



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



Report Number: 23-001623/D002.R000
Report Date: 02/10/2023
ORELAP#: OR100028
Purchase Order:
Received: 02/07/23 15:18

Customer: IHC LLC
Product identity: 01ISO204
Client/Metric ID: .
Laboratory ID: 23-001623-0001

Summary

Potency:

Analyte	Result (%)		CBD-Total	91.2%
CBD	91.2		THC-Total	<LOQ
CBDV	0.309		(Reported in percent of total sample)	

Residual Solvents:

Analyte	Result (µg/g)	Limits (µg/g)	Status
n-Heptane	247	5000	pass

Pesticides:

All analytes passing and less than LOQ.

Metals:

Less than LOQ for all analytes.



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

Product identity: 01ISO204
Client/Metric ID: .
Sample Date:
Laboratory ID: 23-001623-0001
Evidence of Cooling: No
Temp: 17.0
Relinquished by: ramos



Sample Results

Potency **Method:** J AOAC 2015 V98-6 (mod)^P **Units %** **Batch:** 2301306 **Analyze:** 2/9/23 10:44:00 PM

Analyte	As Received	Dry weight	LOQ	Notes
CBC	< LOQ		0.0676	
CBC-A	< LOQ		0.0676	
CBC-Total	< LOQ		0.127	
CBD	91.2		0.676	
CBD-A	< LOQ		0.0676	
CBD-Total	91.2		0.735	
CBDV	0.309		0.0676	
CBDV-A	< LOQ		0.0676	
CBDV-Total	0.309		0.126	
CBE	< LOQ		0.0676	
CBG	< LOQ		0.0676	
CBG-A	< LOQ		0.0676	
CBG-Total	< LOQ		0.126	
CBL	< LOQ		0.0676	
CBL-A	< LOQ		0.0676	
CBL-Total	< LOQ		0.127	
CBN	< LOQ		0.0676	
CBT	< LOQ		0.0676	
Δ10-THC-9R	< LOQ		0.0676	
Δ10-THC-9S	< LOQ		0.0676	
Δ10-THC-Total	< LOQ		0.135	
Δ8-THC	< LOQ		0.0676	
Δ8-THCV	< LOQ		0.0676	
Δ9-THC	< LOQ		0.0676	
exo-THC	< LOQ		0.0676	
THC-A	< LOQ		0.0676	
THC-Total	< LOQ		0.127	
THCV	< LOQ		0.0676	
THCV-A	< LOQ		0.0676	
THCV-Total	< LOQ		0.126	
Total Cannabinoids	91.5			





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Solvents		Method: Residual Solvents by GC/MS ^b				Units µg/g	Batch 2301280	Analyze 02/09/23 03:09 PM			
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	247	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) ^b											
Units mg/kg Batch 2301287 Analyze 02/10/23 08:01 AM											
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin [¥]	< LOQ	0.50	0.250	pass		Acephate [¥]	< LOQ	0.40	0.200	pass	
Acequinocyl [¥]	< LOQ	2.0	1.00	pass		Acetamidiprid [¥]	< LOQ	0.20	0.100	pass	
Aldicarb [¥]	< LOQ	0.40	0.200	pass		Azoxystrobin [¥]	< LOQ	0.20	0.100	pass	
Bifentazate [¥]	< 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		Etoazole [¥]	< 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	0.0974	2301312	02/10/23	AOAC 2013.06 (mod.) ^b	pass		
Cadmium	< LOQ	0.200	mg/kg	0.0974	2301312	02/10/23	AOAC 2013.06 (mod.) ^b	pass		
Lead	< LOQ	0.500	mg/kg	0.0974	2301312	02/10/23	AOAC 2013.06 (mod.) ^b	pass		
Mercury	< LOQ	0.100	mg/kg	0.0487	2301312	02/10/23	AOAC 2013.06 (mod.) ^b	pass		



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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.

Ⓟ = ISO/IEC 17025:2017 accredited method.

¥ = TNI accredited analyte.

Units of Measure

µg/g = Microgram per gram

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

% = Percentage of sample

% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner
General Manager



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Hemp / Cannabis Usable / Extract / Finished Product
Chain of Custody Record
Revision: 4.00 Control#: CF025 Rev 02/24/2021 EPI: 03/04/20
ORELAP ID: OR100028



Company: The Hemp Collect Contact: kyle@thehempcollect.com Street: 431 NW Flanders st. City: Portland State: OR Zip: 97209 Email Results: dropbox (IHC) Ph: (503) 6081664 Fax Results: () Billing (if different): joel@thehempcollect.com				Analysis Requested										Project Number: _____ Project Name: _____ Custom Reporting: _____ Report to State - <input type="checkbox"/> METRC or <input type="checkbox"/> Other: _____ Turnaround time: <input type="checkbox"/> 5 Business Day Standard Turnaround <input checked="" type="checkbox"/> 3 Business Day Rush Turnaround* <input type="checkbox"/> 2 Business Day Rush Turnaround* <small>*Check for availability</small>			
Lab ID	Client Sample Identification	Date	Time	Peptides - OR 33 compounds	Particle Multi-Residue - 379 compounds	Residues	Residual Solvents	Moldure & Water Activity	Pesticides	Micro: Yeast and Mold	Micro: Col and Total Coliform	Heavy Metals	Mycotoxins	Other	Sample Type	Weight (Units)	Comments/Metro ID
1	01ISC204			X	X	X						X			S		Sample #1. Alternate client name: Top Notch Medicinals
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
Subscribed By:		Date:	Time:	Received By:		Date:	Time:	Lab Use Only:									
Kyle Farook		2/7	11:30 A	<i>[Signature]</i>		2.23	1:50	<input type="checkbox"/> Shipped Via _____ or <input type="checkbox"/> Client drop Evidence of cooling: <input type="checkbox"/> Yes <input type="checkbox"/> No - Temp (°C): <u>17.0</u> Sample in good condition: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Cool <input type="checkbox"/> Check <input type="checkbox"/> CC <input type="checkbox"/> Wet: _____ Prelog storage: _____									
<i>[Signature]</i>		2.7.23	1:35 P	<i>[Signature]</i>		02/07/23	1:58										

* - Sample Type Codes: Vegetation (V) ; Isolates (IS) ; Extracts/Concentrate (C) ; Tincture/Topical (T) ; Edible (E) ; Beverage (B)
 Samples submitted to Columbia Laboratories with testing requirements constitute an agreement for analysis in accordance with the current terms of service associated with the COC. By signing "Subscribed By" you are agreeing to these terms.
 12423 NE Whitaker Way Portland, OR 97230 (503) 254-1794 Fax: (503) 254-1452 Page _____ of _____
www.columbialaboratories.com www.oregonlabcertification.com



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

Laboratory Quality Control Results

Residual Solvents				Batch ID: 2301280					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		425	572	µg/g	74.3	60 - 120	
Isobutane	ND	< 200		561	731	µg/g	76.7	60 - 120	
Butane	ND	< 200		531	731	µg/g	72.6	60 - 120	
2,2-Dimethylpropane	ND	< 200		649	936	µg/g	69.3	60 - 120	
Methanol	ND	< 200		1260	1620	µg/g	77.8	60 - 120	
Ethylene Oxide	ND	< 30		40.8	56.2	µg/g	72.6	60 - 120	
2-Methylbutane	ND	< 200		1210	1610	µg/g	75.2	60 - 120	
Pentane	ND	< 200		1220	1600	µg/g	76.3	60 - 120	
Ethanol	ND	< 200		1300	1610	µg/g	80.7	70 - 130	
Ethyl Ether	ND	< 200		1300	1630	µg/g	79.8	60 - 120	
2,2-Dimethylbutane	ND	< 30		134	171	µg/g	78.4	60 - 120	
Acetone	ND	< 200		1300	1630	µg/g	79.8	60 - 120	
2-Propanol	ND	< 200		1330	1620	µg/g	82.1	60 - 120	
Ethyl Formate	ND	< 500		1300	1670	µg/g	77.8	70 - 130	
Acetonitrile	ND	< 100		378	498	µg/g	75.9	60 - 120	
Methyl Acetate	ND	< 500		1260	1730	µg/g	72.8	70 - 130	
2,3-Dimethylbutane	ND	< 30		136	171	µg/g	79.5	60 - 120	
Dichloromethane	ND	< 60		403	483	µg/g	83.4	60 - 120	
2-Methylpentane	ND	< 30		128	168	µg/g	76.2	60 - 120	
MTBE	ND	< 500		1290	1650	µg/g	78.2	70 - 130	
3-Methylpentane	ND	< 30		121	167	µg/g	72.5	60 - 120	
Hexane	ND	< 30		174	182	µg/g	95.6	60 - 120	
1-Propanol	ND	< 500		1120	1620	µg/g	69.1	70 - 130	Q6
Methylethylketone	ND	< 500		1180	1620	µg/g	72.8	70 - 130	
Ethyl acetate	ND	< 200		1280	1610	µg/g	79.5	60 - 120	
2-Butanol	ND	< 200		1290	1600	µg/g	80.6	60 - 120	
Tetrahydrofuran	ND	< 100		392	483	µg/g	81.2	60 - 120	
Cyclohexane	ND	< 200		1330	1610	µg/g	82.6	60 - 120	
2-methyl-1-propanol	ND	< 500		1170	1620	µg/g	72.2	70 - 130	
Benzene	ND	< 1		4.48	5.02	µg/g	89.2	60 - 120	
Isopropyl Acetate	ND	< 200		1300	1620	µg/g	80.2	60 - 120	
Heptane	ND	< 200		1240	1610	µg/g	77.0	60 - 120	
1-Butanol	ND	< 500		1160	1630	µg/g	71.2	70 - 130	
Propyl Acetate	ND	< 500		1140	1610	µg/g	70.8	70 - 130	
1,4-Dioxane	ND	< 100		409	491	µg/g	83.3	60 - 120	
2-Ethoxyethanol	ND	< 30		138	181	µg/g	76.2	60 - 120	
Methylisobutylketone	ND	< 500		1190	1620	µg/g	73.5	70 - 130	
3-Methyl-1-butanol	ND	< 500		1150	1630	µg/g	70.6	70 - 130	
Ethylene Glycol	ND	< 200		357	484	µg/g	73.8	60 - 120	
Toluene	ND	< 100		399	485	µg/g	82.3	60 - 120	
Isobutyl Acetate	ND	< 500		1130	1630	µg/g	69.3	70 - 130	Q6
1-Pentanol	ND	< 500		1080	1620	µg/g	66.7	70 - 130	Q6
Butyl Acetate	ND	< 500		1110	1620	µg/g	68.5	70 - 130	Q6
Ethylbenzene	ND	< 200		790	969	µg/g	81.5	60 - 120	
m,p-Xylene	ND	< 200		804	994	µg/g	80.9	60 - 120	
o-Xylene	ND	< 200		792	967	µg/g	81.9	60 - 120	
Cumene	ND	< 30		138	171	µg/g	80.7	60 - 120	
Anisole	ND	< 500		1180	1630	µg/g	72.4	70 - 130	
DMSO	ND	< 500		1130	1680	µg/g	67.3	70 - 130	Q6
1,2-dimethoxyethane	ND	< 50		122	169	µg/g	72.2	70 - 130	
Triethylamine	ND	< 500		1240	1630	µg/g	76.1	70 - 130	
N,N-dimethylformamide	ND	< 150		347	482	µg/g	72.0	70 - 130	
N,N-dimethylacetamide	ND	< 150		328	510	µg/g	64.3	70 - 130	Q6
Pyridine	ND	< 50		144	203	µg/g	70.9	70 - 130	
Sulfolane	ND	< 50		114	172	µg/g	66.3	70 - 130	Q6
1,2-Dichloroethane	ND	< 1		0.701	1	µg/g	70.1	70 - 130	
Chloroform	ND	< 1		0.708	1	µg/g	70.8	70 - 130	
Trichloroethylene	ND	< 1		0.695	1	µg/g	69.5	70 - 130	Q6
1,1-Dichloroethane	ND	< 1		0.672	1	µg/g	67.2	70 - 130	Q6



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Revision: 2 Document ID: 7087
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QC - Sample Duplicate		Sample ID: 23-001411-0001						
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	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
 Q6 - Quality control outside QC limits. Data acceptable based on remaining QC.

Units of Measure:

µg/g- Microgram per gram or ppm



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Laboratory Pesticide Quality Control Results

AOAC2007.1 & EN 15662		Units: mg/Kg			Batch ID 2301287			
Method Bank	Laboratory Control Sample							
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spke	LCS% Re	Limits	Notes
Abamectin	0.000	< 0.250		0.929	1.000	92.9	50.0	150
Acephate	0.000	< 0.200		0.682	0.800	85.2	60.0	120
Acetamiprid	0.000	< 1.000		3.758	4.000	93.9	40.0	160
Acetamiprid	0.000	< 0.100		0.390	0.400	97.5	60.0	120
Aldicarb	0.000	< 0.200		0.765	0.800	95.7	60.0	120
Azoxystrobin	0.000	< 0.100		0.370	0.400	92.6	60.0	120
Bifenazate	0.000	< 0.100		0.355	0.400	88.9	60.0	120
Bifenthrin	0.000	< 0.100		0.379	0.400	94.9	50.0	150
Boscalid	0.000	< 0.200		0.765	0.800	95.6	60.0	120
Carbaryl	0.000	< 0.100		0.389	0.400	97.2	60.0	120
Carbofuran	0.000	< 0.100		0.385	0.400	96.2	60.0	120
Chlorantraniliprole	0.000	< 0.100		0.400	0.400	99.9	60.0	120
Chlorfenapyr	0.000	< 0.500		2.044	2.000	102.2	60.0	120
Chlorpyrifos	0.000	< 0.100		0.380	0.400	95.0	60.0	120
Clofentazine	0.000	< 0.100		0.371	0.400	92.7	60.0	120
Cyfluthrin	0.000	< 0.500		1.965	2.000	98.3	50.0	150
Cypermethrin	0.000	< 0.500		1.951	2.000	97.6	50.0	150
Daminozide	0.000	< 0.500		1.808	2.000	90.4	60.0	120
Diazinon	0.000	< 0.100		0.409	0.400	102.1	60.0	120
Dichlorvos	0.000	< 0.500		1.948	2.000	97.4	60.0	120
Dimethoate	0.000	< 0.100		0.392	0.400	98.1	60.0	120
Ethoprophos	0.000	< 0.100		0.383	0.400	95.7	60.0	120
Etofenprox	0.000	< 0.200		0.775	0.800	96.9	50.0	150
Etoxazole	0.000	< 0.100		0.369	0.400	92.3	60.0	120
Fenoxycarb	0.000	< 0.100		0.398	0.400	99.4	60.0	120
Fenpyroximate	0.000	< 0.200		0.928	0.800	115.9	60.0	120
Fipronil	0.000	< 0.200		0.810	0.800	101.3	60.0	120
Fonicamid	0.000	< 0.250		1.050	1.000	105.0	60.0	120
Fludioxonil	0.000	< 0.200		0.771	0.800	96.3	50.0	150
Hexythiazox	0.000	< 0.250		0.952	1.000	95.2	60.0	120
Imazalil	0.000	< 0.100		0.368	0.400	92.1	60.0	120
Imidacloprid	0.000	< 0.200		0.795	0.800	99.4	60.0	120
Kresoxim-methyl	0.000	< 0.200		0.757	0.800	94.6	60.0	120
Malathion	0.000	< 0.100		0.389	0.400	97.3	60.0	120
Metaxalyl	0.000	< 0.100		0.388	0.400	96.9	60.0	120
Methiocarb	0.000	< 0.100		0.373	0.400	93.4	60.0	120
Methomyl	0.000	< 0.200		0.858	0.800	107.2	60.0	120
MGK-264	0.000	< 0.100		0.386	0.400	96.6	50.0	150
Myclobutanil	0.000	< 0.100		0.381	0.400	95.2	60.0	120
Naled	0.000	< 0.250		0.973	1.000	97.3	50.0	150
Oxamyl	0.000	< 0.500		1.971	2.000	98.6	60.0	120
Pacllobutrazole	0.000	< 0.200		0.804	0.800	100.5	60.0	120
Parathion-Methyl	0.000	< 0.100		0.399	0.400	99.6	50.0	150
Permethrin	0.003	< 0.100		0.389	0.400	97.3	50.0	150
Phosmet	0.000	< 0.100		0.399	0.400	99.7	50.0	150
Piperonyl butoxide	0.000	< 0.500		1.888	2.000	94.4	60.0	120
Prallethrin	0.000	< 0.100		0.385	0.400	96.4	60.0	120
Propiconazole	0.000	< 0.200		0.786	0.800	98.2	60.0	120
Propoxur	0.000	< 0.100		0.382	0.400	95.4	60.0	120
Pyrethrin (Summe)	0.000	< 0.100		0.486	0.488	99.5	60.0	120
Pyridaben	0.000	< 0.100		0.383	0.400	95.7	50.0	150
Spinosad	0.000	< 0.100		0.377	0.388	97.2	50.0	150
Spiromesifen	0.000	< 0.100		0.376	0.400	94.0	60.0	120
Spirotetramat	0.000	< 0.100		0.402	0.400	100.4	60.0	120
Spiroxamine	0.000	< 0.200		0.738	0.800	92.2	60.0	120
Tebuconazole	0.000	< 0.200		0.786	0.800	98.3	60.0	120
Thiacloprid	0.000	< 0.100		0.392	0.400	98.1	60.0	120
Thiamethoxam	0.000	< 0.100		0.421	0.400	105.3	60.0	120
Trifloxystrobin	0.000	< 0.100		0.380	0.400	95.0	60.0	120



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Laboratory Pesticide Quality Control Results

AOAC2007.1 & EN 15662		Units: mg/Kg					Batch ID 2301287			Sample ID: 230016510001	
Matrix Spke/Matrix Spke Duplicate Recoveries	Result	MS Res	MSD Res	Spike	PPD%	Limit	MS% Re	MSD % Re	Limits	Notes	
Abamectin	0.000	0.653	0.764	1.000	15.6%	< 30	65.3%	76.4%	50 - 150		
Acephate	0.000	0.568	0.483	0.800	16.1%	< 30	71.0%	60.4%	50 - 150		
Acetaminocyl	0.000	2.348	2.370	4.000	0.9%	< 30	58.7%	59.2%	50 - 150		
Acetamidrid	0.000	0.293	0.307	0.400	4.6%	< 30	73.2%	76.6%	50 - 150		
Aldicarb	0.000	0.660	0.694	0.800	5.0%	< 30	82.5%	86.7%	50 - 150		
Azoxystrobin	0.000	0.239	0.247	0.400	3.1%	< 30	59.8%	61.7%	50 - 150		
Bifenazate	0.000	0.284	0.312	0.400	9.3%	< 30	71.0%	78.0%	50 - 150		
Bifenthrin	0.000	0.221	0.223	0.400	0.8%	< 30	55.2%	55.6%	50 - 150		
Boscalid	0.044	0.467	0.487	0.800	4.5%	< 30	52.9%	55.3%	50 - 150		
Carbaryl	0.000	0.212	0.222	0.400	4.6%	< 30	53.1%	55.6%	50 - 150		
Carbofuran	0.000	0.240	0.245	0.400	2.3%	< 30	59.9%	61.3%	50 - 150		
Chlorantraniliprole	0.000	0.265	0.290	0.400	9.1%	< 30	66.2%	72.5%	50 - 150		
Chlorfenapyr	0.000	1.294	1.108	2.000	15.5%	< 30	64.7%	55.4%	50 - 150		
Chlorpyrifos	0.017	0.365	0.341	0.400	7.1%	< 30	87.1%	81.1%	50 - 150		
Clofentezine	0.010	0.191	0.180	0.400	6.2%	< 30	45.2%	42.4%	50 - 150	Q	
Cyfluthrin	0.000	0.647	0.717	2.000	10.2%	< 30	32.4%	35.9%	30 - 150		
Cypermethrin	0.000	0.635	0.636	2.000	0.2%	< 30	31.7%	31.8%	50 - 150	Q	
Daminozide	0.201	1.317	1.410	2.000	8.0%	< 30	55.8%	60.4%	30 - 150		
Diazinon	0.000	0.127	0.133	0.400	4.0%	< 30	31.9%	33.2%	50 - 150	Q	
Dichlorvos	0.206	1.454	1.598	2.000	10.9%	< 30	62.4%	69.6%	50 - 150		
Dimethoate	0.000	0.340	0.358	0.400	5.4%	< 30	84.9%	89.6%	50 - 150		
Ethoprophos	0.000	0.210	0.217	0.400	2.9%	< 30	52.6%	54.2%	50 - 150		
Etofenprox	0.000	0.497	0.502	0.800	1.0%	< 30	62.1%	62.7%	50 - 150		
Etoxazole	0.000	0.323	0.319	0.400	1.2%	< 30	80.7%	79.7%	50 - 150		
Fenoxycarb	0.000	0.250	0.284	0.400	12.6%	< 30	62.5%	70.9%	50 - 150		
Fenpyroximate	0.000	0.219	0.242	0.800	10.2%	< 30	27.3%	30.3%	50 - 150	Q	
Fipronil	0.000	0.357	0.371	0.800	3.8%	< 30	44.6%	46.4%	50 - 150	Q	
Fonicamid	0.000	0.836	0.917	1.000	9.2%	< 30	83.6%	91.7%	50 - 150		
Fludioxonil	0.000	1.076	1.152	0.800	6.8%	< 30	134.5%	144.0%	50 - 150		
Hexythiazox	0.000	0.611	0.598	1.000	2.2%	< 30	61.1%	59.8%	50 - 150		
Imazalil	0.020	0.291	0.318	0.400	9.5%	< 30	67.8%	74.6%	50 - 150		
Imidacloprid	0.027	0.775	0.803	0.800	3.6%	< 30	93.5%	97.0%	50 - 150		
Kresoxim-methyl	0.000	0.495	0.540	0.800	8.7%	< 30	61.9%	67.5%	50 - 150		
Malathion	0.014	0.232	0.257	0.400	10.7%	< 30	54.7%	60.8%	50 - 150		
Metaxalyl	0.000	0.268	0.287	0.400	6.8%	< 30	66.9%	71.6%	50 - 150		
Methiocarb	0.000	0.228	0.240	0.400	5.2%	< 30	56.9%	59.9%	50 - 150		
Methomyl	0.000	0.765	0.801	0.800	4.6%	< 30	95.6%	100.1%	50 - 150		
MGK-264	0.000	0.114	0.125	0.400	8.6%	< 30	28.6%	31.1%	50 - 150	Q	
Myclobutanil	0.000	0.120	0.119	0.400	0.7%	< 30	30.0%	29.8%	50 - 150	Q	
Naled	0.000	0.528	0.542	1.000	2.6%	< 30	52.8%	54.2%	50 - 150		
Oxamyl	0.000	1.890	1.926	2.000	1.9%	< 30	94.5%	96.3%	50 - 150		
Paclotrazole	0.000	0.406	0.469	0.800	14.3%	< 30	50.7%	58.6%	50 - 150		
Parathion-Methyl	0.000	0.089	0.091	0.400	2.0%	< 30	22.2%	22.6%	30 - 150	Q	
Permethrin	0.005	0.236	0.229	0.400	2.9%	< 30	57.8%	56.1%	50 - 150		
Phosmet	0.000	0.212	0.244	0.400	13.8%	< 30	53.1%	60.9%	50 - 150		
Piperonyl butoxide	0.147	1.583	1.664	2.000	5.5%	< 30	71.8%	75.8%	50 - 150		
Prallethrin	0.054	0.158	0.167	0.400	8.3%	< 30	26.0%	28.2%	50 - 150	Q	
Propiconazole	0.000	0.524	0.552	0.800	5.1%	< 30	65.5%	69.0%	50 - 150		
Propoxur	0.017	0.264	0.281	0.400	6.8%	< 30	61.6%	66.0%	50 - 150		
Pyrethrin (Summe)	0.178	0.485	0.490	0.488	1.6%	< 30	63.0%	64.0%	50 - 150		
Pyridaben	0.001	0.280	0.275	0.400	1.7%	< 30	69.8%	68.6%	50 - 150		
Spirosad	0.000	0.312	0.318	0.388	1.7%	< 30	80.5%	81.9%	50 - 150		
Spiromesifen	0.000	0.266	0.288	0.400	8.0%	< 30	66.5%	72.0%	50 - 150		
Spirotetramat	0.000	0.401	0.444	0.400	10.2%	< 30	100.3%	111.1%	50 - 150		
Spiroxamine	0.000	0.606	0.658	0.800	8.3%	< 30	75.8%	82.3%	50 - 150		
Tebuconazole	0.000	0.488	0.528	0.800	7.8%	< 30	61.0%	66.0%	50 - 150		
Thiacloprid	0.000	0.291	0.303	0.400	4.2%	< 30	72.6%	75.8%	50 - 150		
Thiamethoxam	0.000	0.364	0.397	0.400	8.7%	< 30	91.0%	99.3%	50 - 150		
Trifloxystrobin	0.000	0.275	0.287	0.400	4.2%	< 30	68.7%	71.6%	50 - 150		



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Laboratory Quality Control Results

J AOAC 2015 V98-6 Batch ID: 2301306

Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes
CBDVA	2	0.117	0.101	%	115	80.0	- 120	Acceptable	
CBDV	2	0.128	0.108	%	118	80.0	- 120	Acceptable	
CBE	2	0.121	0.105	%	115	80.0	- 120	Acceptable	
CBDA	1	0.101	0.099	%	103	90.0	- 110	Acceptable	
CBGA	1	0.0987	0.096	%	102	80.0	- 120	Acceptable	
CBG	1	0.0977	0.094	%	104	80.0	- 120	Acceptable	
CBD	1	0.0979	0.096	%	102	90.0	- 110	Acceptable	
THCV	2	0.116	0.103	%	112	80.0	- 120	Acceptable	
d8THCV	2	0.119	0.107	%	112	80.0	- 120	Acceptable	
THCVA	2	0.112	0.097	%	116	80.0	- 120	Acceptable	
CBN	1	0.103	0.101	%	102	80.0	- 120	Acceptable	
exo-THC	2	0.112	0.101	%	111	80.0	- 120	Acceptable	
d9THC	1	0.101	0.100	%	100	90.0	- 110	Acceptable	
d8THC	1	0.104	0.100	%	103	90.0	- 110	Acceptable	
9S-d10THC	1	0.103	0.102	%	101	80.0	- 120	Acceptable	
CBL	2	0.112	0.102	%	109	80.0	- 120	Acceptable	
9S-HHC	3	0.0918	0.100	%	91.8	80.0	- 120	Acceptable	
9R-d10THC	1	0.0985	0.097	%	101	80.0	- 120	Acceptable	
CBC	2	0.119	0.106	%	112	80.0	- 120	Acceptable	
9R-HHC	3	0.0881	0.100	%	88.1	80.0	- 120	Acceptable	
THCA	1	0.0960	0.096	%	99.5	90.0	- 110	Acceptable	
CBCA	2	0.118	0.103	%	115	80.0	- 120	Acceptable	
CBLA	2	0.119	0.104	%	115	80.0	- 120	Acceptable	
d8THCO	3	0.0957	0.100	%	95.7	80.0	- 120	Acceptable	
CBT	2	0.117	0.106	%	110	80.0	- 120	Acceptable	
d9THCO	3	0.0970	0.100	%	97.0	80.0	- 120	Acceptable	

Method Blank						
Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.077	%	< 0.077	Acceptable	
CBDV	<LOQ	0.077	%	< 0.077	Acceptable	
CBE	<LOQ	0.077	%	< 0.077	Acceptable	
CBDA	<LOQ	0.077	%	< 0.077	Acceptable	
CBGA	<LOQ	0.077	%	< 0.077	Acceptable	
CBG	<LOQ	0.077	%	< 0.077	Acceptable	
CBD	<LOQ	0.077	%	< 0.077	Acceptable	
THCV	<LOQ	0.077	%	< 0.077	Acceptable	
d8THCV	<LOQ	0.077	%	< 0.077	Acceptable	
THCVA	<LOQ	0.077	%	< 0.077	Acceptable	
CBN	<LOQ	0.077	%	< 0.077	Acceptable	
exo-THC	<LOQ	0.077	%	< 0.077	Acceptable	
d9THC	<LOQ	0.077	%	< 0.077	Acceptable	
d8THC	<LOQ	0.077	%	< 0.077	Acceptable	
9S-d10THC	<LOQ	0.077	%	< 0.077	Acceptable	
CBL	<LOQ	0.077	%	< 0.077	Acceptable	
9S-HHC	<LOQ	0.077	%	< 0.077	Acceptable	
9R-d10THC	<LOQ	0.077	%	< 0.077	Acceptable	
CBC	<LOQ	0.077	%	< 0.077	Acceptable	
9R-HHC	<LOQ	0.077	%	< 0.077	Acceptable	
THCA	<LOQ	0.077	%	< 0.077	Acceptable	
CBCA	<LOQ	0.077	%	< 0.077	Acceptable	
CBLA	<LOQ	0.077	%	< 0.077	Acceptable	
d8THCO	<LOQ	0.077	%	< 0.077	Acceptable	
CBT	<LOQ	0.077	%	< 0.077	Acceptable	
d9THCO	<LOQ	0.077	%	< 0.077	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: 2301306						
Sample Duplicate		Sample ID: 23-001332-0002						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBDV	0.413	0.413	0.077	%	0.0332	< 20	Acceptable	
CBE	4.02	4.04	0.077	%	0.435	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBG	1.11	1.12	0.077	%	0.363	< 20	Acceptable	
CBD	67.8	67.8	0.077	%	0.0737	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBN	1.12	1.13	0.077	%	0.436	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
d9THC	0.0785	0.0798	0.077	%	1.69	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBL	0.359	0.354	0.077	%	1.38	< 20	Acceptable	
9S-HHC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBC	1.42	1.43	0.077	%	1.10	< 20	Acceptable	
9R-HHC	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
d8THCO	<LOQ	<LOQ	0.077	%	NA	< 20	Acceptable	
CBT	3.82	3.88	0.077	%	1.50	< 20	Acceptable	
d9THCO	<LOQ	<LOQ	0.077	%	NA	< 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: 23-001623/D002.R000
Report Date: 02/10/2023
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Received: 02/07/23 15:18





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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	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.