


CONSOLIDATED TEST RESULTS SUMMARY

Please see the following pages for full test results.

BULK SKU	BATCH #	LOQ: Limit Of Quantitation LOD: Limit Of Detection 1 g = 10 ⁻³ kg = 10 ³ mg = 10 ⁶ µg 1 mg/kg = 1 ppm = 1000 ppb	
PRODUCT NAME	SERVING SIZE		
LABORATORY :	OREGON ACCREDITATION:		OR100028
POTENCY	PER SERVING	PER GRAM	Percent
Cannabidiol (CBD)	mg/serving	mg/g	%
Total THC (d9-THC, THCA)	mg/serving	mg/g	%
Cannabigerol (CBG)	mg/serving	mg/g	%
Cannabinol (CBN)	mg/serving	mg/g	%
Cannabichromene (CBC)	mg/serving	mg/g	%
Tetrahydrocannabinolic Acid (THCA)	mg/serving	mg/g	%
Delta-9-THC (d9-THC)	mg/serving	mg/g	%
Delta-8-THC (d8-THC)	mg/serving	mg/g	%
HEAVY METALS	PER SERVING	PER GRAM	REGULATORY ACTION LEVEL
Arsenic	µg/serving	µg/g	1.5 ppm
Cadmium	µg/serving	µg/g	0.5 ppm
Lead	µg/serving	µg/g	0.5 ppm
Mercury	µg/serving	µg/g	3.0 ppm
PESTICIDES	REGULATORY ACTION LEVEL		
None of the other 59 pesticides tested found above limit of detection in the sample.			10 ppb ^[1]
RESIDUAL SOLVENTS	Results	REGULATORY ACTION LEVEL	
Ethanol*	µg/g	5,000 ppm	
Heptane	µg/g	5,000 ppm	
None of the 34 residual solvents tested found above limit of quantitation in the sample.			
MICROBIAL	PASS/FAIL		
Yeast & Mold	Pass		
Coliform	Pass		



1. American Herbal Pharmacopoeia. (2014). Cannabis Inflorescence: Standards of Identity, Analysis, and Quality Control. Washington DC: AHP.

*Ethanol is a food additive used in some of our ingredients. The FDA has labeled ethanol as Generally Recognized as Safe (GRAS). Many foods contain trace amounts of ethanol, including soy sauce, pasta sauces, fruits and juices, etc. Our products contain safe levels of ethanol and always below pertinent regulatory action levels.



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



Report Number: 24-001468/D004.R000
Report Date: 02/15/2024
ORELAP#: OR100028
Purchase Order: 2855108
Received: 02/08/24 16:29

Customer: Etz Hayim Holdings
Product identity: FORM-GMY.SLP25-GA48
Client/Metric ID: .
Laboratory ID: 24-001468-0007

Summary

Potency:

Analyte per 1g	Result	Limits	Units	Status	
CBC per 1g	0.205		mg/1g		CBD-Total per Serving Size 3.05 mg/1g
CBD per 1g	3.05		mg/1g		
CBE per 1g	0.0637		mg/1g		THC-Total per Serving Size 0.139 mg/1g
CBG per 1g	1.18		mg/1g		
CBN per 1g	1.05		mg/1g		(Reported in milligrams per serving)
CBT per 1g	0.0949		mg/1g		
Δ9-THC per 1g	0.139		mg/1g		

Residual Solvents:

Analyte	Result (µg/g)	Limits (µg/g)	Status
Ethanol	495		

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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Received: 02/08/24 16:29

Customer: Etz Hayim Holdings
16427 NE Airport Way
Portland 97230
United States of America (USA)
Product identity: FORM-GMY.SLP25-GA48
Client/Metric ID: .
Sample Date:
Laboratory ID: 24-001468-0007
Evidence of Cooling: No
Temp: 20.9 °C
Relinquished by: client
Serving Size #1: 1 g

Sample Results

Potency per 1g Method: J AOAC 2015 V98-6 (mod) ^b Units mg/se Batch: 2401155 Analyze: 2/13/24 8:03:00 PM					
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1g	0.205		mg/1g	0.0326	
CBC-A per 1g	< LOQ		mg/1g	0.0326	
CBC-Total per 1g	0.205		mg/1g	0.0612	
CBD per 1g	3.05		mg/1g	0.0326	
CBD-A per 1g	< LOQ		mg/1g	0.0326	
CBD-Total per 1g	3.05		mg/1g	0.0612	
CBDV per 1g	< LOQ		mg/1g	0.0326	
CBDV-A per 1g	< LOQ		mg/1g	0.0326	
CBDV-Total per 1g	< LOQ		mg/1g	0.0609	
CBE per 1g	0.0637		mg/1g	0.0326	
CBG per 1g	1.18		mg/1g	0.0326	
CBG-A per 1g	< LOQ		mg/1g	0.0326	
CBG-Total per 1g	1.18		mg/1g	0.0609	
CBL per 1g	< LOQ		mg/1g	0.0326	
CBL-A per 1g	< LOQ		mg/1g	0.0326	
CBL-Total per 1g	< LOQ		mg/1g	0.0612	
CBN per 1g	1.05		mg/1g	0.0326	
CBT per 1g	0.0949		mg/1g	0.0326	
Δ8-THCV per 1g	< LOQ		mg/1g	0.0326	
Δ10-THC-9R per 1g	< LOQ		mg/1g	0.0326	
Δ10-THC-9S per 1g	< LOQ		mg/1g	0.0326	
Δ10-THC-Total per 1g	< LOQ		mg/1g	0.0652	
Δ8-THC per 1g	< LOQ		mg/1g	0.0326	
Δ9-THC per 1g	0.139		mg/1g	0.0326	
delta-9-THCP per 1g	< LOQ		mg/1g	0.0326	
exo-THC per 1g	< LOQ		mg/1g	0.0326	
THC-A per 1g	< LOQ		mg/1g	0.0326	
THC-Total per 1g	0.139		mg/1g	0.0612	
THCV per 1g	< LOQ		mg/1g	0.0326	
THCV-A per 1g	< LOQ		mg/1g	0.0326	



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Potency per 1g **Method:** J AOAC 2015 V98-6 (mod)^b **Units** mg/se **Batch:** 2401155 **Analyze:** 2/13/24 8:03:00 PM

Analyte	Result	Limits	Units	LOQ	Notes
THCV-Total per 1g	< LOQ		mg/1g	0.0612	
Total Cannabinoids per 1g	5.78		mg/1g		

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2401066	02/12/24 AOAC 991.14 (Petrifilm) ^b		
Total Coliforms	< LOQ		cfu/g	10	2401066	02/12/24 AOAC 991.14 (Petrifilm) ^b		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2401067	02/13/24 AOAC 2014.05 (RAPID) ^b		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2401067	02/13/24 AOAC 2014.05 (RAPID) ^b		

Solvents **Method:** Residual Solvents by GC/MS^b **Units** µg/g **Batch** 2401162 **Analyze** 02/14/24 11:50 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		Ethanol	495		200		
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) ^b										
Units mg/kg Batch 2401122 Analyze 02/13/24 12:14 PM										
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status Notes
Abamectin [‡]	< LOQ	0.50	0.250	pass		Acephate [‡]	< LOQ	0.40	0.200	pass
Acequinocyl [‡]	< LOQ	2.0	1.00	pass		Acetamiprid [‡]	< LOQ	0.20	0.100	pass
Aldicarb [‡]	< LOQ	0.40	0.200	pass		Azoxystrobin [‡]	< LOQ	0.20	0.100	pass
Bifenazate [‡]	< LOQ	0.20	0.100	pass		Bifenthrin [‡]	< LOQ	0.20	0.100	pass
Boscalid [‡]	< LOQ	0.40	0.200	pass		Carbaryl [‡]	< LOQ	0.20	0.100	pass
Carbofuran [‡]	< LOQ	0.20	0.100	pass		Chlorantraniliprole [‡]	< LOQ	0.20	0.100	pass
Chlorfenapyr [‡]	< LOQ	1.0	0.500	pass		Chlorpyrifos [‡]	< 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		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	0.0169	2401175	02/14/24	AOAC 2013.06 (mod.) ^b	pass	
Cadmium [‡]	< LOQ	0.200	mg/kg	0.0169	2401175	02/14/24	AOAC 2013.06 (mod.) ^b	pass	
Lead [‡]	< LOQ	0.500	mg/kg	0.0169	2401175	02/14/24	AOAC 2013.06 (mod.) ^b	pass	
Mercury [‡]	< LOQ	0.100	mg/kg	0.00843	2401175	02/14/24	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

cfu/g = Colony forming units per gram

g = g

µg/g = Microgram per gram

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

mg/1g = Milligram per 1g

% = Percentage of sample

% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner
General Manager



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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: 2401122									
Method Blank				Laboratory Control Sample					
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes	
Abamectin	0.057	< 0.250		0.780	1.000	78.0	50.0 150		
Acephate	0.076	< 0.200		0.643	0.800	80.3	60.0 120		
Acequinocyl	0.157	< 1.000		3.516	4.000	87.9	40.0 160		
Acetamiprid	0.000	< 0.100		0.393	0.400	98.3	60.0 120		
Aldicarb	0.001	< 0.200		0.742	0.800	92.8	60.0 120		
Azoxystrobin	0.011	< 0.100		0.341	0.400	85.3	60.0 120		
Bifenazate	0.011	< 0.100		0.382	0.400	95.4	60.0 120		
Bifenthrin	0.021	< 0.100		0.362	0.400	90.4	50.0 150		
Boscalid	0.022	< 0.200		0.716	0.800	89.5	60.0 120		
Carbaryl	0.001	< 0.100		0.361	0.400	90.3	60.0 120		
Carbofuran	0.000	< 0.100		0.369	0.400	92.2	60.0 120		
Chlorantraniliprole	0.000	< 0.100		0.351	0.400	87.6	60.0 120		
Chlorfenapyr	0.048	< 0.500		1.816	2.000	90.8	60.0 120		
Chlorpyrifos	0.003	< 0.100		0.365	0.400	91.2	60.0 120		
Clofentezine	0.006	< 0.100		0.301	0.400	75.3	60.0 120		
Cyfluthrin	0.100	< 0.500		1.688	2.000	84.4	50.0 150		
Cypermethrin	0.065	< 0.500		1.780	2.000	89.0	50.0 150		
Daminozide	0.000	< 0.500		0.662	2.000	33.1	60.0 120		Q7
Diazinon	0.005	< 0.100		0.379	0.400	94.7	60.0 120		
Dichlorvos	0.005	< 0.500		1.811	2.000	90.6	60.0 120		
Dimethoate	0.005	< 0.100		0.364	0.400	90.9	60.0 120		
Ethoprophos	0.003	< 0.100		0.373	0.400	93.2	60.0 120		
Etofenprox	0.028	< 0.200		0.745	0.800	93.1	50.0 150		
Etoxazole	0.001	< 0.100		0.393	0.400	98.2	60.0 120		
Fenoxycarb	0.006	< 0.100		0.366	0.400	91.5	60.0 120		
Fenpyroximate	0.003	< 0.200		0.741	0.800	92.7	60.0 120		
Fipronil	0.010	< 0.200		0.685	0.800	85.6	60.0 120		
Fonicamid	0.062	< 0.250		0.845	1.000	84.5	60.0 120		
Fludioxonil	0.014	< 0.200		0.768	0.800	96.0	50.0 150		
Hexythiazox	0.005	< 0.250		0.917	1.000	91.7	60.0 120		
Imazalil	0.005	< 0.100		0.376	0.400	93.9	60.0 120		
Imidacloprid	0.013	< 0.200		0.701	0.800	87.7	60.0 120		
Kresoxim-methyl	0.000	< 0.200		0.725	0.800	90.6	60.0 120		
Malathion	0.000	< 0.100		0.383	0.400	95.7	60.0 120		
Metaxyl	0.010	< 0.100		0.365	0.400	91.3	60.0 120		
Methiocarb	0.000	< 0.100		0.379	0.400	94.7	60.0 120		
Methomyl	0.030	< 0.200		0.703	0.800	87.9	60.0 120		
MGK-264	0.007	< 0.100		0.362	0.400	90.6	50.0 150		
Myclobutanil	0.015	< 0.100		0.369	0.400	92.2	60.0 120		
Naled	0.042	< 0.250		0.901	1.000	90.1	50.0 150		
Oxamyl	0.000	< 0.500		1.816	2.000	90.8	60.0 120		
Paclobutrazole	0.007	< 0.200		0.737	0.800	92.2	60.0 120		
Parathion-Methyl	0.000	< 0.100		0.589	0.400	147.4	50.0 150		
Permethrin	0.007	< 0.100		0.373	0.400	93.2	50.0 150		
Phosmet	0.002	< 0.100		0.372	0.400	93.1	50.0 150		
Piperonyl butoxide	0.000	< 0.500		1.850	2.000	92.5	60.0 120		
Prallethrin	0.013	< 0.100		0.366	0.400	91.5	60.0 120		
Propiconazole	0.010	< 0.200		0.774	0.800	96.8	60.0 120		
Propoxur	0.000	< 0.100		0.361	0.400	90.2	60.0 120		
Pyrethrin (Summe)	0.023	< 0.100		0.416	0.488	85.3	60.0 120		
Pyridaben	0.000	< 0.100		0.376	0.400	94.1	50.0 150		
Spirosad	0.013	< 0.100		0.329	0.388	84.9	50.0 150		
Spiromesifen	0.012	< 0.100		0.360	0.400	90.0	60.0 120		
Spirotetramat	0.002	< 0.100		0.379	0.400	94.8	60.0 120		
Spiroxamine	0.015	< 0.200		0.733	0.800	91.6	60.0 120		
Tebuconazole	0.000	< 0.200		0.778	0.800	97.2	60.0 120		
Thiacloprid	0.005	< 0.100		0.371	0.400	92.8	60.0 120		
Thiamethoxam	0.000	< 0.100		0.315	0.400	78.8	60.0 120		
Trifloxystrobin	0.007	< 0.100		0.368	0.400	92.0	60.0 120		



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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662										Units: mg/Kg	Batch ID: 2401122
Matrix Spike/Matrix Spike Duplicate Recoveries										Sample ID: 24-001468-0002	
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes	
Abamectin	0.000	0.801	0.746	1.000	7.2%	< 30	80.1%	74.6%	50 - 150		
Acephate	0.000	0.601	0.627	0.800	4.2%	< 30	75.2%	78.4%	50 - 150		
Acequinocyl	0.000	3.321	3.561	4.000	7.0%	< 30	83.0%	89.0%	50 - 150		
Acetamiprid	0.000	0.413	0.413	0.400	0.0%	< 30	103.2%	103.2%	50 - 150		
Aldicarb	0.000	0.709	0.676	0.800	4.8%	< 30	88.6%	84.5%	50 - 150		
Azoxystrobin	0.000	0.358	0.347	0.400	3.1%	< 30	89.5%	86.7%	50 - 150		
Bifenazate	0.000	0.365	0.353	0.400	3.4%	< 30	91.2%	88.2%	50 - 150		
Bifenthrin	0.000	0.367	0.353	0.400	3.9%	< 30	91.8%	88.3%	50 - 150		
Boscalid	0.000	0.701	0.665	0.800	5.4%	< 30	87.7%	83.1%	50 - 150		
Carbaryl	0.000	0.370	0.345	0.400	7.0%	< 30	92.4%	86.2%	50 - 150		
Carbofuran	0.000	0.363	0.364	0.400	0.2%	< 30	90.7%	91.0%	50 - 150		
Chlorantraniliprole	0.000	0.347	0.342	0.400	1.5%	< 30	86.8%	85.6%	50 - 150		
Chlorfenvapir	0.000	1.392	1.712	2.000	20.6%	< 30	69.6%	85.6%	50 - 150		
Chlorpyrifos	0.000	0.349	0.353	0.400	1.1%	< 30	87.2%	88.2%	50 - 150		
Clofentazine	0.000	0.275	0.279	0.400	1.4%	< 30	68.7%	69.7%	50 - 150		
Cyfluthrin	0.000	1.852	1.990	2.000	7.2%	< 30	92.6%	99.5%	30 - 150		
Cypermethrin	0.000	1.958	1.997	2.000	1.9%	< 30	97.9%	99.8%	50 - 150		
Daminozide	0.000	0.632	0.640	2.000	1.2%	< 30	31.6%	32.0%	30 - 150		
Diazinon	0.000	0.383	0.367	0.400	4.3%	< 30	95.7%	91.7%	50 - 150		
Dichlorvos	0.000	1.748	1.752	2.000	0.2%	< 30	87.4%	87.6%	50 - 150		
Dimethoate	0.000	0.355	0.358	0.400	0.8%	< 30	88.8%	89.5%	50 - 150		
Ethoprophos	0.000	0.365	0.360	0.400	1.4%	< 30	91.2%	90.0%	50 - 150		
Etofenprox	0.000	0.723	0.695	0.800	4.0%	< 30	90.4%	86.8%	50 - 150		
Etoxazole	0.000	0.380	0.365	0.400	4.0%	< 30	95.0%	91.3%	50 - 150		
Fenoxycarb	0.000	0.364	0.357	0.400	2.0%	< 30	91.1%	89.2%	50 - 150		
Fenpyroximate	0.000	0.730	0.728	0.800	0.2%	< 30	91.2%	91.0%	50 - 150		
Fipronil	0.000	0.668	0.663	0.800	0.8%	< 30	83.6%	82.9%	50 - 150		
Fonicamid	0.000	0.788	0.805	1.000	2.1%	< 30	78.8%	80.5%	50 - 150		
Fludioxonil	0.000	0.723	0.627	0.800	14.2%	< 30	90.4%	78.4%	50 - 150		
Hexythiazox	0.000	0.885	0.876	1.000	1.0%	< 30	88.5%	87.6%	50 - 150		
Imazalil	0.000	0.369	0.353	0.400	4.4%	< 30	92.3%	88.3%	50 - 150		
Imidacloprid	0.000	0.664	0.685	0.800	3.2%	< 30	83.0%	85.7%	50 - 150		
Kresoxim-methyl	0.000	0.688	0.671	0.800	2.4%	< 30	86.0%	83.9%	50 - 150		
Malathion	0.000	0.378	0.357	0.400	5.7%	< 30	94.6%	89.4%	50 - 150		
Metaxyl	0.000	0.358	0.355	0.400	1.0%	< 30	89.5%	88.7%	50 - 150		
Methiocarb	0.000	0.360	0.364	0.400	1.2%	< 30	90.0%	91.1%	50 - 150		
Methomyl	0.000	0.618	0.648	0.800	4.8%	< 30	77.2%	81.0%	50 - 150		
MGK-264	0.000	0.344	0.333	0.400	3.2%	< 30	86.0%	83.3%	50 - 150		
Myclobutanil	0.000	0.351	0.339	0.400	3.5%	< 30	87.7%	84.7%	50 - 150		
Naled	0.000	0.844	0.865	1.000	2.5%	< 30	84.4%	86.5%	50 - 150		
Oxamyl	0.000	1.652	1.732	2.000	4.7%	< 30	82.6%	86.6%	50 - 150		
Paclobutrazole	0.000	0.733	0.724	0.800	1.1%	< 30	91.6%	90.6%	50 - 150		
Parathion-Methyl	0.000	0.192	0.239	0.400	21.9%	< 30	47.9%	59.7%	30 - 150		
Permethrin	0.000	0.373	0.350	0.400	6.5%	< 30	93.3%	87.4%	50 - 150		
Phosmet	0.000	0.365	0.350	0.400	4.3%	< 30	91.3%	87.5%	50 - 150		
Piperonyl butoxide	0.000	1.733	1.706	2.000	1.6%	< 30	86.7%	85.3%	50 - 150		
Prallethrin	0.000	0.344	0.332	0.400	3.5%	< 30	86.1%	83.1%	50 - 150		
Propiconazole	0.000	0.741	0.737	0.800	0.5%	< 30	92.6%	92.1%	50 - 150		
Propoxur	0.000	0.363	0.355	0.400	2.3%	< 30	90.9%	88.8%	50 - 150		
Pyrethrin (Summe)	0.000	0.423	0.422	0.488	0.1%	< 30	86.6%	86.5%	50 - 150		
Pyridaben	0.000	0.393	0.398	0.400	1.2%	< 30	98.3%	99.5%	50 - 150		
Spinosad	0.000	0.325	0.306	0.388	5.9%	< 30	83.8%	78.9%	50 - 150		
Spiromesifen	0.000	0.349	0.324	0.400	7.5%	< 30	87.2%	80.9%	50 - 150		
Spirotetramat	0.000	0.364	0.349	0.400	4.1%	< 30	90.9%	87.3%	50 - 150		
Spiroxamine	0.000	0.695	0.717	0.800	3.1%	< 30	86.9%	89.7%	50 - 150		
Tebuconazole	0.000	0.747	0.746	0.800	0.1%	< 30	93.4%	93.3%	50 - 150		
Thiacloprid	0.000	0.367	0.357	0.400	2.9%	< 30	91.8%	89.2%	50 - 150		
Thiamethoxam	0.000	0.312	0.323	0.400	3.6%	< 30	78.0%	80.9%	50 - 150		
Trifloxystrobin	0.000	0.356	0.349	0.400	1.8%	< 30	88.9%	87.3%	50 - 150		



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



Report Number: 24-001468/D004.R000
Report Date: 02/15/2024
ORELAP#: OR100028
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Received: 02/08/24 16:29

Revision: 4 Document ID: 7148
Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6 Batch ID: 0

Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes	
CBDVA	2	0.0316	0.0322	%	98.1	80.0 - 120	Acceptable		
CBDV	2	0.0291	0.0297	%	98.0	80.0 - 120	Acceptable		
CBE	2	0.0347	0.0356	%	97.5	80.0 - 120	Acceptable		
CBDA	1	0.0309	0.0306	%	101	90.0 - 110	Acceptable		
CBGA	1	0.0301	0.0303	%	99.4	80.0 - 120	Acceptable		
CBG	1	0.0323	0.0327	%	98.8	80.0 - 120	Acceptable		
CBD	1	0.0341	0.0335	%	102	90.0 - 110	Acceptable		
THCV	2	0.0324	0.0333	%	97.2	80.0 - 120	Acceptable		
d8THCV	2	0.0276	0.0283	%	97.7	80.0 - 120	Acceptable		
THCVA	2	0.0307	0.0315	%	97.6	80.0 - 120	Acceptable		
CBN	1	0.0301	0.0301	%	99.8	80.0 - 120	Acceptable		
exo-THC	2	0.0323	0.0335	%	96.6	80.0 - 120	Acceptable		
d9THC	1	0.0315	0.0317	%	99.5	90.0 - 110	Acceptable		
d8THC	1	0.0302	0.0304	%	99.1	90.0 - 110	Acceptable		
9S-d10THC	1	0.0318	0.0324	%	98.2	80.0 - 120	Acceptable		
CBL	2	0.0317	0.0328	%	96.6	80.0 - 120	Acceptable		
9R-d10THC	1	0.0308	0.0317	%	97.1	80.0 - 120	Acceptable		
CBC	2	0.0293	0.0305	%	96.2	80.0 - 120	Acceptable		
THCA	1	0.0297	0.0296	%	100	90.0 - 110	Acceptable		
CBCA	2	0.0318	0.0327	%	97.2	80.0 - 120	Acceptable		
CBLA	2	0.0325	0.0336	%	96.6	80.0 - 120	Acceptable		
d9THCP	2	0.0311	0.0328	%	94.8	80.0 - 120	Acceptable		
CBT	2	0.0311	0.0327	%	95.1	80.0 - 120	Acceptable		

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.00315	%	< 0.00315	Acceptable	
CBDV	<LOQ	0.00315	%	< 0.00315	Acceptable	
CBE	<LOQ	0.00315	%	< 0.00315	Acceptable	
CBDA	<LOQ	0.00315	%	< 0.00315	Acceptable	
CBGA	<LOQ	0.00315	%	< 0.00315	Acceptable	
CBG	<LOQ	0.00315	%	< 0.00315	Acceptable	
CBD	<LOQ	0.00315	%	< 0.00315	Acceptable	
THCV	<LOQ	0.00315	%	< 0.00315	Acceptable	
d8THCV	<LOQ	0.00315	%	< 0.00315	Acceptable	
THCVA	<LOQ	0.00315	%	< 0.00315	Acceptable	
CBN	<LOQ	0.00315	%	< 0.00315	Acceptable	
exo-THC	<LOQ	0.00315	%	< 0.00315	Acceptable	
d9THC	<LOQ	0.00315	%	< 0.00315	Acceptable	
d8THC	<LOQ	0.00315	%	< 0.00315	Acceptable	
9S-d10THC	<LOQ	0.00315	%	< 0.00315	Acceptable	
CBL	<LOQ	0.00315	%	< 0.00315	Acceptable	
9R-d10THC	<LOQ	0.00315	%	< 0.00315	Acceptable	
CBC	<LOQ	0.00315	%	< 0.00315	Acceptable	
THCA	<LOQ	0.00315	%	< 0.00315	Acceptable	
CBCA	<LOQ	0.00315	%	< 0.00315	Acceptable	
CBLA	<LOQ	0.00315	%	< 0.00315	Acceptable	
d9THCP	<LOQ	0.00315	%	< 0.00315	Acceptable	
CBT	<LOQ	0.00315	%	< 0.00315	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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503-254-1794



Report Number: 24-001468/D004.R000
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Received: 02/08/24 16:29

Revision: 4 Document ID: 7148
Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6							
Batch ID: 0							
Sample Duplicate							
Sample ID: 24-001463-0001							
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation
CBDVA	<LOQ	<LOQ	0.00308	%	NA	< 20	Acceptable
CBDV	<LOQ	<LOQ	0.00308	%	NA	< 20	Acceptable
CBE	<LOQ	<LOQ	0.00308	%	NA	< 20	Acceptable
CBD	<LOQ	<LOQ	0.00308	%	NA	< 20	Acceptable
CBGA	<LOQ	<LOQ	0.00308	%	NA	< 20	Acceptable
CBG	0.0172	0.0172	0.00308	%	0.0570	< 20	Acceptable
CBD	0.599	0.598	0.00308	%	0.175	< 20	Acceptable
THCV	<LOQ	<LOQ	0.00308	%	NA	< 20	Acceptable
d8THCV	<LOQ	<LOQ	0.00308	%	NA	< 20	Acceptable
THCVA	<LOQ	<LOQ	0.00308	%	NA	< 20	Acceptable
CBN	<LOQ	<LOQ	0.00308	%	NA	< 20	Acceptable
exo-THC	<LOQ	<LOQ	0.00308	%	NA	< 20	Acceptable
d9THC	<LOQ	<LOQ	0.00308	%	NA	< 20	Acceptable
d8THC	<LOQ	<LOQ	0.00308	%	NA	< 20	Acceptable
9S-d10THC	<LOQ	<LOQ	0.00308	%	NA	< 20	Acceptable
CBL	<LOQ	<LOQ	0.00308	%	NA	< 20	Acceptable
9R-d10THC	<LOQ	<LOQ	0.00308	%	NA	< 20	Acceptable
CBC	0.00491	0.00491	0.00308	%	0.0129	< 20	Acceptable
THCA	<LOQ	<LOQ	0.00308	%	NA	< 20	Acceptable
CBCA	<LOQ	<LOQ	0.00308	%	NA	< 20	Acceptable
CBLA	<LOQ	<LOQ	0.00308	%	NA	< 20	Acceptable
d9THCP	<LOQ	<LOQ	0.00308	%	NA	< 20	Acceptable
CBT	<LOQ	<LOQ	0.00308	%	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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Portland, OR 97230
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Laboratory Quality Control Results

Residual Solvents				Batch ID: 2401162					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		387	584	µg/g	66.3	60 - 120	
Isobutane	ND	< 200		508	767	µg/g	66.2	60 - 120	
Butane	ND	< 200		524	782	µg/g	67.0	60 - 120	
2,2-Dimethylpropane	ND	< 200		665	939	µg/g	70.8	60 - 120	
Methanol	ND	< 200		1340	1600	µg/g	83.8	60 - 120	
Ethylene Oxide	ND	< 30		39.7	57.1	µg/g	69.5	60 - 120	
2-Methylbutane	ND	< 200		1370	1600	µg/g	85.6	60 - 120	
Pentane	ND	< 200		1370	1600	µg/g	85.6	60 - 120	
Ethanol	ND	< 200		1400	1600	µg/g	87.5	70 - 130	
Ethyl Ether	ND	< 200		1370	1600	µg/g	85.6	60 - 120	
2,2-Dimethylbutane	ND	< 30		142	163	µg/g	87.1	60 - 120	
Acetone	ND	< 200		1380	1610	µg/g	85.7	60 - 120	
2-Propanol	ND	< 200		1420	1600	µg/g	88.8	60 - 120	
Ethyl Formate	ND	< 500		1020	1620	µg/g	63.0	70 - 130	Q6
Acetonitrile	ND	< 100		411	481	µg/g	85.4	60 - 120	
Methyl Acetate	ND	< 500		1010	1610	µg/g	62.7	70 - 130	Q6
2,3-Dimethylbutane	ND	< 30		136	161	µg/g	84.5	60 - 120	
Dichloromethane	ND	< 60		428	481	µg/g	89.0	60 - 120	
2-Methylpentane	ND	< 30		150	162	µg/g	92.6	60 - 120	
MTBE	ND	< 500		1100	1610	µg/g	68.3	70 - 130	Q6
3-Methylpentane	ND	< 30		137	163	µg/g	84.0	60 - 120	
Hexane	ND	< 30		141	163	µg/g	86.5	60 - 120	
1-Propanol	ND	< 500		1100	1600	µg/g	68.8	70 - 130	Q6
Methylethylketone	ND	< 500		1140	1610	µg/g	70.8	70 - 130	
Ethyl acetate	ND	< 200		1430	1610	µg/g	88.8	60 - 120	
2-Butanol	ND	< 200		1470	1600	µg/g	91.9	60 - 120	
Tetrahydrofuran	ND	< 100		432	487	µg/g	88.7	60 - 120	
Cyclohexane	ND	< 200		1500	1610	µg/g	93.2	60 - 120	
2-methyl-1-propanol	ND	< 500		1400	1610	µg/g	87.0	70 - 130	
Benzene	ND	< 1		4.38	4.88	µg/g	89.8	60 - 120	
Isopropyl Acetate	ND	< 200		1510	1610	µg/g	93.8	60 - 120	
Heptane	ND	< 200		1500	1600	µg/g	93.8	60 - 120	
1-Butanol	ND	< 500		1430	1610	µg/g	88.8	70 - 130	
Propyl Acetate	ND	< 500		1370	1610	µg/g	85.1	70 - 130	
1,4-Dioxane	ND	< 100		457	484	µg/g	94.4	60 - 120	
2-Ethoxyethanol	ND	< 30		151	162	µg/g	93.2	60 - 120	
Methylisobutylketone	ND	< 500		1440	1630	µg/g	88.3	70 - 130	
3-Methyl-1-butanol	ND	< 500		1490	1610	µg/g	92.5	70 - 130	
Ethylene Glycol	ND	< 200		471	496	µg/g	95.0	60 - 120	
Toluene	ND	< 100		483	486	µg/g	99.4	60 - 120	
Isobutyl Acetate	ND	< 500		1430	1610	µg/g	88.8	70 - 130	
1-Pentanol	ND	< 500		1470	1600	µg/g	91.9	70 - 130	
Butyl Acetate	ND	< 500		1450	1600	µg/g	90.6	70 - 130	
Ethylbenzene	ND	< 200		963	961	µg/g	100.2	60 - 120	
m,p-Xylene	ND	< 200		973	973	µg/g	100.0	60 - 120	
o-Xylene	ND	< 200		974	963	µg/g	101.1	60 - 120	
Cumene	ND	< 30		165	164	µg/g	100.6	60 - 120	
Anisole	ND	< 500		1560	1600	µg/g	97.5	70 - 130	
DMSO	ND	< 500		1680	1610	µg/g	104.3	70 - 130	
1,2-dimethoxyethane	ND	< 50		136	170	µg/g	80.0	70 - 130	
Triethylamine	ND	< 500		1280	1600	µg/g	80.0	70 - 130	
N,N-dimethylformamide	ND	< 150		436	482	µg/g	90.5	70 - 130	
N,N-dimethylacetamide	ND	< 150		506	488	µg/g	103.7	70 - 130	
Pyridine	ND	< 50		145	164	µg/g	88.4	70 - 130	
Sulfolane	ND	< 50		166	169	µg/g	98.2	70 - 130	
1,2-Dichloroethane	ND	< 1		0.905	1	µg/g	90.5	70 - 130	
Chloroform	ND	< 1		0.897	1	µg/g	89.7	70 - 130	
Trichloroethylene	ND	< 1		0.908	1	µg/g	90.8	70 - 130	
1,1-Dichloroethane	ND	< 1		0.865	1	µg/g	86.5	70 - 130	



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QC - Sample Duplicate				Sample ID: 24-001419-0001			
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

Units of Measure:

µg/g- Microgram per gram or ppm



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



Report Number: 24-001468/D004.R000
Report Date: 02/15/2024
ORELAP#: OR100028
Purchase Order: 2855108
Received: 02/08/24 16:29





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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.