



Customer: The Hemp Collect
2014 SE 9th Ave
Portland Oregon 97214
United States of America (USA)

Product identity: Live D9 Gummy, Hybrid, Sour Watermelon, 20mg

Metrc ID: .

Material: Cannabinoid Edible

Laboratory ID: 25-011020-0002

Evidence of Cooling: No

Temp: 22.8 °C

Lot #: 3030NC_091525

Serving Size #1: 8 g



**THE HEMP
COLLECT**

Sample Results

Potency		Method: J AOAC 2015 V98-6 (mod) ^b			Batch: 2506792		Analyze: 09/18/25
Analyte	Result	Units	LOQ	Notes	Serving Size #1		
					Result	Units	LOQ
CBC	0.0711	%	0.0078		5.68	mg/8g	0.62
CBC-A	< LOQ	%	0.0078		< LOQ	mg/8g	0.62
CBC-Total	0.0711	%	0.0146		5.69	mg/8g	1.17
CBD [±]	< LOQ	%	0.0078		< LOQ	mg/8g	0.62
CBD-A [±]	0.0101	%	0.0078		0.804	mg/8g	0.62
CBD-Total [±]	< LOQ	%	0.0146		< LOQ	mg/8g	1.17
CBDV	< LOQ	%	0.0078		< LOQ	mg/8g	0.62
CBDV-A	< LOQ	%	0.0078		< LOQ	mg/8g	0.62
CBDV-Total	< LOQ	%	0.0145		< LOQ	mg/8g	1.16
CBE	< LOQ	%	0.0078		< LOQ	mg/8g	0.62
CBG	0.00861	%	0.0078		0.689	mg/8g	0.62
CBG-A	< LOQ	%	0.0078		< LOQ	mg/8g	0.62
CBG-Total	< LOQ	%	0.0145		< LOQ	mg/8g	1.16
CBL	< LOQ	%	0.0078		< LOQ	mg/8g	0.62
CBL-A	< LOQ	%	0.0078		< LOQ	mg/8g	0.62
CBL-Total	< LOQ	%	0.0146		< LOQ	mg/8g	1.17
CBN	< LOQ	%	0.0078		< LOQ	mg/8g	0.62
CBT	< LOQ	%	0.0078		< LOQ	mg/8g	0.62
Δ10-THC-9R	< LOQ	%	0.0078		< LOQ	mg/8g	0.62
Δ10-THC-9S	< LOQ	%	0.0078		< LOQ	mg/8g	0.62
Δ10-THC-Total	< LOQ	%	0.0156		< LOQ	mg/8g	1.25
Δ8-THC [±]	< LOQ	%	0.0078		< LOQ	mg/8g	0.62
Δ8-THCV	< LOQ	%	0.0078		< LOQ	mg/8g	0.62
Δ9-THC [±]	0.262	%	0.0078		21.0	mg/8g	0.62
Δ9-THC-A [±]	< LOQ	%	0.0078		< LOQ	mg/8g	0.62
Δ9-THC-Total [±]	0.262	%	0.0146		21.0	mg/8g	1.17
Δ9-THCP	< LOQ	%	0.0078		< LOQ	mg/8g	0.62
Δ9-THCV	< LOQ	%	0.0078		< LOQ	mg/8g	0.62
Δ9-THCV-A	< LOQ	%	0.0078		< LOQ	mg/8g	0.62
Δ9-THCV-Total	< LOQ	%	0.0145		< LOQ	mg/8g	1.16



Potency		Method: J AOAC 2015 V98-6 (mod) ^b			Batch: 2506792		Analyze: 09/18/25	
Analyte	Result	Units	LOQ	Notes	Serving Size #1			
					Result	Units	LOQ	
exo-THC	< LOQ	%	0.0078		< LOQ	mg/8g	0.62	
Total Cannabinoids	0.352	%			28.2	mg/8g		

Microbiology							
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status Notes
Salmonella spp. [⊥]	Negative		/25g		2506938	09/25/25 AOAC 2020.02 ^b	
EHEC including STEC [⊥]	Negative		/25g		2506939	09/25/25 AOAC 2020.06 ^b	

Solvents		Method: Residual Solvents by HS-GC-MS ^b				Units µg/g	Batch 2507067	Analyze: 09/29/25			
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		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	

Pesticides		Method: AOAC 2007.01 & EN 15662 (mod)				Units mg/kg	Batch 2507062	Analyze: 09/29/25			
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin [⊥]	< LOQ	0.50	0.250	pass		Acephate [⊥]	< LOQ	0.40	0.200	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-ethyl [⊥]	< LOQ	0.20	0.100	pass	
Clofentezine [⊥]	< LOQ	0.20	0.100	pass		Cyfluthrin (sum) [⊥]	< LOQ	1.0	0.500	pass	
Cypermethrin (sum) [⊥]	< LOQ	1.0	0.500	pass		Daminozide [⊥]	< LOQ	1.0	0.500	pass	



Pesticides					Method: AOAC 2007.01 & EN 15662 (mod)	Units mg/kg	Batch 2507062	Analyze: 09/29/25				
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes	
Diazinon [±]	< LOQ	0.20	0.100	pass		Dichlorvos [±]	< LOQ	1.0	0.500	pass		
Dimethoate [±]	< LOQ	0.20	0.100	pass		Ethoprophos [±]	< LOQ	0.20	0.100	pass		
Etofenprox [±]	< LOQ	0.40	0.200	pass		Etoxazole [±]	< LOQ	0.20	0.100	pass		
Fenoxycarb [±]	< LOQ	0.20	0.100	pass		Fenpyroximate [±]	< LOQ	0.40	0.200	pass		
Fipronil [±]	< LOQ	0.40	0.200	pass		Fonicamid [±]	< LOQ	1.0	0.400	pass		
Fludioxonil [±]	< LOQ	0.40	0.200	pass		Hexythiazox [±]	< LOQ	1.0	0.400	pass		
Imazalil [±]	< LOQ	0.20	0.100	pass		Imidacloprid [±]	< LOQ	0.40	0.200	pass		
Kresoxim-methyl [±]	< LOQ	0.40	0.200	pass		Malathion [±]	< LOQ	0.20	0.100	pass		
Metalaxyl [±]	< LOQ	0.20	0.100	pass		Methiocarb [±]	< LOQ	0.20	0.100	pass		
Methomyl [±]	< LOQ	0.40	0.200	pass		MGK-264 [±]	< LOQ	0.20	0.100	pass		
Myclobutanil [±]	< LOQ	0.20	0.100	pass		Naled [±]	< LOQ	0.50	0.250	pass		
Oxamyl [±]	< LOQ	1.0	0.500	pass		Paclobutrazole [±]	< LOQ	0.40	0.200	pass		
Parathion-methyl [±]	< LOQ	0.20	0.100	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	0.100	pass		Propiconazole [±]	< LOQ	0.40	0.200	pass		
Propoxur [±]	< LOQ	0.20	0.100	pass		Pyrethrin I (total) [±]	< LOQ	1.0	0.500	pass		
Pyridaben [±]	< LOQ	0.20	0.100	pass		Spinosad [±]	< LOQ	0.20	0.100	pass		
Spiromesifen [±]	< LOQ	0.20	0.100	pass		Spirotetramat [±]	< LOQ	0.20	0.100	pass		
Spiroxamine [±]	< LOQ	0.40	0.200	pass		Tebuconazole [±]	< LOQ	0.40	0.200	pass		
Thiacloprid [±]	< LOQ	0.20	0.100	pass		Thiamethoxam [±]	< LOQ	0.20	0.100	pass		
Trifloxystrobin [±]	< LOQ	0.20	0.100	pass								

Terpenes					Method: J AOAC 2015 V98-6 ^b	Units %	Batch 2507137	Analyze: 09/30/25		
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes	
nerol	< LOQ	0.019	0.00%		(+)-Pulegone	< LOQ	0.019	0.00%		
farnesene	< LOQ	0.019	0.00%		(+)-fenchol	< LOQ	0.019	0.00%		
Geranyl acetate	< LOQ	0.019	0.00%		(±)-cis-Nerolidol	< LOQ	0.019	0.00%		
Humulene	< LOQ	0.019	0.00%		a-Terpinene	< LOQ	0.019	0.00%		
p-Cymene	< LOQ	0.019	0.00%		a-cedrene	< LOQ	0.019	0.00%		
(-)-Guaiol	< LOQ	0.019	0.00%		valencene	< LOQ	0.019	0.00%		
cis-β-Ocimene	< LOQ	0.006	0.00%		a-Bisabolol	< LOQ	0.019	0.00%		
β-Caryophyllene	< LOQ	0.019	0.00%		(+)-Cedrol	< LOQ	0.019	0.00%		
Camphene	< LOQ	0.019	0.00%		(-)-a-Terpineol	< LOQ	0.019	0.00%		
(-)-caryophyllene oxide	< LOQ	0.019	0.00%		(-)-Isopulegol	< LOQ	0.019	0.00%		
(-)-β-Pinene	< LOQ	0.019	0.00%		(+)-Borneol	< LOQ	0.019	0.00%		
(±)-Camphor	< LOQ	0.019	0.00%		(±)-fenchone	< LOQ	0.019	0.00%		
(±)-trans-Nerolidol	< LOQ	0.019	0.00%		(R)-(+)-Limonene	< LOQ	0.019	0.00%		
a-phellandrene	< LOQ	0.019	0.00%		a-pinene	< LOQ	0.019	0.00%		
d-3-Carene	< LOQ	0.019	0.00%		Eucalyptol	< LOQ	0.019	0.00%		
gamma-Terpinene	< LOQ	0.019	0.00%		Geraniol	< LOQ	0.019	0.00%		
Isoborneol	< LOQ	0.019	0.00%		Linalool	< LOQ	0.019	0.00%		
Menthol	< LOQ	0.019	0.00%		Sabinene	< LOQ	0.019	0.00%		
Sabinene hydrate	< LOQ	0.019	0.00%		β-Myrcene	< LOQ	0.019	0.00%		
Terpinolene	< LOQ	0.019	0.00%		trans-β-Ocimene	< LOQ	0.013	0.00%		
Total Terpenes	< LOQ									



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

Report Number: 25-011020/D004.R000
Report Date: 10/01/2025
ORELAP#: OR100028
Purchase Order:
Received: 09/17/25 09:52



Metals

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Arsenic [±]	< LOQ	0.200	mg/kg	0.0173	2507034	09/26/25 AOAC 2013.06 (mod.) ^p	pass	
Cadmium [±]	< LOQ	0.200	mg/kg	0.0173	2507034	09/26/25 AOAC 2013.06 (mod.) ^p	pass	
Lead [±]	< LOQ	0.500	mg/kg	0.0173	2507034	09/26/25 AOAC 2013.06 (mod.) ^p	pass	
Mercury [±]	< LOQ	0.100	mg/kg	0.00867	2507034	09/26/25 AOAC 2013.06 (mod.) ^p	pass	

Mycotoxins

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Aflatoxin B1 [±]	< LOQ		µg/kg	5.00	2507059	09/29/25 Mycotoxins by AOAC 2007.01		
Aflatoxin B2 [±]	< LOQ		µg/kg	5.00	2507059	09/29/25 Mycotoxins by AOAC 2007.01		
Aflatoxin G1 [±]	< LOQ		µg/kg	5.00	2507059	09/29/25 Mycotoxins by AOAC 2007.01		
Aflatoxin G2 [±]	< LOQ		µg/kg	5.00	2507059	09/29/25 Mycotoxins by AOAC 2007.01		
Ochratoxin A	< LOQ	20.0	µg/kg	5.00	2507059	09/29/25 Mycotoxins by AOAC 2007.01 ^p	pass	
Total Aflatoxins	< LOQ	20.0	µg/kg	20.0		10/01/25 Mycotoxins by AOAC 2007.01 ^p	pass	



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.

Threshold Note: OAR 333-007-0400

Ⓟ = ISO/IEC 17025:2017 accredited method.

Ⓡ = TNI accredited analyte.

Units of Measure

/25g = Per 25g

µg/g = Microgram per gram

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

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

% = Percentage of sample

mg/8g = Milligram per 8g

% wt = µg/g divided by 10,000



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Received: 09/17/25 09:52



**Hemp & Cannabis
 Chain of Custody**

**The-Hemp-Collect-
 1758053074**

Company Details Company: The Hemp Collect Contact: Brooke McKenzie Street Address: 2014 SE 9th Ave City, State, Zip: Portland, OR 97214 Email: Coas@thehempcollect.com Contact Phone: 7707220962 Billing Information Billing Email: accounting@thehempcollect.com					Project Details Turnaround Time: 4 Business Days Surcharges Apply Relinquishment Sampling, Courier & Shipping Options: By Shipping Service (USPS, UPS, Fedex) Receipt Information Evidence of Cooling?: No Sample Condition: Satisfactory Prelog Storage: Canna Shelves				Testing
#	Sample Name	Lot Additional Sample ID	Material	METRC Sample Package ID	Amount Provided	Reporting Unit	Specifications	Additional Test Requests and Sample Comments	
1	Live D9 Gummy, Hybrid, Sour Apple, 20mg	3008.ZNC_091525	Cannabinoid Edible	N/A	64 g	mg/g	mg/8g Gummy	Additional compliance testing will be added after reviewing potency.	✓
2	Live D9 Gummy, Hybrid, Sour Watermelon, 20mg	3030NC_091525	Cannabinoid Edible	N/A	64 g	mg/g	mg/8g Gummy	Additional compliance testing will be added after reviewing potency.	✓

Relinquished By	Date	Time	Received By	Date	Time	Received Temp., °C	IR Therm. CL#
	09/16/2025	13:04	dot	09/17/2025	09:52	22.80	CL-1243

Samples submitted to Columbia Laboratories with testing requirements constitute an agreement for services in accordance with the [current terms of services](#) associated with this COC. By signing "Relinquished by" you are agreeing to these terms.

Columbia Laboratories
 12423 NE Whitaker Way
 Portland, OR 97230

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Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 2506792**

Laboratory Control Sample

Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	2	0.0284	0.0280	%	101	80.0 - 120	Acceptable	
CBDV	2	0.0291	0.0286	%	102	80.0 - 120	Acceptable	
CBE	2	0.0331	0.0324	%	102	80.0 - 120	Acceptable	
CBDA	1	0.0277	0.0268	%	103	90.0 - 110	Acceptable	
CBGA	1	0.0304	0.0305	%	99.7	80.0 - 120	Acceptable	
CBG	1	0.0285	0.0280	%	102	80.0 - 120	Acceptable	
CBD	1	0.0278	0.0276	%	101	90.0 - 110	Acceptable	
THCV	2	0.0303	0.0302	%	100	80.0 - 120	Acceptable	
d8THCV	2	0.0307	0.0306	%	100	80.0 - 120	Acceptable	
THCVA	2	0.0277	0.0270	%	103	80.0 - 120	Acceptable	
CBN	1	0.0283	0.0282	%	100	80.0 - 120	Acceptable	
exo-THC	2	0.0280	0.0279	%	100	80.0 - 120	Acceptable	
d9THC	1	0.0301	0.0294	%	102	90.0 - 110	Acceptable	
d8THC	1	0.0285	0.0291	%	97.7	90.0 - 110	Acceptable	
9S-d10THC	1	0.0314	0.0312	%	101	80.0 - 120	Acceptable	
CBL	2	0.0296	0.0284	%	104	80.0 - 120	Acceptable	
9R-d10THC	1	0.0294	0.0311	%	94.3	80.0 - 120	Acceptable	
CBC	2	0.0295	0.0295	%	99.8	80.0 - 120	Acceptable	
THCA	1	0.0306	0.0328	%	93.2	90.0 - 110	Acceptable	
CBCA	2	0.0292	0.0289	%	101	80.0 - 120	Acceptable	
CBLA	2	0.0300	0.0292	%	103	80.0 - 120	Acceptable	
d9THCP	2	0.0291	0.0282	%	103	80.0 - 120	Acceptable	
CBT	2	0.0289	0.0287	%	101	80.0 - 120	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.00757	%	< 0.00757	Acceptable	
CBDV	<LOQ	0.00757	%	< 0.00757	Acceptable	
CBE	<LOQ	0.00757	%	< 0.00757	Acceptable	
CBDA	<LOQ	0.00757	%	< 0.00757	Acceptable	
CBGA	<LOQ	0.00757	%	< 0.00757	Acceptable	
CBG	<LOQ	0.00757	%	< 0.00757	Acceptable	
CBD	<LOQ	0.00757	%	< 0.00757	Acceptable	
THCV	<LOQ	0.00757	%	< 0.00757	Acceptable	
d8THCV	<LOQ	0.00757	%	< 0.00757	Acceptable	
THCVA	<LOQ	0.00757	%	< 0.00757	Acceptable	
CBN	<LOQ	0.00757	%	< 0.00757	Acceptable	
exo-THC	<LOQ	0.00757	%	< 0.00757	Acceptable	
d9THC	<LOQ	0.00757	%	< 0.00757	Acceptable	
d8THC	<LOQ	0.00757	%	< 0.00757	Acceptable	
9S-d10THC	<LOQ	0.00757	%	< 0.00757	Acceptable	
CBL	<LOQ	0.00757	%	< 0.00757	Acceptable	
9R-d10THC	<LOQ	0.00757	%	< 0.00757	Acceptable	
CBC	<LOQ	0.00757	%	< 0.00757	Acceptable	
THCA	<LOQ	0.00757	%	< 0.00757	Acceptable	
CBCA	<LOQ	0.00757	%	< 0.00757	Acceptable	
CBLA	<LOQ	0.00757	%	< 0.00757	Acceptable	
d9THCP	<LOQ	0.00757	%	< 0.00757	Acceptable	
CBT	<LOQ	0.00757	%	< 0.00757	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

AOAC 2015 V98-6		Batch ID: 2506792						
Sample Duplicate		Sample ID: 25-011018-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00760	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.00760	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.00760	%	NA	< 20	Acceptable	
CBDA	0.0639	0.0647	0.00760	%	1.37	< 10	Acceptable	
CBGA	<LOQ	<LOQ	0.00760	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.00760	%	NA	< 20	Acceptable	
CBD	0.172	0.173	0.00760	%	0.458	< 10	Acceptable	
THCV	<LOQ	<LOQ	0.00760	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.00760	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00760	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.00760	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00760	%	NA	< 20	Acceptable	
d9THC	<LOQ	<LOQ	0.00760	%	NA	< 10	Acceptable	
d8THC	<LOQ	<LOQ	0.00760	%	NA	< 10	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.00760	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.00760	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.00760	%	NA	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.00760	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00760	%	NA	< 10	Acceptable	
CBCA	<LOQ	<LOQ	0.00760	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.00760	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00760	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.00760	%	NA	< 20	Acceptable	

Abbreviations

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

Units of Measure:

% - Percent


 Revision: 3 Document ID: 3120
 Legacy ID: CFL-C21 Worksheet Validated 10/30/2020

Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg			Batch ID: 2507062			
Method Blank		Laboratory Control Sample						
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Abamectin	0.000	< 0.250		0.918	1.000	91.8	50.0	150
Acephate	0.000	< 0.200		0.703	0.800	87.9	60.0	120
Acequinocyl	0.029	< 1.000		2.456	4.000	61.4	40.0	160
Acetamiprid	0.000	< 0.100		0.355	0.400	88.8	60.0	120
Aldicarb	0.000	< 0.200		0.695	0.800	86.9	60.0	120
Azoxystrobin	0.006	< 0.100		0.330	0.400	82.6	60.0	120
Bifenazate	0.000	< 0.100		0.382	0.400	95.5	60.0	120
Bifenthrin	0.000	< 0.100		0.309	0.400	77.3	50.0	150
Boscalid	0.000	< 0.200		0.721	0.800	90.1	60.0	120
Carbaryl	0.000	< 0.100		0.348	0.400	86.9	60.0	120
Carbofuran	0.000	< 0.100		0.357	0.400	89.3	60.0	120
Chlorantraniliprole	0.000	< 0.100		0.364	0.400	91.1	60.0	120
Chlorfenapyr	0.000	< 0.500		1.513	2.000	75.7	60.0	120
Chlorpyrifos	0.005	< 0.100		0.332	0.400	83.0	60.0	120
Clofentezine	0.000	< 0.100		0.347	0.400	86.7	60.0	120
Cyfluthrin	0.000	< 0.500		1.719	2.000	85.9	50.0	150
Cypermethrin	0.000	< 0.500		1.605	2.000	80.3	50.0	150
Daminozide	0.000	< 0.500		0.655	2.000	32.8	60.0	120
Diazinon	0.001	< 0.100		0.353	0.400	88.3	60.0	120
Dichlorvos	0.000	< 0.500		1.743	2.000	87.2	60.0	120
Dimethoate	0.000	< 0.100		0.357	0.400	89.3	60.0	120
Ethoprophos	0.000	< 0.100		0.359	0.400	89.7	60.0	120
Etofenprox	0.002	< 0.200		0.602	0.800	75.2	50.0	150
Etoazole	0.001	< 0.100		0.340	0.400	85.0	60.0	120
Fenoxycarb	0.001	< 0.100		0.343	0.400	85.8	60.0	120
Fenpyroximate	0.000	< 0.200		0.681	0.800	85.1	60.0	120
Fipronil	0.000	< 0.200		0.775	0.800	96.9	60.0	120
Fonicamid	0.000	< 0.250		0.895	1.000	89.5	60.0	120
Fludioxonil	0.000	< 0.200		0.796	0.800	99.5	50.0	150
Hexythiazox	0.000	< 0.250		0.807	1.000	80.7	60.0	120
Imazalil	0.007	< 0.100		0.364	0.400	91.0	60.0	120
Imidacloprid	0.000	< 0.200		0.726	0.800	90.7	60.0	120
Kresoxim-methyl	0.000	< 0.200		0.722	0.800	90.2	60.0	120
Malathion	0.000	< 0.100		0.383	0.400	95.8	60.0	120
Metalaxyl	0.002	< 0.100		0.364	0.400	91.1	60.0	120
Methiocarb	0.002	< 0.100		0.334	0.400	83.6	60.0	120
Methomyl	0.000	< 0.200		0.720	0.800	90.0	60.0	120
MGK-264	0.000	< 0.100		0.351	0.400	87.8	50.0	150
Myclobutanil	0.000	< 0.100		0.360	0.400	90.0	60.0	120
Naled	0.002	< 0.250		0.897	1.000	89.7	50.0	150
Oxamyl	0.000	< 0.500		1.758	2.000	87.9	60.0	120
Paclobutrazole	0.003	< 0.200		0.713	0.800	89.1	60.0	120
Parathion-Methyl	0.000	< 0.100		0.350	0.400	87.4	50.0	150
Permethrin	0.002	< 0.100		0.303	0.400	75.8	50.0	150
Phosmet	0.000	< 0.100		0.361	0.400	90.3	50.0	150
Piperonyl butoxide	0.003	< 0.500		1.702	2.000	85.1	60.0	120
Prallethrin	0.000	< 0.100		0.360	0.400	89.9	60.0	120
Propiconazole	0.000	< 0.200		0.713	0.800	89.1	60.0	120
Propoxur	0.001	< 0.100		0.353	0.400	88.3	60.0	120
Pyrethrin (Summe)	0.001	< 0.100		0.437	0.488	89.6	60.0	120
Pyridaben	0.001	< 0.100		0.315	0.400	78.8	50.0	150
Spinosad	0.000	< 0.100		0.378	0.388	97.5	50.0	150
Spiromesifen	0.001	< 0.100		0.354	0.400	88.4	60.0	120
Spirotetramat	0.000	< 0.100		0.357	0.400	89.4	60.0	120
Spiroxamine	0.004	< 0.200		0.739	0.800	92.4	60.0	120

Q7


 Revision: 3 Document ID: 3120
 Legacy ID: CFL-C21 Worksheet Validated 10/30/2020

Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg					Batch ID: 2507062				
Matrix Spike/Matrix Spike Duplicate Recoveries							Sample ID: 25-011359-0001				
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes	
Abamectin	0.000	0.646	0.660	1.000	2.1%	< 30	64.6%	66.0%	50 - 150		
Acephate	0.000	0.619	0.516	0.800	18.2%	< 30	77.3%	64.4%	50 - 150		
Acequinocyl	0.222	2.481	2.507	4.000	1.1%	< 30	56.5%	57.1%	50 - 150		
Acetamiprid	0.000	0.304	0.270	0.400	11.9%	< 30	75.9%	67.4%	50 - 150		
Aldicarb	0.000	0.620	0.549	0.800	12.1%	< 30	77.5%	68.6%	50 - 150		
Azoxystrobin	0.006	0.238	0.225	0.400	5.6%	< 30	57.9%	54.7%	50 - 150		
Bifenazate	0.000	0.338	0.312	0.400	7.8%	< 30	84.4%	78.1%	50 - 150		
Bifenthrin	0.004	0.034	0.032	0.400	7.1%	< 30	7.6%	7.1%	50 - 150	Q	
Boscalid	0.003	0.642	0.604	0.800	6.1%	< 30	79.8%	75.1%	50 - 150		
Carbaryl	0.000	0.286	0.258	0.400	10.6%	< 30	71.6%	64.4%	50 - 150		
Carbofuran	0.000	0.243	0.215	0.400	12.0%	< 30	60.6%	53.8%	50 - 150		
Chlorantraniliprole	0.000	0.341	0.307	0.400	10.4%	< 30	85.2%	76.8%	50 - 150		
Chlorfenapyr	0.000	1.125	1.034	2.000	8.4%	< 30	56.2%	51.7%	50 - 150		
Chlorpyrifos	0.007	0.045	0.052	0.400	15.3%	< 30	9.6%	11.2%	50 - 150	Q	
Clofentezine	0.000	0.206	0.207	0.400	0.3%	< 30	51.6%	51.7%	50 - 150		
Cyfluthrin	0.000	0.581	0.589	2.000	1.4%	< 30	29.1%	29.5%	30 - 150	Q	
Cypermethrin	0.000	0.851	0.777	2.000	9.1%	< 30	42.6%	38.9%	50 - 150	Q	
Daminozide	0.000	0.646	0.598	2.000	7.6%	< 30	32.3%	29.9%	30 - 150	Q	
Diazinon	0.001	0.296	0.278	0.400	6.2%	< 30	73.8%	69.3%	50 - 150		
Dichlorvos	0.005	1.476	1.312	2.000	11.8%	< 30	73.6%	65.4%	50 - 150		
Dimethoate	0.000	0.297	0.270	0.400	9.5%	< 30	74.2%	67.4%	50 - 150		
Ethoprophos	0.001	0.301	0.280	0.400	7.3%	< 30	75.1%	69.9%	50 - 150		
Etofenprox	0.000	0.427	0.403	0.800	5.9%	< 30	53.4%	50.4%	50 - 150		
Etoxazole	0.001	0.282	0.269	0.400	4.7%	< 30	70.3%	67.1%	50 - 150		
Fenoxycarb	0.001	0.266	0.265	0.400	0.3%	< 30	66.3%	66.2%	50 - 150		
Fenpyroximate	0.000	0.489	0.480	0.800	1.8%	< 30	61.1%	60.0%	50 - 150		
Fipronil	0.000	1.098	1.045	0.800	4.9%	< 30	137.2%	130.6%	50 - 150		
Fonicamid	0.000	0.885	0.788	1.000	11.6%	< 30	88.5%	78.8%	50 - 150		
Fludioxonil	0.000	0.842	0.830	0.800	1.5%	< 30	105.3%	103.7%	50 - 150		
Hexythiazox	0.001	0.148	0.148	1.000	0.3%	< 30	14.8%	14.7%	50 - 150	Q	
Imazalil	0.007	0.239	0.230	0.400	3.8%	< 30	57.9%	55.7%	50 - 150		
Imidacloprid	0.000	0.663	0.624	0.800	6.1%	< 30	82.9%	78.0%	50 - 150		
Kresoxim-methyl	0.000	0.492	0.507	0.800	2.9%	< 30	61.5%	63.4%	50 - 150		
Malathion	0.000	0.296	0.274	0.400	7.7%	< 30	74.1%	68.6%	50 - 150		
Metalaxyl	0.006	0.285	0.279	0.400	2.2%	< 30	70.0%	68.4%	50 - 150		
Methiocarb	0.002	0.246	0.225	0.400	8.7%	< 30	60.9%	55.8%	50 - 150		
Methomyl	0.000	0.661	0.559	0.800	16.8%	< 30	82.6%	69.9%	50 - 150		
MGK-264	0.000	0.091	0.092	0.400	0.6%	< 30	22.8%	22.9%	50 - 150	Q	
Myclobutanil	0.000	0.305	0.302	0.400	0.8%	< 30	76.2%	75.6%	50 - 150		
Naled	0.002	0.599	0.547	1.000	9.0%	< 30	59.7%	54.6%	50 - 150		
Oxamyl	0.000	1.611	1.463	2.000	9.6%	< 30	80.5%	73.2%	50 - 150		
Paclobutrazole	0.004	0.565	0.534	0.800	5.7%	< 30	70.2%	66.3%	50 - 150		
Parathion-Methyl	0.000	0.508	0.547	0.400	7.4%	< 30	127.0%	136.7%	30 - 150		
Permethrin	0.000	0.327	0.294	0.400	10.8%	< 30	81.8%	73.5%	50 - 150		
Phosmet	0.000	0.290	0.272	0.400	6.6%	< 30	72.6%	67.9%	50 - 150		
Piperonyl butoxide	0.018	1.943	1.902	2.000	2.2%	< 30	96.3%	94.2%	50 - 150		
Prallethrin	0.000	0.330	0.319	0.400	3.4%	< 30	82.4%	79.6%	50 - 150		
Propiconazole	0.001	0.600	0.548	0.800	9.1%	< 30	74.8%	68.3%	50 - 150		
Propoxur	0.013	0.296	0.259	0.400	14.0%	< 30	70.8%	61.5%	50 - 150		
Pyrethrin (Summe)	0.101	0.426	0.410	0.488	5.1%	< 30	66.6%	63.3%	50 - 150		
Pyridaben	0.002	0.308	0.301	0.400	2.2%	< 30	76.5%	74.8%	50 - 150		
Spinosad	0.000	0.252	0.239	0.388	5.2%	< 30	64.8%	61.5%	50 - 150		
Spiromesifen	0.001	0.249	0.224	0.400	10.7%	< 30	62.0%	55.7%	50 - 150		
Spirotetramat	0.000	0.378	0.358	0.400	5.4%	< 30	94.5%	89.5%	50 - 150		
Spiroxamine	0.004	0.620	0.596	0.800	4.0%	< 30	77.1%	74.0%	50 - 150		


 Revision: 2 Document ID: 7087
 Legacy ID: CFL-E33Effective:

Laboratory Quality Control Results

Residual Solvents				Batch ID: 2507067					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
1,1-Dichloroethane	ND	< 1		1.02	1	µg/g	102.0	50-150	
1,2-Dichloroethene, trans-	ND	< 1		1.01	1	µg/g	101.0	50-150	
1,4-Dioxane	ND	< 100		441	496	µg/g	88.9	60-120	
1-Pentanol	ND	< 500		1580	1610	µg/g	98.1	50-150	
1-Propanol	ND	< 500		1460	1620	µg/g	90.1	50-150	
2,2-Dimethylbutane	ND	< 30		164	172	µg/g	95.3	60-120	
2,2-Dimethylpropane	ND	< 200		585	956	µg/g	61.2	60-120	
2,3-Dimethylbutane	ND	< 30		171	173	µg/g	98.8	60-120	
2-Butanol	ND	< 200		1600	1610	µg/g	99.4	60-120	
2-Ethoxyethanol	ND	< 30		166	177	µg/g	93.8	60-120	
2-methyl-1-propanol	ND	< 500		1160	1610	µg/g	72.0	50-150	
2-Methylbutane	ND	< 200		1610	1630	µg/g	98.8	60-120	
2-Methylpentane	ND	< 30		121	164	µg/g	73.8	60-120	
2-Propanol	ND	< 200		1550	1610	µg/g	96.3	60-120	
3-Methyl-1-butanol	ND	< 500		1390	1610	µg/g	86.3	50-150	
3-Methylpentane	ND	< 30		168	183	µg/g	91.8	60-120	
Acetone	ND	< 200		1560	1620	µg/g	96.3	60-120	
Acetonitrile	ND	< 100		492	493	µg/g	99.8	60-120	
Anisole	ND	< 500		1250	1620	µg/g	77.2	50-150	
Benzene	ND	< 1		0.913	1	µg/g	91.3	50-150	
Butane	ND	< 200		520	769	µg/g	67.6	60-120	
Butyl Acetate	ND	< 500		1600	1620	µg/g	98.8	50-150	
Carbon Tetrachloride	ND	< 1		0.85	1	µg/g	85.0	50-150	
Cumene	ND	< 30		150	174	µg/g	86.2	60-120	
Cyclohexane	ND	< 200		1460	1630	µg/g	89.6	60-120	
Dichloromethane	ND	< 1		0.955	1	µg/g	95.5	50-150	
Ethanol	ND	< 200		1630	1630	µg/g	100.0	60-120	
Ethyl acetate	ND	< 200		1570	1630	µg/g	96.3	60-120	
Ethyl Ether	ND	< 200		1550	1620	µg/g	95.7	60-120	
Ethylbenzene	ND	< 200		876	976	µg/g	89.8	60-120	
Ethylene Glycol	ND	< 200		407	484	µg/g	84.1	60-120	
Ethylene Oxide	ND	< 1		1.25	1	µg/g	125.0	50-150	
Heptane	ND	< 200		1560	1600	µg/g	97.5	60-120	
Hexane	ND	< 30		161	172	µg/g	93.6	60-120	
Isobutane	ND	< 200		519	770	µg/g	67.4	60-120	
Isopropyl Acetate	ND	< 200		1560	1610	µg/g	96.9	60-120	
m,p-Xylene	ND	< 200		873	988	µg/g	88.4	60-120	
Methanol	ND	< 200		1600	1650	µg/g	97.0	60-120	
Methylisobutylketone	ND	< 500		1430	1620	µg/g	88.3	50-150	
MTBE	ND	< 500		1340	1630	µg/g	82.2	50-150	
N,N-dimethylacetamide	ND	< 150		515	524	µg/g	98.3	50-150	
o-Xylene	ND	< 200		865	975	µg/g	88.7	60-120	
Pentane	ND	< 200		1590	1610	µg/g	98.8	60-120	
Propane	ND	< 200		414	585	µg/g	70.8	60-120	
Propyl Acetate	ND	< 500		1430	1600	µg/g	89.4	50-150	
Sulfolane	ND	< 50		121	165	µg/g	73.3	50-150	
Tetrahydrofuran	ND	< 100		450	486	µg/g	92.6	60-120	
Toluene	ND	< 100		428	485	µg/g	88.2	60-120	



Revision: 2 Document ID: 7087
Legacy ID: CFL-E33Effective:

QC - Sample Duplicate

Sample ID: 25-010890-0001

Analyte	SR Result	SD Result	LOQ	Units	RPD	Limits	Accept/Fail	Notes
1,1-Dichloroethane	ND	ND	1	µg/g	0.0	< 20	Acceptable	
1,2-Dichloroethene, trans-	ND	ND	1	µg/g	0.0	< 20	Acceptable	
1,4-Dioxane	ND	ND	100	µg/g	0.0	< 20	Acceptable	
1-Pentanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
1-Propanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
2,2-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
2,2-Dimethylpropane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2,3-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
2-Butanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Ethoxyethanol	ND	ND	30	µg/g	0.0	< 20	Acceptable	
2-methyl-1-propanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
2-Methylbutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
2-Propanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
3-Methyl-1-butanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
3-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Acetone	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Acetonitrile	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Anisole	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Benzene	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Butane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Butyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Carbon Tetrachloride	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Cumene	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Cyclohexane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Dichloromethane	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Ethanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethyl acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethyl Ether	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethylbenzene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethylene Glycol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethylene Oxide	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Heptane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Hexane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Isobutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Isopropyl Acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
m,p-Xylene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Methanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Methylisobutylketone	ND	ND	500	µg/g	0.0	< 20	Acceptable	
MTBE	ND	ND	500	µg/g	0.0	< 20	Acceptable	
N,N-dimethylacetamide	ND	ND	150	µg/g	0.0	< 20	Acceptable	
o-Xylene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Pentane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Propane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Propyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Sulfolane	ND	ND	50	µg/g	0.0	< 20	Acceptable	
Tetrahydrofuran	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Toluene	ND	ND	100	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



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

Terpenes Quality Control Results

Method Reference: EPA 5035				Batch ID: 2507137					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	LCS	Units	LCS % Rec	Limits	Notes
a-pinene	<LOQ	< 196		352	451	µg/g	78%	70 - 130	
Camphene	<LOQ	< 196		408	489	µg/g	83%	70 - 130	
Sabinene	<LOQ	< 196		332	451	µg/g	74%	70 - 130	
b-Pinene	<LOQ	< 196		349	451	µg/g	77%	70 - 130	
b-Myrcene	<LOQ	< 196		394	489	µg/g	80%	70 - 130	
a-phellandrene	<LOQ	< 196		384	489	µg/g	79%	70 - 130	
d-3-Carene	<LOQ	< 196		474	489	µg/g	97%	70 - 130	
a-Terpinene	<LOQ	< 196		342	451	µg/g	76%	70 - 130	
p-Cymene	<LOQ	< 196		387	489	µg/g	79%	70 - 130	
D-Limonene	<LOQ	< 196		346	451	µg/g	77%	70 - 130	
Eucalyptol	<LOQ	< 196		370	489	µg/g	76%	70 - 130	
b-cis-Ocimene	<LOQ	< 65		117	150	µg/g	78%	70 - 130	
b-trans-Ocimene	<LOQ	< 130		241	301	µg/g	80%	70 - 130	
g-Terpinene	<LOQ	< 196		334	451	µg/g	74%	70 - 130	
Sabinene_Hydrate	<LOQ	< 196		316	451	µg/g	70%	70 - 130	
Terpinolene	<LOQ	< 196		340	451	µg/g	75%	70 - 130	
D-Fenchone	<LOQ	< 196		325	451	µg/g	72%	70 - 130	
Linalool	<LOQ	< 196		313	489	µg/g	64%	70 - 130	Q7
Fenchol	<LOQ	< 196		312	451	µg/g	69%	70 - 130	Q7
Camphor	<LOQ	< 196		366	489	µg/g	75%	70 - 130	
Isopulego	<LOQ	< 196		335	489	µg/g	68%	70 - 130	Q7
Isoborneol	<LOQ	< 196		349	489	µg/g	71%	70 - 130	
Borneol	<LOQ	< 196		316	451	µg/g	70%	70 - 130	
DL-Menthol	<LOQ	< 196		321	489	µg/g	66%	70 - 130	Q7
Terpineol	<LOQ	< 196		332	451	µg/g	74%	70 - 130	
Nerol	<LOQ	< 196		263	489	µg/g	54%	70 - 130	Q7
Pulegone	<LOQ	< 196		323	451	µg/g	72%	70 - 130	
Geraniol	<LOQ	< 196		314	451	µg/g	70%	70 - 130	
Geranyl_Acetate	<LOQ	< 196		333	489	µg/g	68%	70 - 130	Q7
a-Cedrene	<LOQ	< 196		342	451	µg/g	76%	70 - 130	
b-Caryophyllene	<LOQ	< 196		385	489	µg/g	79%	70 - 130	
a-Humulene	<LOQ	< 196		390	451	µg/g	86%	70 - 130	
Valenene	<LOQ	< 196		370	489	µg/g	76%	70 - 130	
cis-Nerolidol	<LOQ	< 196		369	489	µg/g	75%	70 - 130	
a-Farnesene	<LOQ	< 196		610	489	µg/g	125%	70 - 130	
trans-Nerolidol	<LOQ	< 196		317	451	µg/g	70%	70 - 130	
Caryophyllene_Oxide	<LOQ	< 196		345	489	µg/g	70%	70 - 130	
Guaiol	<LOQ	< 196		381	451	µg/g	85%	70 - 130	
Cedrol	<LOQ	< 196		370	489	µg/g	76%	70 - 130	
a-Bisabolol	<LOQ	< 196		390	489	µg/g	80%	70 - 130	

Definitions

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



Terpenes Quality Control Results

Method Reference: EPA 5035			Batch ID: 2507137				
Sample/Sample Duplicate		Sample ID: 25-010938-0001					
Analyte	Result	Org. Result	LOQ	Units	% RPD	LIMIT	Notes
a-pinene	<LOQ	<LOQ	188	µg/g	0%	< 20	
Camphene	<LOQ	<LOQ	188	µg/g	0%	< 20	
Sabinene	<LOQ	<LOQ	188	µg/g	0%	< 20	
b-Pinene	<LOQ	<LOQ	188	µg/g	0%	< 20	
b-Myrcene	<LOQ	<LOQ	188	µg/g	0%	< 20	
a-phellandrene	<LOQ	<LOQ	188	µg/g	0%	< 20	
d-3-Carene	<LOQ	<LOQ	188	µg/g	0%	< 20	
a-Terpinene	<LOQ	<LOQ	188	µg/g	0%	< 20	
p-Cymene	<LOQ	<LOQ	188	µg/g	0%	< 20	
D-Limonene	<LOQ	<LOQ	188	µg/g	0%	< 20	
Eucalyptol	<LOQ	<LOQ	188	µg/g	0%	< 20	
b-cis-Ocimene	<LOQ	<LOQ	62.8	µg/g	0%	< 20	
b-trans-Ocimene	<LOQ	<LOQ	126	µg/g	0%	< 20	
g-Terpinene	<LOQ	<LOQ	188	µg/g	0%	< 20	
Sabinene_Hydrate	<LOQ	<LOQ	188	µg/g	0%	< 20	
Terpinolene	<LOQ	<LOQ	188	µg/g	0%	< 20	
D-Fenchone	<LOQ	<LOQ	188	µg/g	0%	< 20	
Linalool	<LOQ	<LOQ	188	µg/g	0%	< 20	
Fenchol	<LOQ	<LOQ	188	µg/g	0%	< 20	
Camphor	<LOQ	<LOQ	188	µg/g	0%	< 20	
Isopulego	<LOQ	<LOQ	188	µg/g	0%	< 20	
Isoborneol	<LOQ	<LOQ	188	µg/g	0%	< 20	
Borneol	<LOQ	<LOQ	188	µg/g	0%	< 20	
DL-Menthol	<LOQ	<LOQ	188	µg/g	0%	< 20	
Terpineol	<LOQ	<LOQ	188	µg/g	0%	< 20	
Nerol	<LOQ	<LOQ	188	µg/g	0%	< 20	
Pulegone	<LOQ	<LOQ	188	µg/g	0%	< 20	
Geraniol	<LOQ	<LOQ	188	µg/g	0%	< 20	
Geranyl_Acetate	<LOQ	<LOQ	188	µg/g	0%	< 20	
a-Cedrene	<LOQ	<LOQ	188	µg/g	0%	< 20	
b-Caryophyllene	<LOQ	<LOQ	188	µg/g	0%	< 20	
a-Humulene	<LOQ	<LOQ	188	µg/g	0%	< 20	
Valenene	<LOQ	<LOQ	188	µg/g	0%	< 20	
cis-Nerolidol	<LOQ	<LOQ	188	µg/g	0%	< 20	
a-Farnesene	<LOQ	<LOQ	188	µg/g	0%	< 20	
trans-Nerolidol	<LOQ	<LOQ	188	µg/g	0%	< 20	
Caryophyllene_Oxide	<LOQ	<LOQ	188	µg/g	0%	< 20	
Guaiol	<LOQ	<LOQ	188	µg/g	0%	< 20	
Cedrol	<LOQ	<LOQ	188	µg/g	0%	< 20	
a-Bisabolol	<LOQ	<LOQ	188	µg/g	0%	< 20	

Definitions

RPD	Relative Percent Difference
Q7	Quality control outside QC limits.



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



Report Number: 25-011020/D004.R000
Report Date: 10/01/2025
ORELAP#: OR100028
Purchase Order:
Received: 09/17/25 09:52





Explanation of QC Flag Comments:

Code	Explanation
A	This analysis was performed on a VOA sample containing headspace.
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.
B3	Dilution water blank of BOD was above the recommended limit; associated samples could be high biased.
CP	Client provided value.
CV	Calculated value.
E	Analyte concentration exceeds the calibration range, results are estimated.
E1	Estimated value.
E2	Estimated value. Matrix interference observed.
H	Holding time was exceeded.
J	Estimated value, above the detection limit and below the LOQ
I	Insufficient sample received to meet method requirements.
LOQ1	Quantitation level raised due to low sample volume and/or dilution.
LOQ2	Quantitation level raised due to matrix interference.
LOQ3	< LOQ could be due to potential inhibition.
N1	See case narrative
P	Not preserved to the proper pH
P1	Storage temperature out of control
P2	Incubator temperature out of control
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.
Q7	Quality control outside QC limits.
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.
RE	Re-extracted and/or re-analyzed.
REH	The original analysis was within holding time; re-analysis past holding time.
S	Surrogate recovery outside control limit.
T	Tentatively Identified Compound (TIC) by library search.
T1	Confirmed by secondary ion
W	Results are reported on dry weight basis.