



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



Report Number: 25-000055/D001.R001
Report Date: 01/16/2025
ORELAP#: OR100028
Purchase Order:
Received: 01/03/25 10:43

This is an amended version of report# 25-000055/D001.R000.
Reason: Updated serving size

Customer: Nightingale Remedies
Product identity: Topical CBD Cream
Metrc ID: .
Metrc Source ID:
Laboratory ID: 25-000055-0001

Summary

Potency:

Analyte per 52g	Result	Limits	Units	Status	
CBD per 52g	478		mg/52g		CBD-Total per Serving Size 478 mg/52g
					Delta-9-THC-Total per <LOQ
					(Reported in milligrams per serving)

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

All analytes passing and less than LOQ.

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.



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Customer: Nightingale Remedies
Product identity: Topical CBD Cream
Metrc ID: .
Metrc Source ID:
Material: Cannabinoid Topical
Sample Date:
Laboratory ID: 25-000055-0001
Evidence of Cooling: No
Temp: 21.2 °C
Serving Size #1: 52 g

Sample Results

Potency per 52g							Method: J AOAC 2015 V98-6 (mod) ^b	Units mg/se	Batch: 2500162	Analyze: 1/9/25 3:10:00 AM
Analyte	Result	Limits	Units	LOQ	Notes					
CBD per 52g	478		mg/52g	1.69						
CBD-A per 52g [±]	< LOQ		mg/52g	1.53						
CBD-Total per 52g [±]	478		mg/52g	3.17						
CBG per 52g	< LOQ		mg/52g	1.53						
CBG-A per 52g	< LOQ		mg/52g	1.53						
CBG-Total per 52g	< LOQ		mg/52g	2.85						
CBN per 52g	< LOQ		mg/52g	1.53						
Δ10-THC-9R per 52g	< LOQ		mg/52g	1.53						
Δ10-THC-9S per 52g	< LOQ		mg/52g	1.53						
Δ10-THC-Total per 52g	< LOQ		mg/52g	3.06						
Δ8-THC per 52g [±]	< LOQ		mg/52g	1.53						
Δ9-THC per 52g [±]	< LOQ		mg/52g	1.53						
Δ9-THC-Total per 52g	< LOQ		mg/52g	2.87						
THC-A per 52g [±]	< LOQ		mg/52g	1.53						

Microbiology									
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed	Method	Status	Notes
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2500053	01/07/25	AOAC 2014.05 (RAPID)		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2500053	01/07/25	AOAC 2014.05 (RAPID)		



Solvents											Method: Residual Solvents by HS-GC-MS ^b				Units µg/g		Batch 2500106		Analyze 01/07/25 12:18 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 [⊥]	< 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 2500085	Analyze 01/06/25 01:36 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	
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-ethyl [±]	< LOQ	0.20	0.100	pass	
Clofentezine [±]	< LOQ	0.20	0.100	pass		Cyfluthrin (sum) [±]	< LOQ	1.0	0.500	pass	
Cypermethrin and	< 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		Paclobotrazole [±]	< 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	0.0930	2500105	01/07/25	AOAC 2013.06 (mod.) ^p	pass		
Cadmium [±]	< LOQ	0.200	mg/kg	0.0930	2500105	01/07/25	AOAC 2013.06 (mod.) ^p	pass		
Lead [±]	< LOQ	0.500	mg/kg	0.0930	2500105	01/07/25	AOAC 2013.06 (mod.) ^p	pass		
Mercury [±]	< LOQ	0.100	mg/kg	0.0465	2500105	01/07/25	AOAC 2013.06 (mod.) ^p	pass		

Nutrition										
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method		Status	Notes	
Lead	pending						JETRO			



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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.

^p = ISO/IEC 17025:2017 accredited method.

[⊥] = TNI accredited analyte.

Units of Measure

cfu/g = Colony forming units per gram

g = Gram

µg/g = Microgram per gram

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

mg/52g = Milligram per 52g

% = Percentage of sample

% wt = µg/g divided by 10,000



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**Hemp & Cannabis
 Chain of Custody**

**Nightingale-Remedies-
 1735929732**

Company Details Company: <u>Nightingale Remedies</u> Contact: <u>Patrick Brennan</u> Street Address: <u>1401 NE Rosa Parks Way</u> City, State, Zip: <u>Portland, OR 97211</u> Email: <u>patrick@nightingale-remedies.com</u> Contact Phone: <u>3105261174</u> Billing Information Billing Email: <u>patrick@nightingale-remedies.com</u>				Project Details Turnaround Time: <u>5 Business Days Reg. For Micro Testing Standard</u> Relinquishment Sampling, Courier & Shipping Options: <u>Drop Off at Laboratory</u> Receipt Information Evidence of Cooling?: No Sample Condition: Satisfactory			Testing				
							H0014 - Potency Cannabis (Basic)	P2120 - Pesticides (OR - Cannabis)	H0008 - Residual Solvents (Cannabis - Oregon)	M283 - RAPID Yeast and Mold Count (RYM) Petrifilm	H0015 - Cannabis Heavy Metals Profile OR
#	Sample Name	Material	Amount Provided	Reporting Unit	Serving Size	Specifications					
1	Topical CBD Cream	Cannabinoid Extract	47 g	mg/serving	47 g	Report per container 47g weight	✓	✓	✓	✓	✓

Relinquished By	Date	Time	Received By	Date	Time	Received Temp., °C	IR Therm. CL#
<i>Patrick Brennan</i>	<i>01/03/2025</i>	<i>10:42</i>	<i>rb</i>	<i>01/03/2025</i>	<i>10:43</i>	<i>21.2</i>	<i>CL-0843</i>

Samples submitted to Columbia Laboratories with testing requirements constitute an agreement for services in accordance with the [current terms of services](#) associated with this COC. By signing "Relinquished by" you are agreeing to these terms.

Columbia Laboratories
 12423 NE Whitaker Way
 Portland, OR 97230

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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg			Batch ID: 2500085			
Method Blank		Laboratory Control Sample						
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Abamectin	0.000	< 0.250		1.154	1.000	115.4	50.0	150
Acephate	0.000	< 0.200		0.870	0.800	108.8	60.0	120
Acequinocyl	0.000	< 1.000		3.897	4.000	97.4	40.0	160
Acetamiprid	0.000	< 0.100		0.421	0.400	105.2	60.0	120
Aldicarb	0.000	< 0.200		0.953	0.800	119.1	60.0	120
Azoxystrobin	0.000	< 0.100		0.410	0.400	102.4	60.0	120
Bifenazate	0.000	< 0.100		1.000	0.400	250.0	60.0	120 Q7, deg
Bifenthrin	0.000	< 0.100		0.403	0.400	100.8	50.0	150
Boscalid	0.000	< 0.200		0.887	0.800	110.9	60.0	120
Carbaryl	0.000	< 0.100		0.408	0.400	101.9	60.0	120
Carbofuran	0.000	< 0.100		0.407	0.400	101.7	60.0	120
Chlorantraniliprole	0.000	< 0.100		0.430	0.400	107.5	60.0	120
Chlorfenapyr	0.038	< 0.500		2.160	2.000	108.0	60.0	120
Chlorpyrifos	0.005	< 0.100		0.369	0.400	92.3	60.0	120
Clofentezine	0.000	< 0.100		0.335	0.400	83.7	60.0	120
Cyfluthrin	0.000	< 0.500		1.899	2.000	94.9	50.0	150
Cypermethrin	0.000	< 0.500		1.862	2.000	93.1	50.0	150
Daminozide	0.000	< 0.500		0.899	2.000	45.0	60.0	120 Q1
Diazinon	0.000	< 0.100		0.525	0.400	131.2	60.0	120 Q7
Dichlorvos	0.000	< 0.500		1.853	2.000	92.6	60.0	120
Dimethoate	0.000	< 0.100		0.447	0.400	111.8	60.0	120
Ethoprophos	0.000	< 0.100		0.394	0.400	98.6	60.0	120
Etofenprox	0.000	< 0.200		0.849	0.800	106.1	50.0	150
Etoazole	0.000	< 0.100		0.534	0.400	133.5	60.0	120 Q7
Fenoxycarb	0.000	< 0.100		0.467	0.400	116.8	60.0	120
Fenpyroximate	0.000	< 0.200		0.798	0.800	99.8	60.0	120
Fipronil	0.000	< 0.200		0.788	0.800	98.5	60.0	120
Flonicamid	0.000	< 0.250		1.127	1.000	112.7	60.0	120
Fludioxonil	0.000	< 0.200		0.806	0.800	100.7	50.0	150
Hexythiazox	0.000	< 0.250		1.130	1.000	113.0	60.0	120
Imazalil	0.000	< 0.100		0.492	0.400	122.9	60.0	120 Q7
Imidacloprid	0.000	< 0.200		0.882	0.800	110.3	60.0	120
Kresoxim-methyl	0.000	< 0.200		0.926	0.800	115.7	60.0	120
Malathion	0.000	< 0.100		0.482	0.400	120.6	60.0	120 Q7
Metalaxyl	0.000	< 0.100		0.478	0.400	119.6	60.0	120
Methiocarb	0.000	< 0.100		0.391	0.400	97.8	60.0	120
Methomyl	0.000	< 0.200		0.883	0.800	110.4	60.0	120
MGK-264	0.000	< 0.100		0.450	0.400	112.6	50.0	150
Myclobutanil	0.000	< 0.100		0.479	0.400	119.7	60.0	120
Naled	0.000	< 0.250		0.941	1.000	94.1	50.0	150
Oxamyl	0.000	< 0.500		2.194	2.000	109.7	60.0	120
Paclobutrazole	0.000	< 0.200		0.921	0.800	115.1	60.0	120
Parathion-Methyl	0.000	< 0.100		0.468	0.400	117.0	50.0	150
Permethrin	0.000	< 0.100		0.412	0.400	103.1	50.0	150
Phosmet	0.000	< 0.100		0.456	0.400	113.9	50.0	150
Piperonyl butoxide	0.000	< 0.500		2.232	2.000	111.6	60.0	120
Prallethrin	0.000	< 0.100		0.466	0.400	116.6	60.0	120
Propiconazole	0.000	< 0.200		0.940	0.800	117.4	60.0	120
Propoxur	0.000	< 0.100		0.399	0.400	99.8	60.0	120
Pyrethrin (Summe)	0.000	< 0.100		0.507	0.488	103.8	60.0	120
Pyridaben	0.000	< 0.100		0.460	0.400	114.9	50.0	150
Spinosad	0.000	< 0.100		0.404	0.388	104.1	50.0	150
Spiromesifen	0.000	< 0.100		0.439	0.400	109.8	60.0	120
Spirotetramat	0.000	< 0.100		0.443	0.400	110.7	60.0	120
Spiroxamine	0.000	< 0.200		0.956	0.800	119.5	60.0	120



Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg					Batch ID: 2500085			
Matrix Spike/Matrix Spike Duplicate Recoveries							Sample ID: 25-000050-0001			
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Abamectin	0.019	0.962	0.960	1.000	0.2%	< 30	94.3%	94.1%	50 - 150	
Acephate	0.000	0.835	0.780	0.800	6.7%	< 30	104.3%	97.6%	50 - 150	
Acequinocyl	0.000	3.864	0.050	4.000	194.9%	< 30	96.6%	1.3%	50 - 150	R, Q
Acetamiprid	0.000	0.396	0.390	0.400	1.5%	< 30	99.1%	97.6%	50 - 150	
Aldicarb	0.000	0.894	0.867	0.800	3.1%	< 30	111.8%	108.3%	50 - 150	
Azoxystrobin	0.000	0.368	0.362	0.400	1.6%	< 30	91.9%	90.5%	50 - 150	
Bifenazate	0.000	0.929	0.930	0.400	0.1%	< 30	232.2%	232.5%	50 - 150	Q, deg
Bifenthrin	0.000	0.327	0.324	0.400	1.0%	< 30	81.9%	81.0%	50 - 150	
Boscalid	0.000	0.828	0.844	0.800	1.8%	< 30	103.6%	105.5%	50 - 150	
Carbaryl	0.000	0.373	0.369	0.400	1.0%	< 30	93.2%	92.3%	50 - 150	
Carbofuran	0.000	0.377	0.381	0.400	1.2%	< 30	94.1%	95.3%	50 - 150	
Chlorantraniliprole	0.000	0.402	0.412	0.400	2.6%	< 30	100.4%	103.1%	50 - 150	
Chlorfenapyr	0.107	2.069	2.175	2.000	5.3%	< 30	98.1%	103.4%	50 - 150	
Chlorpyrifos	0.007	0.321	0.308	0.400	4.1%	< 30	78.6%	75.4%	50 - 150	
Clofentezine	0.000	0.449	0.442	0.400	1.5%	< 30	112.2%	110.5%	50 - 150	
Cyfluthrin	0.000	1.939	1.993	2.000	2.7%	< 30	97.0%	99.7%	30 - 150	
Cypermethrin	0.003	1.251	1.148	2.000	8.6%	< 30	62.4%	57.2%	50 - 150	
Daminozide	0.000	0.931	0.828	2.000	11.7%	< 30	46.6%	41.4%	30 - 150	
Diazinon	0.000	0.486	0.501	0.400	3.0%	< 30	121.6%	125.3%	50 - 150	
Dichlorvos	0.000	1.723	1.717	2.000	0.4%	< 30	86.2%	85.8%	50 - 150	
Dimethoate	0.000	0.427	0.416	0.400	2.6%	< 30	106.8%	104.0%	50 - 150	
Ethoprophos	0.000	0.358	0.358	0.400	0.0%	< 30	89.6%	89.6%	50 - 150	
Etofenprox	0.000	0.616	0.493	0.800	22.3%	< 30	77.0%	61.6%	50 - 150	
Etoazole	0.000	0.442	0.439	0.400	0.6%	< 30	110.4%	109.8%	50 - 150	
Fenoxycarb	0.000	0.432	0.430	0.400	0.5%	< 30	107.9%	107.4%	50 - 150	
Fenpyroximate	0.000	0.708	0.681	0.800	3.8%	< 30	88.5%	85.1%	50 - 150	
Fipronil	0.000	0.718	0.700	0.800	2.5%	< 30	89.7%	87.5%	50 - 150	
Fonicamid	0.000	1.074	1.007	1.000	6.4%	< 30	107.4%	100.7%	50 - 150	
Fludioxonil	0.000	0.730	0.714	0.800	2.3%	< 30	91.2%	89.2%	50 - 150	
Hexythiazox	0.000	1.219	1.236	1.000	1.4%	< 30	121.9%	123.6%	50 - 150	
Imazalil	0.000	0.452	0.449	0.400	0.7%	< 30	113.0%	112.2%	50 - 150	
Imidacloprid	0.000	0.794	0.773	0.800	2.8%	< 30	99.3%	96.6%	50 - 150	
Kresoxim-methyl	0.000	0.849	0.928	0.800	8.8%	< 30	106.2%	116.0%	50 - 150	
Malathion	0.000	0.436	0.439	0.400	0.6%	< 30	109.1%	109.8%	50 - 150	
Metalaxyl	0.000	0.461	0.438	0.400	5.1%	< 30	115.2%	109.4%	50 - 150	
Methiocarb	0.000	0.363	0.353	0.400	2.7%	< 30	90.8%	88.4%	50 - 150	
Methomyl	0.000	0.816	0.759	0.800	7.3%	< 30	102.1%	94.9%	50 - 150	
MGK-264	0.000	0.420	0.407	0.400	3.2%	< 30	105.0%	101.7%	50 - 150	
Myclobutanil	0.000	0.449	0.423	0.400	5.8%	< 30	112.2%	105.8%	50 - 150	
Naled	0.000	0.849	0.849	1.000	0.1%	< 30	84.9%	84.9%	50 - 150	
Oxamyl	0.000	2.004	1.901	2.000	5.3%	< 30	100.2%	95.0%	50 - 150	
Paclobutrazole	0.000	0.860	0.797	0.800	7.6%	< 30	107.5%	99.6%	50 - 150	
Parathion-Methyl	0.000	0.405	0.400	0.400	1.2%	< 30	101.1%	99.9%	30 - 150	
Permethrin	0.000	0.410	0.360	0.400	12.9%	< 30	102.5%	90.1%	50 - 150	
Phosmet	0.000	0.438	0.431	0.400	1.7%	< 30	109.6%	107.8%	50 - 150	
Piperonyl butoxide	0.000	2.107	2.174	2.000	3.1%	< 30	105.3%	108.7%	50 - 150	
Prallethrin	0.000	0.430	0.431	0.400	0.4%	< 30	107.5%	107.8%	50 - 150	
Propiconazole	0.000	0.885	0.923	0.800	4.2%	< 30	110.7%	115.4%	50 - 150	
Propoxur	0.000	0.373	0.373	0.400	0.0%	< 30	93.2%	93.2%	50 - 150	
Pyrethrin (Summe)	0.001	0.470	0.434	0.488	7.9%	< 30	96.2%	88.9%	50 - 150	
Pyridaben	0.019	0.243	0.236	0.400	3.2%	< 30	56.1%	54.4%	50 - 150	
Spinosad	0.000	0.365	0.365	0.388	0.2%	< 30	94.0%	94.1%	50 - 150	
Spiromesifen	0.000	0.211	0.203	0.400	4.3%	< 30	52.9%	50.7%	50 - 150	
Spirotetramat	0.000	0.423	0.423	0.400	0.2%	< 30	105.6%	105.8%	50 - 150	
Spiroxamine	0.000	0.903	0.881	0.800	2.5%	< 30	112.8%	110.1%	50 - 150	


Laboratory Quality Control Results

Residual Solvents				Batch ID: 2500106					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		625	585	µg/g	106.8	60 - 120	
Isobutane	ND	< 200		794	770	µg/g	103.1	60 - 120	
Butane	ND	< 200		794	769	µg/g	103.3	60 - 120	
2,2-Dimethylpropane	ND	< 200		975	956	µg/g	102.0	60 - 120	
Methanol	ND	< 200		1670	1620	µg/g	103.1	60 - 120	
Ethylene Oxide	ND	< 30		58.9	57.7	µg/g	102.1	60 - 120	
2-Methylbutane	ND	< 200		1630	1640	µg/g	99.4	60 - 120	
Pentane	ND	< 200		1630	1640	µg/g	99.4	60 - 120	
Ethanol	ND	< 200		1650	1620	µg/g	101.9	70 - 130	
Ethyl Ether	ND	< 200		1650	1630	µg/g	101.2	60 - 120	
2,2-Dimethylbutane	ND	< 30		220	212	µg/g	103.8	60 - 120	
Acetone	ND	< 200		1670	1630	µg/g	102.5	60 - 120	
2-Propanol	ND	< 200		1660	1620	µg/g	102.5	60 - 120	
Ethyl Formate	ND	< 500		1190	1600	µg/g	74.4	70 - 130	
Acetonitrile	ND	< 100		507	504	µg/g	100.6	60 - 120	
Methyl Acetate	ND	< 500		1540	1600	µg/g	96.3	70 - 130	
2,3-Dimethylbutane	ND	< 30		197	189	µg/g	104.2	60 - 120	
Dichloromethane	ND	< 60		512	538	µg/g	95.2	60 - 120	
2-Methylpentane	ND	< 30		191	182	µg/g	104.9	60 - 120	
MTBE	ND	< 500		1530	1600	µg/g	95.6	70 - 130	
3-Methylpentane	ND	< 30		186	179	µg/g	103.9	60 - 120	
Hexane	ND	< 30		183	178	µg/g	102.8	60 - 120	
1-Propanol	ND	< 500		1530	1600	µg/g	95.6	70 - 130	
Methylethylketone	ND	< 500		1530	1600	µg/g	95.6	70 - 130	
Ethyl acetate	ND	< 200		1630	1620	µg/g	100.6	60 - 120	
2-Butanol	ND	< 200		1630	1620	µg/g	100.6	60 - 120	
Tetrahydrofuran	ND	< 100		524	511	µg/g	102.5	60 - 120	
Cyclohexane	ND	< 200		1640	1620	µg/g	101.2	60 - 120	
2-methyl-1-propanol	ND	< 500		1490	1600	µg/g	93.1	70 - 130	
Benzene	ND	< 1		6.01	6.03	µg/g	99.7	60 - 120	
Isopropyl Acetate	ND	< 200		1590	1620	µg/g	98.1	60 - 120	
Heptane	ND	< 200		1570	1620	µg/g	96.9	60 - 120	
1-Butanol	ND	< 500		1500	1600	µg/g	93.8	70 - 130	
Propyl Acetate	ND	< 500		1520	1610	µg/g	94.4	70 - 130	
1,4-Dioxane	ND	< 100		521	503	µg/g	103.6	60 - 120	
2-Ethoxyethanol	ND	< 30		177	176	µg/g	100.6	60 - 120	
Methylisobutylketone	ND	< 500		1520	1610	µg/g	94.4	70 - 130	
3-Methyl-1-butanol	ND	< 500		1490	1600	µg/g	93.1	70 - 130	
Ethylene Glycol	ND	< 200		485	501	µg/g	96.8	60 - 120	
Toluene	ND	< 100		530	543	µg/g	97.6	60 - 120	
Isobutyl Acetate	ND	< 500		1460	1600	µg/g	91.3	70 - 130	
1-Pentanol	ND	< 500		1450	1600	µg/g	90.6	70 - 130	
Butyl Acetate	ND	< 500		1420	1600	µg/g	88.8	70 - 130	
Ethylbenzene	ND	< 200		951	983	µg/g	96.7	60 - 120	
m,p-Xylene	ND	< 200		999	1030	µg/g	97.0	60 - 120	
o-Xylene	ND	< 200		949	979	µg/g	96.9	60 - 120	
Cumene	ND	< 30		177	183	µg/g	96.7	60 - 120	
Anisole	ND	< 500		1420	1610	µg/g	88.2	70 - 130	
DMSO	ND	< 500		1220	1600	µg/g	76.3	70 - 130	
1,2-dimethoxyethane	ND	< 50		154	164	µg/g	93.9	70 - 130	
Triethylamine	ND	< 500		1440	1600	µg/g	90.0	70 - 130	
N,N-dimethylformamide	ND	< 150		382	481	µg/g	79.4	70 - 130	
N,N-dimethylacetamide	ND	< 150		439	486	µg/g	90.3	70 - 130	
Pyridine	ND	< 50		138	168	µg/g	82.1	70 - 130	
Sulfolane	ND	< 50		104	165	µg/g	63.0	70 - 130	Q6
1,2-Dichloroethane	ND	< 1		0.937	1	µg/g	93.7	70 - 130	
Chloroform	ND	< 1		0.912	1	µg/g	91.2	70 - 130	
Trichloroethylene	ND	< 1		0.853	1	µg/g	85.3	70 - 130	
1,1-Dichloroethane	ND	< 1		0.879	1	µg/g	87.9	70 - 130	



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

QC - Sample Duplicate

Sample ID: 24-014550-0001

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	
Methylethylketone	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Ethyl acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Butanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Tetrahydrofuran	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Cyclohexane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-methyl-1-propanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Benzene	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Isopropyl Acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Heptane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
1-Butanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Propyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
1,4-Dioxane	ND	ND	100	µg/g	0.0	< 20	Acceptable	
2-Ethoxyethanol	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Methylisobutylketone	ND	ND	500	µg/g	0.0	< 20	Acceptable	
3-Methyl-1-butanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Ethylene Glycol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Toluene	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Isobutyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
1-Pentanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Butyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Ethylbenzene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
m,p-Xylene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
o-Xylene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Cumene	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Anisole	ND	ND	500	µg/g	0.0	< 20	Acceptable	
DMSO	ND	ND	500	µg/g	0.0	< 20	Acceptable	
1,2-dimethoxyethane	ND	ND	50	µg/g	0.0	< 20	Acceptable	
Triethylamine	ND	ND	500	µg/g	0.0	< 20	Acceptable	
N,N-dimethylformamide	ND	ND	150	µg/g	0.0	< 20	Acceptable	
N,N-dimethylacetamide	ND	ND	150	µg/g	0.0	< 20	Acceptable	
Pyridine	ND	ND	50	µg/g	0.0	< 20	Acceptable	
Sulfolane	ND	ND	50	µg/g	0.0	< 20	Acceptable	
1,2-Dichloroethane	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Chloroform	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Trichloroethylene	ND	ND	1	µg/g	0.0	< 20	Acceptable	
1,1-Dichloroethane	ND	ND	1	µg/g	0.0	< 20	Acceptable	

Abbreviations

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

Units of Measure:

µg/g- Microgram per gram or ppm



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



Report Number: 25-000055/D001.R001
Report Date: 01/16/2025
ORELAP#: OR100028
Purchase Order:
Received: 01/03/25 10:43

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

Laboratory Quality Control Results

J AOAC 2015 V98-6 Batch ID: 2500162

Laboratory Control Sample

Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	2	0.0239	0.0255	%	93.8	80.0 - 120	Acceptable	
CBDV	2	0.0254	0.0271	%	93.7	80.0 - 120	Acceptable	
CBE	2	0.0248	0.0273	%	90.8	80.0 - 120	Acceptable	
CBDA	1	0.0281	0.0289	%	97.5	90.0 - 110	Acceptable	
CBGA	1	0.0275	0.0282	%	97.4	80.0 - 120	Acceptable	
CBG	1	0.0273	0.0275	%	99.3	80.0 - 120	Acceptable	
CBD	1	0.0265	0.0271	%	97.9	90.0 - 110	Acceptable	
THCV	2	0.0251	0.0272	%	92.4	80.0 - 120	Acceptable	
d8THCV	2	0.0256	0.0277	%	92.2	80.0 - 120	Acceptable	
THCVA	2	0.0241	0.0248	%	96.9	80.0 - 120	Acceptable	
CBN	1	0.0260	0.0265	%	98.1	80.0 - 120	Acceptable	
exo-THC	2	0.0245	0.0253	%	96.8	80.0 - 120	Acceptable	
d9THC	1	0.0270	0.0271	%	99.7	90.0 - 110	Acceptable	
d8THC	1	0.0265	0.0278	%	95.2	90.0 - 110	Acceptable	
9S-d10THC	1	0.0282	0.0287	%	98.2	80.0 - 120	Acceptable	
CBL	2	0.0243	0.0256	%	95.0	80.0 - 120	Acceptable	
9R-d10THC	1	0.0290	0.0298	%	97.3	80.0 - 120	Acceptable	
CBC	2	0.0264	0.0270	%	97.9	80.0 - 120	Acceptable	
THCA	1	0.0278	0.0290	%	95.9	90.0 - 110	Acceptable	
CBCA	2	0.0246	0.0262	%	94.0	80.0 - 120	Acceptable	
CBLA	2	0.0261	0.0266	%	98.0	80.0 - 120	Acceptable	
d9THCP	2	0.0250	0.0260	%	96.2	80.0 - 120	Acceptable	
CBT	2	0.0279	0.0272	%	103	80.0 - 120	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.00326	%	< 0.00326	Acceptable	
CBDV	<LOQ	0.00326	%	< 0.00326	Acceptable	
CBE	<LOQ	0.00326	%	< 0.00326	Acceptable	
CBDA	<LOQ	0.00326	%	< 0.00326	Acceptable	
CBGA	<LOQ	0.00326	%	< 0.00326	Acceptable	
CBG	<LOQ	0.00326	%	< 0.00326	Acceptable	
CBD	<LOQ	0.00326	%	< 0.00326	Acceptable	
THCV	<LOQ	0.00326	%	< 0.00326	Acceptable	
d8THCV	<LOQ	0.00326	%	< 0.00326	Acceptable	
THCVA	<LOQ	0.00326	%	< 0.00326	Acceptable	
CBN	<LOQ	0.00326	%	< 0.00326	Acceptable	
exo-THC	<LOQ	0.00326	%	< 0.00326	Acceptable	
d9THC	<LOQ	0.00326	%	< 0.00326	Acceptable	
d8THC	<LOQ	0.00326	%	< 0.00326	Acceptable	
9S-d10THC	<LOQ	0.00326	%	< 0.00326	Acceptable	
CBL	<LOQ	0.00326	%	< 0.00326	Acceptable	
9R-d10THC	<LOQ	0.00326	%	< 0.00326	Acceptable	
CBC	<LOQ	0.00326	%	< 0.00326	Acceptable	
THCA	<LOQ	0.00326	%	< 0.00326	Acceptable	
CBCA	<LOQ	0.00326	%	< 0.00326	Acceptable	
CBLA	<LOQ	0.00326	%	< 0.00326	Acceptable	
d9THCP	<LOQ	0.00326	%	< 0.00326	Acceptable	
CBT	<LOQ	0.00326	%	< 0.00326	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
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Report Number: 25-000055/D001.R001
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Received: 01/03/25 10:43

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

Laboratory Quality Control Results

AOAC 2015 V98-6		Batch ID: 2500162						
Sample Duplicate		Sample ID: 25-000050-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	0.0552	0.0563	0.00317	%	1.94	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.00317	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.00317	%	NA	< 20	Acceptable	
CBDA	0.528	0.528	0.00317	%	0.0385	< 20	Acceptable	
CBGA	0.00749	0.00717	0.00317	%	4.29	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.00317	%	NA	< 20	Acceptable	
CBD	0.0132	0.0141	0.00317	%	6.90	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.00317	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.00317	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00317	%	NA	< 20	Acceptable	
CBN	0.00781	0.00783	0.00317	%	0.302	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00317	%	NA	< 20	Acceptable	
d9THC	0.132	0.130	0.00317	%	1.21	< 20	Acceptable	
d8THC	3.40	3.37	0.00317	%	0.987	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.00317	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.00317	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.00317	%	NA	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.00317	%	NA	< 20	Acceptable	
THCA	0.0201	0.0201	0.00317	%	0.108	< 20	Acceptable	
CBCA	0.0218	0.0218	0.00317	%	0.273	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.00317	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00317	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.00317	%	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



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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.