



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



Report Number: 24-012593/D001.R000
Report Date: 11/25/2024
ORELAP#: OR100028
Purchase Order:
Received: 11/07/24 10:39

Customer: Vita-Pros
Product identity: Super Sunny
Client/Metric ID: .
Laboratory ID: 24-012593-0001

Summary

Potency:

Analyte per 0.89g	Result	Limits	Units	Status	
Δ9-THC per 0.89g	2.54		mg/0.89g		Delta-9-THC-Total per 2.54 mg/0.89g
					CBD-Total per Serving Size <LOQ
					(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:

Less than LOQ for all analytes.



Customer: Vita-Pros
 8667 Jefferson Highway
 Osseo Minnesota 55369
 United States of America (USA)

Product identity: Super Sunny
Client/Metric ID: .
Sample Date:
Laboratory ID: 24-012593-0001
Evidence of Cooling: No
Temp: 20.5 °C
Lot #: 0207-03-001
Serving Size #1: 0.892 g

Sample Results

Potency per 0.89g	Method: J AOAC 2015 V98-6 (mod) ^b		Units mg/se	Batch: 2408740	Analyze: 11/12/24 12:46:00 A
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 0.89g	< LOQ		mg/0.89g	0.0279	
CBC-A per 0.89g	< LOQ		mg/0.89g	0.0279	
CBC-Total per 0.89g	< LOQ		mg/0.89g	0.0523	
CBD per 0.89g	< LOQ		mg/0.89g	0.0279	
CBD-A per 0.89g [±]	< LOQ		mg/0.89g	0.0279	
CBD-Total per 0.89g [±]	< LOQ		mg/0.89g	0.0523	
CBDV per 0.89g	< LOQ		mg/0.89g	0.0279	
CBDV-A per 0.89g	< LOQ		mg/0.89g	0.0279	
CBDV-Total per 0.89g	< LOQ		mg/0.89g	0.0520	
CBE per 0.89g	< LOQ		mg/0.89g	0.0279	
CBG per 0.89g	< LOQ		mg/0.89g	0.0279	
CBG-A per 0.89g	< LOQ		mg/0.89g	0.0279	
CBG-Total per 0.89g	< LOQ		mg/0.89g	0.0520	
CBL per 0.89g	< LOQ		mg/0.89g	0.0279	
CBL-A per 0.89g	< LOQ		mg/0.89g	0.0279	
CBL-Total per 0.89g	< LOQ		mg/0.89g	0.0523	
CBN per 0.89g	< LOQ		mg/0.89g	0.0279	
CBT per 0.89g	< LOQ		mg/0.89g	0.0279	
Δ10-THC-9R per 0.89g	< LOQ		mg/0.89g	0.0279	
Δ10-THC-9S per 0.89g	< LOQ		mg/0.89g	0.0279	
Δ10-THC-Total per 0.89g	< LOQ		mg/0.89g	0.0558	
Δ8-THC per 0.89g [±]	< LOQ		mg/0.89g	0.0279	
Δ8-THCV per 0.89g	< LOQ		mg/0.89g	0.0279	
Δ9-THC per 0.89g [±]	2.54		mg/0.89g	0.0279	
Δ9-THC-Total per 0.89g	2.54		mg/0.89g	0.0523	
Δ9-THCP per 0.89g	< LOQ		mg/0.89g	0.0279	
Δ9-THCV per 0.89g	< LOQ		mg/0.89g	0.0279	
Δ9-THCV-A per 0.89g	< LOQ		mg/0.89g	0.0279	
Δ9-THCV-Total per 0.89g	< LOQ		mg/0.89g	0.0523	



Potency per 0.89g **Method:** J AOAC 2015 V98-6 (mod)^b **Units** mg/se **Batch:** 2408740 **Analyze:** 11/12/24 12:46:00 A

Analyte	Result	Limits	Units	LOQ	Notes
exo-THC per 0.89g	< LOQ		mg/0.89g	0.0279	
THC-A per 0.89g ¹	< LOQ		mg/0.89g	0.0279	
Total Cannabinoids per 0.89g	2.54		mg/0.89g		

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2408933	11/21/24 AOAC 991.14 (Petrifilm)		
Total Coliforms	< LOQ		cfu/g	10	2408933	11/21/24 AOAC 991.14 (Petrifilm)		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2408934	11/22/24 AOAC 2014.05 (RAPID)		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2408934	11/22/24 AOAC 2014.05 (RAPID)		

Solvents **Method:** Residual Solvents by HS-GC-MS^b **Units** µg/g **Batch** 2409032 **Analyze** 11/21/24 12:50 PM

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



Pesticides						Method: AOAC 2007.01 & EN 15662 (mod)						Units mg/kg		Batch 2408990		Analyze 11/20/24 10:37 AM					
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ
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	0.0197	2409064	11/21/24	AOAC 2013.06 (mod.) ^b				
Cadmium [±]	< LOQ		mg/kg	0.0197	2409064	11/21/24	AOAC 2013.06 (mod.) ^b				
Lead [±]	< LOQ		mg/kg	0.0197	2409064	11/21/24	AOAC 2013.06 (mod.) ^b				
Mercury [±]	< LOQ		mg/kg	0.00984	2409064	11/21/24	AOAC 2013.06 (mod.) ^b				



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.

Ⓐ = 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/0.89g = Milligram per 0.89g

% = Percentage of sample

% wt = µg/g divided by 10,000



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Report Number: 24-012593/D001.R000
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ORELAP#: OR100028
Purchase Order:
Received: 11/07/24 10:39



Hemp & Cannabis
Chain of Custody

VitaPros-1730757155

Company Details Company: <u>Vita-Pros</u> Contact: <u>Simon Cashmore</u> Street Address: <u>8667 Jefferson Highway</u> City, State, Zip: <u>Osseo, MN 55369</u> Email: <u>Simon@vita-pros.com</u> Email, CC: <u>Emilie@vita-pros.com</u> Contact Phone: <u>7633372041</u> Company Phone: <u>6127704830</u> Billing Information Billing Phone: <u>7633372041</u> Billing Email: <u>Simon@vita-pros.com</u>			Project Details Turnaround Time: <u>5 Business Days</u> Req. For Micro Testing <u>Standard</u> Relinquishment Sampling, Courier & Shipping Options: <u>By Shipping Service (USPS, UPS, Fedex)</u> Receipt Information Prelog Storage: <u>Canna Shelves</u> Sample Condition: <u>Satisfactory</u>			Testing H0010 - Potency Cannabis (Basic-Expanded)	
#	Sample Name	Lot Additional Sample ID	Material	Amount Provided	Reporting Unit	Serving Size	
1	Super Sunny	0207-03-001	Cannabinoid Edible	20 each	mg/serving	1each	✓

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.

Columbia Laboratories
12423 NE Whitaker Way
Portland, OR 97230

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Page 1 of 1
www.columbialaboratories.com



Laboratory Quality Control Results

JAOAC2015 V986 Batch ID: 2408740

Laboratory Control Sample

Analyte	LCS	Result	Spike	Units	%Rec	Limits	Evaluation	Notes
CBDA	2	0.0322	0.0325	%	99.2	80.0 - 120	Acceptable	
CBV	2	0.0324	0.0328	%	98.8	80.0 - 120	Acceptable	
CB	2	0.0350	0.0354	%	98.8	80.0 - 120	Acceptable	
CBDA	1	0.0364	0.0361	%	101	90.0 - 110	Acceptable	
CBGA	1	0.0347	0.0345	%	101	80.0 - 120	Acceptable	
CBG	1	0.0345	0.0342	%	101	80.0 - 120	Acceptable	
CB	1	0.0324	0.0331	%	97.9	90.0 - 110	Acceptable	
THCV	2	0.0322	0.0331	%	97.3	80.0 - 120	Acceptable	
d8THCV	2	0.0347	0.0356	%	97.6	80.0 - 120	Acceptable	
THCVA	2	0.0318	0.0318	%	99.8	80.0 - 120	Acceptable	
CBN	1	0.0328	0.0332	%	98.9	80.0 - 120	Acceptable	
exo-THC	2	0.0315	0.0329	%	95.6	80.0 - 120	Acceptable	
d9THC	1	0.0333	0.0336	%	99.1	90.0 - 110	Acceptable	
d8THC	1	0.0317	0.0337	%	94.2	90.0 - 110	Acceptable	
9Sd10THC	1	0.0329	0.0346	%	95.0	80.0 - 120	Acceptable	
CB	2	0.0302	0.0343	%	88.2	80.0 - 120	Acceptable	
9Rd10THC	1	0.0333	0.0355	%	93.8	80.0 - 120	Acceptable	
CB	2	0.0306	0.0327	%	93.7	80.0 - 120	Acceptable	
THCA	1	0.0360	0.0349	%	103	90.0 - 110	Acceptable	
CBGA	2	0.0331	0.0339	%	97.6	80.0 - 120	Acceptable	
CBLA	2	0.0328	0.0332	%	98.9	80.0 - 120	Acceptable	
d9THCP	2	0.0280	0.0331	%	84.5	80.0 - 120	Acceptable	
CB	2	0.0285	0.0349	%	81.7	80.0 - 120	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDA	<LOQ	0.00310	%	< 0.00310	Acceptable	
CBV	<LOQ	0.00310	%	< 0.00310	Acceptable	
CB	<LOQ	0.00310	%	< 0.00310	Acceptable	
CBDA	<LOQ	0.00310	%	< 0.00310	Acceptable	
CBGA	<LOQ	0.00310	%	< 0.00310	Acceptable	
CBG	<LOQ	0.00310	%	< 0.00310	Acceptable	
CB	<LOQ	0.00310	%	< 0.00310	Acceptable	
THCV	<LOQ	0.00310	%	< 0.00310	Acceptable	
d8THCV	<LOQ	0.00310	%	< 0.00310	Acceptable	
THCVA	<LOQ	0.00310	%	< 0.00310	Acceptable	
CBN	<LOQ	0.00310	%	< 0.00310	Acceptable	
exo-THC	<LOQ	0.00310	%	< 0.00310	Acceptable	
d9THC	<LOQ	0.00310	%	< 0.00310	Acceptable	
d8THC	<LOQ	0.00310	%	< 0.00310	Acceptable	
9Sd10THC	<LOQ	0.00310	%	< 0.00310	Acceptable	
CB	<LOQ	0.00310	%	< 0.00310	Acceptable	
9Rd10THC	<LOQ	0.00310	%	< 0.00310	Acceptable	
CB	<LOQ	0.00310	%	< 0.00310	Acceptable	
THCA	<LOQ	0.00310	%	< 0.00310	Acceptable	
CBGA	<LOQ	0.00310	%	< 0.00310	Acceptable	
CBLA	<LOQ	0.00310	%	< 0.00310	Acceptable	
d9THCP	<LOQ	0.00310	%	< 0.00310	Acceptable	
CB	<LOQ	0.00310	%	< 0.00310	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

JAOAC2015 V986			Batch ID: 2408740					
Sample Duplicate			Sample ID: 24-0072650007					
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDA	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
CBV	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
CB	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
CB	0.00739	0.00719	0.00326	%	2.72	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
d9THC	0.290	0.291	0.00326	%	0.32	< 20	Acceptable	
d8THC	0.00482	0.00453	0.00326	%	6.17	< 20	Acceptable	
9Sd10THC	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
CB	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
9Rd10THC	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
CB	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	
CB	<LOQ	<LOQ	0.00326	%	NA	< 20	Acceptable	

Abbreviations

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

Units of Measure:

% - Percent



Laboratory Pesticide Quality Control Results

AOAC 2007.1 &EN 15662			Units: mg/Kg		Batch ID 2408990				
Method Bank			Laboratory Control Sample						
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spke	LCS% Re	Limits	Notes	
Abamectin	0.025	< 0.250		0.795	1.000	79.5	50.0 150		
Acephate	0.000	< 0.200		0.584	0.800	73.0	60.0 120		
Acequinocyl	0.000	< 1.000		1.902	4.000	47.6	40.0 160		
Acetamiprid	0.000	< 0.100		0.354	0.400	88.4	60.0 120		
Aldicarb	0.000	< 0.200		0.636	0.800	79.5	60.0 120		
Azoxystrobin	0.007	< 0.100		0.337	0.400	84.4	60.0 120		
Bifenazate	0.000	< 0.100		0.405	0.400	101.2	60.0 120		
Bifenthrin	0.000	< 0.100		0.386	0.400	96.5	50.0 150		
Boscalid	0.004	< 0.200		0.649	0.800	81.2	60.0 120		
Carbaryl	0.000	< 0.100		0.302	0.400	75.6	60.0 120		
Carbofuran	0.000	< 0.100		0.329	0.400	82.3	60.0 120		
Chlorantraniliprole	0.000	< 0.100		0.310	0.400	77.5	60.0 120		
Chlorfenapyr	0.000	< 0.500		1.535	2.000	76.7	60.0 120		
Chlorpyrifos	0.000	< 0.100		0.360	0.400	90.1	60.0 120		
Clofentezine	0.000	< 0.100		0.299	0.400	74.7	60.0 120		
Cyfluthrin	0.032	< 0.500		1.609	2.000	80.5	50.0 150		
Cypermethrin	0.046	< 0.500		1.599	2.000	80.0	50.0 150		
Daminozide	0.145	< 0.500		1.166	2.000	58.3	60.0 120	Q7	
Diazinon	0.000	< 0.100		0.355	0.400	88.7	60.0 120		
Dichlorvos	0.084	< 0.500		1.520	2.000	76.0	60.0 120		
Dimethoate	0.009	< 0.100		0.312	0.400	78.0	60.0 120		
Ethoprophos	0.007	< 0.100		0.304	0.400	76.1	60.0 120		
Etofenprox	0.000	< 0.200		0.869	0.800	108.7	50.0 150		
Etoazole	0.001	< 0.100		0.325	0.400	81.3	60.0 120		
Fenoxycarb	0.000	< 0.100		0.354	0.400	88.4	60.0 120		
Fenpyroximate	0.018	< 0.200		0.646	0.800	80.7	60.0 120		
Fipronil	0.000	< 0.200		0.594	0.800	74.3	60.0 120		
Flonicamid	0.000	< 0.250		0.759	1.000	75.9	60.0 120		
Fludioxonil	0.008	< 0.200		0.694	0.800	86.8	50.0 150		
Hexythiazox	0.000	< 0.250		0.831	1.000	83.1	60.0 120		
Imazalil	0.001	< 0.100		0.377	0.400	94.2	60.0 120		
Imidacloprid	0.052	< 0.200		0.686	0.800	85.7	60.0 120		
Kresoxim-methyl	0.000	< 0.200		0.671	0.800	83.9	60.0 120		
Malathion	0.008	< 0.100		0.343	0.400	85.9	60.0 120		
Metaxyl	0.000	< 0.100		0.349	0.400	87.3	60.0 120		
Methiocarb	0.002	< 0.100		0.323	0.400	80.8	60.0 120		
Methomyl	0.000	< 0.200		0.717	0.800	89.6	60.0 120		
MKG-264	0.000	< 0.100		0.339	0.400	84.9	50.0 150		
Myclobutanil	0.000	< 0.100		0.359	0.400	89.7	60.0 120		
Naled	0.000	< 0.250		0.787	1.000	78.7	50.0 150		
Oxamyl	0.000	< 0.500		1.808	2.000	90.4	60.0 120		
Padobutrazole	0.000	< 0.200		0.743	0.800	92.9	60.0 120		
Parathion-Methyl	0.000	< 0.100		0.360	0.400	90.0	50.0 150		
Permethrin	0.000	< 0.100		0.359	0.400	89.7	50.0 150		
Phosmet	0.000	< 0.100		0.348	0.400	87.0	50.0 150		
Piperonyl butoxide	0.000	< 0.500		1.846	2.000	92.3	60.0 120		
Prallethrin	0.000	< 0.100		0.341	0.400	85.2	60.0 120		
Propiconazole	0.000	< 0.200		0.689	0.800	86.1	60.0 120		
Propoxur	0.006	< 0.100		0.316	0.400	79.1	60.0 120		
Pyrethrin (Summe)	0.006	< 0.100		0.414	0.488	84.7	60.0 120		
Pyridaben	0.000	< 0.100		0.355	0.400	88.8	50.0 150		
Spinosad	0.000	< 0.100		0.331	0.388	85.3	50.0 150		
Spiromesifen	0.000	< 0.100		0.358	0.400	89.6	60.0 120		
Spirotetramat	0.004	< 0.100		0.323	0.400	80.7	60.0 120		
Spiroxamine	0.000	< 0.200		0.734	0.800	91.8	60.0 120		



Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662				Units: mg/Kg				Batch ID 2408990			
Matrix Spke/Matrix Spke Duplicate Recoveries						Sample ID: 24-0125930001					
Analyte	Result	MSR Res	MSD Res	Spike	RPD%	Limit	MS% Re	MSD % Re	Limits	Notes	
Abamectin	0.020	0.869	0.937	1.000	7.8%	< 30	84.9%	91.7%	50 - 150	R	
Acephate	0.000	0.457	0.440	0.800	3.8%	< 30	57.1%	55.0%	50 - 150		
Acequinocyl	0.000	2.456	4.159	4.000	51.5%	< 30	61.4%	104.0%	50 - 150		
Acetamiprid	0.000	0.374	0.387	0.400	3.4%	< 30	93.4%	96.7%	50 - 150		
Aldicarb	0.000	0.644	0.663	0.800	3.0%	< 30	80.5%	82.9%	50 - 150		
Azoxystrobin	0.008	0.348	0.336	0.400	3.6%	< 30	84.8%	81.8%	50 - 150		
Bifenazate	0.000	0.392	0.415	0.400	5.7%	< 30	98.0%	103.8%	50 - 150		
Bifenthrin	0.000	0.335	0.377	0.400	11.7%	< 30	83.8%	94.2%	50 - 150		
Boscalid	0.003	0.597	0.621	0.800	4.0%	< 30	74.2%	77.2%	50 - 150		
Carbaryl	0.007	0.317	0.318	0.400	0.2%	< 30	77.5%	77.7%	50 - 150		
Carbofuran	0.000	0.331	0.340	0.400	2.6%	< 30	82.7%	84.9%	50 - 150		
Chlorantraniliprole	0.000	0.314	0.331	0.400	5.2%	< 30	78.6%	82.8%	50 - 150		
Chlorfenapyr	0.000	1.497	1.574	2.000	5.0%	< 30	74.8%	78.7%	50 - 150		
Chlorpyrifos	0.000	0.368	0.381	0.400	3.2%	< 30	92.1%	95.1%	50 - 150		
Clofentezine	0.000	0.358	0.380	0.400	6.0%	< 30	89.6%	95.1%	50 - 150		
Cyfluthrin	0.034	1.552	1.676	2.000	7.8%	< 30	75.9%	82.1%	30 - 150		
Cypermethrin	0.045	1.692	1.721	2.000	1.7%	< 30	82.3%	83.8%	50 - 150		
Daminozide	0.108	0.856	0.865	2.000	1.1%	< 30	37.4%	37.8%	30 - 150		
Diazinon	0.000	0.392	0.408	0.400	4.0%	< 30	97.9%	101.9%	50 - 150		
Dichlorvos	0.083	1.577	1.581	2.000	0.3%	< 30	74.7%	74.9%	50 - 150		
Dimethoate	0.009	0.328	0.340	0.400	3.7%	< 30	79.8%	82.8%	50 - 150		
Ethoprophos	0.006	0.339	0.364	0.400	7.3%	< 30	83.1%	89.4%	50 - 150		
Etofenprox	0.000	0.820	0.851	0.800	3.7%	< 30	102.5%	106.4%	50 - 150		
Etoxazole	0.000	0.353	0.368	0.400	4.2%	< 30	88.2%	92.0%	50 - 150		
Fenoxycarb	0.000	0.383	0.395	0.400	3.2%	< 30	95.7%	98.8%	50 - 150		
Fenpyroximate	0.018	0.661	0.696	0.800	5.4%	< 30	80.4%	84.8%	50 - 150		
Fipronil	0.000	0.610	0.606	0.800	0.6%	< 30	76.3%	75.8%	50 - 150		
Flonicamid	0.000	0.769	0.800	1.000	4.0%	< 30	76.9%	80.0%	50 - 150		
Fludioxonil	0.008	0.698	0.713	0.800	2.1%	< 30	86.2%	88.0%	50 - 150		
Hexythiazox	0.000	0.894	0.927	1.000	3.6%	< 30	89.4%	92.7%	50 - 150		
Imazalil	0.000	0.408	0.408	0.400	0.1%	< 30	102.0%	102.1%	50 - 150		
Imidacloprid	0.000	0.706	0.719	0.800	1.9%	< 30	88.2%	89.9%	50 - 150		
Kresoxim-methyl	0.001	0.793	0.790	0.800	0.3%	< 30	99.0%	98.7%	50 - 150		
Malathion	0.008	0.344	0.395	0.400	13.9%	< 30	83.9%	96.5%	50 - 150		
Metalaxyl	0.000	0.374	0.406	0.400	8.4%	< 30	93.4%	101.6%	50 - 150		
Methiocarb	0.002	0.333	0.339	0.400	2.0%	< 30	82.7%	84.4%	50 - 150		
Methomyl	0.000	0.766	0.781	0.800	2.0%	< 30	95.8%	97.7%	50 - 150		
MGK-264	0.000	0.376	0.386	0.400	2.7%	< 30	94.0%	96.6%	50 - 150		
Myclobutanil	0.000	0.338	0.361	0.400	6.6%	< 30	84.5%	90.2%	50 - 150		
Naled	0.000	0.789	0.774	1.000	1.9%	< 30	78.9%	77.4%	50 - 150		
Oxamyl	0.000	1.897	1.901	2.000	0.2%	< 30	94.9%	95.0%	50 - 150		
Padobutrazole	0.000	0.587	0.627	0.800	6.6%	< 30	73.4%	78.4%	50 - 150		
Parathion-Methyl	0.000	0.320	0.381	0.400	17.3%	< 30	80.0%	95.2%	30 - 150		
Permethrin	0.000	0.374	0.385	0.400	2.8%	< 30	93.5%	96.2%	50 - 150		
Phosmet	0.000	0.344	0.362	0.400	5.2%	< 30	85.9%	90.5%	50 - 150		
Piperonyl butoxide	0.000	2.013	1.685	2.000	17.8%	< 30	100.7%	84.2%	50 - 150		
Prallethrin	0.000	0.364	0.370	0.400	1.8%	< 30	90.9%	92.5%	50 - 150		
Propiconazole	0.000	0.714	0.743	0.800	4.0%	< 30	89.2%	92.9%	50 - 150		
Propoxur	0.006	0.309	0.312	0.400	1.1%	< 30	75.7%	76.5%	50 - 150		
Pyrethrin (Summe)	0.005	0.473	0.471	0.488	0.5%	< 30	95.9%	95.4%	50 - 150		
Pyridaben	0.000	0.376	0.407	0.400	8.0%	< 30	93.9%	101.7%	50 - 150		
Spinosad	0.000	0.358	0.374	0.388	4.3%	< 30	92.3%	96.4%	50 - 150		
Spiromesifen	0.000	0.389	0.398	0.400	2.2%	< 30	97.3%	99.5%	50 - 150		
Spirotetramat	0.004	0.388	0.401	0.400	3.3%	< 30	96.1%	99.2%	50 - 150		
Spiroxamine	0.000	0.796	0.853	0.800	6.9%	< 30	99.4%	106.6%	50 - 150		



Laboratory Quality Control Results

Residual Solvents					Batch ID: 2409032				
Method Blank					Laboratory Control Sample				
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		484	585	µg/g	82.7	60 - 120	
Isobutane	ND	< 200		603	770	µg/g	78.3	60 - 120	
Butane	ND	< 200		611	769	µg/g	79.5	60 - 120	
2,2-Dimethylpropane	ND	< 200		771	956	µg/g	80.6	60 - 120	
Methanol	ND	< 200		1390	1620	µg/g	85.8	60 - 120	
Ethylene Oxide	ND	< 20		45.8	57.7	µg/g	79.4	60 - 120	
2-Methylbutane	ND	< 200		1390	1640	µg/g	84.8	60 - 120	
Pertane	ND	< 200		1400	1640	µg/g	85.4	60 - 120	
Ethanol	ND	< 200		1390	1620	µg/g	85.8	70 - 130	
Ethyl Ether	ND	< 200		1410	1630	µg/g	86.5	60 - 120	
2,2-Dimethylbutane	ND	< 30		180	212	µg/g	84.9	60 - 120	
Acetone	ND	< 200		1270	1630	µg/g	77.9	60 - 120	
2-Propanol	ND	< 200		1380	1620	µg/g	85.2	60 - 120	
Acetonitrile	ND	< 100		428	504	µg/g	84.9	60 - 120	
2,3-Dimethylbutane	ND	< 30		167	189	µg/g	88.4	60 - 120	
Dichloromethane	ND	< 60		435	538	µg/g	80.9	60 - 120	
2-Methylpentane	ND	< 30		174	182	µg/g	95.6	60 - 120	
3-Methylpentane	ND	< 30		156	179	µg/g	87.2	60 - 120	
Hexane	ND	< 30		156	178	µg/g	87.6	60 - 120	
Ethyl acetate	ND	< 200		1420	1620	µg/g	87.7	60 - 120	
2-Butanol	ND	< 200		1420	1620	µg/g	87.7	60 - 120	
Tetrahydrofuran	ND	< 100		447	511	µg/g	87.5	60 - 120	
Cyclohexane	ND	< 200		1450	1620	µg/g	89.5	60 - 120	
Benzene	ND	< 1		5.45	6.03	µg/g	90.4	60 - 120	
Isopropyl Acetate	ND	< 200		1430	1620	µg/g	88.3	60 - 120	
Heptane	ND	< 200		1470	1620	µg/g	90.7	60 - 120	
1,4-Dioxane	ND	< 100		428	503	µg/g	85.1	60 - 120	
2-Ethoxyethanol	ND	< 30		155	176	µg/g	88.1	60 - 120	
Ethylene Glycol	ND	< 200		401	501	µg/g	80.0	60 - 120	
Toluene	ND	< 100		480	543	µg/g	88.4	60 - 120	
Ethylbenzene	ND	< 200		854	983	µg/g	86.9	60 - 120	
m,p-Xylene	ND	< 200		883	1030	µg/g	85.7	60 - 120	
o-Xylene	ND	< 200		881	979	µg/g	90.0	60 - 120	
Cumene	ND	< 30		166	183	µg/g	90.7	60 - 120	


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

QC- Sample Duplicate

Sample ID: 24-012593-0001

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	
Pertane	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	
Acetonitrile	ND	ND	100	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	
3-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Hexane	ND	ND	30	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	
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	
1,4-Dioxane	ND	ND	100	µg/g	0.0	< 20	Acceptable	
2-Ethoxyethanol	ND	ND	30	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	
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	

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: 24-012593/D001.R000
Report Date: 11/25/2024
ORELAP#: OR100028
Purchase Order:
Received: 11/07/24 10:39





Explanation of QC Flag Comments:

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