



This is an amended version of report# 25-013611/D001.R000.

Reason: Additional testing included.

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

Product identity: Live D9, Indica, Oregon Huckleberry, 20mg - Gummy

Metrc ID: .

Material: Cannabinoid Edible

Laboratory ID: 25-013611-0001

Evidence of Cooling: No

Temp: 19.2 °C

Lot #: 3009.1NC_110425

Serving Size #1: 8 g



**THE HEMP
COLLECT**

Sample Results

Potency		Method: J AOAC 2015 V98-6 (mod) ^b			Batch: 2508342		Analyze: 11/11/25	
Analyte	Result	Units	LOQ	Notes	Serving Size #1			
					Result	Units	LOQ	
CBC	< LOQ	%	0.0071		< LOQ	mg/8g	0.57	
CBC-A	< LOQ	%	0.0071		< LOQ	mg/8g	0.57	
CBC-Total	< LOQ	%	0.0134		< LOQ	mg/8g	1.07	
CBD [±]	0.0102	%	0.0071		0.816	mg/8g	0.57	
CBD-A [±]	0.0313	%	0.0071		2.50	mg/8g	0.57	
CBD-Total [±]	0.0377	%	0.0134		3.02	mg/8g	1.07	
CBDV	< LOQ	%	0.0071		< LOQ	mg/8g	0.57	
CBDV-A	< LOQ	%	0.0071		< LOQ	mg/8g	0.57	
CBDV-Total	< LOQ	%	0.0133		< LOQ	mg/8g	1.06	
CBE	< LOQ	%	0.0071		< LOQ	mg/8g	0.57	
CBG	0.00953	%	0.0071		0.763	mg/8g	0.57	
CBG-A	< LOQ	%	0.0071		< LOQ	mg/8g	0.57	
CBG-Total	< LOQ	%	0.0133		< LOQ	mg/8g	1.06	
CBL	< LOQ	%	0.0071		< LOQ	mg/8g	0.57	
CBL-A	< LOQ	%	0.0071		< LOQ	mg/8g	0.57	
CBL-Total	< LOQ	%	0.0134		< LOQ	mg/8g	1.07	
CBN	0.144	%	0.0071		11.5	mg/8g	0.57	
CBT	< LOQ	%	0.0071		< LOQ	mg/8g	0.57	
Δ10-THC-9R	< LOQ	%	0.0071		< LOQ	mg/8g	0.57	
Δ10-THC-9S	< LOQ	%	0.0071		< LOQ	mg/8g	0.57	
Δ10-THC-Total	< LOQ	%	0.0143		< LOQ	mg/8g	1.14	
Δ8-THC [±]	< LOQ	%	0.0071		< LOQ	mg/8g	0.57	
Δ8-THCV	< LOQ	%	0.0071		< LOQ	mg/8g	0.57	
Δ9-THC [±]	0.274	%	0.0071		21.9	mg/8g	0.57	
Δ9-THC-A [±]	< LOQ	%	0.0071		< LOQ	mg/8g	0.57	
Δ9-THC-Total [±]	0.274	%	0.0134		21.9	mg/8g	1.07	
Δ9-THCP	< LOQ	%	0.0071		< LOQ	mg/8g	0.57	
Δ9-THCV	< LOQ	%	0.0071		< LOQ	mg/8g	0.57	


Potency Method: J AOAC 2015 V98-6 (mod)^b Batch: 2508342 Analyze: 11/11/25

Analyte	Result	Units	LOQ	Notes	Serving Size #1		
					Result	Units	LOQ
Δ9-THCV-A	< LOQ	%	0.0071		< LOQ	mg/8g	0.57
Δ9-THCV-Total	< LOQ	%	0.0133		< LOQ	mg/8g	1.06
exo-THC	< LOQ	%	0.0071		< LOQ	mg/8g	0.57
Total Cannabinoids	0.469	%			37.5	mg/8g	

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Salmonella spp. [⊥]	Negative		/25g		2508502	11/19/25 AOAC 2020.02 ^b		
EHEC including STEC [⊥]	Negative		/25g		2508503	11/19/25 AOAC 2020.06 ^b		

Solvents Method: Residual Solvents by HS-GC-MS^b Units μg/g Batch 2508640 Analyze: 11/21/25

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 2508608 Analyze: 11/21/25

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 2508608		Analyze: 11/21/25		
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		Flonicamid [±]	< LOQ	1.0	0.400	pass	
Fludioxonil [±]	< LOQ	0.40	0.200	pass		Hexythiazox [±]	< LOQ	1.0	0.400	pass	
Imazalil [±]	< LOQ	0.20	0.100	pass		Imidacloprid [±]	< LOQ	0.40	0.200	pass	
Kresoxim-methyl [±]	< LOQ	0.40	0.200	pass		Malathion [±]	< LOQ	0.20	0.100	pass	
Metalaxyl [±]	< LOQ	0.20	0.100	pass		Methiocarb [±]	< LOQ	0.20	0.100	pass	
Methomyl [±]	< LOQ	0.40	0.200	pass		MGK-264 [±]	< LOQ	0.20	0.100	pass	
Myclobutanil [±]	< LOQ	0.20	0.100	pass		Naled [±]	< LOQ	0.50	0.250	pass	
Oxamyl [±]	< LOQ	1.0	0.500	pass		Paclobutrazole [±]	< LOQ	0.40	0.200	pass	
Parathion-methyl [±]	< LOQ	0.20	0.100	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							

Metals										
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method		Status	Notes	
Arsenic [±]	< LOQ	0.200	mg/kg	0.0165	2508602	11/20/25	AOAC 2013.06 (mod.) ^p	pass		
Cadmium [±]	< LOQ	0.200	mg/kg	0.0165	2508602	11/20/25	AOAC 2013.06 (mod.) ^p	pass		
Lead [±]	< LOQ	0.500	mg/kg	0.0165	2508602	11/20/25	AOAC 2013.06 (mod.) ^p	pass		
Mercury [±]	0.0190	0.100	mg/kg	0.00827	2508602	11/20/25	AOAC 2013.06 (mod.) ^p	pass		

Mycotoxins										
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method		Status	Notes	
Aflatoxin B1 [±]	< LOQ		µg/kg	5.00	2508575	11/20/25	Mycotoxins by AOAC 2007.01			
Aflatoxin B2 [±]	< LOQ		µg/kg	5.00	2508575	11/20/25	Mycotoxins by AOAC 2007.01			
Aflatoxin G1 [±]	< LOQ		µg/kg	5.00	2508575	11/20/25	Mycotoxins by AOAC 2007.01			
Aflatoxin G2 [±]	< LOQ		µg/kg	5.00	2508575	11/20/25	Mycotoxins by AOAC 2007.01			
Ochratoxin A	< LOQ	20.0	µg/kg	5.00	2508575	11/20/25	Mycotoxins by AOAC 2007.01 ^p	pass		
Total Aflatoxins	< LOQ	20.0	µg/kg	20.0		11/21/25	Mycotoxins by AOAC 2007.01 ^p	pass		



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

Report Number: 25-013611/D001.R001
Report Date: 12/02/2025
ORELAP#: OR100028
Purchase Order:
Received: 11/10/25 09:32



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

Approved Signatory

Derrick Tanner
General Manager



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

Report Number: 25-013611/D001.R001
Report Date: 12/02/2025
ORELAP#: OR100028
Purchase Order:
Received: 11/10/25 09:32



**Hemp & Cannabis
Chain of Custody**

**The-Hemp-
Collect-1762536272**

Company Details Company: The Hemp Collect Contact: Cris Kingsland Street Address: 2014 SE 9th 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) Additional Comments for Project: Will request further testing after reviewing potency. Receipt Information Evidence of Cooling?: No Sample Condition: Satisfactory Prelog Storage: Canna Shelves			Testing H0010 - Potency Cannabis (Basic-Expanded)	
#	Sample Name	Lot Additional Sample ID	Material	Amount Provided	Reporting Unit	Serving Size	
1	Live D9, Indica, Oregon Huckleberry, 20mg - Gummy	3009.INC.110425	Cannabinoid Edible	72 g	mg/g & mg/serving	8 g	✓

Relinquished By	Date	Time	Received By	Date	Time	Received Temp., °C	IR Therm. CL#
<i>Cris Kingsland</i>	<i>11/07/2025</i>	<i>09:24</i>	<i>sem</i>	<i>11/10/2025</i>	<i>09:32</i>	<i>19.20</i>	<i>CL-0530</i>

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

P: (503) 254-1794
info@columbialaboratories.com

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www.columbialaboratories.com



Laboratory Quality Control Results

J AOAC 2015 V98-6 **Batch ID: 250342**

Laboratory Control Sample										
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes	
CBDVA	2	0.0292	0.0297	%	98.1	80.0	- 120	Acceptable		
CBDV	2	0.0318	0.0322	%	98.7	80.0	- 120	Acceptable		
CBE	2	0.0323	0.0327	%	98.6	80.0	- 120	Acceptable		
CBDA	1	0.0270	0.0265	%	102	90.0	- 110	Acceptable		
CBGA	1	0.0279	0.0277	%	101	80.0	- 120	Acceptable		
CBG	1	0.0256	0.0255	%	101	80.0	- 120	Acceptable		
CBD	1	0.0242	0.0251	%	96.4	90.0	- 110	Acceptable		
THCV	2	0.0325	0.0321	%	101	80.0	- 120	Acceptable		
d8THCV	2	0.0255	0.0255	%	99.9	80.0	- 120	Acceptable		
THCVA	2	0.0283	0.0285	%	99.2	80.0	- 120	Acceptable		
CBN	1	0.0260	0.0255	%	102	80.0	- 120	Acceptable		
exo-THC	2	0.0295	0.0297	%	99.4	80.0	- 120	Acceptable		
d9THC	1	0.0280	0.0272	%	103	90.0	- 110	Acceptable		
d8THC	1	0.0261	0.0259	%	101	90.0	- 110	Acceptable		
9S-d10THC	1	0.0288	0.0285	%	101	80.0	- 120	Acceptable		
CBL	2	0.0304	0.0293	%	104	80.0	- 120	Acceptable		
9R-d10THC	1	0.0305	0.0304	%	100	80.0	- 120	Acceptable		
CBC	2	0.0312	0.0323	%	96.7	80.0	- 120	Acceptable		
THCA	1	0.0281	0.0283	%	99.3	90.0	- 110	Acceptable		
CBCA	2	0.0309	0.0313	%	98.5	80.0	- 120	Acceptable		
CBLA	2	0.0306	0.0310	%	98.8	80.0	- 120	Acceptable		
d9THCP	2	0.0296	0.0300	%	98.8	80.0	- 120	Acceptable		
CBT	2	0.0314	0.0320	%	98.1	80.0	- 120	Acceptable		

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.00712	%	< 0.00712	Acceptable	
CBDV	<LOQ	0.00712	%	< 0.00712	Acceptable	
CBE	<LOQ	0.00712	%	< 0.00712	Acceptable	
CBDA	<LOQ	0.00712	%	< 0.00712	Acceptable	
CBGA	<LOQ	0.00712	%	< 0.00712	Acceptable	
CBG	<LOQ	0.00712	%	< 0.00712	Acceptable	
CBD	<LOQ	0.00712	%	< 0.00712	Acceptable	
THCV	<LOQ	0.00712	%	< 0.00712	Acceptable	
d8THCV	<LOQ	0.00712	%	< 0.00712	Acceptable	
THCVA	<LOQ	0.00712	%	< 0.00712	Acceptable	
CBN	<LOQ	0.00712	%	< 0.00712	Acceptable	
exo-THC	<LOQ	0.00712	%	< 0.00712	Acceptable	
d9THC	<LOQ	0.00712	%	< 0.00712	Acceptable	
d8THC	<LOQ	0.00712	%	< 0.00712	Acceptable	
9S-d10THC	<LOQ	0.00712	%	< 0.00712	Acceptable	
CBL	<LOQ	0.00712	%	< 0.00712	Acceptable	
9R-d10THC	<LOQ	0.00712	%	< 0.00712	Acceptable	
CBC	<LOQ	0.00712	%	< 0.00712	Acceptable	
THCA	<LOQ	0.00712	%	< 0.00712	Acceptable	
CBCA	<LOQ	0.00712	%	< 0.00712	Acceptable	
CBLA	<LOQ	0.00712	%	< 0.00712	Acceptable	
d9THCP	<LOQ	0.00712	%	< 0.00712	Acceptable	
CBT	<LOQ	0.00712	%	< 0.00712	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

J AOAC 2015 V98-6		Batch ID: 250342						
Sample Duplicate		Sample ID: 25-013447-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00712	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.00712	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.00712	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.00712	%	NA	< 10	Acceptable	
CBGA	<LOQ	<LOQ	0.00712	%	NA	< 20	Acceptable	
CBG	0.00854	0.00886	0.00712	%	3.73	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.00712	%	NA	< 10	Acceptable	
THCV	<LOQ	<LOQ	0.00712	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.00712	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00712	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.00712	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00712	%	NA	< 20	Acceptable	
d9THC	0.275	0.282	0.00712	%	2.39	< 10	Acceptable	
d8THC	<LOQ	<LOQ	0.00712	%	NA	< 10	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.00712	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.00712	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.00712	%	NA	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.00712	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00712	%	NA	< 10	Acceptable	
CBCA	<LOQ	<LOQ	0.00712	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.00712	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00712	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.00712	%	NA	< 20	Acceptable	

Abbreviations

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

Units of Measure:

% - Percent



Revision: 5 Document ID: 3828
Validation Approved Date:

Laboratory Pesticide Quality Control Results

AOAC 2007.01 & EN 15662		Group	1	Units: mg/Kg	Batch ID:	2508608			
Method Blank					Laboratory Control Sample				
Analyte	Inst.	Result	LOQ	Notes	Result	Spike	% Rec	Limits	Notes
Chlordane (cis+trans)	GC	#N/A	0.100		#N/A	0.400	#N/A	60 - 120	
Endosulfan I (alpha)	GC	#N/A	0.050		#N/A	0.100	#N/A	60 - 120	
Endosulfan II (beta)	GC	#N/A	0.050		#N/A	0.100	#N/A	60 - 120	
Etridiazole	GC	#N/A	0.050		#N/A	0.100	#N/A	60 - 120	
Kinoprene	LC	0.000	0.050		0.146	0.200	73%	60 - 120	
Metolachlor	GC	#N/A	0.100		#N/A	0.200	#N/A	60 - 120	
Quintozene	GC	#N/A	0.020		#N/A	0.040	#N/A	60 - 120	
Captan	GC	#N/A	0.700		#N/A	1.400	#N/A	60 - 120	
Abamectin	LC	0.000	0.070		0.256	0.280	91%	60 - 120	
Acephate	LC	0.000	0.020		0.089	0.080	111%	60 - 120	
Acequinocyl	LC	0.007	0.025		0.070	0.080	88%	60 - 120	
Acetamiprid	LC	0.000	0.050		0.067	0.080	83%	60 - 120	
Aldicarb	LC	0.000	0.100		0.344	0.400	86%	60 - 120	
Airetrin	LC	0.005	0.100		0.370	0.400	93%	60 - 120	
Atrazine	LC	0.000	0.025		0.061	0.080	76%	60 - 120	
Azadirachtin	LC	0.070	0.500		0.630	0.800	79%	60 - 120	
Azoxystrobin	LC	0.000	0.010		0.033	0.040	82%	60 - 120	
Benzovindiflupyr	LC	0.000	0.010		0.034	0.040	86%	60 - 120	
Bifenazate	LC	0.000	0.010		0.036	0.040	89%	60 - 120	
Bifenthrin	LC	0.005	0.100		0.336	0.400	84%	60 - 120	
Boscalid	LC	0.001	0.010		0.031	0.040	77%	60 - 120	
Buprofezin	LC	0.000	0.010		0.036	0.040	91%	60 - 120	
Carbaryl	LC	0.002	0.025		0.065	0.080	81%	60 - 120	
Carbofuran	LC	0.000	0.010		0.029	0.040	72%	60 - 120	
Chlorantraniliprole	LC	0.001	0.010		0.026	0.040	66%	60 - 120	
Chlorfenapyr	LC	0.016	0.050		0.170	0.200	85%	60 - 120	
Chlorpyrifos	LC	0.002	0.010		0.036	0.040	89%	60 - 120	
Clofentezine	LC	0.002	0.300		0.030	0.040	75%	60 - 120	
Clothianidin	LC	0.004	0.025		0.050	0.080	62%	60 - 120	
Coumaphos	LC	0.000	0.010		0.033	0.040	81%	60 - 120	
Cyantraniliprole	LC	0.000	0.010		0.023	0.040	57%	60 - 120	Q7
Cyfluthrin	LC	0.011	0.200		0.699	0.800	87%	60 - 120	
Cyhalothrin, Lambda	LC	0.012	0.250		0.682	0.800	85%	60 - 120	
Cypermethrin	LC	0.000	0.300		0.756	0.800	95%	60 - 120	
Cyprodinil	LC	0.002	0.010		0.032	0.040	80%	60 - 120	
Daminozide	LC	0.002	0.050		0.058	0.200	29%	60 - 120	Q7
Deltamethrin	LC	0.000	0.500		0.659	0.800	82%	60 - 120	
Diazinon	LC	0.001	0.010		0.034	0.040	86%	60 - 120	
Dichlorvos	LC	0.002	0.050		0.173	0.200	87%	60 - 120	
Dimethoate	LC	0.000	0.010		0.034	0.040	86%	60 - 120	
Dimethomorph	LC	0.005	0.050		0.153	0.200	77%	60 - 120	
Dinotefuran	LC	0.000	0.050		0.159	0.200	79%	60 - 120	
Diuron	LC	0.000	0.125		0.342	0.400	86%	60 - 120	
Dodemorph	LC	0.001	0.050		0.156	0.200	78%	60 - 120	
Endosulfan sulfate	LC	0.001	0.050		0.203	0.200	102%	60 - 120	
Ethoprophos	LC	0.000	0.010		0.032	0.040	80%	60 - 120	
Etofenprox	LC	0.003	0.010		0.034	0.040	84%	60 - 120	
Etoxazole	LC	0.000	0.010		0.034	0.040	85%	60 - 120	
Fenhexamid	LC	0.009	0.100		0.271	0.400	68%	60 - 120	
Fenoxycarb	LC	0.006	0.010		0.034	0.040	86%	60 - 120	
Fenpyroximate	LC	0.001	0.020		0.070	0.080	87%	60 - 120	
Fensulfothion	LC	0.000	0.010		0.040	0.040	99%	60 - 120	
Fenthion	LC	0.000	0.010		0.027	0.040	68%	60 - 120	
Fenvalerate	LC	0.007	0.100		0.319	0.400	80%	60 - 120	
Fipronil	LC	0.000	0.010		0.044	0.040	111%	60 - 120	
Flonicamid	LC	0.004	0.025		0.052	0.080	65%	60 - 120	
Fludioxonil	LC	0.000	0.010		0.051	0.040	127%	70 - 130	



Revision: 5 Document ID: 3828
Validation Approved Date:

Laboratory Pesticide Quality Control Results

AOAC 2007.01 & EN 15662		Group	1	Units: mg/Kg		Batch ID: 2508608				
Matrix Spike/Matrix Spike Duplicate Recoveries										
Analyte	Inst.	Result	MS Res	MSD Res	Spike	RPD%	MS % Rec	MSD % Rec	Limits	Notes
Chlordane (cis+trans)	GC	#N/A	#N/A	#N/A	0.400	NA	#N/A	#N/A	50 - 150	
Endosulfan I (alpha)	GC	#N/A	#N/A	#N/A	0.100	NA	#N/A	#N/A	50 - 150	
Endosulfan II (beta)	GC	#N/A	#N/A	#N/A	0.100	NA	#N/A	#N/A	50 - 150	
Etridiazole	GC	#N/A	#N/A	#N/A	0.100	NA	#N/A	#N/A	50 - 150	
Kinoprene	LC	0.000	0.147	0.155	0.200	5.4%	73%	78%	50 - 150	
Metolachlor	GC	#N/A	#N/A	#N/A	0.200	NA	#N/A	#N/A	50 - 150	
Quintozene	GC	#N/A	#N/A	#N/A	0.040	NA	#N/A	#N/A	50 - 150	
Captan	GC	#N/A	#N/A	#N/A	1.400	NA	#N/A	#N/A	50 - 150	
Abamectin	LC	0.000	0.235	0.244	0.280	3.4%	84%	87%	50 - 150	
Acephate	LC	0.000	0.083	0.089	0.080	8.0%	103%	112%	50 - 150	
Acequinocyl	LC	0.000	0.061	0.069	0.080	13.3%	76%	87%	50 - 150	
Acetamiprid	LC	0.000	0.070	0.069	0.080	2.3%	88%	86%	50 - 150	
Aldicarb	LC	0.000	0.354	0.349	0.400	1.5%	89%	87%	50 - 150	
Allethrin	LC	0.001	0.313	0.302	0.400	3.5%	78%	75%	50 - 150	
Atrazine	LC	0.000	0.066	0.069	0.080	4.6%	82%	86%	50 - 150	
Azadirachtin	LC	0.000	0.530	0.573	0.800	7.9%	66%	72%	50 - 150	
Azoxystrobin	LC	0.000	0.035	0.036	0.040	2.0%	88%	89%	50 - 150	
Benzovindiflupyr	LC	0.000	0.032	0.036	0.040	10.9%	81%	90%	50 - 150	
Bifenazate	LC	0.000	0.035	0.035	0.040	0.8%	87%	87%	50 - 150	
Bifenthrin	LC	0.010	0.280	0.301	0.400	7.5%	68%	73%	50 - 150	
Boscalid	LC	0.001	0.032	0.034	0.040	7.1%	76%	81%	50 - 150	
Buprofezin	LC	0.000	0.035	0.035	0.040	2.8%	89%	86%	50 - 150	
Carbaryl	LC	0.001	0.076	0.070	0.080	8.9%	95%	87%	50 - 150	
Carbofuran	LC	0.000	0.035	0.035	0.040	1.3%	88%	87%	50 - 150	
Chlorantraniliprole	LC	0.000	0.033	0.037	0.040	10.9%	82%	91%	50 - 150	
Chlortenapyr	LC	0.000	0.145	0.057	0.200	86.7%	72%	29%	50 - 150	R, Q
Chlorpyrifos	LC	0.002	0.033	0.033	0.040	0.4%	78%	78%	50 - 150	
Clofentezine	LC	0.002	0.033	0.039	0.040	17.5%	77%	92%	50 - 150	
Clothianidin	LC	0.000	0.063	0.063	0.080	0.6%	78%	79%	50 - 150	
Coumaphos	LC	0.000	0.034	0.033	0.040	3.3%	85%	82%	50 - 150	
Cyantraniliprole	LC	0.000	0.028	0.032	0.040	13.4%	70%	80%	50 - 150	
Cyfluthrin	LC	0.026	0.612	0.600	0.800	2.1%	73%	72%	50 - 150	
Cyhalothrin, Lambda	LC	0.018	0.583	0.594	0.800	1.9%	71%	72%	50 - 150	
Cypermethrin	LC	0.001	0.581	0.658	0.800	12.5%	72%	82%	50 - 150	
Cyprodinil	LC	0.003	0.031	0.032	0.040	6.0%	70%	74%	50 - 150	
Daminozide	LC	0.000	0.076	0.074	0.200	2.9%	38%	37%	50 - 150	Q7
Deltamethrin	LC	0.022	0.592	0.647	0.800	9.2%	71%	78%	50 - 150	
Diazinon	LC	0.001	0.037	0.036	0.040	2.2%	91%	89%	50 - 150	
Dichlorvos	LC	0.000	0.181	0.179	0.200	1.1%	91%	90%	50 - 150	
Dimethoate	LC	0.000	0.035	0.035	0.040	0.5%	88%	87%	50 - 150	
Dimethomorph	LC	0.005	0.168	0.164	0.200	2.4%	82%	80%	50 - 150	
Dinotefuran	LC	0.000	0.165	0.168	0.200	2.0%	83%	84%	50 - 150	
Diuron	LC	0.001	0.368	0.355	0.400	3.4%	92%	89%	50 - 150	
Dodemorph	LC	0.001	0.167	0.172	0.200	3.2%	83%	86%	50 - 150	
Endosulfan sulfate	LC	0.000	0.174	0.190	0.200	8.9%	87%	95%	50 - 150	
Ethoprophos	LC	0.000	0.038	0.037	0.040	1.8%	95%	93%	50 - 150	
Etofenprox	LC	0.001	0.032	0.032	0.040	1.5%	77%	78%	50 - 150	
Etozazole	LC	0.000	0.035	0.036	0.040	3.6%	87%	90%	50 - 150	
Fenhexamid	LC	0.009	0.331	0.333	0.400	0.4%	81%	81%	50 - 150	
Fenoxycarb	LC	0.000	0.034	0.033	0.040	4.3%	85%	82%	50 - 150	
Fenpyroximate	LC	0.002	0.068	0.065	0.080	4.7%	82%	79%	50 - 150	
Fensulfothion	LC	0.000	0.035	0.033	0.040	7.1%	88%	82%	50 - 150	
Fenthion	LC	0.000	0.033	0.035	0.040	6.7%	81%	87%	50 - 150	
Fenvalerate	LC	0.012	0.306	0.333	0.400	8.6%	74%	80%	50 - 150	
Fipronil	LC	0.000	0.035	0.035	0.040	0.4%	88%	88%	50 - 150	
Fonicamid	LC	0.002	0.060	0.060	0.080	0.6%	72%	73%	50 - 150	
Fludioxonil	LC	0.000	0.038	0.032	0.040	17.8%	95%	80%	50 - 150	



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

Laboratory Quality Control Results

Residual Solvents				Batch ID: 2508640						
Method Blank				Laboratory Control Sample						
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes	
1,1-Dichloroethane	ND	< 1		1.03	1	µg/g	103.0	50-150		
1,2-Dichloroethane	ND	< 1		1.03	1	µg/g	103.0	50-150		
1,2-Dichloroethene, trans-	ND	< 1		1.02	1	µg/g	102.0	50-150		
1,4-Dioxane	ND	< 100		539	509	µg/g	105.9	60-120		
1-Pentanol	ND	< 500		1370	1660	µg/g	82.5	50-150		
2,2-Dimethylbutane	ND	< 30		180	188	µg/g	95.7	60-120		
2,2-Dimethylpropane	ND	< 200		882	956	µg/g	92.3	60-120		
2,3-Dimethylbutane	ND	< 30		178	188	µg/g	94.7	60-120		
2-Butanol	ND	< 200		1590	1640	µg/g	97.0	60-120		
2-Ethoxyethanol	ND	< 30		180	188	µg/g	95.7	60-120		
2-methyl-1-propanol	ND	< 500		1730	1640	µg/g	105.5	50-150		
2-Methylbutane	ND	< 200		1560	1660	µg/g	94.0	60-120		
2-Methylpentane	ND	< 30		201	189	µg/g	106.3	60-120		
2-Propanol	ND	< 200		1670	1680	µg/g	99.4	60-120		
3-Methylpentane	ND	< 30		190	188	µg/g	101.1	60-120		
Acetone	ND	< 200		1610	1670	µg/g	96.4	60-120		
Acetonitrile	ND	< 100		481	511	µg/g	94.1	60-120		
Benzene	ND	< 1		1.1	1	µg/g	110.0	50-150		
Butane	ND	< 200		629	769	µg/g	81.8	60-120		
Cumene	ND	< 30		201	192	µg/g	104.7	60-120		
Cyclohexane	ND	< 200		1740	1650	µg/g	105.5	60-120		
Dichloromethane	ND	< 1		1.18	1	µg/g	118.0	50-150		
Ethanol	ND	< 200		1610	1650	µg/g	97.6	60-120		
Ethyl acetate	ND	< 200		1590	1630	µg/g	97.5	60-120		
Ethyl Ether	ND	< 200		1650	1630	µg/g	101.2	60-120		
Ethyl Formate	ND	< 500		1740	1680	µg/g	103.6	50-150		
Ethylbenzene	ND	< 200		1090	996	µg/g	109.4	60-120		
Ethylene Glycol	ND	< 200		469	520	µg/g	90.2	60-120		
Ethylene Oxide	ND	< 1		0.935	1	µg/g	93.5	50-150		
Heptane	ND	< 200		1580	1630	µg/g	96.9	60-120		
Hexane	ND	< 30		195	191	µg/g	102.1	60-120		
Isobutane	ND	< 200		626	770	µg/g	81.3	60-120		
Isobutyl Acetate	ND	< 500		1430	1660	µg/g	86.1	50-150		
Isopropyl Acetate	ND	< 200		1600	1660	µg/g	96.4	60-120		
m,p-Xylene	ND	< 200		1140	1030	µg/g	110.7	60-120		
Methanol	ND	< 200		1500	1660	µg/g	90.4	60-120		
Methylethylketone	ND	< 500		1490	1650	µg/g	90.3	50-150		
N,N-dimethylacetamide	ND	< 150		457	503	µg/g	90.9	50-150		
N,N-dimethylformamide	ND	< 150		566	532	µg/g	106.4	50-150		
o-Xylene	ND	< 200		1070	996	µg/g	107.4	60-120		
Pentane	ND	< 200		1560	1630	µg/g	95.7	60-120		
Propane	ND	< 200		477	585	µg/g	81.5	60-120		
Propyl Acetate	ND	< 500		1420	1660	µg/g	85.5	50-150		
Tetrahydrofuran	ND	< 100		552	519	µg/g	106.4	60-120		
Toluene	ND	< 100		561	518	µg/g	108.3	60-120		
Triethylamine	ND	< 500		1500	1620	µg/g	92.6	50-150		



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

QC - Sample Duplicate

Sample ID: 25-013880-0001

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-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	
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-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	
Benzene	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Butane	ND	ND	200	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	
Ethyl Formate	ND	ND	500	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	
Isobutyl Acetate	ND	ND	500	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	
Methylethylketone	ND	ND	500	µg/g	0.0	< 20	Acceptable	
N,N-dimethylacetamide	ND	ND	150	µg/g	0.0	< 20	Acceptable	
N,N-dimethylformamide	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	
Tetrahydrofuran	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Toluene	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Triethylamine	ND	ND	500	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



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



Report Number: 25-013611/D001.R001
Report Date: 12/02/2025
ORELAP#: OR100028
Purchase Order:
Received: 11/10/25 09:32





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.