/Check/CC/Net 30
Other:

Field ID	Date/Time Collected		Pesticides – OR 59 compounds	Pesticide Multi-Residue – 379 compounds	Potency	Residual Solvents	Water Activity	Moisture	Terpenes	Micro: Yeast and Mold	Micro: *E.Coli* and Total Coliform	Heavy Metals	Mycotoxins	Other	Matrix	Weight	Serving size for edibles	Comments/Metrc ID
FORM-DK39-CAP.SLPMTN50	11/9	1545			X										Powder			Log Not Discount
FORM-DK39-CAP.SLPMTN50	11/9	1545								X	X				Powder			
FORM-DK39-CAP.SLPMTN50	11/9	1545	X			X			X			X			Powder			

Collected By:	Relinquished By:	Date	Time	Received by:	Date	Time
☑Standard (5 day)	[redacted]					
☐Rush (3-4 day) (1.5x Standard)						
☐Priority Rush (2 day) (2x Standard)						

Lab Use Only:
Client Alias:
Order Number:
Proper Container
Sample Condition
Temperature: 24.5°C
Shipped Via: Client
Evidence of cooling: ☐Yes ☑No

SUBMISSION OF SAMPLES WITH TESTING REQUIREMENTS TO PIXIS WILL BE UNDERSTOOD TO BE AN AGREEMENT FOR SERVICES IN ACCORDANCE WITH THE CONDITIONS LISTED ON THE BACK OF THIS FORM

Revision: 1.02 Control#: CF023
Effective 01/31/2019 Revised 01/31/2019

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Columbia LABORATORIES
A Tentamus Company

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

Report Number: 21-013523/D003.R000
Report Date: 11/23/2021
ORELAP#: OR100028
Purchase Order:
Received: 11/16/21 15:19

Revision: 2 Document ID: 3120
Legacy ID: CFL-C21Effective:

Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662 | Units: mg/Kg | Batch ID: 2110393

Matrix Spike/Matrix Spike Duplicate Recoveries | Sample ID: 21-012819-0002

Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Acephate	0.000	1.192	1.319	1.000	10.1%	< 30	119.2%	131.9%	50 - 150	
Acequinocyl	0.000	2.419	2.335	4.000	3.5%	< 30	60.5%	58.4%	50 - 150	
Acetamiprid	0.000	0.459	0.471	0.400	2.5%	< 30	114.8%	117.8%	50 - 150	
Aldicarb	0.000	0.771	0.502	0.800	42.2%	< 30	96.3%	62.8%	50 - 150	R
Abamectin	0.000	1.296	1.434	1.000	10.1%	< 30	129.6%	143.4%	50 - 150	
Azoxystrobin	0.000	0.404	0.411	0.400	1.7%	< 30	100.9%	102.7%	50 - 150	
Bifenazate	0.000	0.520	0.610	0.400	16.0%	< 30	129.9%	152.5%	50 - 150	Q1
Bifenthrin	0.000	0.373	0.356	0.400	4.7%	< 30	93.3%	89.0%	50 - 150	
Boscalid	0.000	0.881	0.911	0.800	3.3%	< 30	110.1%	113.8%	50 - 150	
Carbaryl	0.000	0.448	0.459	0.400	2.5%	< 30	112.0%	114.8%	50 - 150	
Carbofuran	0.000	0.386	0.346	0.400	11.1%	< 30	96.5%	86.4%	50 - 150	
Chlorantraniliprol	0.000	0.418	0.410	0.400	2.0%	< 30	104.5%	102.5%	50 - 150	
Chlorfenapyr	0.000	2.171	1.772	2.000	20.2%	< 30	108.5%	88.6%	50 - 150	
Chlorpyrifos	0.000	0.442	0.437	0.400	1.2%	< 30	110.4%	109.1%	50 - 150	
Clofentezine	0.000	0.441	0.461	0.400	4.3%	< 30	110.2%	115.1%	50 - 150	
Cyfluthrin	0.000	1.152	1.294	2.000	11.7%	< 30	57.6%	64.7%	30 - 150	
Cypermethrin	0.000	0.988	1.067	2.000	7.7%	< 30	49.4%	53.3%	50 - 150	Q
Daminozide	0.000	1.469	1.799	2.000	20.2%	< 30	73.5%	90.0%	30 - 150	
Diazinon	0.000	0.426	0.464	0.400	8.6%	< 30	106.5%	116.0%	50 - 150	
Dichlorvos	0.000	2.361	2.357	2.000	0.2%	< 30	118.1%	117.8%	50 - 150	
Dimethoat	0.000	0.453	0.481	0.400	6.1%	< 30	113.2%	120.3%	50 - 150	
Ethoprophos	0.000	0.401	0.458	0.400	13.3%	< 30	100.2%	114.4%	50 - 150	
Etofenprox	0.000	0.584	0.466	0.800	22.6%	< 30	73.0%	58.2%	50 - 150	
Etoxazol	0.000	0.403	0.490	0.400	19.5%	< 30	100.8%	122.6%	50 - 150	
Fenoxycarb	0.000	0.454	0.456	0.400	0.4%	< 30	113.5%	113.9%	50 - 150	
Fenpyroximat	0.000	0.489	0.497	0.800	1.6%	< 30	61.2%	62.2%	50 - 150	
Fipronil	0.000	0.902	0.834	0.800	7.9%	< 30	112.8%	104.2%	50 - 150	
Flonicamid	0.000	1.396	1.225	1.000	13.0%	< 30	139.6%	122.5%	50 - 150	
Fludioxonil	0.000	0.811	1.074	0.800	27.9%	< 30	101.4%	134.2%	50 - 150	
Hexythiazox	0.000	1.079	1.334	1.000	21.2%	< 30	107.9%	133.4%	50 - 150	
Imazalil	0.000	0.460	0.464	0.400	0.9%	< 30	114.9%	116.0%	50 - 150	
Imidacloprid	0.000	0.895	0.963	0.800	7.2%	< 30	111.9%	120.3%	50 - 150	
Kresoxim-Methyl	0.000	0.888	0.913	0.800	2.7%	< 30	111.0%	114.1%	50 - 150	
Malathion	0.000	0.353	0.398	0.400	12.0%	< 30	88.3%	99.5%	50 - 150	
Metalaxyl	0.000	0.449	0.467	0.400	3.9%	< 30	112.3%	116.8%	50 - 150	
Methiocarb	0.000	0.444	0.436	0.400	1.8%	< 30	111.1%	109.1%	50 - 150	
Methomyl	0.000	1.008	0.790	0.800	24.2%	< 30	126.0%	98.8%	50 - 150	
MGK 264	0.000	0.419	0.470	0.400	11.5%	< 30	104.7%	117.4%	50 - 150	
Myclobutanil	0.000	0.418	0.410	0.400	2.0%	< 30	104.5%	102.4%	50 - 150	
Naled	0.000	0.947	0.981	1.000	3.5%	< 30	94.7%	98.1%	50 - 150	
Oxamyl	0.000	2.385	2.222	2.000	7.1%	< 30	119.2%	111.1%	50 - 150	
Paclobutrazol	0.000	0.948	0.987	0.800	4.1%	< 30	118.5%	123.4%	50 - 150	
Parathion Methyl	0.000	0.856	0.754	0.800	12.7%	< 30	107.0%	94.2%	30 - 150	
Permethrin	0.000	0.334	0.405	0.400	19.2%	< 30	83.4%	101.1%	50 - 150	
Phosmet	0.000	0.451	0.473	0.400	4.6%	< 30	112.8%	118.2%	50 - 150	
Piperonyl butoxide	0.000	2.700	2.613	2.000	3.3%	< 30	135.0%	130.6%	50 - 150	
Prallethrin	0.000	0.639	0.680	0.400	6.2%	< 30	159.8%	170.0%	50 - 150	Q1
Propiconazole	0.000	0.935	0.964	0.800	3.1%	< 30	116.9%	120.5%	50 - 150	
Propoxur	0.000	0.437	0.418	0.400	4.3%	< 30	109.1%	104.6%	50 - 150	
Pyrethrins	0.002	0.354	0.386	0.413	8.8%	< 30	85.2%	93.0%	50 - 150	
Pyridaben	0.000	0.446	0.428	0.400	4.3%	< 30	111.6%	106.9%	50 - 150	
Spinosad	0.000	0.459	0.492	0.388	7.0%	< 30	118.3%	126.8%	50 - 150	
Spiromesifen	0.000	0.463	0.474	0.400	2.3%	< 30	115.8%	118.5%	50 - 150	
Spirotetramat	0.000	0.517	0.507	0.400	2.0%	< 30	129.2%	126.7%	50 - 150	
Spiroxamine	0.000	0.849	0.900	0.800	5.8%	< 30	106.1%	112.5%	50 - 150	
Tebuconazol	0.000	0.914	0.913	0.800	0.1%	< 30	114.3%	114.2%	50 - 150	
Thiacloprid	0.000	0.464	0.459	0.400	1.2%	< 30	116.0%	114.6%	50 - 150	
Thiamethoxam	0.000	0.502	0.452	0.400	10.4%	< 30	125.6%	113.1%	50 - 150	
Trifloxystrobin	0.000	0.451	0.449	0.400	0.3%	< 30	112.7%	112.3%	50 - 150	

Columbia LABORATORIES
A Tentamus Company

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

Report Number: 21-013523/D003.R000
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ORELAP#: OR100028
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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662 | Units: mg/Kg | Batch ID: 2110393

	Method Blank			Laboratory Control Sample				
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Acephate	0.009	< 0.250		1.243	1.000	124.3	72.3 - 134	
Acequinocyl	0.000	< 1.000		5.172	4.000	129.3	71.4 - 133	
Acetamiprid	0.000	< 0.100		0.458	0.400	114.6	72.5 - 135	
Aldicarb	0.000	< 0.200		0.936	0.800	117.0	74.5 - 138	
Abamectin	0.000	< 0.250		1.156	1.000	115.6	75.7 - 141	
Azoxystrobin	0.000	< 0.100		0.388	0.400	97.1	72.1 - 134	
Bifenazate	0.000	< 0.100		0.512	0.400	128.0	78.9 - 147	
Bifenthrin	0.000	< 0.100		0.410	0.400	102.6	71.9 - 134	
Boscalid	0.000	< 0.200		1.011	0.800	126.4	72.6 - 135	
Carbaryl	0.000	< 0.100		0.486	0.400	121.5	72.7 - 135	
Carbofuran	0.009	< 0.100		0.488	0.400	121.9	73.4 - 136	
Chlorantraniliprol	0.000	< 0.100		0.397	0.400	99.1	68.0 - 126	
Chlorfenapyr	0.000	< 0.500		2.513	2.000	125.6	72.3 - 134	
Chlorpyrifos	0.000	< 0.100		0.508	0.400	126.9	70.3 - 131	
Clofentezine	0.000	< 0.100		0.459	0.400	114.7	70.9 - 132	
Cyfluthrin	0.000	< 0.500		2.346	2.000	117.3	74.1 - 138	
Cypermethrin	0.000	< 0.500		2.302	2.000	115.1	73.0 - 136	
Daminozide	0.000	< 0.500		2.152	2.000	107.6	72.0 - 134	
Diazinon	0.000	< 0.100		0.463	0.400	115.8	72.4 - 134	
Dichlorvos	0.000	< 0.500		2.408	2.000	120.4	70.6 - 131	
Dimethoat	0.000	< 0.100		0.441	0.400	110.2	72.2 - 134	
Ethoprophos	0.000	< 0.100		0.415	0.400	103.8	71.1 - 132	
Etofenprox	0.000	< 0.200		0.721	0.800	90.1	73.6 - 137	
Etoxazol	0.000	< 0.100		0.471	0.400	117.7	72.5 - 135	
Fenoxycarb	0.000	< 0.100		0.453	0.400	113.2	71.7 - 133	
Fenpyroximat	0.000	< 0.200		0.934	0.800	116.8	72.8 - 135	
Fipronil	0.000	< 0.200		1.068	0.800	133.6	73.8 - 137	
Flonicamid	0.000	< 0.250		1.270	1.000	127.0	72.7 - 135	
Fludioxonil	0.000	< 0.200		0.796	0.800	99.5	75.5 - 140	
Hexythiazox	0.000	< 0.250		1.068	1.000	106.8	70.7 - 131	
Imazalil	0.000	< 0.100		0.450	0.400	112.5	74.2 - 138	
Imidacloprid	0.000	< 0.200		0.889	0.800	111.2	72.2 - 134	
Kresoxim-Methyl	0.000	< 0.200		0.965	0.800	120.6	72.0 - 134	
Malathion	0.000	< 0.100		0.448	0.400	112.0	72.0 - 134	
Metalaxyl	0.000	< 0.100		0.463	0.400	115.8	72.7 - 135	
Methiocarb	0.000	< 0.100		0.473	0.400	118.3	72.0 - 134	
Methomyl	0.000	< 0.200		0.929	0.800	116.1	71.6 - 133	
MGK 264	0.000	< 0.100		0.497	0.400	124.2	71.9 - 133	
Myclobutanil	0.000	< 0.100		0.413	0.400	103.2	72.4 - 135	
Naled	0.000	< 0.250		1.119	1.000	111.9	72.6 - 135	
Oxamyl	0.000	< 0.500		2.260	2.000	113.0	72.8 - 135	
Paclobutrazol	0.000	< 0.200		1.067	0.800	133.3	72.5 - 135	
Parathion Methyl	0.033	< 0.200		0.939	0.800	117.4	74.6 - 138	
Permethrin	0.000	< 0.100		0.427	0.400	106.8	72.3 - 134	
Phosmet	0.000	< 0.100		0.440	0.400	109.9	72.0 - 134	
Piperonyl butoxide	0.000	< 0.500		2.862	2.000	*143.1*	74.7 - 139	Q1
Prallethrin	0.000	< 0.100		0.484	0.400	121.0	72.3 - 134	
Propiconazole	0.000	< 0.200		1.037	0.800	129.6	72.1 - 134	
Propoxur	0.005	< 0.100		0.485	0.400	121.2	71.5 - 133	
Pyrethrins	0.000	< 0.100		0.424	0.413	102.7	68.6 - 127	
Pyridaben	0.000	< 0.100		0.528	0.400	131.9	71.5 - 133	
Spinosad	0.000	< 0.100		0.431	0.388	111.0	74.4 - 138	
Spiromesifen	0.000	< 0.100		0.465	0.400	116.2	73.7 - 137	
Spirotetramat	0.000	< 0.100		0.503	0.400	125.8	72.6 - 135	
Spiroxamine	0.000	< 0.200		0.836	0.800	104.5	70.3 - 131	
Tebuconazol	0.000	< 0.200		1.047	0.800	130.9	72.1 - 134	
Thiacloprid	0.000	< 0.100		0.473	0.400	118.3	71.8 - 133	
Thiamethoxam	0.000	< 0.100		0.446	0.400	111.5	71.6 - 133	
Trifloxystrobin	0.000	< 0.100		0.439	0.400	109.7	72.0 - 134	

Columbia LABORATORIES
A Tentamus Company

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Laboratory Quality Control Results

Residual Solvents **Batch ID:** 2 042

Method Blank					Laboratory Control Sample						
Analyte	**Result**		**LOQ**	**Notes**	**Result**	**Spike**	**Units**	**% Rec**	**Limits**		**Notes**
Propane	ND		200		8 9	9 8	µg/g	86	0	0	
Isobutane	ND		200		992	260	µg/g	8	0	0	
Butane	ND		200		98	260	µg/g	8 3	0	0	
2 2 Dimethylpropane	ND		200		530	600	µg/g	95 6	0	0	
Methanol	ND		200		630	6 0	µg/g	0 2	0	0	
Ethy ene Ox de	ND		30		86 2	95	µg/g	90	0	0	
2 Methylbutane	ND		200		520	6 0	µg/g	9	0	0	
Pentane	ND		200		5 0	6 0	µg/g	93 8	0	0	
Ethanol	ND		200		680	6 0	µg/g	0 3	0	0	
Ethyl Ether	ND		200		80	6 0	µg/g	9 9	0	0	
2 2 Dimethylbutane	ND		30		6	6	µg/g	89 0	0	0	
Acetone	ND		200		520	6 0	µg/g	9	0	0	
2 Propanol	ND		200		650	6 0	µg/g	02 5	0	0	
Ethyl Formate	ND		500		60	6 0	µg/g	90	0	0	
Acetonitri e	ND		00		6	8	µg/g	92	0	0	
Methyl Acetate	ND		500		660	6 0	µg/g	03	0	0	
2 3 Dimethylbutane	ND		30		6	6	µg/g	00 0	0	0	
Dichloromethane	ND		60		85	9	µg/g	98 8	0	0	
2 Methylpentane	ND		30		2	65	µg/g	86	0	0	
M BE	ND		500		690	600	µg/g	05 6	0	0	
3 Methylpentane	ND		30		2	2	µg/g	00 0	0	0	
Hexane	ND		30		63	6	µg/g	9 6	0	0	
Propanol	ND		500		30	6 0	µg/g	0 5	0	0	
Methy ethylketone	ND		500		6 0	620	µg/g	03	0	0	
Ethyl acetate	ND		200		5 0	6 0	µg/g	9 5	0	0	
2 Butanol	ND		200		620	6 0	µg/g	00 6	0	0	
etrahydrofuran	ND		00		92	83	µg/g	0 9	0	0	
Cyclohexane	ND		200		530	6 0	µg/g	95 0	0	0	
2 methyl propanol	ND		500		8 0	620	µg/g		0	0	
Benzene	ND				9	5 36	µg/g	9	0	0	
Isopropyl Acetate	ND		200		0	620	µg/g	09 3	0	0	
Heptane	ND		200		600	6 0	µg/g	99	0	0	
Butanol	ND		500		0	6 0	µg/g	08	0	0	
Propyl Acetate	ND		500		920	620	µg/g	8 5	0	0	
Dioxane	ND		00		0	89	µg/g	96	0	0	
2 Ethoxyethanol	ND		30		8	6	µg/g	06 6	0	0	
Methy isobutylketone	ND		500		820	6 0	µg/g	3 0	0	0	
3 Methyl butanol	ND		500		80	6 0	µg/g	0 6	0	0	
Ethy ene Glycol	ND		200		5 2	50	µg/g	0 5	0	0	
o uene	ND		200		69	8	µg/g	96 9	0	0	
Isobutyl Acetate	ND		500		90	6 0	µg/g	2	0	0	
Pentanol	ND		500		30	6 0	µg/g	0 5	0	0	
Butyl Acetate	ND		500		800	620	µg/g		0	0	
Ethy benzene	ND		200		95	68	µg/g	98 2	0	0	
m p Xylene	ND		200		020	9	µg/g	0	0	0	
o Xylene	ND		200		020	982	µg/g	03 9	0	0	
Cumene	ND		30		0	69	µg/g	00 6	0	0	
Anisole	ND		500		8 0	630	µg/g	2 9	0	0	
DMSO	ND		500		820	630	µg/g		0	0	
2 d methoxyethane	ND		50		5	62	µg/g	08 0	0	0	
riethylamine	ND		500		850	6 0	µg/g	0 8	0	0	
N N dimethylformamide	ND		50		5 5	502	µg/g	02 6	0	0	
N N dimethylacetam de	ND		50		5	85	µg/g	8	0	0	
Pyridine	ND		50			66	µg/g	03 0	0	0	
2 Dichloroethane	ND				23		µg/g	23 0	0	0	
Chloroform	ND				23		µg/g	23 0	0	0	
richloroethylene	ND				2		µg/g	20 0	0	0	
Ethy ene Ox de	ND				08		µg/g	08 0	0	0	
Dichloromethane	ND				6		µg/g	6 0	0	0	
Benzene	ND				2		µg/g	20 0	0	0	

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QC Sample Duplicate **Sample ID: 21 013511 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	
Ethy ene Ox de	ND	ND	30	µg/g	0 0	20	Acceptable	
2 Methylbutane	ND	ND	200	µg/g	0 0	20	Acceptable	
Pentane	ND	ND	200	µg/g	0 0	20	Acceptable	
Ethanol	ND	ND	200	µg/g	0 0	20	Acceptable	
Ethyl Ether	ND	ND	200	µg/g	0 0	20	Acceptable	
2 2 Dimethylbutane	ND	ND	30	µg/g	0 0	20	Acceptable	
Acetone	ND	ND	200	µg/g	0 0	20	Acceptable	
2 Propanol	ND	ND	200	µg/g	0 0	20	Acceptable	
Ethyl Formate	ND	ND	500	µg/g	0 0	20	Acceptable	
Acetonitri e	ND	ND	00	µg/g	0 0	20	Acceptable	
Methyl Acetate	ND	ND	500	µg/g	0 0	20	Acceptable	
2 3 Dimethylbutane	ND	ND	30	µg/g	0 0	20	Acceptable	
Dichloromethane	ND	ND	60	µg/g	0 0	20	Acceptable	
2 Methylpentane	ND	ND	30	µg/g	0 0	20	Acceptable	
M BE	ND	ND	500	µg/g	0 0	20	Acceptable	
3 Methylpentane	ND	ND	30	µg/g	0 0	20	Acceptable	
Hexane	ND	ND	30	µg/g	0 0	20	Acceptable	
Propanol	ND	ND	500	µg/g	0 0	20	Acceptable	
Methy ethylketone	ND	ND	500	µg/g	0 0	20	Acceptable	
Ethyl acetate	ND	ND	200	µg/g	0 0	20	Acceptable	
2 Butanol	ND	ND	200	µg/g	0 0	20	Acceptable	
etrahydrofuran	ND	ND	00	µg/g	0 0	20	Acceptable	
Cyclohexane	ND	ND	200	µg/g	0 0	20	Acceptable	
2 methyl propanol	ND	ND	500	µg/g	0 0	20	Acceptable	
Benzene	ND	ND		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	
Butanol	ND	ND	500	µg/g	0 0	20	Acceptable	
Propyl Acetate	ND	ND	500	µg/g	0 0	20	Acceptable	
Dioxane	ND	ND	00	µg/g	0 0	20	Acceptable	
2 Ethoxyethanol	ND	ND	30	µg/g	0 0	20	Acceptable	
Methy isobutylketone	ND	ND	500	µg/g	0 0	20	Acceptable	
3 Methyl butanol	ND	ND	500	µg/g	0 0	20	Acceptable	
Ethy ene Glycol	ND	ND	200	µg/g	0 0	20	Acceptable	
o uene	ND	ND	200	µg/g	0 0	20	Acceptable	
Isobutyl Acetate	ND	ND	500	µg/g	0 0	20	Acceptable	
Pentanol	ND	ND	500	µg/g	0 0	20	Acceptable	
Butyl Acetate	ND	ND	500	µg/g	0 0	20	Acceptable	
Ethy benzene	ND	ND	200	µg/g	0 0	20	Acceptable	
m p Xylene	ND	ND	200	µg/g	0 0	20	Acceptable	
o Xylene	ND	ND	200	µg/g	0 0	20	Acceptable	
Cumene	ND	ND	30	µg/g	0 0	20	Acceptable	
Anisole	ND	ND	500	µg/g	0 0	20	Acceptable	
DMSO	ND	ND	500	µg/g	0 0	20	Acceptable	
2 d methoxyethane	ND	ND	50	µg/g	0 0	20	Acceptable	
riethylamine	ND	ND	500	µg/g	0 0	20	Acceptable	
N N dimethylformamide	ND	ND	50	µg/g	0 0	20	Acceptable	
N N dimethylacetam de	ND	ND	50	µg/g	0 0	20	Acceptable	
Pyridine	ND	ND	50	µg/g	0 0	20	Acceptable	
2 Dichloroethane	ND	ND		µg/g	0 0	20	Acceptable	
Chloroform	ND	ND		µg/g	0 0	20	Acceptable	
richloroethylene	ND	ND		µg/g	0 0	20	Acceptable	
Ethy ene Ox de	ND	ND		µg/g	0 0	20	Acceptable	
Dichloromethane	ND	ND		µg/g	0 0	20	Acceptable	
Benzene	ND	ND		µg/g	0 0	2	Acceptable	

Abbreviations

ND None Detected at or above MRL
RPD Relative Percent D fference
LOQ Limit of Quantitation

Units of Measure:

µg/g M crogram per gram or ppm

Columbia LABORATORIES
A Tentamus Company

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503-254-1794

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Revision Document D
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Terpenes Quality Control Results

Method Reference: EPA 5035 **Batch ID:** 2 0484

Method Blank				Laboratory Control Sample					
Analyte	**Result**	**LOQ**	**Notes**	**Result**	**LCS**	**Units**	**LCS % Rec**	**Limits**	**Notes**
a-pinene	< OQ	< 200		50	500	µg/g	***100%***	70 - 30	
Camphene	< OQ	< 200		487	500	µg/g	***97%***	70 - 30	
Sabinene	< OQ	< 200		472	500	µg/g	***94%***	70 - 30	
b-Pinene	< OQ	< 200		547	500	µg/g	***109%***	70 - 30	
b-Myrcene	< OQ	< 200		467	500	µg/g	***93%***	70 - 30	
a-phelllandrene	< OQ	< 200		445	500	µg/g	***89%***	70 - 30	
d-3-Carene	< OQ	< 200		499	500	µg/g	***100%***	70 - 30	
a-Terpinene	< OQ	< 200		484	500	µg/g	***97%***	70 - 30	
p-Cymene	< OQ	< 200		473	500	µg/g	***95%***	70 - 30	
D- imonene	< OQ	< 200		5 7	500	µg/g	***103%***	70 - 30	
ucalyp ol	< OQ	< 200		492	500	µg/g	***98%***	70 - 30	
b-cis-Ocimene	< OQ	< 67		58	67	µg/g	***95%***	70 - 30	
b- rans-Ocimene	< OQ	< 33		302	333	µg/g	***91%***	70 - 30	
g-Terpinene	< OQ	< 200		5 3	500	µg/g	***103%***	70 - 30	
Sabinene ydra e	< OQ	< 200		559	500	µg/g	***112%***	70 - 30	
Terpinolene	< OQ	< 200		5 2	500	µg/g	***102%***	70 - 30	
D- enchone	< OQ	< 200		5 7	500	µg/g	***103%***	70 - 30	
inalool	< OQ	< 200		49	500	µg/g	***98%***	70 - 30	
enchol	< OQ	< 200		528	500	µg/g	***106%***	70 - 30	
Camphor	< OQ	< 200		474	500	µg/g	***95%***	70 - 30	
sopulego	< OQ	< 200		434	500	µg/g	***87%***	70 - 30	
soborneol	< OQ	< 200		494	500	µg/g	***99%***	70 - 30	
Borneol	< OQ	< 200		559	500	µg/g	***112%***	70 - 30	
D -Men hol	< OQ	< 200		496	500	µg/g	***99%***	70 - 30	
Terpineol	< OQ	< 200		5 7	500	µg/g	***103%***	70 - 30	
Nerol	< OQ	< 200		462	500	µg/g	***92%***	70 - 30	
Pulegone	< OQ	< 200		550	500	µg/g	***110%***	70 - 30	
Gereniol	< OQ	< 200		558	500	µg/g	***112%***	70 - 30	
Geranyl Ace a e	< OQ	< 200		50	500	µg/g	***100%***	70 - 30	
a-Cedrene	< OQ	< 200		57	500	µg/g	***114%***	70 - 30	
b-Caryophyllene	< OQ	< 200		530	500	µg/g	***106%***	70 - 30	
a- umulene	< OQ	< 200		567	500	µg/g	***113%***	70 - 30	
Valenene	< OQ	< 200		444	500	µg/g	***89%***	70 - 30	
cis-Nerolidol	< OQ	< 200		497	500	µg/g	***99%***	70 - 30	
a- arnesene	< OQ	< 200		382	500	µg/g	***76%***	70 - 30	
rans-Nerolidol	< OQ	< 200		587	500	µg/g	***117%***	70 - 30	
Caryophyllene Oxide	< OQ	< 200		505	500	µg/g	***101%***	70 - 30	
Guaiol	< OQ	< 200		592	500	µg/g	***118%***	70 - 30	
Cedrol	< OQ	< 200		5 7	500	µg/g	***103%***	70 - 30	
a-Bisabolol	< OQ	< 200		523	500	µg/g	***105%***	70 - 30	

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:** 2 0484

Sample/Sample Duplicate **Sample ID: 21-013481-0001**

Analyte	Result	Org. Result	LOQ	Units	% RPD	LIMIT	Notes
a-pinene	< OQ	< OQ	96	µg/g	0%	< 20	
Camphene	< OQ	< OQ	96	µg/g	0%	< 20	
Sabinene	< OQ	< OQ	96	µg/g	0%	< 20	
b-Pinene	< OQ	< OQ	96	µg/g	0%	< 20	
b-Myrcene	< OQ	< OQ	96	µg/g	0%	< 20	
a-phelllandrene	< OQ	< OQ	96	µg/g	0%	< 20	
d-3-Carene	< OQ	< OQ	96	µg/g	0%	< 20	
a-Terpinene	< OQ	< OQ	96	µg/g	0%	< 20	
p-Cymene	< OQ	< OQ	96	µg/g	0%	< 20	
D- imonene	27600	27800	96	µg/g	1%	< 20	
ucalyp ol	237	225	96	µg/g	5%	< 20	
b-cis-Ocimene	< OQ	< OQ	65.3	µg/g	0%	< 20	
b- rans-Ocimene	< OQ	< OQ	3	µg/g	0%	< 20	
g-Terpinene	< OQ	< OQ	96	µg/g	0%	< 20	
Sabinene ydra e	< OQ	< OQ	96	µg/g	0%	< 20	
Terpinolene	< OQ	< OQ	96	µg/g	0%	< 20	
D- enchone	< OQ	< OQ	96	µg/g	0%	< 20	
inalool	< OQ	< OQ	96	µg/g	0%	< 20	
enchol	< OQ	< OQ	96	µg/g	0%	< 20	
Camphor	< OQ	< OQ	96	µg/g	0%	< 20	
sopulego	< OQ	< OQ	96	µg/g	0%	< 20	
soborneol	< OQ	< OQ	96	µg/g	0%	< 20	
Borneol	< OQ	< OQ	96	µg/g	0%	< 20	
D -Men hol	800	790	96	µg/g	1%	< 20	
Terpineol	< OQ	< OQ	96	µg/g	0%	< 20	
Nerol	< OQ	< OQ	96	µg/g	0%	< 20	
Pulegone	< OQ	< OQ	96	µg/g	0%	< 20	
Gereniol	< OQ	< OQ	96	µg/g	0%	< 20	
Geranyl Ace a e	< OQ	< OQ	96	µg/g	0%	< 20	
a-Cedrene	< OQ	< OQ	96	µg/g	0%	< 20	
b-Caryophyllene	< OQ	< OQ	96	µg/g	0%	< 20	
a- umulene	< OQ	< OQ	96	µg/g	0%	< 20	
Valenene	< OQ	< OQ	96	µg/g	0%	< 20	
cis-Nerolidol	< OQ	< OQ	96	µg/g	0%	< 20	
a- arnesene	< OQ	< OQ	96	µg/g	0%	< 20	
rans-Nerolidol	656	655	96	µg/g	0%	< 20	
Caryophyllene Oxide	600	580	96	µg/g	1%	< 20	
Guaiol	780	760	96	µg/g	1%	< 20	
Cedrol	< OQ	< OQ	96	µg/g	0%	< 20	
a-Bisabolol	8980	8890	96	µg/g	1%	< 20	

Definitions

RPD Relative Percent Difference

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Explanation of QC Flag Comments:

Code	Explanation
Q	Matrix interferences affecting spike or surrogate recoveries.
Q1	Quality control result biased high. Only non-detect samples reported.
Q2	Quality control outside QC limits. Data considered estimate.
Q3	Sample concentration greater than four times the amount spiked.
Q4	Non-homogenous sample matrix, affecting RPD result and/or % recoveries.
Q5	Spike results above calibration curve.
Q6	Quality control outside QC limits. Data acceptable based on remaining QC.
R	Relative percent difference (RPD) outside control limit.
R1	RPD non-calculable, as sample or duplicate results are less than five times the LOQ.
R2	Sample replicates RPD non-calculable, as only one replicate is within the analytical range.
LOQ1	Quantitation level raised due to low sample volume and/or dilution.
LOQ2	Quantitaion level raised due to matrix interference.
B	Analyte detected in method blank, but not in associated samples.
B1	The sample concentration is greater than 5 times the blank concentration.
B2	The sample concentration is less than 5 times the blank concentration.