



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



Report Number: 21-006454/D004.R000
Report Date: 06/17/2021
ORELAP#: OR100028
Purchase Order:
Received: 06/10/21 10:56

Customer: GVB Biopharma
Product identity: Sour Strawberry 25mg BSD
Client/Metric ID: G-SF-060
Laboratory ID: 21-006454-0003

Sample Date: 06/07/21

Summary

Potency:

Analyte per 1g	Result	Limits	Units	Status	
CBC per 1g ¹	0.0497		mg/1g		CBD-Total per 1g 6.38 mg/1g
CBD per 1g	6.38		mg/1g		
CBN per 1g	0.0392		mg/1g		THC-Total per 1g <LOQ
					(Reported in milligrams per serving)

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

All analytes passing and less than LOQ.

Terpenes:

Less than LOQ for all analytes.

Metals:

Analyte	Result	Units
Lead	0.0678	mg/kg

Microbiology:

Less than LOQ for all analytes.



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Customer: GVB Biopharma
 4456 E. Graig Rd
 Las Vegas Nevada 89115
 United States of America (USA)

Product identity: Sour Strawberry 25mg BSD

Client/Metric ID: G-SF-060

Sample Date: 06/07/21

Laboratory ID: 21-006454-0003

Evidence of Cooling: No

Temp: 20 °C

Serving Size #1: 1 g

Sample Results

Potency per 1g		Method J AOAC 2015 V98-6 (mod)Units mg/se			Batch: 2105329	Analyze: 6/15/21 8:33:00 PM
Analyte	Result	Limits	Units	LOQ	Notes	
CBC per 1g [†]	0.0497		mg/1g	0.0320		
CBC-A per 1g [†]	< LOQ		mg/1g	0.0320		
CBC-Total per 1g [†]	< LOQ		mg/1g	0.0601		
CBD per 1g	6.38		mg/1g	0.0320		
CBD-A per 1g	< LOQ		mg/1g	0.0320		
CBD-Total per 1g	6.38		mg/1g	0.0601		
CBDV per 1g [†]	< LOQ		mg/1g	0.0320		
CBDV-A per 1g [†]	< LOQ		mg/1g	0.0320		
CBDV-Total per 1g [†]	< LOQ		mg/1g	0.0598		
CBE per 1g [†]	< LOQ		mg/1g	0.320		
CBG per 1g [†]	< LOQ		mg/1g	0.0320		
CBG-A per 1g [†]	< LOQ		mg/1g	0.0320		
CBG-Total per 1g [†]	< LOQ		mg/1g	0.0598		
CBL per 1g [†]	< LOQ		mg/1g	0.0320		
CBL-A per 1g [†]	< LOQ		mg/1g	0.0320		
CBL-Total per 1g [†]	< LOQ		mg/1g	0.0601		
CBN per 1g	0.0392		mg/1g	0.0320		
CBT per 1g [†]	< LOQ		mg/1g	0.320		
Δ8-THCV per 1g [†]	< LOQ		mg/1g	0.0320		
Δ8-THC per 1g [†]	< LOQ		mg/1g	0.0320		
Δ9-THC per 1g	< LOQ		mg/1g	0.0320		
exo-THC per 1g [†]	< LOQ		mg/1g	0.320		
THC-A per 1g	< LOQ		mg/1g	0.0320		
THC-Total per 1g	< LOQ		mg/1g	0.0601		
THCV per 1g [†]	< LOQ		mg/1g	0.0320		
THCV-A per 1g [†]	< LOQ		mg/1g	0.0320		
THCV-Total per 1g [†]	< LOQ		mg/1g	0.0601		
Total Cannabinoids per 1g	6.48		mg/1g			



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Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
E.coli	< LOQ		cfu/g	10	2105128	06/13/21	AOAC 991.14 (Petrifilm)	X
Total Coliforms	< LOQ		cfu/g	10	2105128	06/13/21	AOAC 991.14 (Petrifilm)	X
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2105127	06/13/21	AOAC 2014.05 (RAPID)	X
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2105127	06/13/21	AOAC 2014.05 (RAPID)	X

Solvents Method Residual Solvents by GC/MS Units µg/g Batch 2105187 Analyze 06/15/21 02:16 PM

Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
1,4-Dioxane	< LOQ	380	100	pass		2-Butanol	< LOQ	5000	200	pass	
2-Ethoxyethanol	< LOQ	160	30.0	pass		2-Methylbutane	< LOQ		200		
2-Methylpentane	< LOQ		30.0			2-Propanol (IPA)	< LOQ	5000	200	pass	
2,2-Dimethylbutane	< LOQ		30.0			2,2-Dimethylpropane	< LOQ		200		
2,3-Dimethylbutane	< LOQ		30.0			3-Methylpentane	< LOQ		30.0		
Acetone	< LOQ	5000	200	pass		Acetonitrile	< LOQ	410	100	pass	
Benzene	< LOQ	2.00	1.00	pass		Butanes (sum)	< LOQ	5000	400	pass	
Cyclohexane	< LOQ	3880	200	pass		Ethyl acetate	< LOQ	5000	200	pass	
Ethyl benzene	< LOQ		200			Ethyl ether	< LOQ	5000	200	pass	
Ethylene glycol	< LOQ	620	200	pass		Ethylene oxide	< LOQ	50.0	20.0	pass	
Hexanes (sum)	< LOQ	290	150	pass		Isopropyl acetate	< LOQ	5000	200	pass	
Isopropylbenzene	< LOQ	70.0	30.0	pass		m,p-Xylene	< LOQ		200		
Methanol	< LOQ	3000	200	pass		Methylene chloride	< LOQ	600	60.0	pass	
Methylpropane	< LOQ		200			n-Butane	< LOQ		200		
n-Heptane	< 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	< LOQ	2170	600	pass	



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Pesticides											
Method AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 2105321 Analyze 06/16/21 02:25 PM											
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin	< LOQ	0.50	0.250	pass		Acephate	< LOQ	0.40	0.250	pass	
Acequinocyl	< LOQ	2.0	1.00	pass		Acetamiprid	< LOQ	0.20	0.100	pass	
Aldicarb	< LOQ	0.40	0.200	pass		Azoxystrobin	< LOQ	0.20	0.100	pass	
Bifenazate	< LOQ	0.20	0.100	pass		Bifenthrin	< LOQ	0.20	0.100	pass	
Boscalid	< LOQ	0.40	0.200	pass		Carbaryl	< LOQ	0.20	0.100	pass	
Carbofuran	< LOQ	0.20	0.100	pass		Chlorantraniliprole	< LOQ	0.20	0.100	pass	
Chlorfenapyr	< LOQ	1.0	0.500	pass		Chlorpyrifos	< LOQ	0.20	0.100	pass	
Clofentezine	< LOQ	0.20	0.100	pass		Cyfluthrin	< LOQ	1.0	0.500	pass	
Cypermethrin	< LOQ	1.0	0.500	pass		Daminozide	< LOQ	1.0	0.500	pass	
Diazinon	< LOQ	0.20	0.100	pass		Dichlorvos	< LOQ	1.0	0.500	pass	
Dimethoate	< LOQ	0.20	0.100	pass		Ethoprophos	< LOQ	0.20	0.100	pass	
Etofenprox	< LOQ	0.40	0.200	pass		Etoxazole	< LOQ	0.20	0.100	pass	
Fenoxycarb	< LOQ	0.20	0.100	pass		Fenpyroximate	< LOQ	0.40	0.200	pass	
Fipronil	< LOQ	0.40	0.200	pass		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		Paclbutrazole	< 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 2105252	Analyze 06/14/21 08:25 PM		
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
Geraniol [†]	< LOQ	0.018	0.00%		a-Terpinene [†]	< LOQ	0.018	0.00%	
β-Myrcene [†]	< LOQ	0.018	0.00%		Terpinolene [†]	< LOQ	0.018	0.00%	
Sabinene [†]	< LOQ	0.018	0.00%		(R)-(+)-Limonene [†]	< LOQ	0.018	0.00%	
Linalool [†]	< LOQ	0.018	0.00%		nerol [†]	< LOQ	0.018	0.00%	
gamma-Terpinene [†]	< LOQ	0.018	0.00%		(+)-Pulegone [†]	< LOQ	0.018	0.00%	
Sabinene hydrate [†]	< LOQ	0.018	0.00%		p-Cymene [†]	< LOQ	0.018	0.00%	
a-phellandrene [†]	< LOQ	0.018	0.00%		valencene [†]	< LOQ	0.018	0.00%	
Geranyl acetate [†]	< LOQ	0.018	0.00%		(-)-β-Pinene [†]	< LOQ	0.018	0.00%	
a-pinene [†]	< LOQ	0.018	0.00%		(-)-a-Terpineol [†]	< LOQ	0.018	0.00%	
(+)-fenchol [†]	< LOQ	0.018	0.00%		(±)-fenchone [†]	< LOQ	0.018	0.00%	
(±)-Camphor [†]	< LOQ	0.018	0.00%		Humulene [†]	< LOQ	0.018	0.00%	
(-)-caryophyllene oxide [†]	< LOQ	0.018	0.00%		(-)-Guaiol [†]	< LOQ	0.018	0.00%	
(-)-Isopulegol [†]	< LOQ	0.018	0.00%		(+)-Borneol [†]	< LOQ	0.018	0.00%	
(+)-Cedrol [†]	< LOQ	0.018	0.00%		(±)-cis-Nerolidol [†]	< LOQ	0.018	0.00%	
(±)-trans-Nerolidol [†]	< LOQ	0.018	0.00%		a-Bisabolol [†]	< LOQ	0.018	0.00%	
a-cedrene [†]	< LOQ	0.018	0.00%		Camphene [†]	< LOQ	0.018	0.00%	
cis-β-Ocimene [†]	< LOQ	0.006	0.00%		d-3-Carene [†]	< LOQ	0.018	0.00%	
Eucalyptol [†]	< LOQ	0.018	0.00%		farnesene [†]	< LOQ	0.018	0.00%	
Isoborneol [†]	< LOQ	0.018	0.00%		Menthol [†]	< LOQ	0.018	0.00%	
β-Caryophyllene [†]	< LOQ	0.018	0.00%		trans-β-Ocimene [†]	< LOQ	0.012	0.00%	
Total Terpenes	< LOQ								

Metals								
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Arsenic	< LOQ		mg/kg	0.00635	2105259	06/15/21	AOAC 2013.06 (mod.)	X
Cadmium	< LOQ		mg/kg	0.00635	2105259	06/15/21	AOAC 2013.06 (mod.)	X
Lead	0.0678		mg/kg	0.00635	2105259	06/15/21	AOAC 2013.06 (mod.)	X
Mercury	< LOQ		mg/kg	0.00317	2105259	06/15/21	AOAC 2013.06 (mod.)	X

Mycotoxins								
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Aflatoxin B2 [†]	< LOQ		µg/kg	5.00	2105305	06/16/21	AOAC 2007.01 & EN 15662	
Aflatoxin B1 [†]	< LOQ		µg/kg	5.00	2105305	06/16/21	AOAC 2007.01 & EN 15662	
Aflatoxin G1 [†]	< LOQ		µg/kg	5.00	2105305	06/16/21	AOAC 2007.01 & EN 15662	
Aflatoxin G2 [†]	< LOQ		µg/kg	5.00	2105305	06/16/21	AOAC 2007.01 & EN 15662	
Deoxynivalenol [†]	< LOQ		µg/kg	200	2105305	06/16/21	AOAC 2007.01 & EN 15662	
Fumonisin B1 [†]	< LOQ		µg/kg	200	2105305	06/16/21	AOAC 2007.01 & EN 15662	
Fumonisin B2 [†]	< LOQ		µg/kg	200	2105305	06/16/21	AOAC 2007.01 & EN 15662	
HT2-Toxin [†]	< LOQ		µg/kg	40.0	2105305	06/16/21	AOAC 2007.01 & EN 15662	
Nivalenol [†]	< LOQ		µg/kg	400	2105305	06/16/21	AOAC 2007.01 & EN 15662	
Ochratoxin A [†]	< LOQ		µg/kg	5.00	2105305	06/16/21	AOAC 2007.01 & EN 15662	
Ochratoxin B [†]	< LOQ		µg/kg	2.00	2105305	06/16/21	AOAC 2007.01 & EN 15662	
T2-Toxin [†]	< LOQ		µg/kg	20.0	2105305	06/16/21	AOAC 2007.01 & EN 15662	
Zearalenone [†]	< LOQ		µg/kg	200	2105305	06/16/21	AOAC 2007.01 & EN 15662	



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Nutrition

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Moisture (Loss on Drying)	11.0		g/100g	0.10	2105354	06/16/21	AOAC 925.10 (mod.)	X
Water Activity	0.613		Aw	0.030	2105238	06/14/21	AOAC 978.18	X



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

Abbreviations

Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220

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

† = Analyte not NELAP accredited.

Units of Measure

cfu/g = Colony forming units per gram

g = Gram

g/100g = Grams per 100 Grams

µg/g = Microgram per gram

µg/kg = Micrograms per kilogram = parts per billion (ppb)

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

mg/1g = Milligram per 1g

% = Percentage of sample

Aw = Water Activity

% wt = µg/g divided by 10,000

Glossary of Qualifiers

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner
General Manager



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Hemp / Cannabis Usable / Extract / Finished Products

Chain of Custody Record

Document Control ID: 2732 Revision: 1
 Effective: 05/04/2021
 ORELAP ID: OR100028

21-006454

Company: GVB Biopharma NV Contact: John Eberhard/Enrique Bates Street: 4456 E. Craig Rd. City: Las Vegas State: NV Zip: 89115 <input checked="" type="checkbox"/> Email Results: <u>John@GVBbiopharma.com</u> Ph: () Fx Results: () Billing (if different):				Analysis Requested <input type="checkbox"/> Pesticides - OR 59 compounds <input type="checkbox"/> Pesticide Multi-Residue - 379 compounds <input type="checkbox"/> Potency <input type="checkbox"/> Residual Solvents <input type="checkbox"/> Moisture & Water Activity <input type="checkbox"/> Terpenes <input type="checkbox"/> Micro: Yeast and Mold <input type="checkbox"/> Micro: E Coli and Total Coliform <input type="checkbox"/> Heavy Metals <input type="checkbox"/> Mycotoxins <input type="checkbox"/> Other:										PO Number: Project Number: Project Name: Custom Reporting: <u>EBates@GVBbiopharma.com</u> Report to State - <input type="checkbox"/> METRC or <input type="checkbox"/> Other: Turnaround time: <input type="checkbox"/> 5 Business Day Standard Turnaround <input type="checkbox"/> 3 Business Day Rush Turnaround* <input type="checkbox"/> 2 Business Day Rush Turnaround* *Check for availability			
Lab ID	Client Sample Identification	Date	Time	Pesticides - OR 59 compounds	Pesticide Multi-Residue - 379 compounds	Potency	Residual Solvents	Moisture & Water Activity	Terpenes	Micro: Yeast and Mold	Micro: E Coli and Total Coliform	Heavy Metals	Mycotoxins	Other:	Sample Type †	Weight (Units)	Comments/Metric ID
1	Watermelon, 25mg BSD	06-07-21		X	X	X	X	X	X	X	X	X	X	X	E	30ct	G-SF-060321-001
2	Mango, 25mg BSD	06-07-21		X	X	X	X	X	X	X	X	X	X	X	E	30ct	G-SF-060221-001
3	Sour Strawberry, 25mg BSD	06-07-21		X	X	X	X	X	X	X	X	X	X	X	E	30ct	G-SF-060221-002
4	Mango, FSD 25 mg	06-07-21		X	X	X	X	X	X	X	X	X	X	X	E	30ct	G-SF-060321-002
5	Hemp Iso, 25 mg BSD	06-07-21		X	X	X	X	X	X	X	X	X	X	X	E	30ct	G-SF-060421-002
Relinquished By: <u>[Signature]</u>			Date: 6/7/21	Time: 3:30	Received By: <u>[Signature]</u>			Date: 6/10/21	Time: 10:56	Lab Use Only: <input type="checkbox"/> Shipped Via: <u>UPS</u> or <input type="checkbox"/> Client drop Evidence of cooling: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No - Temp (°C): <u>20</u> Sample in good condition: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Cash <input type="checkbox"/> Check <input type="checkbox"/> CC <input type="checkbox"/> Net: Prelog storage:							

† - Sample Type Codes: Vegetation (V) ; Isolates (S) ; Extract/Concentrate (C) ; Tincture/Topical (T) ; Edible (E) ; Beverage (B)

Samples submitted to Columbia Laboratories with testing requirements constitute an agreement for services in accordance with the current terms of service associated with this COC. By signing "Relinquished by" you are agreeing to these terms
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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 333-007-0390 OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430



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Columbia Laboratories
Sample Receipt Form

Revision: 2.00 Document Control: CP015
Revised: 01/11/2021 Effective: 05/16/2021

Job Number: 21-006454 Search Name: _____

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

Received By (Initials): HA Logged in by (Initials): _____ Date: 6/10/21 Time: 10:56

- 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): 1Z 545 96F 02 9051 9149

- 5) Was packing material used? YES NO NA
Peanuts Bubble Wrap Foam Paper Other: _____
- 6) Was temperature upon receipt 4°C- 2°C (if appropriate)? YES NO NA
If not, client contacted: _____
Proceed? YES NO
- 7) Was there evidence of cooling? YES NO NA
What kind?
Blue Ice Ice Cooler Packs Dry Ice
- 8) Were all sample containers sealed in separate plastic bags? YES NO NA
- 9) Did all sample containers arrive in good condition? YES NO NA
- 10) Were all sample container labels complete? YES NO NA
- 11) Did all sample container labels and tags agree with the COC? YES NO NA
- 12) Were correct sample containers used for the tests indicated? YES NO NA
- 13) Were VOA vials checked for absence of air bubbles (note if found)? YES NO NA
- 14) Was a sufficient amount of sample sent in each sample container? YES NO NA
- 15) Sample location prior to login: R99 R39 R44 F44 Ambient Shelf Cannabis Table Other: _____

Explain any discrepancies: _____

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Laboratory Quality Control Results

Residual Solvents				Batch ID: 2105187					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		442	595	µg/g	74.3	70	-130
Isobutane	ND	< 200		594	761	µg/g	78.1	70	-130
Butane	ND	< 200		596	761	µg/g	78.3	70	-130
2,2-Dimethylpropane	ND	< 200		710	955	µg/g	74.3	70	-130
Methanol	ND	< 200		1340	1600	µg/g	83.8	70	-130
Ethylene Oxide	ND	< 30		42.2	58.3	µg/g	72.4	70	-130
2-Methylbutane	ND	< 200		1260	1600	µg/g	78.8	70	-130
Pentane	ND	< 200		1280	1600	µg/g	80.0	70	-130
Ethanol	ND	< 200		1340	1610	µg/g	83.2	70	-130
Ethyl Ether	ND	< 200		1330	1600	µg/g	83.1	70	-130
2,2-Dimethylbutane	ND	< 30		132	160	µg/g	82.5	70	-130
Acetone	ND	< 200		1310	1600	µg/g	81.9	70	-130
2-Propanol	ND	< 200		1330	1610	µg/g	82.6	70	-130
Ethyl Formate	ND	< 500		960	1610	µg/g	59.6	70	-130 Q6
Acetonitrile	ND	< 100		390	481	µg/g	81.1	70	-130
Methyl Acetate	ND	< 500		1390	1600	µg/g	86.9	70	-130
2,3-Dimethylbutane	ND	< 30		142	164	µg/g	86.6	70	-130
Dichloromethane	ND	< 60		406	490	µg/g	82.9	70	-130
2-Methylpentane	ND	< 30		193	162	µg/g	119.1	70	-130
MTBE	ND	< 500		1370	1610	µg/g	85.1	70	-130
3-Methylpentane	ND	< 30		136	163	µg/g	83.4	70	-130
Hexane	ND	< 30		138	163	µg/g	84.7	70	-130
1-Propanol	ND	< 500		1360	1600	µg/g	85.0	70	-130
Methylethylketone	ND	< 500		1420	1620	µg/g	87.7	70	-130
Ethyl acetate	ND	< 200		1330	1600	µg/g	83.1	70	-130
2-Butanol	ND	< 200		1380	1600	µg/g	86.3	70	-130
Tetrahydrofuran	ND	< 100		444	485	µg/g	91.5	70	-130
Cyclohexane	ND	< 200		1430	1610	µg/g	88.8	70	-130
2-methyl-1-propanol	ND	< 500		1170	1610	µg/g	72.7	70	-130
Benzene	ND	< 1		3.77	4.36	µg/g	86.5	70	-130
Isopropyl Acetate	ND	< 200		1340	1610	µg/g	83.2	70	-130
Heptane	ND	< 200		1340	1610	µg/g	83.2	70	-130
1-Butanol	ND	< 500		1510	1610	µg/g	93.8	70	-130
Propyl Acetate	ND	< 500		1360	1610	µg/g	84.5	70	-130
1,4-Dioxane	ND	< 100		424	481	µg/g	88.1	70	-130
2-Ethoxyethanol	ND	< 30		136	162	µg/g	84.0	70	-130
Methylisobutylketone	ND	< 500		1280	1650	µg/g	77.6	70	-130
3-Methyl-1-butanol	ND	< 500		1150	1610	µg/g	71.4	70	-130
Ethylene Glycol	ND	< 200		466	484	µg/g	96.3	70	-130
Toluene	ND	< 200		450	500	µg/g	90.0	70	-130
Isobutyl Acetate	ND	< 500		1190	1610	µg/g	73.9	70	-130
1-Pentanol	ND	< 500		1180	1610	µg/g	73.3	70	-130
Butyl Acetate	ND	< 500		1150	1620	µg/g	71.0	70	-130
Ethylbenzene	ND	< 200		940	971	µg/g	96.8	70	-130
m,p-Xylene	ND	< 200		937	966	µg/g	97.0	70	-130
o-Xylene	ND	< 200		939	967	µg/g	97.1	70	-130
Cumene	ND	< 30		150	164	µg/g	91.5	70	-130
Anisole	ND	< 500		1530	1620	µg/g	94.4	70	-130
DMSO	ND	< 500		1150	1640	µg/g	70.1	70	-130
1,2-dimethoxyethane	ND	< 50		137	164	µg/g	83.5	70	-130
Triethylamine	ND	< 500		1270	1600	µg/g	79.4	70	-130
N,N-dimethylformamide	ND	< 150		467	518	µg/g	90.2	70	-130
N,N-dimethylacetamide	ND	< 150		438	488	µg/g	89.8	70	-130
Pyridine	ND	< 50		139	172	µg/g	80.8	70	-130
Trichloroethylene	ND	< 1		1.09	1	µg/g	109.0	70	-130
Chloroform	ND	< 1		1.04	1	µg/g	104.0	70	-130
1,2-Dichloroethane	ND	< 1		1.05	1	µg/g	105.0	70	-130



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Report Number: 21-006454/D004.R000
Report Date: 06/17/2021
ORELAP#: OR100028
Purchase Order:
Received: 06/10/21 10:56

QC - Sample Duplicate Sample ID: 21-006134-0001

Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Accept/Fail	Notes
Propane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Isobutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Butane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2,2-Dimethylpropane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Methanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethylene Oxide	ND	ND	30	µg/g	0.0	< 20	Acceptable	
2-Methylbutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Pentane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethyl Ether	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2,2-Dimethylbutane	ND	ND	200	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	
Acetonitrile	ND	ND	100	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	200	µg/g	0.0	< 20	Acceptable	
MTBE	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	
1-Propanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Methyl ethyl ketone	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	
Tetrahydrofuran	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Cyclohexane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-methyl-1-propanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Benzene	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Isopropyl Acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Heptane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
1-Butanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Propyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
1,4-Dioxane	ND	ND	100	µg/g	0.0	< 20	Acceptable	
2-Ethoxyethanol	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Methylisobutylketone	ND	ND	500	µg/g	0.0	< 20	Acceptable	
3-Methyl-1-butanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Ethylene Glycol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Toluene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Isobutyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
1-Pentanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Butyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Ethylbenzene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
m,p-Xylene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
o-Xylene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Cumene	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Anisole	ND	ND	500	µg/g	0.0	< 20	Acceptable	
DMSO	ND	ND	500	µg/g	0.0	< 20	Acceptable	
1,3-dimethoxyethane	ND	ND	50	µg/g	0.0	< 20	Acceptable	
Triethylamine	ND	ND	500	µg/g	0.0	< 20	Acceptable	
N,N-dimethylformamide	ND	ND	150	µg/g	0.0	< 20	Acceptable	
N,N-dimethylacetamide	ND	ND	150	µg/g	0.0	< 20	Acceptable	
Pyridine	ND	ND	50	µg/g	0.0	< 20	Acceptable	
Trichloroethylene	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Chloroform	21	21.2	1	µg/g	0.9	< 20	Acceptable	€
1,2-Dichloroethane	ND	ND	1	µg/g	0.0	< 20	Acceptable	

Abbreviations

ND - None Detected at or above MRL
RPD - Relative Percent Difference
LOQ - Limit of Quantitation
QC - Quality control outside QC limits. Data acceptable based on remaining QC.

Units of Measure:

µg/g - Microgram per gram or ppm



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 Portland, OR 97230
 503-254-1794



Report Number: 21-006454/D004.R000
 Report Date: 06/17/2021
 ORELAP#: OR100028
 Purchase Order:
 Received: 06/10/21 10:56

Terpenes Quality Control Results

Method Reference: EPA 5035				Batch ID: 2105252					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	LCS	Units	LCS % Rec	Limits	Notes
a-pinene	<LOQ	< 200		548	500	µg/g	110%	70 - 130	
Camphene	<LOQ	< 200		493	500	µg/g	99%	70 - 130	
Sabinene	<LOQ	< 200		457	500	µg/g	91%	70 - 130	
b-Pinene	<LOQ	< 200		429	500	µg/g	86%	70 - 130	
b-Myrcene	<LOQ	< 200		495	500	µg/g	99%	70 - 130	
a-phellandrene	<LOQ	< 200		505	500	µg/g	101%	70 - 130	
d-3-Carene	<LOQ	< 200		549	500	µg/g	110%	70 - 130	
a-Terpinene	<LOQ	< 200		468	500	µg/g	94%	70 - 130	
p-Cymene	<LOQ	< 200		508	500	µg/g	102%	70 - 130	
D-Limonene	<LOQ	< 200		415	500	µg/g	83%	70 - 130	
Eucalyptol	<LOQ	< 200		475	500	µg/g	95%	70 - 130	
b-cis-Ocimene	<LOQ	< 67		158	167	µg/g	95%	70 - 130	
b-trans-Ocimene	<LOQ	< 133		338	333	µg/g	101%	70 - 130	
g-Terpinene	<LOQ	< 200		438	500	µg/g	88%	70 - 130	
Sabinene_Hydrate	<LOQ	< 200		441	500	µg/g	88%	70 - 130	
Terpinolene	<LOQ	< 200		415	500	µg/g	83%	70 - 130	
D-Fenchone	<LOQ	< 200		442	500	µg/g	88%	70 - 130	
Linalool	<LOQ	< 200		515	500	µg/g	103%	70 - 130	
Fenchol	<LOQ	< 200		450	500	µg/g	90%	70 - 130	
Camphor	<LOQ	< 200		475	500	µg/g	95%	70 - 130	
Isopulego	<LOQ	< 200		475	500	µg/g	95%	70 - 130	
Isoborneol	<LOQ	< 200		482	500	µg/g	96%	70 - 130	
Borneol	<LOQ	< 200		439	500	µg/g	88%	70 - 130	
DL-Menthol	<LOQ	< 200		500	500	µg/g	100%	70 - 130	
Terpineol	<LOQ	< 200		404	500	µg/g	81%	70 - 130	
Nerol	<LOQ	< 200		478	500	µg/g	96%	70 - 130	
Pulegone	<LOQ	< 200		564	500	µg/g	113%	70 - 130	
Geraniol	<LOQ	< 200		375	500	µg/g	75%	70 - 130	
Geranyl_Acetate	<LOQ	< 200		490	500	µg/g	98%	70 - 130	
a-Cedrene	<LOQ	< 200		455	500	µg/g	91%	70 - 130	
b-Caryophyllene	<LOQ	< 200		399	500	µg/g	80%	70 - 130	
a-Humulene	<LOQ	< 200		437	500	µg/g	87%	70 - 130	
Valenene	<LOQ	< 200		420	500	µg/g	84%	70 - 130	
cis-Nerolidol	<LOQ	< 200		501	500	µg/g	100%	70 - 130	
a-Farnesene	<LOQ	< 200		531	500	µg/g	106%	70 - 130	
trans-Nerolidol	<LOQ	< 200		431	500	µg/g	86%	70 - 130	
Caryophyllene_Oxide	<LOQ	< 200		578	500	µg/g	116%	70 - 130	
Guaialol	<LOQ	< 200		476	500	µg/g	95%	70 - 130	
Cedrol	<LOQ	< 200		479	500	µg/g	96%	70 - 130	
a-Bisabolol	<LOQ	< 200		491	500	µg/g	98%	70 - 130	

Definitions

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



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Report Number: 21-006454/D004.R000
 Report Date: 06/17/2021
 ORELAP#: OR100028
 Purchase Order:
 Received: 06/10/21 10:56

Terpenes Quality Control Results

Method Reference: EPA 5035		Batch ID: 2105252					
Sample/Sample Duplicate		Sample ID: 21-006310-0001					
Analyte	Result	Org. Result	LOQ	Units	% RPD	LIMIT	Notes
a-pinene	<LOQ	<LOQ	183	µg/g	0%	< 20	
Camphene	<LOQ	<LOQ	183	µg/g	0%	< 20	
Sabinene	<LOQ	<LOQ	183	µg/g	0%	< 20	
b-Pinene	<LOQ	<LOQ	183	µg/g	0%	< 20	
b-Myrcene	<LOQ	<LOQ	183	µg/g	0%	< 20	
a-phellandrene	<LOQ	<LOQ	183	µg/g	0%	< 20	
d-3-Carene	<LOQ	<LOQ	183	µg/g	0%	< 20	
a-Terpinene	<LOQ	<LOQ	183	µg/g	0%	< 20	
p-Cymene	<LOQ	<LOQ	183	µg/g	0%	< 20	
D-Limonene	<LOQ	<LOQ	183	µg/g	0%	< 20	
Eucalyptol	494	482	183	µg/g	2%	< 20	
b-cis-Ocimene	<LOQ	<LOQ	60.9	µg/g	0%	< 20	
b-trans-Ocimene	<LOQ	<LOQ	122	µg/g	0%	< 20	
g-Terpinene	<LOQ	<LOQ	183	µg/g	0%	< 20	
Sabinene_Hydrate	<LOQ	<LOQ	183	µg/g	0%	< 20	
Terpinolene	<LOQ	<LOQ	183	µg/g	0%	< 20	
D-Fenchone	<LOQ	<LOQ	183	µg/g	0%	< 20	
Linalool	2170	2160	183	µg/g	0%	< 20	
Fenchol	<LOQ	<LOQ	183	µg/g	0%	< 20	
Camphor	1020	1010	183	µg/g	1%	< 20	
Isopulego	<LOQ	<LOQ	183	µg/g	0%	< 20	
Isoborneol	<LOQ	<LOQ	183	µg/g	0%	< 20	
Borneol	<LOQ	<LOQ	183	µg/g	0%	< 20	
DL-Menthol	<LOQ	<LOQ	183	µg/g	0%	< 20	
Terpineol	<LOQ	<LOQ	183	µg/g	0%	< 20	
Nerol	<LOQ	<LOQ	183	µg/g	0%	< 20	
Pulegone	<LOQ	<LOQ	183	µg/g	0%	< 20	
Geraniol	<LOQ	<LOQ	183	µg/g	0%	< 20	
Geranyl_Acetate	<LOQ	<LOQ	183	µg/g	0%	< 20	
a-Cedrene	<LOQ	<LOQ	183	µg/g	0%	< 20	
b-Caryophyllene	<LOQ	<LOQ	183	µg/g	0%	< 20	
a-Humulene	<LOQ	<LOQ	183	µg/g	0%	< 20	
Valenene	<LOQ	<LOQ	183	µg/g	0%	< 20	
cis-Nerolidol	<LOQ	<LOQ	183	µg/g	0%	< 20	
a-Farnesene	<LOQ	<LOQ	183	µg/g	0%	< 20	
trans-Nerolidol	<LOQ	<LOQ	183	µg/g	0%	< 20	
Caryophyllene_Oxide	<LOQ	<LOQ	183	µg/g	0%	< 20	
Guaiol	<LOQ	<LOQ	183	µg/g	0%	< 20	
Cedrol	<LOQ	<LOQ	183	µg/g	0%	< 20	
a-Bisabolol	<LOQ	<LOQ	183	µg/g	0%	< 20	

Definitions

RPD Relative Percent Difference

Formulas

$$\text{Relative Percent Difference} = \frac{|\text{Sample Result } \mu\text{g/g} - \text{Duplicate Result } \mu\text{g/g}|}{\frac{\text{Sample Result } \mu\text{g/g} + \text{Duplicate Result } \mu\text{g/g}}{2}} \times 100\%$$



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Report Number: 21-006454/D004.R000
 Report Date: 06/17/2021
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 Purchase Order:
 Received: 06/10/21 10:56

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

Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg			Batch ID: 2105321			
Method Blank		Laboratory Control Sample						
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Acephate	0.000	< 0.250		1.105	1.000	110.5	65.5 - 122	
Acequinocyl	0.000	< 1.000		4.508	4.000	112.7	63.1 - 117	
Acetamiprid	0.000	< 0.100		0.446	0.400	111.5	69.1 - 128	
Aldicarb	0.000	< 0.200		0.879	0.800	109.9	66.8 - 124	
Abamectin	0.000	< 0.250		1.073	1.000	107.3	70.4 - 131	
Azoxystrobin	0.000	< 0.100		0.443	0.400	110.8	67.9 - 126	
Bifenazate	0.000	< 0.100		0.444	0.400	111.1	69.8 - 130	
Bifenthrin	0.001	< 0.100		0.418	0.400	104.6	67.9 - 126	
Boscalid	0.000	< 0.200		0.955	0.800	119.3	69.6 - 129	
Carbaryl	0.000	< 0.100		0.451	0.400	112.6	69.1 - 128	
Carbofuran	0.000	< 0.100		0.441	0.400	110.2	67.8 - 126	
Chlorantraniliprol	0.000	< 0.100		0.342	0.400	85.6	70.5 - 131	
Chlorfenapyr	0.000	< 0.500		2.121	2.000	106.0	69.9 - 130	
Chlorpyrifos	0.000	< 0.100		0.412	0.400	102.9	67.6 - 126	
Clofentezine	0.000	< 0.100		0.301	0.400	75.4	35.5 - 65.9	Q1
Cyfluthrin	0.000	< 0.500		2.181	2.000	109.0	70.8 - 131	
Cypermethrin	0.016	< 0.500		2.150	2.000	107.5	70.6 - 131	
Daminozide	0.017	< 0.500		0.847	2.000	42.4	24.7 - 45.9	
Diazinon	0.000	< 0.100		0.468	0.400	117.0	69.0 - 128	
Dichlorvos	0.000	< 0.500		2.438	2.000	121.9	76.0 - 141	
Dimethoat	0.000	< 0.100		0.447	0.400	111.7	67.8 - 126	
Ethoprophos	0.000	< 0.100		0.449	0.400	112.3	69.1 - 128	
Etofenprox	0.000	< 0.200		0.857	0.800	107.2	69.1 - 128	
Etoxazol	0.000	< 0.100		0.480	0.400	119.9	75.3 - 140	
Fenoxycarb	0.000	< 0.100		0.455	0.400	113.7	68.7 - 128	
Fenpyroximat	0.000	< 0.200		0.829	0.800	103.6	65.9 - 122	
Fipronil	0.000	< 0.200		0.883	0.800	110.4	67.7 - 126	
Flonicamid	0.000	< 0.250		1.127	1.000	112.7	70.2 - 130	
Fludioxonil	0.000	< 0.200		0.852	0.800	106.5	68.8 - 128	
Hexythiazox	0.000	< 0.250		1.095	1.000	109.5	66.4 - 123	
Imazail	0.000	< 0.100		0.459	0.400	114.7	69.0 - 128	
Imidacloprid	0.000	< 0.200		0.912	0.800	114.0	69.3 - 129	
Kresoxim-Methyl	0.000	< 0.200		0.897	0.800	112.1	69.7 - 129	
Malathion	0.000	< 0.100		0.447	0.400	111.8	68.7 - 128	
Metaxyl	0.000	< 0.100		0.449	0.400	112.3	67.9 - 126	
Methiocarb	0.000	< 0.100		0.435	0.400	108.8	69.8 - 130	
Methomyl	0.000	< 0.200		0.897	0.800	112.1	68.8 - 128	
MGK 264	0.000	< 0.100		0.444	0.400	111.0	68.4 - 127	
Myclobutanil	0.000	< 0.100		0.455	0.400	113.8	68.1 - 127	
Naled	0.000	< 0.250		0.632	1.000	63.2	31.2 - 57.9	Q1
Oxamyl	0.000	< 0.500		2.730	2.000	136.5	68.5 - 127	Q1
Paclobutrazol	0.000	< 0.200		0.919	0.800	114.9	68.2 - 127	
Parathion Methyl	0.000	< 0.200		1.104	0.800	138.0	67.9 - 126	Q1
Permethrin	0.000	< 0.100		0.427	0.400	106.9	67.7 - 126	
Phosmet	0.000	< 0.100		0.457	0.400	114.3	68.9 - 128	
Piperonyl butoxide	0.000	< 0.500		2.163	2.000	108.1	68.6 - 127	
Prallethrin	0.000	< 0.100		0.424	0.400	106.0	68.6 - 127	
Propiconazole	0.000	< 0.200		0.902	0.800	112.8	69.1 - 128	
Propoxur	0.000	< 0.100		0.455	0.400	113.6	67.3 - 125	
Pyrethrins	0.000	< 0.100		0.514	0.413	124.4	68.2 - 127	
Pyridaben	0.000	< 0.100		0.462	0.400	115.4	69.1 - 128	
Spinosad	0.000	< 0.100		0.433	0.388	111.7	71.4 - 133	
Spiromesifen	0.000	< 0.100		0.427	0.400	106.8	69.6 - 129	
Spirotetramat	0.000	< 0.100		0.437	0.400	109.3	68.1 - 126	
Spiroxamine	0.000	< 0.200		0.882	0.800	110.3	68.1 - 127	
Tebuconazol	0.000	< 0.200		0.895	0.800	111.9	68.3 - 127	
Thiadoprid	0.000	< 0.100		0.443	0.400	110.8	68.6 - 127	
Thiamethoxam	0.000	< 0.100		0.465	0.400	116.2	69.0 - 128	
Trifloxystrobin	0.000	< 0.100		0.415	0.400	103.8	68.2 - 127	



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Report Number: 21-006454/D004.R000
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 Received: 06/10/21 10:56

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

Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg					Batch ID: 2105321				
Matrix Spike/Matrix Spike Duplicate Recoveries		Sample ID: 21-006450-0001									
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes	
Acephate	0.000	0.966	0.980	1.000	1.5%	< 30	96.6%	98.0%	50 - 150		
Acetaminophen	0.000	4.905	4.034	4.000	19.5%	< 30	122.6%	100.9%	50 - 150		
Acetamiprid	0.000	0.562	0.545	0.400	2.9%	< 30	140.4%	136.4%	50 - 150		
Aldicarb	0.000	1.004	0.999	0.800	0.4%	< 30	125.4%	124.9%	50 - 150		
Abamectin	0.000	0.906	1.008	1.000	10.7%	< 30	90.6%	100.8%	50 - 150		
Azoxystrobin	0.000	0.476	0.470	0.400	1.2%	< 30	119.0%	117.6%	50 - 150		
Bifenazate	0.000	0.504	0.503	0.400	0.2%	< 30	126.0%	125.8%	50 - 150		
Bifenthrin	0.001	0.442	0.429	0.400	2.9%	< 30	110.3%	107.1%	50 - 150		
Boscalid	0.000	0.996	0.947	0.800	5.0%	< 30	124.5%	118.4%	50 - 150		
Carbaryl	0.000	0.522	0.540	0.400	3.5%	< 30	130.4%	135.1%	50 - 150		
Carbofuran	0.000	0.521	0.509	0.400	2.2%	< 30	130.2%	127.4%	50 - 150		
Chlorantraniliprol	0.000	0.360	0.384	0.400	6.4%	< 30	90.0%	95.9%	50 - 150		
Chlorfenapyr	0.000	2.542	2.310	2.000	9.6%	< 30	127.1%	115.5%	50 - 150		
Chlorpyrifos	0.000	0.477	0.473	0.400	0.9%	< 30	119.3%	118.3%	50 - 150		
Clofentezine	0.000	0.077	0.075	0.400	1.7%	< 30	19.2%	18.8%	50 - 150	Q	
Cyfluthrin	0.000	2.562	2.509	2.000	2.1%	< 30	128.1%	125.4%	30 - 150		
Cypermethrin	0.000	2.193	2.219	2.000	1.2%	< 30	109.7%	110.9%	50 - 150		
Daminozide	0.000	0.305	0.294	2.000	3.4%	< 30	15.2%	14.7%	30 - 150	Q	
Diazinon	0.000	0.498	0.486	0.400	2.3%	< 30	124.4%	121.5%	50 - 150		
Dichlorvos	0.000	2.397	2.505	2.000	4.4%	< 30	119.8%	125.3%	50 - 150		
Dimethoat	0.000	0.520	0.513	0.400	1.4%	< 30	130.1%	128.3%	50 - 150		
Ethoprophos	0.000	0.469	0.474	0.400	1.0%	< 30	117.2%	118.5%	50 - 150		
Etofenprox	0.000	0.894	0.903	0.800	1.0%	< 30	111.8%	112.9%	50 - 150		
Etoxazol	0.000	0.573	0.541	0.400	5.7%	< 30	143.3%	135.3%	50 - 150		
Fenoxycarb	0.000	0.524	0.511	0.400	2.5%	< 30	130.9%	127.7%	50 - 150		
Fenpyroximat	0.000	0.780	0.786	0.800	0.7%	< 30	97.6%	98.2%	50 - 150		
Fipronil	0.000	1.016	1.019	0.800	0.2%	< 30	127.1%	127.4%	50 - 150		
Flonicamid	0.000	1.134	1.108	1.000	2.3%	< 30	113.4%	110.8%	50 - 150		
Fludioxonil	0.000	0.854	0.825	0.800	3.5%	< 30	106.8%	103.1%	50 - 150		
Hexythiazox	0.000	2.216	2.246	1.000	1.3%	< 30	221.6%	224.6%	50 - 150	Q1	
Imazail	0.000	0.644	0.638	0.400	0.9%	< 30	161.0%	159.5%	50 - 150	Q1	
Imidacloprid	0.000	0.681	0.671	0.800	1.5%	< 30	85.2%	83.9%	50 - 150		
Kresoxim-Methyl	0.000	1.066	1.034	0.800	3.0%	< 30	133.2%	129.3%	50 - 150		
Malathion	0.000	0.519	0.514	0.400	0.9%	< 30	129.7%	128.5%	50 - 150		
Metaxyl	0.000	0.541	0.537	0.400	0.8%	< 30	135.3%	134.2%	50 - 150		
Methiocarb	0.000	0.477	0.482	0.400	1.0%	< 30	119.3%	120.5%	50 - 150		
Methomyl	0.000	0.912	0.917	0.800	0.6%	< 30	113.9%	114.6%	50 - 150		
MGK 264	0.000	0.495	0.493	0.400	0.4%	< 30	123.8%	123.4%	50 - 150		
Myclobutanil	0.000	0.493	0.500	0.400	1.4%	< 30	123.1%	124.9%	50 - 150		
Naled	0.000	1.160	1.185	1.000	2.1%	< 30	116.0%	118.5%	50 - 150		
Oxamyl	0.000	2.750	2.745	2.000	0.2%	< 30	137.5%	137.2%	50 - 150		
Paclobutrazol	0.000	1.154	1.179	0.800	2.1%	< 30	144.3%	147.4%	50 - 150		
Parathion Methyl	0.000	1.122	1.157	0.800	3.1%	< 30	140.2%	144.7%	30 - 150		
Permethrin	0.000	0.410	0.414	0.400	0.9%	< 30	102.5%	103.4%	50 - 150		
Phosmet	0.000	0.537	0.536	0.400	0.3%	< 30	134.4%	133.9%	50 - 150		
Piperonyl butoxide	0.000	2.280	2.292	2.000	0.5%	< 30	114.0%	114.6%	50 - 150		
Prallethrin	0.000	0.570	0.562	0.400	1.4%	< 30	142.6%	140.6%	50 - 150		
Propiconazole	0.000	0.968	0.966	0.800	0.3%	< 30	121.0%	120.7%	50 - 150		
Propoxur	0.000	0.523	0.517	0.400	1.3%	< 30	130.8%	129.1%	50 - 150		
Pyrethrins	0.000	0.498	0.504	0.413	1.3%	< 30	120.5%	122.0%	50 - 150		
Pyridaben	0.000	0.638	0.638	0.400	0.0%	< 30	159.5%	159.5%	50 - 150	Q1	
Spinosad	0.000	0.437	0.440	0.388	0.6%	< 30	112.6%	113.3%	50 - 150		
Spiromesifen	0.000	0.731	0.725	0.400	0.9%	< 30	182.7%	181.1%	50 - 150	Q1	
Spirotetramat	0.000	0.375	0.385	0.400	2.6%	< 30	93.8%	96.3%	50 - 150		
Spiroxamine	0.000	1.141	1.143	0.800	0.2%	< 30	142.6%	142.8%	50 - 150		
Tebuconazole	0.000	0.994	0.990	0.800	0.4%	< 30	124.3%	123.8%	50 - 150		
Thiadoprid	0.000	0.540	0.530	0.400	1.9%	< 30	135.1%	132.5%	50 - 150		
Thiamethoxam	0.000	0.506	0.542	0.400	7.0%	< 30	126.4%	135.5%	50 - 150		
Trifloxystrobin	0.006	0.425	0.433	0.400	1.9%	< 30	104.5%	106.6%	50 - 150		



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Report Number: 21-006454/D004.R000
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Received: 06/10/21 10:56

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

Laboratory Quality Control Results

J AOAC 2015 V98-6 Batch ID: 2105329

Laboratory Control Sample							
Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	0.00929	0.01	%	92.9	85.0 - 115	Acceptable	
CBDV	0.00991	0.01	%	99.1	85.0 - 115	Acceptable	
CBE	0.00949	0.01	%	94.9	85.0 - 115	Acceptable	
CBDA	0.00971	0.01	%	97.1	85.0 - 115	Acceptable	
CBGA	0.00934	0.01	%	93.4	85.0 - 115	Acceptable	
CBG	0.0103	0.01	%	103	85.0 - 115	Acceptable	
CBD	0.0104	0.01	%	104	85.0 - 115	Acceptable	
THCV	0.00996	0.01	%	99.6	85.0 - 115	Acceptable	
d8THCV	0.00963	0.01	%	96.3	85.0 - 115	Acceptable	
THCVA	0.00899	0.01	%	89.9	85.0 - 115	Acceptable	
CBN	0.0106	0.01	%	106	85.0 - 115	Acceptable	
exo-THC	0.00933	0.01	%	93.3	85.0 - 115	Acceptable	
d9THC	0.0106	0.01	%	106	85.0 - 115	Acceptable	
d8THC	0.00983	0.01	%	98.3	85.0 - 115	Acceptable	
CBL	0.00939	0.01	%	93.9	85.0 - 115	Acceptable	
CBC	0.00999	0.01	%	99.9	85.0 - 115	Acceptable	
THCA	0.00936	0.01	%	93.6	85.0 - 115	Acceptable	
CBCA	0.00892	0.01	%	89.2	85.0 - 115	Acceptable	
CBLA	0.0101	0.01	%	101	85.0 - 115	Acceptable	
CBT	0.00976	0.01	%	97.6	85.0 - 115	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.003	%	< 0.003	Acceptable	
CBDV	<LOQ	0.003	%	< 0.003	Acceptable	
CBE	<LOQ	0.003	%	< 0.003	Acceptable	
CBDA	<LOQ	0.003	%	< 0.003	Acceptable	
CBGA	<LOQ	0.003	%	< 0.003	Acceptable	
CBG	<LOQ	0.003	%	< 0.003	Acceptable	
CBD	<LOQ	0.003	%	< 0.003	Acceptable	
THCV	<LOQ	0.003	%	< 0.003	Acceptable	
d8THCV	<LOQ	0.003	%	< 0.003	Acceptable	
THCVA	<LOQ	0.003	%	< 0.003	Acceptable	
CBN	<LOQ	0.003	%	< 0.003	Acceptable	
exo-THC	<LOQ	0.003	%	< 0.003	Acceptable	
d9THC	<LOQ	0.003	%	< 0.003	Acceptable	
d8THC	<LOQ	0.003	%	< 0.003	Acceptable	
CBL	<LOQ	0.003	%	< 0.003	Acceptable	
CBC	<LOQ	0.003	%	< 0.003	Acceptable	
THCA	<LOQ	0.003	%	< 0.003	Acceptable	
CBCA	<LOQ	0.003	%	< 0.003	Acceptable	
CBLA	<LOQ	0.003	%	< 0.003	Acceptable	
CBT	<LOQ	0.003	%	< 0.003	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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Revision #: 0.00 Control : CFL-D06
 Revision Date: 05/31/2019 Effective Date: 05/31/2019

Laboratory Quality Control Results

J AOAC 2015 V98-6									
Batch ID: 2105329									
Sample Duplicate									
Sample ID: 21-006356-0001-01									
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes	
CBDVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable		
CBDV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable		
CBE	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable		
CBD A	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable		
CBGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable		
CBG	0.111	0.121	0.003	%	8.62	< 20	Acceptable		
CBD	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable		
THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable		
d8THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable		
THCVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable		
CBN	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable		
exo-THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable		
d9THC	0.109	0.119	0.003	%	8.31	< 20	Acceptable		
d8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable		
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable		
CBC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable		
THCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable		
CBCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable		
CBLA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable		
CBT	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable		

Abbreviations

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

Units of Measure:

% - Percent



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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.