



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



Report Number: 24-010742/D004.R000
Report Date: 10/01/2024
ORELAP#: OR100028
Purchase Order:
Received: 09/24/24 11:17

Customer: Seventh Hill Releaf LLC
Product identity: 6-1-1 Gummy Caramel
Client/Metric ID: .
Laboratory ID: 24-010742-0004

Summary

Potency:

Analyte	Result	Limits	Units	Status	
CBD	0.00538		%		Delta-9-THC-Total per 28.2 mg/17g
CBG	0.00445		%		
Δ9-THC	0.166		%		CBD-Total per Serving Size <LOQ
					(Reported in milligrams per serving)
Analyte per 17g	Result	Limits	Units	Status	
CBD per 17g	0.915		mg/17g		
CBG per 17g	0.757		mg/17g		
Δ9-THC per 17g	28.2		mg/17g		

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

All analytes passing and less than LOQ.

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.



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Customer: Seventh Hill Releaf LLC
 215 S 19th St
 Springfield Oregon 97477
 United States of America (USA)

Product identity: 6-1-1 Gummy Caramel

Client/Metric ID: .

Sample Date:

Laboratory ID: 24-010742-0004

Evidence of Cooling: No

Temp: 23 °C

Relinquished by: shipping

Serving Size #1: 17 g

Sample Results

Potency	Method: J AOAC 2015 V98-6 (mod) ^b	Units %	Batch: 2407447	Analyze: 9/26/24 2:17:00 AM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC	< LOQ		%	0.00331	
CBC-A	< LOQ		%	0.00331	
CBC-Total	< LOQ		%	0.00622	
CBD [±]	0.00538		%	0.00331	
CBD-A [±]	< LOQ		%	0.00331	
CBD-Total [±]	< LOQ		%	0.00622	
CBDV	< LOQ		%	0.00331	
CBDV-A	< LOQ		%	0.00331	
CBDV-Total	< LOQ		%	0.00618	
CBE	< LOQ		%	0.00331	
CBG	0.00445		%	0.00331	
CBG-A	< LOQ		%	0.00331	
CBG-Total	< LOQ		%	0.00618	
CBL	< LOQ		%	0.00331	
CBL-A	< LOQ		%	0.00331	
CBL-Total	< LOQ		%	0.00622	
CBN	< LOQ		%	0.00331	
CBT	< LOQ		%	0.00331	
Δ10-THC-9R	< LOQ		%	0.00331	
Δ10-THC-9S	< LOQ		%	0.00331	
Δ10-THC-Total	< LOQ		%	0.00662	
Δ8-THC [±]	< LOQ		%	0.00331	
Δ8-THCV	< LOQ		%	0.00331	
Δ9-THC [±]	0.166		%	0.00331	
Δ9-THC-A [±]	< LOQ		%	0.00331	
Δ9-THC-Total [±]	0.166		%	0.00622	
Δ9-THCP	< LOQ		%	0.00331	
Δ9-THCV	< LOQ		%	0.00331	
Δ9-THCV-A	< LOQ		%	0.00331	
Δ9-THCV-Total	< LOQ		%	0.00618	



Potency	Method: J AOAC 2015 V98-6 (mod) ^b	Units %	Batch: 2407447	Analyze: 9/26/24 2:17:00 AM	
Analyte	Result	Limits	Units	LOQ	Notes
exo-THC	< LOQ		%	0.00331	
Total Cannabinoids	0.176		%		

Potency per 17g	Method: J AOAC 2015 V98-6 (mod) ^b	Units mg/se	Batch: 2407447	Analyze: 9/26/24 2:17:00 AM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 17g	< LOQ		mg/17g	0.563	
CBC-A per 17g	< LOQ		mg/17g	0.563	
CBC-Total per 17g	< LOQ		mg/17g	1.06	
CBD per 17g	0.915		mg/17g	0.563	
CBD-A per 17g ¹	< LOQ		mg/17g	0.563	
CBD-Total per 17g ¹	< LOQ		mg/17g	1.06	
CBDV per 17g	< LOQ		mg/17g	0.563	
CBDV-A per 17g	< LOQ		mg/17g	0.563	
CBDV-Total per 17g	< LOQ		mg/17g	1.05	
CBE per 17g	< LOQ		mg/17g	0.563	
CBG per 17g	0.757		mg/17g	0.563	
CBG-A per 17g	< LOQ		mg/17g	0.563	
CBG-Total per 17g	< LOQ		mg/17g	1.05	
CBL per 17g	< LOQ		mg/17g	0.563	
CBL-A per 17g	< LOQ		mg/17g	0.563	
CBL-Total per 17g	< LOQ		mg/17g	1.06	
CBN per 17g	< LOQ		mg/17g	0.563	
CBT per 17g	< LOQ		mg/17g	0.563	
Δ10-THC-9R per 17g	< LOQ		mg/17g	0.563	
Δ10-THC-9S per 17g	< LOQ		mg/17g	0.563	
Δ10-THC-Total per 17g	< LOQ		mg/17g	1.13	
Δ8-THC per 17g ¹	< LOQ		mg/17g	0.563	
Δ8-THCV per 17g	< LOQ		mg/17g	0.563	
Δ9-THC per 17g ¹	28.2		mg/17g	0.563	
Δ9-THC-Total per 17g	28.2		mg/17g	1.06	
Δ9-THCP per 17g	< LOQ		mg/17g	0.563	
Δ9-THCV per 17g	< LOQ		mg/17g	0.563	
Δ9-THCV-A per 17g	< LOQ		mg/17g	0.563	
Δ9-THCV-Total per 17g	< LOQ		mg/17g	1.06	
exo-THC per 17g	< LOQ		mg/17g	0.563	
THC-A per 17g ¹	< LOQ		mg/17g	0.563	
Total Cannabinoids per 17g	29.9		mg/17g		

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2407387	09/27/24 AOAC 991.14 (Petrifilm)		
Total Coliforms	< LOQ		cfu/g	10	2407387	09/27/24 AOAC 991.14 (Petrifilm)		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2407388	09/28/24 AOAC 2014.05 (RAPID)		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2407388	09/28/24 AOAC 2014.05 (RAPID)		



Solvents											
Method: Residual Solvents by HS-GC-MS ^b Units µg/g Batch 2407455 Analyze 09/26/24 11:19 AM											
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
1,4-Dioxane [⊥]	< LOQ		100			2-Butanol [⊥]	< LOQ		200		
2-Ethoxyethanol [⊥]	< LOQ		30.0			2-Methylbutane (Isopentane) [⊥]	< LOQ		200		
2-Methylpentane [⊥]	< LOQ		30.0			2-Propanol (IPA) [⊥]	< LOQ		200		
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		200			Acetonitrile [⊥]	< LOQ		100		
Benzene [⊥]	< LOQ		1.00			Butanes (sum) [⊥]	< LOQ		400		
Cyclohexane [⊥]	< LOQ		200			Ethyl acetate [⊥]	< LOQ		200		
Ethyl benzene	< LOQ		200			Ethyl ether [⊥]	< LOQ		200		
Ethylene glycol [⊥]	< LOQ		200			Ethylene oxide [⊥]	< LOQ		20.0		
Hexanes (sum) [⊥]	< LOQ		150			Isopropyl acetate [⊥]	< LOQ		200		
Isopropylbenzene (Cumene) [⊥]	< LOQ		30.0			m,p-Xylene [⊥]	< LOQ		200		
Methanol [⊥]	< LOQ		200			Methylene chloride [⊥]	< LOQ		60.0		
Methylpropane (Isobutane) [⊥]	< LOQ		200			n-Butane [⊥]	< LOQ		200		
n-Heptane [⊥]	< LOQ		200			n-Hexane [⊥]	< LOQ		30.0		
n-Pentane [⊥]	< LOQ		200			o-Xylene [⊥]	< LOQ		200		
Pentanes (sum)	< LOQ		600			Propane	< LOQ		200		
Tetrahydrofuran [⊥]	< LOQ		100			Toluene [⊥]	< LOQ		100		
Total Xylenes [⊥]	< LOQ		400			Total Xylenes and Ethyl benzene	< LOQ		600		



Pesticides											
Method: AOAC 2007.01 & EN 15662 (mod)						Units mg/kg		Batch 2407457		Analyze 09/26/24 11:38 AM	
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin [±]	< LOQ		0.250			Acephate	< LOQ		0.200		
Acequinocyl [±]	< LOQ		1.00			Acetamiprid	< LOQ		0.100		
Aldicarb [±]	< LOQ		0.200			Azoxystrobin [±]	< LOQ		0.100		
Bifenazate [±]	< LOQ		0.100			Bifenthrin [±]	< LOQ		0.100		
Boscalid [±]	< LOQ		0.200			Carbaryl [±]	< LOQ		0.100		
Carbofuran [±]	< LOQ		0.100			Chlorantraniliprole [±]	< LOQ		0.100		
Chlorfenapyr [±]	< LOQ		0.500			Chlorpyrifos-ethyl [±]	< LOQ		0.100		
Clofentezine [±]	< LOQ		0.100			Cyfluthrin (sum) [±]	< LOQ		0.500		
Cypermethrin and	< LOQ		0.500			Daminozide [±]	< LOQ		0.500		
Diazinon [±]	< LOQ		0.100			Dichlorvos [±]	< LOQ		0.500		
Dimethoate [±]	< LOQ		0.100			Ethoprophos [±]	< LOQ		0.100		
Etofenprox [±]	< LOQ		0.200			Etoxazole [±]	< LOQ		0.100		
Fenoxycarb [±]	< LOQ		0.100			Fenpyroximate [±]	< LOQ		0.200		
Fipronil [±]	< LOQ		0.200			Flonicamid [±]	< LOQ		0.400		
Fludioxonil [±]	< LOQ		0.200			Hexythiazox [±]	< LOQ		0.400		
Imazalil [±]	< LOQ		0.100			Imidacloprid [±]	< LOQ		0.200		
Kresoxim-methyl [±]	< LOQ		0.200			Malathion [±]	< LOQ		0.100		
Metalaxyl [±]	< LOQ		0.100			Methiocarb [±]	< LOQ		0.100		
Methomyl [±]	< LOQ		0.200			MGK-264 [±]	< LOQ		0.100		
Myclobutanil [±]	< LOQ		0.100			Naled [±]	< LOQ		0.250		
Oxamyl [±]	< LOQ		0.500			Paclobutrazole [±]	< LOQ		0.200		
Parathion-methyl [±]	< LOQ		0.100			Permethrin [±]	< LOQ		0.100		
Phosmet [±]	< LOQ		0.100			Piperonyl butoxide [±]	< LOQ		1.00		
Prallethrin [±]	< LOQ		0.100			Propiconazole [±]	< LOQ		0.200		
Propoxur [±]	< LOQ		0.100			Pyrethrin I (total) [±]	< LOQ		0.500		
Pyridaben [±]	< LOQ		0.100			Spinosad [±]	< LOQ		0.100		
Spiromesifen [±]	< LOQ		0.100			Spirotetramat [±]	< LOQ		0.100		
Spiroxamine [±]	< LOQ		0.200			Tebuconazole [±]	< LOQ		0.200		
Thiacloprid [±]	< LOQ		0.100			Thiamethoxam [±]	< LOQ		0.100		
Trifloxystrobin [±]	< LOQ		0.100								

Metals										
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed	Method	Status	Notes	
Arsenic [±]	< LOQ		mg/kg	0.0171	2407535	09/27/24	AOAC 2013.06 (mod.) ^p			
Cadmium [±]	< LOQ		mg/kg	0.0171	2407535	09/27/24	AOAC 2013.06 (mod.) ^p			
Lead [±]	< LOQ		mg/kg	0.0171	2407535	09/27/24	AOAC 2013.06 (mod.) ^p			
Mercury [±]	< LOQ		mg/kg	0.00853	2407535	09/27/24	AOAC 2013.06 (mod.) ^p			



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Mycotoxins

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Aflatoxin B1 [±]	< LOQ		µg/kg	5.00	2407532	09/30/24 AOAC 2007.01 & EN 15662 (mod)		
Aflatoxin B2 [±]	< LOQ		µg/kg	5.00	2407532	09/30/24 AOAC 2007.01 & EN 15662 (mod)		
Aflatoxin G1 [±]	< LOQ		µg/kg	5.00	2407532	09/30/24 AOAC 2007.01 & EN 15662 (mod)		
Aflatoxin G2 [±]	< LOQ		µg/kg	5.00	2407532	09/30/24 AOAC 2007.01 & EN 15662 (mod)		
Ochratoxin A [±]	< LOQ		µg/kg	5.00	2407532	09/30/24 AOAC 2007.01 & EN 15662 (mod)		
Total Aflatoxins	< LOQ		µg/kg	20.0		10/01/24 AOAC 2007.01 & EN 15662 (mod) ^P		



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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.

^p = ISO/IEC 17025:2017 accredited method.

[⊥] = TNI accredited analyte.

Units of Measure

cfu/g = Colony forming units per gram

g = Gram

µg/g = Microgram per gram

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

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

mg/17g = Milligram per 17g

% = Percentage of sample

% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner
General Manager



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Hemp & Cannabis
 Chain of Custody

Seventh-Hill-CBD-
 1727115653

Company Details Company: <u>Seventh Hill CBD</u> Contact: <u>Jordan Dunn</u> Street Address: <u>215 South 19th Street</u> City, State, Zip: <u>Spring</u>								

Relinquished By	Date	Time	Received By	Date	Time	Received Temp., °C	Evidence of Cooling?
<i>Jordan Taylor Dunn</i>	<i>09/23/2024</i>	<i>11:20</i>	<i>evm</i>	<i>09/24/2024</i>	<i>11:17</i>	<i>23.00</i>	<i>No</i>



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Revision: 4 Document ID: 7148
Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2407447**

Laboratory Control Sample										
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes	
CBDVA	2	0.0313	0.0309	%	101	80.0	- 120	Acceptable		
CBDV	2	0.0280	0.0289	%	96.8	80.0	- 120	Acceptable		
CBE	2	0.0350	0.0352	%	99.6	80.0	- 120	Acceptable		
CBDA	1	0.0361	0.0358	%	101	90.0	- 110	Acceptable		
CBGA	1	0.0355	0.0351	%	101	80.0	- 120	Acceptable		
CBG	1	0.0318	0.0314	%	101	80.0	- 120	Acceptable		
CBD	1	0.0350	0.0351	%	99.8	90.0	- 110	Acceptable		
THCV	2	0.0335	0.0338	%	99.1	80.0	- 120	Acceptable		
d8THCV	2	0.0349	0.0348	%	100	80.0	- 120	Acceptable		
THCVA	2	0.0306	0.0308	%	99.3	80.0	- 120	Acceptable		
CBN	1	0.0354	0.0352	%	101	80.0	- 120	Acceptable		
exo-THC	2	0.0317	0.0326	%	97.3	80.0	- 120	Acceptable		
d9THC	1	0.0333	0.0337	%	98.8	90.0	- 110	Acceptable		
d8THC	1	0.0278	0.0284	%	97.9	90.0	- 110	Acceptable		
9S-d10THC	1	0.0344	0.0354	%	97.2	80.0	- 120	Acceptable		
CBL	2	0.0300	0.0307	%	97.5	80.0	- 120	Acceptable		
9R-d10THC	1	0.0352	0.0365	%	96.5	80.0	- 120	Acceptable		
CBC	2	0.0336	0.0347	%	96.9	80.0	- 120	Acceptable		
THCA	1	0.0366	0.0359	%	102	90.0	- 110	Acceptable		
CBCA	2	0.0311	0.0321	%	96.8	80.0	- 120	Acceptable		
CBLA	2	0.0311	0.0325	%	95.7	80.0	- 120	Acceptable		
d9THCP	2	0.0305	0.0322	%	94.7	80.0	- 120	Acceptable		
CBT	2	0.0307	0.0334	%	91.7	80.0	- 120	Acceptable		

Method Blank							
Analyte	Result	LOQ	Units	Limits	Evaluation	Notes	
CBDVA	<LOQ	0.00327	%	< 0.00327	Acceptable		
CBDV	<LOQ	0.00327	%	< 0.00327	Acceptable		
CBE	<LOQ	0.00327	%	< 0.00327	Acceptable		
CBDA	<LOQ	0.00327	%	< 0.00327	Acceptable		
CBGA	<LOQ	0.00327	%	< 0.00327	Acceptable		
CBG	<LOQ	0.00327	%	< 0.00327	Acceptable		
CBD	<LOQ	0.00327	%	< 0.00327	Acceptable		
THCV	<LOQ	0.00327	%	< 0.00327	Acceptable		
d8THCV	<LOQ	0.00327	%	< 0.00327	Acceptable		
THCVA	<LOQ	0.00327	%	< 0.00327	Acceptable		
CBN	<LOQ	0.00327	%	< 0.00327	Acceptable		
exo-THC	<LOQ	0.00327	%	< 0.00327	Acceptable		
d9THC	<LOQ	0.00327	%	< 0.00327	Acceptable		
d8THC	<LOQ	0.00327	%	< 0.00327	Acceptable		
9S-d10THC	<LOQ	0.00327	%	< 0.00327	Acceptable		
CBL	<LOQ	0.00327	%	< 0.00327	Acceptable		
9R-d10THC	<LOQ	0.00327	%	< 0.00327	Acceptable		
CBC	<LOQ	0.00327	%	< 0.00327	Acceptable		
THCA	<LOQ	0.00327	%	< 0.00327	Acceptable		
CBCA	<LOQ	0.00327	%	< 0.00327	Acceptable		
CBLA	<LOQ	0.00327	%	< 0.00327	Acceptable		
d9THCP	<LOQ	0.00327	%	< 0.00327	Acceptable		
CBT	<LOQ	0.00327	%	< 0.00327	Acceptable		

Abbreviations

ND - None Detected at or above MRL
RPD - Relative Percent Difference
LOQ - Limit of Quantitation

Units of Measure:

% - Percent



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Laboratory Quality Control Results

AOAC 2015 V98-6		Batch ID: 2407447						
Sample Duplicate		Sample ID: 24-010717-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00309	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.00309	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.00309	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.00309	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.00309	%	NA	< 20	Acceptable	
CBG	0.227	0.226	0.00309	%	0.337	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.00309	%	NA	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.00309	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.00309	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00309	%	NA	< 20	Acceptable	
CBN	0.00320	0.00315	0.00309	%	1.65	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00309	%	NA	< 20	Acceptable	
d9THC	0.257	0.256	0.00309	%	0.498	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.00309	%	NA	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.00309	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.00309	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.00309	%	NA	< 20	Acceptable	
CBC	0.257	0.256	0.00309	%	0.243	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00309	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.00309	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.00309	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00309	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.00309	%	NA	< 20	Acceptable	

Abbreviations

ND - None Detected at or above MRL
 RPD - Relative Percent Difference
 LOQ - Limit of Quantitation

Units of Measure:

% - Percent


Laboratory Quality Control Results

Residual Solvents				Batch ID: 2407455					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		435	585	µg/g	74.4	60 - 120	
Isobutane	ND	< 200		559	770	µg/g	72.6	60 - 120	
Butane	ND	< 200		570	769	µg/g	74.1	60 - 120	
2,2-Dimethylpropane	ND	< 200		706	956	µg/g	73.8	60 - 120	
Methanol	ND	< 200		1320	1630	µg/g	81.0	60 - 120	
Ethylene Oxide	ND	< 30		43.9	57.7	µg/g	76.1	60 - 120	
2-Methylbutane	ND	< 200		1270	1620	µg/g	78.4	60 - 120	
Pentane	ND	< 200		1250	1620	µg/g	77.2	60 - 120	
Ethanol	ND	< 200		1350	1620	µg/g	83.3	70 - 130	
Ethyl Ether	ND	< 200		1480	1620	µg/g	91.4	60 - 120	
2,2-Dimethylbutane	ND	< 30		144	179	µg/g	80.4	60 - 120	
Acetone	ND	< 200		1300	1620	µg/g	80.2	60 - 120	
2-Propanol	ND	< 200		1310	1620	µg/g	80.9	60 - 120	
Ethyl Formate	ND	< 500		1170	1610	µg/g	72.7	70 - 130	
Acetonitrile	ND	< 100		391	502	µg/g	77.9	60 - 120	
Methyl Acetate	ND	< 500		1390	1610	µg/g	86.3	70 - 130	
2,3-Dimethylbutane	ND	< 30		147	180	µg/g	81.7	60 - 120	
Dichloromethane	ND	< 60		434	533	µg/g	81.4	60 - 120	
2-Methylpentane	ND	< 30		151	181	µg/g	83.4	60 - 120	
MTBE	ND	< 500		1330	1600	µg/g	83.1	70 - 130	
3-Methylpentane	ND	< 30		148	177	µg/g	83.6	60 - 120	
Hexane	ND	< 30		147	182	µg/g	80.8	60 - 120	
1-Propanol	ND	< 500		1310	1610	µg/g	81.4	70 - 130	
Methylethylketone	ND	< 500		1350	1600	µg/g	84.4	70 - 130	
Ethyl acetate	ND	< 200		1330	1620	µg/g	82.1	60 - 120	
2-Butanol	ND	< 200		1320	1630	µg/g	81.0	60 - 120	
Tetrahydrofuran	ND	< 100		411	499	µg/g	82.4	60 - 120	
Cyclohexane	ND	< 200		1280	1610	µg/g	79.5	60 - 120	
2-methyl-1-propanol	ND	< 500		1330	1600	µg/g	83.1	70 - 130	
Benzene	ND	< 1		3.96	5.01	µg/g	79.0	60 - 120	
Isopropyl Acetate	ND	< 200		1310	1620	µg/g	80.9	60 - 120	
Heptane	ND	< 200		1270	1610	µg/g	78.9	60 - 120	
1-Butanol	ND	< 500		1390	1600	µg/g	86.9	70 - 130	
Propyl Acetate	ND	< 500		1410	1600	µg/g	88.1	70 - 130	
1,4-Dioxane	ND	< 100		398	493	µg/g	80.7	60 - 120	
2-Ethoxyethanol	ND	< 30		142	182	µg/g	78.0	60 - 120	
Methylisobutylketone	ND	< 500		1390	1610	µg/g	86.3	70 - 130	
3-Methyl-1-butanol	ND	< 500		1370	1600	µg/g	85.6	70 - 130	
Ethylene Glycol	ND	< 200		322	501	µg/g	64.3	60 - 120	
Toluene	ND	< 100		400	501	µg/g	79.8	60 - 120	
Isobutyl Acetate	ND	< 500		1320	1600	µg/g	82.5	70 - 130	
1-Pentanol	ND	< 500		1320	1600	µg/g	82.5	70 - 130	
Butyl Acetate	ND	< 500		1340	1600	µg/g	83.8	70 - 130	
Ethylbenzene	ND	< 200		756	981	µg/g	77.1	60 - 120	
m,p-Xylene	ND	< 200		728	1000	µg/g	72.8	60 - 120	
o-Xylene	ND	< 200		834	981	µg/g	85.0	60 - 120	
Cumene	ND	< 30		153	177	µg/g	86.4	60 - 120	
Anisole	ND	< 500		1550	1610	µg/g	96.3	70 - 130	
DMSO	ND	< 500		1360	1600	µg/g	85.0	70 - 130	
1,2-dimethoxyethane	ND	< 50		127	161	µg/g	78.9	70 - 130	
Triethylamine	ND	< 500		1310	1600	µg/g	81.9	70 - 130	
N,N-dimethylformamide	ND	< 150		423	484	µg/g	87.4	70 - 130	
N,N-dimethylacetamide	ND	< 150		507	497	µg/g	102.0	70 - 130	
Pyridine	ND	< 50		124	162	µg/g	76.5	70 - 130	
Sulfolane	ND	< 50		128	166	µg/g	77.1	70 - 130	
1,2-Dichloroethane	ND	< 1		0.864	1	µg/g	86.4	70 - 130	
Chloroform	ND	< 1		0.84	1	µg/g	84.0	70 - 130	
Trichloroethylene	ND	< 1		0.841	1	µg/g	84.1	70 - 130	
1,1-Dichloroethane	ND	< 1		0.858	1	µg/g	85.8	70 - 130	



Revision: 2 Document ID: 7087

Legacy ID: CFL-E33Effective:

QC - Sample Duplicate

Sample ID: 24-010616-0001

Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Accept/Fail	Notes
Propane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Isobutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Butane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2,2-Dimethylpropane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Methanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethylene Oxide	ND	ND	30	µg/g	0.0	< 20	Acceptable	
2-Methylbutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Pentane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethyl Ether	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2,2-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Acetone	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Propanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
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	30	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	
Methylethylketone	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Ethyl acetate	370	404	200	µg/g	8.8	< 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	100	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	
1,2-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	
Sulfolane	ND	ND	50	µg/g	0.0	< 20	Acceptable	
1,2-Dichloroethane	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Chloroform	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Trichloroethylene	ND	ND	1	µg/g	0.0	< 20	Acceptable	
1,1-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

Units of Measure:

µg/g- Microgram per gram or ppm


Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg			Batch ID: 2407457			
Method Blank			Laboratory Control Sample					
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Abamectin	0.000	< 0.250		0.981	1.000	98.1	50.0	150
Acephate	0.011	< 0.200		0.685	0.800	85.6	60.0	120
Acequinocyl	0.000	< 1.000		3.338	4.000	83.4	40.0	160
Acetamiprid	0.011	< 0.100		0.370	0.400	92.6	60.0	120
Aldicarb	0.000	< 0.200		0.716	0.800	89.5	60.0	120
Azoxystrobin	0.015	< 0.100		0.352	0.400	87.9	60.0	120
Bifenazate	0.000	< 0.100		0.380	0.400	95.0	60.0	120
Bifenthrin	0.019	< 0.100		0.387	0.400	96.7	50.0	150
Boscalid	0.020	< 0.200		0.734	0.800	91.8	60.0	120
Carbaryl	0.011	< 0.100		0.356	0.400	88.9	60.0	120
Carbofuran	0.010	< 0.100		0.359	0.400	89.9	60.0	120
Chlorantraniliprole	0.009	< 0.100		0.347	0.400	86.7	60.0	120
Chlorfenapyr	0.000	< 0.500		1.856	2.000	92.8	60.0	120
Chlorpyrifos	0.003	< 0.100		0.368	0.400	92.0	60.0	120
Clofentezine	0.014	< 0.100		0.287	0.400	71.8	60.0	120
Cyfluthrin	0.047	< 0.500		1.904	2.000	95.2	50.0	150
Cypermethrin	0.074	< 0.500		1.869	2.000	93.4	50.0	150
Daminozide	0.072	< 0.500		0.760	2.000	38.0	60.0	120
Diazinon	0.007	< 0.100		0.369	0.400	92.3	60.0	120
Dichlorvos	0.060	< 0.500		1.695	2.000	84.7	60.0	120
Dimethoate	0.006	< 0.100		0.364	0.400	90.9	60.0	120
Ethoprophos	0.005	< 0.100		0.363	0.400	90.6	60.0	120
Etofenprox	0.052	< 0.200		0.805	0.800	100.6	50.0	150
Etoxazole	0.004	< 0.100		0.403	0.400	100.7	60.0	120
Fenoxycarb	0.009	< 0.100		0.353	0.400	88.2	60.0	120
Fenpyroximate	0.016	< 0.200		0.744	0.800	93.0	60.0	120
Fipronil	0.034	< 0.200		0.714	0.800	89.2	60.0	120
Flonicamid	0.000	< 0.250		0.871	1.000	87.1	60.0	120
Fludioxonil	0.001	< 0.200		0.745	0.800	93.1	50.0	150
Hexythiazox	0.008	< 0.250		0.941	1.000	94.1	60.0	120
Imazalil	0.008	< 0.100		0.371	0.400	92.8	60.0	120
Imidacloprid	0.045	< 0.200		0.663	0.800	82.8	60.0	120
Kresoxim-methyl	0.021	< 0.200		0.687	0.800	85.9	60.0	120
Malathion	0.000	< 0.100		0.375	0.400	93.9	60.0	120
Metalaxyl	0.000	< 0.100		0.344	0.400	86.0	60.0	120
Methiocarb	0.009	< 0.100		0.355	0.400	88.9	60.0	120
Methomyl	0.000	< 0.200		0.763	0.800	95.3	60.0	120
MGK-264	0.000	< 0.100		0.364	0.400	91.1	50.0	150
Myclobutanil	0.022	< 0.100		0.350	0.400	87.4	60.0	120
Naled	0.000	< 0.250		0.843	1.000	84.3	50.0	150
Oxamyl	0.000	< 0.500		1.862	2.000	93.1	60.0	120
Paclobutrazole	0.021	< 0.200		0.690	0.800	86.3	60.0	120
Parathion-Methyl	0.000	< 0.100		0.350	0.400	87.6	50.0	150
Permethrin	0.013	< 0.100		0.405	0.400	101.2	50.0	150
Phosmet	0.016	< 0.100		0.345	0.400	86.3	50.0	150
Piperonyl butoxide	0.021	< 0.500		2.030	2.000	101.5	60.0	120
Prallethrin	0.000	< 0.100		0.351	0.400	87.7	60.0	120
Propiconazole	0.011	< 0.200		0.724	0.800	90.5	60.0	120
Propoxur	0.006	< 0.100		0.356	0.400	89.1	60.0	120
Pyrethrin (Summe)	0.000	< 0.100		0.231	0.488	47.2	60.0	120
Pyridaben	0.007	< 0.100		0.402	0.400	100.6	50.0	150
Spinosad	0.000	< 0.100		0.350	0.388	90.1	50.0	150
Spiromesifen	0.000	< 0.100		0.386	0.400	96.6	60.0	120
Spiratetramat	0.006	< 0.100		0.374	0.400	93.5	60.0	120

Q7

84.3



Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg					Batch ID: 2407457				
Matrix Spike/Matrix Spike Duplicate Recoveries				Sample ID: 24-010641-0001							
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes	
Abamectin	0.000	0.849	0.906	1.000	6.5%	< 30	84.9%	90.6%	50 - 150		
Acephate	0.000	0.656	0.645	0.800	1.8%	< 30	82.1%	80.6%	50 - 150		
Acequinocyl	0.000	3.375	0.393	4.000	158.3%	< 30	84.4%	9.8%	50 - 150	R,Q	
Acetamiprid	0.000	0.356	0.359	0.400	0.7%	< 30	89.0%	89.7%	50 - 150		
Aldicarb	0.000	0.640	0.649	0.800	1.4%	< 30	80.0%	81.1%	50 - 150		
Azoxystrobin	0.000	0.329	0.319	0.400	3.4%	< 30	82.4%	79.6%	50 - 150		
Bifenazate	0.000	0.346	0.336	0.400	2.9%	< 30	86.5%	84.0%	50 - 150		
Bifenthrin	0.000	0.292	0.190	0.400	42.3%	< 30	73.1%	47.6%	50 - 150	R,Q	
Boscalid	0.000	0.643	0.662	0.800	2.9%	< 30	80.4%	82.7%	50 - 150		
Carbaryl	0.000	0.320	0.324	0.400	1.4%	< 30	79.9%	81.0%	50 - 150		
Carbofuran	0.000	0.327	0.334	0.400	2.0%	< 30	81.8%	83.5%	50 - 150		
Chlorantraniliprole	0.000	0.324	0.335	0.400	3.3%	< 30	81.0%	83.7%	50 - 150		
Chlorfenapyr	0.000	1.340	1.555	2.000	14.9%	< 30	67.0%	77.8%	50 - 150		
Chlorpyrifos	0.000	0.323	0.357	0.400	9.8%	< 30	80.8%	89.2%	50 - 150		
Clofentazine	0.000	0.321	0.304	0.400	5.5%	< 30	80.3%	76.0%	50 - 150		
Cyfluthrin	0.000	1.595	1.611	2.000	1.0%	< 30	79.7%	80.6%	30 - 150		
Cypermethrin	0.000	1.146	1.066	2.000	7.2%	< 30	57.3%	53.3%	50 - 150		
Daminozide	0.000	0.728	0.777	2.000	6.5%	< 30	36.4%	38.9%	30 - 150		
Diazinon	0.000	0.341	0.343	0.400	0.7%	< 30	85.1%	85.7%	50 - 150		
Dichlorvos	0.000	1.675	1.694	2.000	1.1%	< 30	83.7%	84.7%	50 - 150		
Dimethoate	0.000	0.347	0.360	0.400	3.7%	< 30	86.8%	90.0%	50 - 150		
Ethoprophos	0.000	0.328	0.343	0.400	4.5%	< 30	81.9%	85.7%	50 - 150		
Etofenprox	0.000	0.519	0.372	0.800	33.0%	< 30	64.9%	46.5%	50 - 150	R,Q	
Etoxazole	0.000	0.354	0.345	0.400	2.4%	< 30	88.4%	86.2%	50 - 150		
Fenoxycarb	0.000	0.327	0.322	0.400	1.6%	< 30	81.8%	80.5%	50 - 150		
Fenpyroximate	0.000	0.604	0.520	0.800	15.0%	< 30	75.5%	65.0%	50 - 150		
Fipronil	0.000	0.593	0.582	0.800	1.8%	< 30	74.1%	72.8%	50 - 150		
Fonicamid	0.000	0.797	0.877	1.000	9.5%	< 30	79.7%	87.7%	50 - 150		
Fludioxonil	0.000	0.711	0.742	0.800	4.3%	< 30	88.8%	92.7%	50 - 150		
Hexythiazox	0.000	0.643	0.635	1.000	1.2%	< 30	64.3%	63.5%	50 - 150		
Imazalil	0.000	0.345	0.344	0.400	0.1%	< 30	86.2%	86.1%	50 - 150		
Imidacloprid	0.000	0.611	0.636	0.800	3.9%	< 30	76.4%	79.4%	50 - 150		
Kresoxim-methyl	0.000	0.628	0.662	0.800	5.3%	< 30	78.5%	82.7%	50 - 150		
Malathion	0.000	0.347	0.368	0.400	5.8%	< 30	86.9%	92.1%	50 - 150		
Metalaxyl	0.000	0.329	0.312	0.400	5.2%	< 30	82.2%	78.0%	50 - 150		
Methiocarb	0.000	0.324	0.329	0.400	1.7%	< 30	80.9%	82.3%	50 - 150		
Methomyl	0.000	0.689	0.707	0.800	2.5%	< 30	86.1%	88.3%	50 - 150		
MGK-264	0.000	0.306	0.297	0.400	2.7%	< 30	76.4%	74.4%	50 - 150		
Myclobutanil	0.000	0.325	0.305	0.400	6.5%	< 30	81.3%	76.2%	50 - 150		
Naled	0.000	0.746	0.726	1.000	2.7%	< 30	74.6%	72.6%	50 - 150		
Oxamyl	0.000	1.764	1.925	2.000	8.7%	< 30	88.2%	96.2%	50 - 150		
Paclobutrazole	0.000	0.620	0.605	0.800	2.5%	< 30	77.5%	75.6%	50 - 150		
Parathion-Methyl	0.000	0.217	0.235	0.400	7.9%	< 30	54.3%	58.8%	30 - 150		
Permethrin	0.000	0.281	0.261	0.400	7.3%	< 30	70.1%	65.2%	50 - 150		
Phosmet	0.000	0.318	0.305	0.400	4.3%	< 30	79.5%	76.2%	50 - 150		
Piperonyl butoxide	0.000	1.713	1.713	2.000	0.0%	< 30	85.7%	85.6%	50 - 150		
Prallethrin	0.000	0.283	0.275	0.400	2.9%	< 30	70.7%	68.7%	50 - 150		
Propiconazole	0.000	0.618	0.637	0.800	3.0%	< 30	77.3%	79.6%	50 - 150		
Propoxur	0.000	0.323	0.331	0.400	2.6%	< 30	80.6%	82.8%	50 - 150		
Pyrethrin (Summe)	0.000	0.196	0.226	0.488	14.2%	< 30	71.5%	82.5%	50 - 150		
Pyridaben	0.000	0.252	0.242	0.400	3.9%	< 30	63.0%	60.6%	50 - 150		
Spinosad	0.000	0.312	0.302	0.388	3.4%	< 30	80.4%	77.8%	50 - 150		
Spiromesifen	0.000	0.232	0.218	0.400	6.4%	< 30	58.1%	54.5%	50 - 150		
Spiratetramat	0.000	0.337	0.328	0.400	2.8%	< 30	84.2%	81.9%	50 - 150		



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



Report Number: 24-010742/D004.R000
Report Date: 10/01/2024
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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.