



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



Report Number: 22-002281/D005.R000
Report Date: 03/04/2022
ORELAP#: OR100028
Purchase Order: REV-MOC2.25.22
Received: 02/28/22 15:53

Customer: Revana Collective
Product identity: Renew+ (YE1)
Client/Metric ID: .
Laboratory ID: 22-002281-0002

Summary

Potency:

Analyte	Result (%)				
CBD	13.7			CBD-Total	13.7%
CBG†	0.341				
CBDV†	0.108			THC-Total	0.00649%
CBN	0.0428			(Reported in percent of total sample)	
Δ9-THC	0.00649				

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

All analytes passing and less than LOQ.

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.



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Customer: Revana Collective
 92 Centennial
 Eugene Oregon 97401
 United States of America (USA)

Product identity: Renew+ (YE1)

Client/Metric ID: .

Sample Date:

Laboratory ID: 22-002281-0002

Evidence of Cooling: No

Temp: 24.1 °C

Relinquished by: USPS

Sample Results

Potency	Method J AOAC 2015 V98-6 (mod)			Units %	Batch: 2201899	Analyze: 3/4/22 10:39:00 AM
Analyte	As Received	Dry weight	LOQ	Notes		
CBC	< LOQ		0.0033			
CBC-A†	< LOQ		0.0033			
CBC-Total†	< LOQ		0.0062			
CBD	13.7		0.329			
CBD-A	< LOQ		0.0033			
CBD-Total	13.7		0.332			
CBDV†	0.108		0.0033			
CBDV-A†	< LOQ		0.0033			
CBDV-Total†	0.108		0.0061			
CBE†	< LOQ		0.0033			
CBG†	0.341		0.0033			
CBG-A†	< LOQ		0.0033			
CBG-Total	0.341		0.0061			
CBL†	< LOQ		0.0033			
CBL-A†	< LOQ		0.0033			
CBL-Total†	< LOQ		0.0062			
CBN	0.0428		0.0033			
CBT†	< LOQ		0.0033			
Δ8-THC†	< LOQ		0.0033			
Δ8-THCV	< LOQ		0.0033			
Δ9-THC	0.00649		0.0033			
THC-A	< LOQ		0.0033			
THC-Total	0.00649		0.0062			
THCV†	< LOQ		0.0033			
THCV-A†	< LOQ		0.0033			
THCV-Total†	< LOQ		0.0061			
Total Cannabinoids†	14.2					





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Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
Aerobic Plate Count	< LOQ		cfu/g	10	2201768	03/03/22	AOAC 990.12 (Petrifilm)		X
E.coli	< LOQ		cfu/g	10	2201766	03/03/22	AOAC 991.14 (Petrifilm)		X
Total Coliforms	< LOQ		cfu/g	10	2201766	03/03/22	AOAC 991.14 (Petrifilm)		X
Staphylococcus aureus	< LOQ		cfu/g	10	2201769	03/02/22	AOAC 2003.07		X
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2201767	03/04/22	AOAC 2014.05 (RAPID)		X
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2201767	03/04/22	AOAC 2014.05 (RAPID)		X
E. coli, O157:H7 (by PCR)	Negative		/15g		2201776	03/02/22	AOAC 2019.03		X, I
Listeria spp.	Negative		/15g		2201775	03/02/22	AOAC 2019.10		X, I
Salmonella spp. by PCR	Negative		/15g		2201773	03/02/22	AOAC 2020.02		X, I

Solvents		Method Residual Solvents by GC/MS				Units µg/g	Batch 2201856	Analyze 03/03/22 10:26 AM			
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	



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Pesticides											
Method AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 2201840 Analyze 03/03/22 08:08 AM											
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin	< LOQ	0.50	0.250	pass		Acephate	< LOQ	0.40	0.250	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	< LOQ	0.20	0.100	pass	
Clofentezine	< LOQ	0.20	0.100	pass		Cyfluthrin	< LOQ	1.0	0.500	pass	
Cypermethrin	< LOQ	1.0	0.500	pass		Daminozide	< LOQ	1.0	0.500	pass	
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	0.200	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	0.200	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	Analyze	Method	Status	Notes	
Arsenic	< LOQ	0.200	mg/kg	0.0781	2201910	03/04/22	AOAC 2013.06 (mod.)	pass	X	
Cadmium	< LOQ	0.200	mg/kg	0.0781	2201910	03/04/22	AOAC 2013.06 (mod.)	pass	X	
Lead	< LOQ	0.500	mg/kg	0.0781	2201910	03/04/22	AOAC 2013.06 (mod.)	pass	X	
Mercury	< LOQ	0.100	mg/kg	0.0390	2201910	03/04/22	AOAC 2013.06 (mod.)	pass	X	



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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.

† = Analyte not NELAP accredited.

Units of Measure

/15g = Per 15g

cfu/g = Colony forming units per gram

µg/g = Microgram per gram

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

% = Percentage of sample

% wt = µg/g divided by 10,000

Glossary of Qualifiers

I: Insufficient sample received to meet method requirements.

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner
General Manager



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**Hemp & Cannabis: Usable / Extract / Finished Product
Chain of Custody Record**

Document Control ID: 2832 Revision: 5
Effective: 01/04/2022

ORELAP ID: OR100028 ANAB ISO 17025 ID: AT-1508

Company: Revana Collective Contact: Cassia Zeller Address: 92 Centennial Loop City: Eugene State: OR Zip Code: 97401 <input checked="" type="checkbox"/> Email Results: cassia@revanacollective.com <input type="checkbox"/> Ph: (503) - 869-7259 <i>Billing Contact (if different)</i> Name: _____ Email: _____ Address: 32632 Bush Garden Dr. City: Harrisburg State: OR Zip: 97446 Ph: () - _____			Analysis Requested <input checked="" type="checkbox"/>						PO Number: REV-MOC2.25.22 Project ID: _____ Batch ID: _____ Sampled by: _____ Custom Reporting: _____		
			Source Material: <input type="checkbox"/> - Ind. Hemp product <input type="checkbox"/> - Rec. Cannabis Reporting Type: <input checked="" type="checkbox"/> - Compliance <input type="checkbox"/> - R&D Report to: <input type="checkbox"/> - METRC <input type="checkbox"/> - ODA <input type="checkbox"/> - USDA <input type="checkbox"/> - Other: Looking for Market of Choice Submission						Turnaround time (TAT - Business Days): <input checked="" type="checkbox"/> - 5BD <input type="checkbox"/> - 3BD* <input type="checkbox"/> - 2BD* <i>*Check for availability</i>		
Lab ID	Client Sample Identification	Sample date	Potency Standard	Oregon Pesticides	Oregon Solvents	Heavy Metals	Micro Profile X	Salmonella & E.coli	Material Type †	Weight (Units)	Comments/Metric ID
	Renew (YE1)	02/25/22	✓	✓	✓	✓	✓	✓	T		Two bottles provided in each
	Renew+ (YE1)	02/25/22	✓	✓	✓	✓	✓	✓	T		This sampling is for a Market of Choice Submission. We have been in communication with Gwendolyn so I want to make sure that she has all of the information that she needs in order to finalize product approval at MOC.
	Revive (YE1)	02/25/22	✓	✓	✓	✓	✓	✓	T		
	Calm (YE1)	02/25/22	✓	✓	✓	✓	✓	✓	T		
	Dream (YE1)	02/25/22	✓	✓	✓	✓	✓	✓	T		
Signature - Relinquished By: <i>Cassia Zeller</i>			Date: 02/25/22	Time: 12:10 PM	Signature - Received By: <i>AC</i>			Date: 2/28	Time: 15:53	Lab Use Only: <input checked="" type="checkbox"/> Shipped Via: <u>USPS</u> or <input type="checkbox"/> Client drop off Evidence of cooling: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No - Temp (°C): <u>24.1</u> Sample in good condition: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Payment: <input type="checkbox"/> Cash <input type="checkbox"/> Check <input type="checkbox"/> CC <input type="checkbox"/> Net: _____ Prelog storage: _____	

† - Material Type Codes: Plant Material (P) ; Isolate (I) ; Concentrate/Extract (C) ; Tincture/Topical (T) ; Edible (E) ; Beverage (B) ; Vapor Product (V)

Samples submitted to Columbia Laboratories with testing requirements constitute an agreement for services in accordance with the current terms of service associated with this COC. By signing "Relinquished by" you are agreeing to these terms
 12423 NE Whitaker Way
 Portland, OR 97230
 P: (503) 254-1794 | Fax: (503) 254-1452
 info@columbialaboratories.com
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 www.columbialaboratories.com



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Document ID: 3177 Revision: 2
Effective: 06/25/2021
Page 1 of 1

Job Number: _____ Search Name: _____

Package/Cooler opened on (if different than received date/time) Date: _____ Time: _____

Received By (Initials): AC Logged in by (Initials): _____ Date: 2/28 Time: 15:52

1) Were custody seals on outside of the package/cooler? YES NO NA
If YES, how many and where? _____

Does date match collection date on COC? _____ YES NO NA

2) Was Chain of Custody (COC) included in the package/cooler? YES NO NA

3) Was COC signed when relinquished and received? (time, date)? YES NO NA

4) How was the package/cooler delivered?

UPS FEDEX USPS CLIENT COURIER OTHER: _____

Tracking Number (written in or copy of shipping label): 9405 5361 0899 2016 6606 15

5) Was packing material used? YES NO NA

Peanuts Bubble Wrap Foam Paper Other: _____

6) Was temperature upon receipt 4°C+- 2°C (if appropriate)? YES NO NA

If not, client contacted: _____

Proceed? YES NO

7) Was there evidence of cooling? YES NO NA

What kind? Blue Ice Ice Cooler Packs Dry Ice

8) Were all sample containers sealed in separate plastic bags? YES NO NA

9) Did all sample containers arrive in good condition? YES NO NA

10) Were all sample container labels complete? YES NO NA

11) Did all sample container labels and tags agree with the COC? YES NO NA

12) Were correct sample containers used for the tests indicated? YES NO NA

13) Were VOA vials checked for absence of air bubbles (note if found)? YES NO NA

14) Was a sufficient amount of sample sent in each sample container? YES NO NA

16) Sample location prior to login: R99 R39 R44 F44 Ambient Shelf Cannabis Table Other: _____

Explain any discrepancies: _____



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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		Laboratory Control Sample			Batch ID: 2201840	
Method Blank	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Abamectin	0.000	< 0.250		0.993	1.000	99.3	77.0 - 122	
Acephate	0.000	< 0.250		0.922	1.000	92.2	70.4 - 121	
Acequinocyl	0.000	< 1.000		4.326	4.000	108.2	82.0 - 114	
Acetamiprid	0.000	< 0.100		0.362	0.400	90.5	68.8 - 124	
Aldicarb	0.000	< 0.200		0.749	0.800	93.6	72.5 - 125	
Azoxystrobin	0.000	< 0.100		0.373	0.400	93.3	73.2 - 120	
Bifenazate	0.000	< 0.100		0.337	0.400	84.2	75.1 - 140	
Bifenthrin	0.000	< 0.100		0.387	0.400	96.8	74.5 - 117	
Boscalid	0.000	< 0.200		0.744	0.800	93.0	72.7 - 123	
Carbaryl	0.000	< 0.100		0.377	0.400	94.4	78.4 - 116	
Carbofuran	0.000	< 0.100		0.368	0.400	92.1	79.5 - 116	
Chlorantraniliprole	0.000	< 0.100		0.345	0.400	86.3	83.8 - 113	
Chlorfenapyr	0.000	< 0.500		1.886	2.000	94.3	71.4 - 133	
Chlorpyrifos	0.000	< 0.100		0.369	0.400	92.2	72.8 - 115	
Clofentazine	0.000	< 0.100		0.363	0.400	90.7	79.0 - 112	
Cyfluthrin	0.000	< 0.500		1.907	2.000	95.4	69.4 - 124	
Cypermethrin	0.000	< 0.500		1.902	2.000	95.1	81.9 - 113	
Daminozide	0.089	< 0.500		1.510	2.000	75.5	71.7 - 133	
Diazinon	0.000	< 0.100		0.371	0.400	92.8	81.9 - 113	
Dichlorvos	0.000	< 0.500		1.851	2.000	92.6	81.7 - 109	
Dimethoate	0.000	< 0.100		0.366	0.400	91.5	82.6 - 111	
Ethoprophos	0.000	< 0.100		0.358	0.400	89.6	79.0 - 114	
Etofenprox	0.000	< 0.200		0.642	0.800	80.2	70.9 - 132	
Etoxazole	0.000	< 0.100		0.344	0.400	85.9	77.7 - 123	
Fenoxycarb	0.000	< 0.100		0.364	0.400	90.9	81.3 - 114	
Fenpyroximate	0.000	< 0.200		0.737	0.800	92.1	81.3 - 114	
Fipronil	0.000	< 0.200		0.746	0.800	93.2	81.9 - 120	
Flonicamid	0.000	< 0.250		0.966	1.000	96.6	68.4 - 126	
Fludioxonil	0.000	< 0.200		0.751	0.800	93.9	74.9 - 121	
Hexythiazox	0.000	< 0.250		0.868	1.000	86.8	71.7 - 122	
Imazalil	0.000	< 0.100		0.367	0.400	91.7	71.8 - 127	
Imidacloprid	0.000	< 0.200		0.771	0.800	96.4	76.8 - 116	
Kresoxim-methyl	0.000	< 0.200		0.789	0.800	98.6	76.3 - 119	
Malathion	0.000	< 0.100		0.371	0.400	92.7	73.3 - 125	
Metaxyl	0.000	< 0.100		0.368	0.400	92.0	80.6 - 112	
Methiocarb	0.000	< 0.100		0.355	0.400	88.7	79.1 - 117	
Methomyl	0.000	< 0.200		0.759	0.800	94.8	65.2 - 121	
MGK-264	0.000	< 0.100		0.381	0.400	95.3	76.3 - 118	
Myclobutanil	0.000	< 0.100		0.370	0.400	92.5	75.9 - 121	
Naled	0.000	< 0.250		0.901	1.000	90.1	84.2 - 107	
Oxamyl	0.000	< 0.500		1.892	2.000	94.6	72.9 - 117	
Paclobutrazole	0.000	< 0.200		0.734	0.800	91.7	79.8 - 116	
Parathion-Methyl	0.000	< 0.200		0.662	0.800	82.8	73.0 - 132	
Permethrin	0.000	< 0.100		0.366	0.400	91.4	75.6 - 117	
Phosmet	0.000	< 0.100		0.375	0.400	93.6	77.7 - 119	
Piperonyl butoxide	0.000	< 0.500		1.793	2.000	89.6	70.5 - 131	
Prallethrin	0.000	< 0.100		0.375	0.400	93.7	75.8 - 120	
Propiconazole	0.000	< 0.200		0.712	0.800	89.0	80.4 - 116	
Propoxur	0.000	< 0.100		0.367	0.400	91.9	80.0 - 113	
Pyrethrin (Summe)	0.000	< 0.100		0.387	0.413	93.8	71.8 - 133	
Pyridaben	0.000	< 0.100		0.363	0.400	90.8	73.6 - 124	
Spinosad	0.000	< 0.100		0.345	0.388	88.8	72.8 - 135	
Spiromesifen	0.000	< 0.100		0.395	0.400	98.7	76.7 - 127	
Spirotetramat	0.000	< 0.100		0.361	0.400	90.3	81.4 - 115	
Spiroxamine	0.000	< 0.200		0.694	0.800	86.8	79.7 - 109	
Tebuconazole	0.000	< 0.200		0.719	0.800	89.8	79.5 - 117	
Thiacloprid	0.000	< 0.100		0.354	0.400	88.6	79.5 - 115	
Thiamethoxam	0.000	< 0.100		0.372	0.400	93.0	67.1 - 125	
Trifloxystrobin	0.000	< 0.100		0.357	0.400	89.1	77.8 - 115	



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ORELAP#: OR100028
Purchase Order: REV-MOC2.25.22
Received: 02/28/22 15:53

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: 2201840				
Matrix Spike/Matrix Spike Duplicate Recoveries		Sample ID: 22-002312-0001									
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes	
Abamectin	0.000	0.883	1.258	1.000	35.0%	< 30	88.3%	125.8%	50 - 150	R	
Acephate	0.000	0.808	0.875	1.000	7.9%	< 30	80.8%	87.5%	50 - 150		
Acequinocyl	0.000	2.998	3.545	4.000	16.7%	< 30	75.0%	88.6%	50 - 150		
Acetamiprid	0.000	0.356	0.394	0.400	10.3%	< 30	89.0%	98.6%	50 - 150		
Aldicarb	0.000	0.680	0.768	0.800	12.2%	< 30	85.0%	96.0%	50 - 150		
Azoxystrobin	0.002	0.334	0.349	0.400	4.3%	< 30	82.9%	86.6%	50 - 150		
Bifenazate	0.000	0.368	0.419	0.400	13.0%	< 30	92.0%	104.9%	50 - 150		
Bifenthrin	0.000	0.281	0.312	0.400	10.7%	< 30	70.2%	78.1%	50 - 150		
Boscalid	0.000	0.709	0.817	0.800	14.2%	< 30	88.7%	102.2%	50 - 150		
Carbaryl	0.000	0.338	0.364	0.400	7.3%	< 30	84.6%	91.0%	50 - 150		
Carbofuran	0.000	0.330	0.357	0.400	7.8%	< 30	82.5%	89.1%	50 - 150		
Chlorantraniliprole	0.000	0.338	0.386	0.400	13.2%	< 30	84.6%	96.6%	50 - 150		
Chlorfenapyr	0.000	1.570	1.691	2.000	7.4%	< 30	78.5%	84.5%	50 - 150		
Chlorpyrifos	0.001	0.345	0.408	0.400	16.6%	< 30	86.0%	101.6%	50 - 150		
Clofentezine	0.000	0.302	0.325	0.400	7.4%	< 30	75.4%	81.2%	50 - 150		
Cyfluthrin	0.000	0.586	0.498	2.000	16.2%	< 30	29.3%	24.9%	30 - 150	Q	
Cypermethrin	0.000	1.644	1.791	2.000	8.5%	< 30	82.2%	89.6%	50 - 150		
Daminozide	0.115	2.557	2.797	2.000	9.4%	< 30	122.1%	134.1%	30 - 150		
Diazinon	0.000	0.343	0.377	0.400	9.7%	< 30	85.6%	94.3%	50 - 150		
Dichlorvos	0.000	1.606	1.751	2.000	8.6%	< 30	80.3%	87.5%	50 - 150		
Dimethoate	0.000	0.355	0.390	0.400	9.3%	< 30	88.8%	97.4%	50 - 150		
Ethoprophos	0.000	0.342	0.384	0.400	11.6%	< 30	85.4%	96.0%	50 - 150		
Etofenprox	0.000	0.496	0.626	0.800	23.1%	< 30	62.0%	78.2%	50 - 150		
Etoxazole	0.000	0.310	0.337	0.400	8.1%	< 30	77.6%	84.1%	50 - 150		
Fenoxycarb	0.000	0.325	0.364	0.400	11.2%	< 30	81.2%	90.9%	50 - 150		
Fenpyroximate	0.000	0.741	0.769	0.800	3.7%	< 30	92.6%	96.1%	50 - 150		
Fipronil	0.000	0.556	0.613	0.800	9.7%	< 30	69.5%	76.6%	50 - 150		
Flonicamid	0.000	1.073	1.043	1.000	2.8%	< 30	107.3%	104.3%	50 - 150		
Fludioxonil	0.000	0.693	0.837	0.800	18.8%	< 30	86.7%	104.6%	50 - 150		
Hexythiazox	0.000	0.762	0.829	1.000	8.5%	< 30	76.2%	82.9%	50 - 150		
Imazalil	0.000	0.363	0.384	0.400	5.7%	< 30	90.6%	96.0%	50 - 150		
Imidacloprid	0.000	0.794	0.855	0.800	7.4%	< 30	99.2%	106.8%	50 - 150		
Kresoxim-methyl	0.000	0.685	0.802	0.800	15.7%	< 30	85.6%	100.2%	50 - 150		
Malathion	0.039	0.406	0.428	0.400	5.8%	< 30	91.8%	97.4%	50 - 150		
Metaxyl	0.000	0.352	0.382	0.400	8.0%	< 30	88.0%	95.4%	50 - 150		
Methiocarb	0.000	0.329	0.387	0.400	16.2%	< 30	82.3%	96.7%	50 - 150		
Methomyl	0.000	0.838	0.833	0.800	0.6%	< 30	104.8%	104.2%	50 - 150		
MGK-264	0.000	0.325	0.352	0.400	8.2%	< 30	81.2%	88.1%	50 - 150		
Myclobutanil	0.000	0.359	0.393	0.400	9.0%	< 30	89.7%	98.1%	50 - 150		
Naled	0.000	0.777	0.838	1.000	7.5%	< 30	77.7%	83.8%	50 - 150		
Oxamyl	0.000	2.148	2.118	2.000	1.4%	< 30	107.4%	105.9%	50 - 150		
Paclobutrazole	0.000	0.699	0.755	0.800	7.7%	< 30	87.4%	94.4%	50 - 150		
Parathion-Methyl	0.000	0.745	0.777	0.800	4.2%	< 30	93.1%	97.1%	30 - 150		
Permethrin	0.000	0.312	0.339	0.400	8.5%	< 30	77.9%	84.8%	50 - 150		
Phosmet	0.000	0.349	0.379	0.400	8.2%	< 30	87.3%	94.7%	50 - 150		
Piperonyl butoxide	0.000	1.676	1.852	2.000	10.0%	< 30	83.8%	92.6%	50 - 150		
Prallethrin	0.000	0.345	0.351	0.400	2.0%	< 30	86.1%	87.9%	50 - 150		
Propiconazole	0.000	0.695	0.777	0.800	11.3%	< 30	86.8%	97.2%	50 - 150		
Propoxur	0.000	0.353	0.382	0.400	8.0%	< 30	88.2%	95.6%	50 - 150		
Pyrethrin (Summe)	0.000	0.395	0.415	0.413	5.2%	< 30	95.5%	100.6%	50 - 150		
Pyridaben	0.000	0.284	0.303	0.400	6.6%	< 30	70.9%	75.8%	50 - 150		
Spinosad	0.000	0.315	0.350	0.388	10.5%	< 30	81.3%	90.3%	50 - 150		
Spiromesifen	0.000	0.273	0.295	0.400	8.1%	< 30	68.1%	73.9%	50 - 150		
Spirotetramat	0.000	0.357	0.413	0.400	14.5%	< 30	89.2%	103.1%	50 - 150		
Spiroxamine	0.000	0.692	0.762	0.800	9.6%	< 30	86.5%	95.2%	50 - 150		
Tebuconazole	0.000	0.621	0.689	0.800	10.3%	< 30	77.7%	86.1%	50 - 150		
Thiacloprid	0.000	0.358	0.396	0.400	10.2%	< 30	89.4%	99.0%	50 - 150		
Thiamethoxam	0.000	0.420	0.427	0.400	1.6%	< 30	105.0%	106.7%	50 - 150		
Trifloxystrobin	0.000	0.346	0.378	0.400	8.8%	< 30	86.5%	94.4%	50 - 150		



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503-254-1794



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Received: 02/28/22 15:53

Revision: Document ID:
Legacy ID: Effective:

Laboratory Quality Control Results									
Residual Solvents					Batch ID: 2201856				
Method Blank			Laboratory Control Sample						
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		666	572	µg/g	116.4	70	130
Isobutane	ND	< 200		869	731	µg/g	118.9	70	130
Butane	ND	< 200		870	731	µg/g	119.0	70	130
2,2-Dimethylpropane	ND	< 200		1100	936	µg/g	117.5	70	130
Methanol	ND	< 200		1670	1610	µg/g	103.7	70	130
Ethylene Oxide	ND	< 30		72.9	56.2	µg/g	129.7	70	130
2-Methylbutane	ND	< 200		1660	1630	µg/g	101.8	70	130
Pentane	ND	< 200		1640	1610	µg/g	101.9	70	130
Ethanol	ND	< 200		1590	1630	µg/g	97.5	70	130
Ethyl Ether	ND	< 200		1600	1610	µg/g	99.4	70	130
2,2-Dimethylbutane	ND	< 30		163	165	µg/g	98.8	70	130
Acetone	ND	< 200		1720	1610	µg/g	106.8	70	130
2-Propanol	ND	< 200		1650	1610	µg/g	102.5	70	130
Ethyl Formate	ND	< 500		1400	1620	µg/g	86.4	70	130
Acetonitrile	ND	< 100		496	498	µg/g	99.6	70	130
Methyl Acetate	ND	< 500		2010	1810	µg/g	111.0	70	130
2,3-Dimethylbutane	ND	< 30		172	162	µg/g	106.2	70	130
Dichloromethane	ND	< 60		473	498	µg/g	95.0	70	130
2-Methylpentane	ND	< 30		173	167	µg/g	103.6	70	130
MTBE	ND	< 500		1600	1610	µg/g	99.4	70	130
3-Methylpentane	ND	< 30		166	179	µg/g	92.7	70	130
Hexane	ND	< 30		153	164	µg/g	93.3	70	130
1-Propanol	ND	< 500		1680	1620	µg/g	103.7	70	130
Methylethylketone	ND	< 500		1850	1770	µg/g	104.5	70	130
Ethyl acetate	ND	< 200		1640	1620	µg/g	101.2	70	130
2-Butanol	ND	< 200		1480	1600	µg/g	92.5	70	130
Tetrahydrofuran	ND	< 100		478	500	µg/g	95.6	70	130
Cyclohexane	ND	< 200		1620	1610	µg/g	100.6	70	130
2-methyl-1-propanol	ND	< 500		1540	1610	µg/g	95.7	70	130
Benzene	ND	< 1		6.12	5.62	µg/g	108.9	70	130
Isopropyl Acetate	ND	< 200		1740	1610	µg/g	108.1	70	130
Heptane	ND	< 200		1690	1610	µg/g	105.0	70	130
1-Butanol	ND	< 500		1600	1620	µg/g	98.8	70	130
Propyl Acetate	ND	< 500		1780	1620	µg/g	109.9	70	130
1,4-Dioxane	ND	< 100		398	502	µg/g	79.3	70	130
2-Ethoxyethanol	ND	< 30		163	164	µg/g	99.4	70	130
Methylisobutylketone	ND	< 500		1720	1620	µg/g	106.2	70	130
3-Methyl-1-butanol	ND	< 500		1510	1620	µg/g	93.2	70	130
Ethylene Glycol	ND	< 200		465	502	µg/g	92.6	70	130
Toluene	ND	< 200		460	488	µg/g	94.3	70	130
Isobutyl Acetate	ND	< 500		1950	1700	µg/g	114.7	70	130
1-Pentanol	ND	< 500		1350	1630	µg/g	82.8	70	130
Butyl Acetate	ND	< 500		1460	1660	µg/g	88.0	70	130
Ethylbenzene	ND	< 200		893	965	µg/g	92.5	70	130
m,p-Xylene	ND	< 200		875	990	µg/g	88.4	70	130
o-Xylene	ND	< 200		874	971	µg/g	90.0	70	130
Cumene	ND	< 30		160	179	µg/g	89.4	70	130
Anisole	ND	< 500		1360	1650	µg/g	82.4	70	130
DMSO	ND	< 500		1290	1630	µg/g	79.1	70	130
1,2-dimethoxyethane	ND	< 50		213	183	µg/g	116.4	70	130
Triethylamine	ND	< 500		1520	1620	µg/g	93.8	70	130
N,N-dimethylformamide	ND	< 150		412	495	µg/g	83.2	70	130
N,N-dimethylacetamide	ND	< 150		358	502	µg/g	71.3	70	130
Pyridine	ND	< 50		181	186	µg/g	97.3	70	130
1,2-Dichloroethane	ND	< 1		1.18	1	µg/g	118.0	70	130
Chloroform	ND	< 1		1.12	1	µg/g	112.0	70	130
Trichloroethylene	ND	< 1		1.02	1	µg/g	102.0	70	130



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Received: 02/28/22 15:53

Revision: Document ID:
Legacy ID: Effective:

QC - Sample Duplicate Sample ID: 22-002278-0001

Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Accept/Fail	Notes
Propane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Isobutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Butane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2,2-Dimethylpropane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Methanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethylene Oxide	ND	ND	30	µg/g	0.0	< 20	Acceptable	
2-Methylbutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Pentane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethyl Ether	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2,2-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Acetone	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Propanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethyl Formate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Acetonitrile	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Methyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
2,3-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Dichloromethane	ND	ND	60	µg/g	0.0	< 20	Acceptable	
2-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
MTBE	ND	ND	500	µg/g	0.0	< 20	Acceptable	
3-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Hexane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
1-Propanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Methyl ethyl ketone	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	1.1	1.09	1	µg/g	0.9	< 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	200	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	
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	

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



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503-254-1794



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Received: 02/28/22 15:53

Revision: 1 Document ID: 7148
Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6								
Batch ID: 2201899								
Laboratory Control Sample								
Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes	
CBDVA	0.00942	0.01	%	94.2	80.0 - 120	Acceptable		
CBDV	0.0117	0.01	%	117	80.0 - 120	Acceptable		
CBE	0.00920	0.01	%	92.0	80.0 - 120	Acceptable		
CBDA	0.0103	0.01	%	103	80.0 - 120	Acceptable		
CBGA	0.00924	0.01	%	92.4	80.0 - 120	Acceptable		
CBG	0.00989	0.01	%	98.9	80.0 - 120	Acceptable		
CBD	0.0101	0.01	%	101	80.0 - 120	Acceptable		
THCV	0.00937	0.01	%	93.7	80.0 - 120	Acceptable		
d8THCV	0.0103	0.01	%	103	80.0 - 120	Acceptable		
THCVA	0.00910	0.01	%	91.0	80.0 - 120	Acceptable		
CBN	0.0103	0.01	%	103	80.0 - 120	Acceptable		
exo-THC	0.00916	0.01	%	91.6	80.0 - 120	Acceptable		
d9THC	0.00973	0.01	%	97.3	80.0 - 120	Acceptable		
d8THC	0.00994	0.01	%	99.4	80.0 - 120	Acceptable		
CBL	0.00914	0.01	%	91.4	80.0 - 120	Acceptable		
CBC	0.0101	0.01	%	101	80.0 - 120	Acceptable		
THCA	0.00962	0.01	%	96.2	80.0 - 120	Acceptable		
CBCA	0.00951	0.01	%	95.1	80.0 - 120	Acceptable		
CBLA	0.00962	0.01	%	96.2	80.0 - 120	Acceptable		
CBT	0.00961	0.01	%	96.1	80.0 - 120	Acceptable		

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	< LOQ	0.003	%	< 0.003	Acceptable	
CBDV	< LOQ	0.003	%	< 0.003	Acceptable	
CBE	< LOQ	0.003	%	< 0.003	Acceptable	
CBDA	< LOQ	0.003	%	< 0.003	Acceptable	
CBGA	< LOQ	0.003	%	< 0.003	Acceptable	
CBG	< LOQ	0.003	%	< 0.003	Acceptable	
CBD	< LOQ	0.003	%	< 0.003	Acceptable	
THCV	< LOQ	0.003	%	< 0.003	Acceptable	
d8THCV	< LOQ	0.003	%	< 0.003	Acceptable	
THCVA	< LOQ	0.003	%	< 0.003	Acceptable	
CBN	< LOQ	0.003	%	< 0.003	Acceptable	
exo-THC	< LOQ	0.003	%	< 0.003	Acceptable	
d9THC	< LOQ	0.003	%	< 0.003	Acceptable	
d8THC	< LOQ	0.003	%	< 0.003	Acceptable	
CBL	< LOQ	0.003	%	< 0.003	Acceptable	
CBC	< LOQ	0.003	%	< 0.003	Acceptable	
THCA	< LOQ	0.003	%	< 0.003	Acceptable	
CBCA	< LOQ	0.003	%	< 0.003	Acceptable	
CBLA	< LOQ	0.003	%	< 0.003	Acceptable	
CBT	< LOQ	0.003	%	< 0.003	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: 1 Document ID: 7148
Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6								
Batch ID: 2201899								
Sample Duplicate								
Sample ID: 22-002279-0001								
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	0.0229	0.0228	0.003	%	0.621	< 20	Acceptable	
CBE	0.0275	0.0271	0.003	%	1.43	< 20	Acceptable	
CBDA	0.113	0.113	0.003	%	0.128	< 20	Acceptable	
CBGA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBG	0.0421	0.0420	0.003	%	0.0764	< 20	Acceptable	
CBD	3.50	3.49	0.003	%	0.138	< 20	Acceptable	
THCV	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
d8THCV	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
THCVA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBN	0.0118	0.0120	0.003	%	2.33	< 20	Acceptable	
exo-THC	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
d9THC	0.153	0.150	0.003	%	1.94	< 20	Acceptable	
d8THC	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBL	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBC	0.139	0.137	0.003	%	0.854	< 20	Acceptable	
THCA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBCA	0.00961	0.00847	0.003	%	12.6	< 20	Acceptable	
CBLA	< LOQ	< LOQ	0.003	%	NA	< 20	Acceptable	
CBT	0.0795	0.0757	0.003	%	4.86	< 20	Acceptable	

Abbreviations

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

Units of Measure:

% - Percent



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



Report Number: 22-002281/D005.R000
Report Date: 03/04/2022
ORELAP#: OR100028
Purchase Order: REV-MOC2.25.22
Received: 02/28/22 15:53

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.