Columbia LABORATORIES
A Tentamus Company

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

Report Number: 24-013155/D001.R000
Report Date: 12/04/2024
ORELAP#: OR100028
Purchase Order:
Received: 11/20/24 15:21

Customer: The Hemp Collect
Product identity: Live D9 Anytime Caramel
Client/Metrc ID: 5004SH_111224
Laboratory ID: 24-013155-0001

Summary

Potency:

Analyte per 18g	Result	Limits	Units	Status
CBD per 18g	1.82		mg/18g	
CBD-A per 18g	2.34		mg/18g	
CBG per 18g	1.78		mg/18g	
CBN per 18g	1.10		mg/18g	
Δ9-THC per 18g	40.0		mg/18g	

Delta-9-THC-Total per 40.0 mg/18g

CBD-Total per Serving Size 3.87 mg/18g

(Reported in milligrams per serving)

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:

Analyte	Result	Units
Aerobic Plate Count	4,090	cfu/g

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Customer: The Hemp Collect
IHC LLC
825 NW 16th Ave
Portland Oregon 97209
United States of America (USA)

Product identity: Live D9 Anytime Caramel
Client/Metrc ID: 5004SH_111224
Sample Date:
Laboratory ID: 24-013155-0001
Evidence of Cooling: No
Temp: 17.9 °C
Lot #: 5004SH_111224
Serving Size #1: 18 g

THE HEMP COLLECT

Sample Results

Potency per 18g **Method:** J AOAC 2015 V98-6 (mod)þ **Units** mg/se **Batch:** 2409102 **Analyze:** 11/22/24 9:12:00 PM

Analyte	Result	Limits	Units	LOQ	Notes
CBD per 18g	1.82		mg/18g	0.563	
CBD-A per 18g⊥	2.34		mg/18g	0.563	
CBD-Total per 18g⊥	3.87		mg/18g	1.06	
CBG per 18g	1.78		mg/18g	0.563	
CBG-A per 18g	< LOQ		mg/18g	0.563	
CBG-Total per 18g	1.78		mg/18g	1.05	
CBN per 18g	1.10		mg/18g	0.563	
Δ10-THC-9R per 18g	< LOQ		mg/18g	0.563	
Δ10-THC-9S per 18g	< LOQ		mg/18g	0.563	
Δ10-THC-Total per 18g	< LOQ		mg/18g	1.13	
Δ8-THC per 18g⊥	< LOQ		mg/18g	0.563	
Δ9-THC per 18g⊥	40.0		mg/18g	0.563	
Δ9-THC-Total per 18g	40.0		mg/18g	1.06	
THC-A per 18g⊥	< LOQ		mg/18g	0.563	

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed	Method	Status	Notes
Aerobic Plate Count	4,090		cfu/g	10	2409011	11/23/24	AOAC 990.12 (Petrifilm)		
E.coli	< LOQ		cfu/g	10	2409008	11/23/24	AOAC 991.14 (Petrifilm)		
Total Coliforms	< LOQ		cfu/g	10	2409008	11/23/24	AOAC 991.14 (Petrifilm)		
Staphylococcus aureus	< LOQ		cfu/g	10	2409013	11/22/24	AOAC 2003.07		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2409010	11/24/24	AOAC 2014.05 (RAPID)		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2409010	11/24/24	AOAC 2014.05 (RAPID)		
Listeria spp.	Negative		/5g		2409016	11/22/24	AOAC 2019.10		
Salmonella spp.⊥	Negative		/g		2409014	11/22/24	AOAC 2020.02þ		
EHEC including STEC⊥	Negative		/g		2409015	11/22/24	AOAC RI 121806þ		

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Solvents **Method:** Residual Solvents by HS-GC-MS^{b} **Units** µg/g **Batch** 2409148 **Analyze** 11/26/24 10:25 AM

Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
1,4-Dioxane$^{\perp}$	< LOQ		100			2-Butanol$^{\perp}$	< LOQ		200		
2-Ethoxyethanol$^{\perp}$	< LOQ		30.0			2-Methylbutane (Isopentane)$^{\perp}$	< LOQ		200		
2-Methylpentane$^{\perp}$	< LOQ		30.0			2-Propanol (IPA)$^{\perp}$	< LOQ		200		
2,2-Dimethylbutane$^{\perp}$	< LOQ		30.0			2,2-Dimethylpropane (neo-pentane)$^{\perp}$	< LOQ		200		
2,3-Dimethylbutane$^{\perp}$	< LOQ		30.0			3-Methylpentane$^{\perp}$	< LOQ		30.0		
Acetone$^{\perp}$	< LOQ		200			Acetonitrile$^{\perp}$	< LOQ		100		
Benzene$^{\perp}$	< LOQ		1.00			Butanes (sum)$^{\perp}$	< LOQ		400		
Cyclohexane$^{\perp}$	< LOQ		200			Ethyl acetate$^{\perp}$	< LOQ		200		
Ethyl benzene	< LOQ		200			Ethyl ether$^{\perp}$	< LOQ		200		
Ethylene glycol$^{\perp}$	< LOQ		200			Ethylene oxide$^{\perp}$	< LOQ		20.0		
Hexanes (sum)$^{\perp}$	< LOQ		150			Isopropyl acetate$^{\perp}$	< LOQ		200		
Isopropylbenzene (Cumene)$^{\perp}$	< LOQ		30.0			m,p-Xylene$^{\perp}$	< LOQ		200		
Methanol$^{\perp}$	< LOQ		200			Methylene chloride$^{\perp}$	< LOQ		60.0		
Methylpropane (Isobutane)$^{\perp}$	< LOQ		200			n-Butane$^{\perp}$	< LOQ		200		
n-Heptane$^{\perp}$	< LOQ		200			n-Hexane$^{\perp}$	< LOQ		30.0		
n-Pentane$^{\perp}$	< LOQ		200			o-Xylene$^{\perp}$	< LOQ		200		
Pentanes (sum)	< LOQ		600			Propane	< LOQ		200		
Tetrahydrofuran$^{\perp}$	< LOQ		100			Toluene$^{\perp}$	< LOQ		100		
Total Xylenes$^{\perp}$	< LOQ		400			Total Xylenes and Ethyl benzene	< LOQ		600		

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Pesticides

Method: AOAC 2007.01 & EN 15662 (mod) **Units** mg/kg **Batch** 2409109 **Analyze** 11/25/24 11:56 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	0.0184	2409072	11/22/24	AOAC 2013.06 (mod.)þ		
Cadmium⊥	< LOQ		mg/kg	0.0184	2409072	11/22/24	AOAC 2013.06 (mod.)þ		
Lead⊥	< LOQ		mg/kg	0.0184	2409072	11/22/24	AOAC 2013.06 (mod.)þ		
Mercury⊥	< LOQ		mg/kg	0.00918	2409072	11/22/24	AOAC 2013.06 (mod.)þ		

Notes:

See attached Mycotoxin results

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Mycotoxins **Method: SUBCONTRACT**

Mycotoxins

Pass

866 LCQQQ6 20241126-2

Analyte	LOQ	Limit	Result	Status
	PPB	PPB	PPB	
B1	10.00		<LOQ	Tested
B2	10.00		<LOQ	Tested
G1	10.00		<LOQ	Tested
G2	10.00		<LOQ	Tested
Ochratoxin A	10.00	20.00	<LOQ	Pass
Total Aflatoxins	10.00	20.00	<LOQ	Pass

Method: Modified AOAC 2007.01, Triple Quad analysis; LOQ = Limit of Quantification; PPB = Parts Per Billion; ND = Not Detected; NR = Not Reported; ORELAP ID 4057. ChemHistory estimates its internal laboratory uncertainty acceptance limits to be 7% for sample pesticide results.

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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.

þ = 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
mg/kg = Milligram per kilogram = parts per million (ppm)
mg/18g = Milligram per 18g
/5g = Per 5 grams
/g = Per gram
% = Percentage of sample
% wt = µg/g divided by 10,000

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Columbia LABORATORIES
A Tentamus Company

Hemp & Cannabis Chain of Custody

The-Hemp-Collect-1731351533

Company Details
Company: The Hemp Collect
Contact: Sierra Solnick
Street Address: 2014 SE 9th Ave
City, State, Zip: Portland, OR 97214
Email: sierra@thehempcollect.com
Contact Phone: 8607520027

Billing Information
Billing Email: accounting@thehempcollect.com

Project Details
Turnaround Time: 2 Business Days | Surcharges Apply
Relinquishment | Sampling, Courier & Shipping Options: By Shipping Service (USPS, UPS, Fedex)

Receipt Information
Prelog Storage: Canna Shelves
Sample Condition: Satisfactory

#	Sample Name	Lot | Additional Sample ID	Material	METRC ID	Amount Provided	Reporting Unit	Specifications	Testing: M9000 - Micro Profile X	H0013 - Cannabis Heavy Metals Profile OR	H0008 - Residual Solvents (Cannabis - Oregon)	H0014 - Potency Cannabis (Basic)	H0042 - Aflatoxins+Ochratoxin | OLCC	P2120 - Pesticides (OR - Cannabis)
1	Live D9 Anytime Caramel	5004SH_111224	Cannabinoid Edible	5004SH_111224	2 each	mg/g	mg/18 g Caramel	✓	✓	✓	✓	✓	✓

Relinquished By	Date	Time	Received By	Date	Time	Received Temp., °C	Evidence of Cooling?

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.

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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: 2409102**

Laboratory Control Sample

Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	2	0.0317	0.0317	%	100.0	80.0 - 120	Acceptable	
CBDV	2	0.0315	0.0320	%	98.4	80.0 - 120	Acceptable	
CBE	2	0.0344	0.0346	%	99.5	80.0 - 120	Acceptable	
CBDA	1	0.0348	0.0347	%	100	90.0 - 110	Acceptable	
CBGA	1	0.0346	0.0340	%	102	80.0 - 120	Acceptable	
CBG	1	0.0338	0.0333	%	101	80.0 - 120	Acceptable	
CBD	1	0.0325	0.0325	%	99.9	90.0 - 110	Acceptable	
THCV	2	0.0321	0.0324	%	99.0	80.0 - 120	Acceptable	
d8THCV	2	0.0339	0.0348	%	97.4	80.0 - 120	Acceptable	
THCVA	2	0.0310	0.0311	%	99.6	80.0 - 120	Acceptable	
CBN	1	0.0322	0.0321	%	100	80.0 - 120	Acceptable	
exo-THC	2	0.0311	0.0322	%	96.7	80.0 - 120	Acceptable	
d9THC	1	0.0347	0.0347	%	100	90.0 - 110	Acceptable	
d8THC	1	0.0309	0.0317	%	97.3	90.0 - 110	Acceptable	
9S-d10THC	1	0.0340	0.0348	%	97.7	80.0 - 120	Acceptable	
CBL	2	0.0319	0.0335	%	95.2	80.0 - 120	Acceptable	
9R-d10THC	1	0.0343	0.0358	%	95.9	80.0 - 120	Acceptable	
CBC	2	0.0298	0.0319	%	93.3	80.0 - 120	Acceptable	
THCA	1	0.0366	0.0350	%	105	90.0 - 110	Acceptable	
CBCA	2	0.0325	0.0331	%	98.1	80.0 - 120	Acceptable	
CBLA	2	0.0319	0.0325	%	98.1	80.0 - 120	Acceptable	
d9THCP	2	0.0294	0.0323	%	90.8	80.0 - 120	Acceptable	
CBT	2	0.0293	0.0341	%	86.0	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

J AOAC 2015 V98-6 **Batch ID: 2409102**

Sample Duplicate Sample ID: **24-013103-0001**

Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00323	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.00323	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.00323	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.00323	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.00323	%	NA	< 20	Acceptable	
CBG	0.0165	0.0166	0.00323	%	0.548	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.00323	%	NA	< 20	Acceptable	
THCV	0.00754	0.00766	0.00323	%	1.47	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.00323	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00323	%	NA	< 20	Acceptable	
CBN	0.527	0.520	0.00323	%	1.35	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00323	%	NA	< 20	Acceptable	
d9THC	0.523	0.517	0.00323	%	1.26	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.00323	%	NA	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.00323	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.00323	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.00323	%	NA	< 20	Acceptable	
CBC	0.00879	0.00874	0.00323	%	0.578	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00323	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.00323	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.00323	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00323	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.00323	%	NA	< 20	Acceptable	

Abbreviations

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

Units of Measure:

% - Percent

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Revision: 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:** 2409109

Method Blank				Laboratory Control Sample					
Analyte	**Blank Result**	**Blank Limits**	**Notes**	**LCS Result**	**LCS Spike**	**LCS % Rec**	**Limits**		**Notes**
Abamectin	0.000	< 0.250		0.971	1.000	97.1	50.0	150	
Acephate	0.000	< 0.200		0.623	0.800	77.9	60.0	120	
Acequinocyl	0.000	< 1.000		1.166	4.000	***29.2***	40.0	160	**Q7**
Acetamiprid	0.004	< 0.100		0.368	0.400	92.1	60.0	120	
Aldicarb	0.000	< 0.200		0.649	0.800	81.1	60.0	120	
Azoxystrobin	0.014	< 0.100		0.343	0.400	85.7	60.0	120	
Bifenazate	0.000	< 0.100		0.594	0.400	***148.4***	60.0	120	**Q1**
Bifenthrin	0.018	< 0.100		0.351	0.400	87.8	50.0	150	
Boscalid	0.021	< 0.200		0.665	0.800	83.1	60.0	120	
Carbaryl	0.000	< 0.100		0.311	0.400	77.9	60.0	120	
Carbofuran	0.000	< 0.100		0.339	0.400	84.7	60.0	120	
Chlorantraniliprole	0.000	< 0.100		0.318	0.400	79.6	60.0	120	
Chlorfenapyr	0.000	< 0.500		1.655	2.000	82.8	60.0	120	
Chlorpyrifos	0.000	< 0.100		0.371	0.400	92.7	60.0	120	
Clofentezine	0.004	< 0.100		0.210	0.400	***52.4***	60.0	120	**Q7**
Cyfluthrin	0.000	< 0.500		1.522	2.000	76.1	50.0	150	
Cypermethrin	0.000	< 0.500		1.650	2.000	82.5	50.0	150	
Daminozide	0.145	< 0.500		1.232	2.000	61.6	60.0	120	
Diazinon	0.003	< 0.100		0.393	0.400	98.2	60.0	120	
Dichlorvos	0.087	< 0.500		1.442	2.000	72.1	60.0	120	
Dimethoate	0.014	< 0.100		0.331	0.400	82.7	60.0	120	
Ethoprophos	0.021	< 0.100		0.317	0.400	79.3	60.0	120	
Etofenprox	0.030	< 0.200		0.709	0.800	88.6	50.0	150	
Etoxazole	0.006	< 0.100		0.340	0.400	85.1	60.0	120	
Fenoxycarb	0.004	< 0.100		0.352	0.400	88.0	60.0	120	
Fenpyroximate	0.011	< 0.200		0.630	0.800	78.7	60.0	120	
Fipronil	0.000	< 0.200		0.589	0.800	73.6	60.0	120	
Flonicamid	0.000	< 0.250		0.824	1.000	82.4	60.0	120	
Fludioxonil	0.008	< 0.200		0.705	0.800	88.1	50.0	150	
Hexythiazox	0.007	< 0.250		0.838	1.000	83.8	60.0	120	
Imazalil	0.002	< 0.100		0.387	0.400	96.8	60.0	120	
Imidacloprid	0.012	< 0.200		0.729	0.800	91.1	60.0	120	
Kresoxim-methyl	0.000	< 0.200		0.724	0.800	90.5	60.0	120	
Malathion	0.008	< 0.100		0.338	0.400	84.4	60.0	120	
Metalaxyl	0.000	< 0.100		0.351	0.400	87.8	60.0	120	
Methiocarb	0.000	< 0.100		0.312	0.400	78.1	60.0	120	
Methomyl	0.001	< 0.200		0.747	0.800	93.3	60.0	120	
MGK-264	0.000	< 0.100		0.341	0.400	85.2	50.0	150	
Myclobutanil	0.000	< 0.100		0.364	0.400	91.1	60.0	120	
Naled	0.000	< 0.250		0.805	1.000	80.5	50.0	150	
Oxamyl	0.000	< 0.500		2.002	2.000	100.1	60.0	120	
Paclobutrazole	0.003	< 0.200		0.694	0.800	86.7	60.0	120	
Parathion-Methyl	0.015	< 0.100		0.343	0.400	85.8	50.0	150	
Permethrin	0.006	< 0.100		0.338	0.400	84.5	50.0	150	
Phosmet	0.000	< 0.100		0.337	0.400	84.3	50.0	150	
Piperonyl butoxide	0.000	< 0.500		1.717	2.000	85.9	60.0	120	
Prallethrin	0.000	< 0.100		0.345	0.400	86.4	60.0	120	
Propiconazole	0.000	< 0.200		0.658	0.800	82.3	60.0	120	
Propoxur	0.011	< 0.100		0.325	0.400	81.3	60.0	120	
Pyrethrin (Summe)	0.000	< 0.100		0.436	0.488	89.4	60.0	120	
Pyridaben	0.009	< 0.100		0.334	0.400	83.6	50.0	150	
Spinosad	0.000	< 0.100		0.359	0.388	92.4	50.0	150	
Spiromesifen	0.000	< 0.100		0.359	0.400	89.7	60.0	120	
Spirotetramat	0.006	< 0.100		0.334	0.400	83.6	60.0	120	
Spiroxamine	0.010	< 0.200		0.754	0.800	94.2	60.0	120	

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Revision: 3 Document ID: 3120
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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662 **Units:** mg/Kg **Batch ID:** 2409109

Matrix Spike/Matrix Spike Duplicate Recoveries **Sample ID: 24-013145-0003**

Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Abamectin	0.000	1.001	1.053	1.000	5.0%	< 30	100.1%	105.3%	50 - 150	
Acephate	0.000	0.641	0.658	0.800	2.7%	< 30	80.1%	82.3%	50 - 150	
Acequinocyl	0.000	1.215	2.291	4.000	61.4%	< 30	30.4%	57.3%	50 - 150	R,Q
Acetamiprid	0.000	0.378	0.387	0.400	2.3%	< 30	94.4%	96.7%	50 - 150	
Aldicarb	0.000	0.643	0.644	0.800	0.2%	< 30	80.3%	80.5%	50 - 150	
Azoxystrobin	0.013	0.340	0.349	0.400	2.7%	< 30	81.8%	84.0%	50 - 150	
Bifenazate	0.000	0.609	0.628	0.400	3.2%	< 30	152.2%	157.0%	50 - 150	Q
Bifenthrin	0.017	0.278	0.274	0.400	1.7%	< 30	65.2%	64.1%	50 - 150	
Boscalid	0.020	0.680	0.705	0.800	3.7%	< 30	82.4%	85.6%	50 - 150	
Carbaryl	0.014	0.310	0.305	0.400	1.8%	< 30	73.9%	72.6%	50 - 150	
Carbofuran	0.007	0.348	0.360	0.400	3.5%	< 30	85.3%	88.4%	50 - 150	
Chlorantraniliprole	0.000	0.326	0.330	0.400	1.1%	< 30	81.5%	82.4%	50 - 150	
Chlorfenapyr	0.070	1.683	1.516	2.000	10.9%	< 30	80.6%	72.3%	50 - 150	
Chlorpyrifos	0.000	0.398	0.400	0.400	0.6%	< 30	99.5%	100.1%	50 - 150	
Clofentezine	0.004	0.199	0.213	0.400	6.7%	< 30	48.8%	52.2%	50 - 150	Q
Cyfluthrin	0.000	1.666	1.501	2.000	10.4%	< 30	83.3%	75.1%	30 - 150	
Cypermethrin	0.025	1.653	1.637	2.000	1.0%	< 30	81.4%	80.6%	50 - 150	
Daminozide	0.000	1.342	1.293	2.000	3.7%	< 30	67.1%	64.7%	30 - 150	
Diazinon	0.003	0.394	0.402	0.400	2.0%	< 30	97.8%	99.8%	50 - 150	
Dichlorvos	0.085	1.486	1.497	2.000	0.8%	< 30	70.0%	70.6%	50 - 150	
Dimethoate	0.014	0.323	0.331	0.400	2.5%	< 30	77.3%	79.3%	50 - 150	
Ethoprophos	0.021	0.317	0.330	0.400	4.3%	< 30	74.0%	77.3%	50 - 150	
Etofenprox	0.028	0.615	0.628	0.800	2.3%	< 30	73.3%	75.0%	50 - 150	
Etoxazole	0.006	0.325	0.322	0.400	0.9%	< 30	79.8%	79.1%	50 - 150	
Fenoxycarb	0.000	0.350	0.353	0.400	1.1%	< 30	87.4%	88.3%	50 - 150	
Fenpyroximate	0.011	0.619	0.626	0.800	1.1%	< 30	76.0%	76.9%	50 - 150	
Fipronil	0.000	0.574	0.581	0.800	1.2%	< 30	71.8%	72.6%	50 - 150	
Flonicamid	0.000	0.837	0.875	1.000	4.4%	< 30	83.7%	87.5%	50 - 150	
Fludioxonil	0.000	0.678	0.702	0.800	3.4%	< 30	84.8%	87.7%	50 - 150	
Hexythiazox	0.000	0.892	0.888	1.000	0.4%	< 30	89.2%	88.8%	50 - 150	
Imazalil	0.000	0.400	0.405	0.400	1.2%	< 30	99.9%	101.1%	50 - 150	
Imidacloprid	0.011	0.699	0.727	0.800	4.0%	< 30	86.0%	89.5%	50 - 150	
Kresoxim-methyl	0.007	0.722	0.711	0.800	1.5%	< 30	89.4%	88.0%	50 - 150	
Malathion	0.009	0.354	0.360	0.400	1.8%	< 30	86.3%	87.8%	50 - 150	
Metalaxyl	0.006	0.359	0.389	0.400	8.2%	< 30	88.2%	95.7%	50 - 150	
Methiocarb	0.015	0.319	0.323	0.400	1.4%	< 30	76.1%	77.2%	50 - 150	
Methomyl	0.000	0.780	0.816	0.800	4.4%	< 30	97.5%	101.9%	50 - 150	
MGK-264	0.000	0.342	0.335	0.400	2.1%	< 30	85.6%	83.8%	50 - 150	
Myclobutanil	0.015	0.380	0.391	0.400	2.9%	< 30	91.2%	93.9%	50 - 150	
Naled	0.000	0.797	0.809	1.000	1.5%	< 30	79.7%	80.9%	50 - 150	
Oxamyl	0.000	2.159	2.158	2.000	0.0%	< 30	107.9%	107.9%	50 - 150	
Paclobutrazole	0.003	0.720	0.747	0.800	3.8%	< 30	89.6%	93.1%	50 - 150	
Parathion-Methyl	0.018	0.355	0.270	0.400	28.8%	< 30	84.4%	63.1%	30 - 150	
Permethrin	0.007	0.362	0.343	0.400	5.4%	< 30	88.7%	84.0%	50 - 150	
Phosmet	0.000	0.349	0.351	0.400	0.5%	< 30	87.3%	87.7%	50 - 150	
Piperonyl butoxide	0.000	1.786	1.849	2.000	3.5%	< 30	89.3%	92.4%	50 - 150	
Prallethrin	0.000	0.338	0.335	0.400	0.8%	< 30	84.4%	83.8%	50 - 150	
Propiconazole	0.000	0.672	0.717	0.800	6.5%	< 30	84.0%	89.7%	50 - 150	
Propoxur	0.011	0.316	0.328	0.400	3.8%	< 30	76.4%	79.4%	50 - 150	
Pyrethrin (Summe)	0.000	0.446	0.423	0.488	5.2%	< 30	91.4%	86.7%	50 - 150	
Pyridaben	0.008	0.364	0.353	0.400	3.1%	< 30	89.1%	86.4%	50 - 150	
Spinosad	0.000	0.346	0.355	0.388	2.6%	< 30	89.2%	91.5%	50 - 150	
Spiromesifen	0.000	0.287	0.291	0.400	1.6%	< 30	71.6%	72.8%	50 - 150	
Spirotetramat	0.006	0.336	0.335	0.400	0.5%	< 30	82.5%	82.1%	50 - 150	
Spiroxamine	0.011	0.774	0.804	0.800	3.9%	< 30	95.4%	99.2%	50 - 150	

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Laboratory Quality Control Results

Residual Solvents **Batch ID:** 2409148

Method Blank					Laboratory Control Sample							
Analyte	**Result**		**LOQ**	**Notes**	**Result**	**Spike**	**Units**	**% Rec**	**Limits**			**Notes**
Propane	ND	<	200		482	585	µg/g	82.4	60	-	120	
Isobutane	ND	<	200		602	770	µg/g	78.2	60	-	120	
Butane	ND	<	200		621	769	µg/g	80.8	60	-	120	
2,2-Dimethylpropane	ND	<	200		769	956	µg/g	80.4	60	-	120	
Methanol	ND	<	200		1440	1620	µg/g	88.9	60	-	120	
Ethylene Oxide	ND	<	20		44.4	57.7	µg/g	76.9	60	-	120	
2-Methylbutane	ND	<	200		1430	1640	µg/g	87.2	60	-	120	
Pentane	ND	<	200		1450	1640	µg/g	88.4	60	-	120	
Ethanol	ND	<	200		1410	1620	µg/g	87.0	70	-	130	
Ethyl Ether	ND	<	200		1420	1630	µg/g	87.1	60	-	120	
2,2-Dimethylbutane	ND	<	30		183	212	µg/g	86.3	60	-	120	
Acetone	ND	<	200		1300	1630	µg/g	79.8	60	-	120	
2-Propanol	ND	<	200		1420	1620	µg/g	87.7	60	-	120	
Ethyl Formate	ND	<	500		1320	1600	µg/g	82.5	70	-	130	
Acetonitrile	ND	<	100		437	504	µg/g	86.7	60	-	120	
Methyl Acetate	ND	<	500		1620	1600	µg/g	101.3	70	-	130	
2,3-Dimethylbutane	ND	<	30		175	189	µg/g	92.6	60	-	120	
Dichloromethane	ND	<	60		441	538	µg/g	82.0	60	-	120	
2-Methylpentane	ND	<	30		166	182	µg/g	91.2	60	-	120	
MTBE	ND	<	500		1630	1600	µg/g	101.9	70	-	130	
3-Methylpentane	ND	<	30		160	179	µg/g	89.4	60	-	120	
Hexane	ND	<	30		158	178	µg/g	88.8	60	-	120	
1-Propanol	ND	<	500		1570	1600	µg/g	98.1	70	-	130	
Methylethylketone	ND	<	500		1610	1600	µg/g	100.6	70	-	130	
Ethyl acetate	ND	<	200		1460	1620	µg/g	90.1	60	-	120	
2-Butanol	ND	<	200		1450	1620	µg/g	89.5	60	-	120	
Tetrahydrofuran	ND	<	100		454	511	µg/g	88.8	60	-	120	
Cyclohexane	ND	<	200		1470	1620	µg/g	90.7	60	-	120	
2-methyl-1-propanol	ND	<	500		1550	1600	µg/g	96.9	70	-	130	
Benzene	ND	<	1		5.31	6.03	µg/g	88.1	60	-	120	
Isopropyl Acetate	ND	<	200		1490	1620	µg/g	92.0	60	-	120	
Heptane	ND	<	200		1440	1620	µg/g	88.9	60	-	120	
1-Butanol	ND	<	500		1550	1600	µg/g	96.9	70	-	130	
Propyl Acetate	ND	<	500		1630	1610	µg/g	101.2	70	-	130	
1,4-Dioxane	ND	<	100		447	503	µg/g	88.9	60	-	120	
2-Ethoxyethanol	ND	<	30		161	176	µg/g	91.5	60	-	120	
Methylisobutylketone	ND	<	500		1600	1610	µg/g	99.4	70	-	130	
3-Methyl-1-butanol	ND	<	500		1540	1600	µg/g	96.3	70	-	130	
Ethylene Glycol	ND	<	200		420	501	µg/g	83.8	60	-	120	
Toluene	ND	<	100		505	543	µg/g	93.0	60	-	120	
Isobutyl Acetate	ND	<	500		1580	1600	µg/g	98.8	70	-	130	
1-Pentanol	ND	<	500		1550	1600	µg/g	96.9	70	-	130	
Butyl Acetate	ND	<	500		1580	1600	µg/g	98.8	70	-	130	
Ethylbenzene	ND	<	200		917	983	µg/g	93.3	60	-	120	
m,p-Xylene	ND	<	200		909	1030	µg/g	88.3	60	-	120	
o-Xylene	ND	<	200		969	979	µg/g	99.0	60	-	120	
Cumene	ND	<	30		184	183	µg/g	100.5	60	-	120	
Anisole	ND	<	500		1690	1610	µg/g	105.0	70	-	130	
DMSO	ND	<	500		1500	1600	µg/g	93.8	70	-	130	
1,2-dimethoxyethane	ND	<	50		159	164	µg/g	97.0	70	-	130	
Triethylamine	ND	<	500		1560	1600	µg/g	97.5	70	-	130	
N,N-dimethylformamide	ND	<	150		448	481	µg/g	93.1	70	-	130	
N,N-dimethylacetamide	ND	<	150		522	486	µg/g	107.4	70	-	130	
Pyridine	ND	<	50		179	168	µg/g	106.5	70	-	130	
Sulfolane	ND	<	50		133	165	µg/g	80.6	70	-	130	
1,2-Dichloroethane	ND	<	1		1.12	1	µg/g	112.0	70	-	130	
Chloroform	ND	<	1		1.11	1	µg/g	111.0	70	-	130	
Trichloroethylene	ND	<	1		1.1	1	µg/g	110.0	70	-	130	
1,1-Dichloroethane	ND	<	1		1.08	1	µg/g	108.0	70	-	130	

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QC - Sample Duplicate **Sample ID: 24-013131-0001**

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	20	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	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Butanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Tetrahydrofuran	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Cyclohexane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-methyl-1-propanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Benzene	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Isopropyl Acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Heptane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
1-Butanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Propyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
1,4-Dioxane	ND	ND	100	µg/g	0.0	< 20	Acceptable	
2-Ethoxyethanol	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Methylisobutylketone	ND	ND	500	µg/g	0.0	< 20	Acceptable	
3-Methyl-1-butanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Ethylene Glycol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Toluene	ND	ND	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

Columbia LABORATORIES
A Tentamus Company

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

Report Number:	24-013155/D001.R000
Report Date:	12/04/2024
ORELAP#:	OR100028
Purchase Order:	
Received:	11/20/24 15:21

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Explanation of QC Flag Comments:

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