



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



**Report Number:** 22-015839/D002.R000  
**Report Date:** 01/19/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 12/28/22 12:22

**Customer:** NW Natural Goods  
**Product identity:** HEMP- EB 0058  
**Client/Metric ID:** .  
**Laboratory ID:** 22-015839-0001

### Summary

**Potency:**

Analyte per 4g	Result	Limits	Units	Status	
CBC per 4g	0.182		mg/4g		CBD-Total per Serving Size 24.3 mg/4g
CBD per 4g	24.2		mg/4g		
CBN per 4g	5.04		mg/4g		THC-Total per Serving Size <LOQ
CBT per 4g	0.136		mg/4g		(Reported in milligrams per serving)

**Residual Solvents:**

*All analytes passing and less than LOQ.*

**Pesticides:**

Analyte	Result (mg/kg)	Limits (mg/kg)	Status
Multi-Residue Pesticide Profile	< LOQ for all analytes		

**Metals:**

*Less than LOQ for all analytes.*

**Microbiology:**

*Less than LOQ for all analytes.*



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**Product identity:** HEMP- EB 0058

**Client/Metric ID:** .

**Sample Date:**

**Laboratory ID:** 22-015839-0001

**Evidence of Cooling:** No

**Temp:** 17.9

**Relinquished by:** hinton

**Serving Size #1:** 4 g

### Sample Results

Potency per 4g					
Method: J AOAC 2015 V98-6 (mod) <sup>b</sup>					
Units mg/se Batch: 2210991 Analyze: 12/30/22 2:21:00 AM					
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 4g	0.182		mg/4g	0.131	
CBC-A per 4g	< LOQ		mg/4g	0.131	
CBC-Total per 4g	< LOQ		mg/4g	0.247	
CBD per 4g	24.2		mg/4g	0.131	
CBD-A per 4g	< LOQ		mg/4g	0.131	
CBD-Total per 4g	24.3		mg/4g	0.247	
CBDV per 4g	< LOQ		mg/4g	0.131	
CBDV-A per 4g	< LOQ		mg/4g	0.131	
CBDV-Total per 4g	< LOQ		mg/4g	0.245	
CBE per 4g	< LOQ		mg/4g	0.131	
CBG per 4g	< LOQ		mg/4g	0.131	
CBG-A per 4g	< LOQ		mg/4g	0.131	
CBG-Total per 4g	< LOQ		mg/4g	0.245	
CBL per 4g	< LOQ		mg/4g	0.131	
CBL-A per 4g	< LOQ		mg/4g	0.131	
CBL-Total per 4g	< LOQ		mg/4g	0.247	
CBN per 4g	5.04		mg/4g	0.131	
CBT per 4g	0.136		mg/4g	0.131	
Δ8-THCV per 4g	< LOQ		mg/4g	0.131	
Δ10-THC-9R per 4g	< LOQ		mg/4g	0.131	
Δ8-THC per 4g	< LOQ		mg/4g	0.131	
Δ9-THC per 4g	< LOQ		mg/4g	0.131	
exo-THC per 4g	< LOQ		mg/4g	0.131	
THC-A per 4g	< LOQ		mg/4g	0.131	
THC-Total per 4g	< LOQ		mg/4g	0.247	
THCV per 4g	< LOQ		mg/4g	0.131	
THCV-A per 4g	< LOQ		mg/4g	0.131	
THCV-Total per 4g	< LOQ		mg/4g	0.247	
Total Cannabinoids per 4g	29.8		mg/4g		



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**Microbiology**

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2300099	01/07/23 AOAC 991.14 (Petrifilm) <sup>P</sup>		
Total Coliforms	< LOQ		cfu/g	10	2300099	01/07/23 AOAC 991.14 (Petrifilm) <sup>P</sup>		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2300100	01/08/23 AOAC 2014.05 (RAPID) <sup>P</sup>		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2300100	01/08/23 AOAC 2014.05 (RAPID) <sup>P</sup>		

**Solvents** Method: Residual Solvents by GC/MS<sup>P</sup> Units µg/g Batch 2300376 Analyze 01/12/23 12:27 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)<sup>b</sup> Units mg/kg Batch 2300068 Analyze 01/18/23 10:12 AM

Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin <sup>‡</sup>	< LOQ	0.50	0.250	pass		Acephate <sup>‡</sup>	< LOQ	0.40	0.200	pass	
Acequinocyl <sup>‡</sup>	< LOQ	2.0	1.00	pass		Acetamiprid <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Aldicarb <sup>‡</sup>	< LOQ	0.40	0.200	pass		Azoxystrobin <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Bifentazate <sup>‡</sup>	< LOQ	0.20	0.100	pass		Bifenthrin <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Boscalid <sup>‡</sup>	< LOQ	0.40	0.200	pass		Carbaryl <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Carbofuran <sup>‡</sup>	< LOQ	0.20	0.100	pass		Chlorantraniliprole <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Chlorfenapyr <sup>‡</sup>	< LOQ	1.0	0.500	pass		Chlorpyrifos <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Clofentezine <sup>‡</sup>	< LOQ	0.20	0.100	pass		Cyfluthrin <sup>‡</sup>	< LOQ	1.0	0.500	pass	
Cypermethrin <sup>‡</sup>	< LOQ	1.0	0.500	pass		Daminozide <sup>‡</sup>	< LOQ	1.0	0.500	pass	
Diazinon <sup>‡</sup>	< LOQ	0.20	0.100	pass		Dichlorvos <sup>‡</sup>	< LOQ	1.0	0.500	pass	
Dimethoate <sup>‡</sup>	< LOQ	0.20	0.100	pass		Ethoprophos <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Etofenprox <sup>‡</sup>	< LOQ	0.40	0.200	pass		Etoxazole <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Fenoxycarb <sup>‡</sup>	< LOQ	0.20	0.100	pass		Fenpyroximate <sup>‡</sup>	< LOQ	0.40	0.200	pass	
Fipronil <sup>‡</sup>	< LOQ	0.40	0.200	pass		Flonicamid <sup>‡</sup>	< LOQ	1.0	0.400	pass	
Fludioxonil <sup>‡</sup>	< LOQ	0.40	0.200	pass		Hexythiazox <sup>‡</sup>	< LOQ	1.0	0.400	pass	
Imazalil <sup>‡</sup>	< LOQ	0.20	0.100	pass		Imidacloprid <sup>‡</sup>	< LOQ	0.40	0.200	pass	
Kresoxim-methyl <sup>‡</sup>	< LOQ	0.40	0.200	pass		Malathion <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Metalaxyl <sup>‡</sup>	< LOQ	0.20	0.100	pass		Methiocarb <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Methomyl <sup>‡</sup>	< LOQ	0.40	0.200	pass		MGK-264 <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Myclobutanil <sup>‡</sup>	< LOQ	0.20	0.100	pass		Naled <sup>‡</sup>	< LOQ	0.50	0.250	pass	
Oxamyl <sup>‡</sup>	< LOQ	1.0	0.500	pass		Pacllobutrazole <sup>‡</sup>	< LOQ	0.40	0.200	pass	
Parathion-Methyl <sup>‡</sup>	< LOQ	0.20	0.100	pass		Permethrin <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Phosmet <sup>‡</sup>	< LOQ	0.20	0.100	pass		Piperonyl butoxide <sup>‡</sup>	< LOQ	2.0	1.00	pass	
Prallethrin <sup>‡</sup>	< LOQ	0.20	0.100	pass		Propiconazole <sup>‡</sup>	< LOQ	0.40	0.200	pass	
Propoxur <sup>‡</sup>	< LOQ	0.20	0.100	pass		Pyrethrin I (total) <sup>‡</sup>	< LOQ	1.0	0.500	pass	
Pyridaben <sup>‡</sup>	< LOQ	0.20	0.100	pass		Spinosad <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Spiromesifen <sup>‡</sup>	< LOQ	0.20	0.100	pass		Spirotetramat <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Spiroxamine <sup>‡</sup>	< LOQ	0.40	0.200	pass		Tebuconazole <sup>‡</sup>	< LOQ	0.40	0.200	pass	
Thiacloprid <sup>‡</sup>	< LOQ	0.20	0.100	pass		Thiamethoxam <sup>‡</sup>	< LOQ	0.20	0.100	pass	
Trifloxystrobin <sup>‡</sup>	< LOQ	0.20	0.100	pass							

**Metals**

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Arsenic	< LOQ	0.200	mg/kg	0.0183	2300070	01/03/23 AOAC 2013.06 (mod.) <sup>p</sup>	pass	
Cadmium	< LOQ	0.200	mg/kg	0.0183	2300070	01/03/23 AOAC 2013.06 (mod.) <sup>p</sup>	pass	
Lead	< LOQ	0.500	mg/kg	0.0183	2300070	01/03/23 AOAC 2013.06 (mod.) <sup>p</sup>	pass	
Mercury	< LOQ	0.100	mg/kg	0.00915	2300070	01/03/23 AOAC 2013.06 (mod.) <sup>p</sup>	pass	

**Nutrition**

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Moisture (Loss on Drying)	18.1		g/100g	0.10	2300579	01/18/23 AOAC 925.10 (mod.) <sup>p</sup>		
Water Activity	0.671		Aw	0.030	2300394	01/12/23 AOAC 978.18 <sup>p</sup>		



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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

g/100g = Grams per 100 Grams

µg/g = Microgram per gram

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

mg/4g = Milligram per 4g

% = Percentage of sample

Aw = Water Activity

% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner  
General Manager



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Cannabis Multi-Residue Profile, Limits of Quantitation

Compound	LOQ (mg/kg)	Compound	LOQ (mg/kg)	Compound	LOQ (mg/kg)
Abamectin	0.100	Clethodim	0.050	Endrin	0.100
Acephate	0.100	Clethodim Sulfone	0.050	EPN	0.050
Acequinocyl	0.100	Clethodim Sulfoxide	0.050	EPTC	0.100
Acetamiprid	0.020	Clofentezine	0.020	Esfenvalerate/Fenvalerate	0.200
Acetochlor	0.100	Clomazone	0.020	Etaconazole	0.100
Acrinathrin	0.100	Clothianidin	0.200	Ethalfuralin	0.100
Alachlor	0.100	Coumaphos	0.050	Ethiofencarb	0.050
Aldicarb	0.100	Crotoxyphos	0.020	Ethion	0.200
Aldicarb sulfoxide	0.100	Cyanazine	0.020	Ethirimol	0.100
Aldoxycarb (Aldicarb-sulfone)	0.100	Cyanofenphos	0.020	Ethofumesate	0.050
Aldrin	0.100	Cyantranilprole	0.050	Ethoprophos	0.020
Ametocrtadin	0.020	Cyazofamid	0.020	Etofenprox	0.020
Ametryn	0.500	Cycloate	0.100	Etozazole	0.020
Aspon	0.100	Cyfluthrin	0.200	Etridiazole	0.100
Asulam	0.100	Cyhalothrin, lambda	0.200	Etrimfos	0.020
Atrazine	0.100	Cymoxanil	0.050	Famoxadone	0.200
Atrazine-desethyl	0.100	Cypermethrin	0.200	Famphur	0.100
Azinphos-ethyl	0.020	Cyprodinil	0.100	Fenamidone	0.020
Azinphos-methyl	0.020	Dacthal	0.100	Fenamiphos	0.020
Azoxystrobin	0.020	Daminozide	0.100	Fenamiphos sulfone	0.020
Benalaxyl	0.020	DCPMU	0.050	Fenamiphos sulfoxide	0.020
Bendiocarb	0.020	DDD, o,p'-	0.100	Fenazaquin	0.100
Benfluralin	0.100	DDD, p,p'-	0.100	Fenbuconazole	0.100
Benoxacor	0.050	DDE, o,p'-	0.100	Fenchlorphos	0.100
Bensulide	0.050	DDE, p,p'-	0.100	Fenchlorphos-oxon	0.100
BHC alpha isomer	0.100	DDT, o,p'-	0.100	Fenhexamid	0.100
BHC beta isomer	0.100	DDT, p,p'-	0.100	Fenitrothion	0.100
BHC delta isomer	0.500	DEF (Tribufos)	0.100	Fenobucarb	0.050
Bifenazate	0.020	Deltamethrin	0.100	Fenoxy carb	0.020
Bifenthrin	0.020	Desmedipham	0.100	Fenpropathrin	0.050
Boscalid	0.020	Diallate	0.100	Fenpyroximate	0.020
Bromophos-ethyl	0.100	Diazinon	0.020	Fenson	0.100
Bromophos-methyl	0.200	Diazoxon	0.100	Fensulfthion	0.020
Bromopropylate	0.100	Dichlobenil	0.100	Fensulfthion oxon	0.020
Bromuconazole	0.100	Dichlofluanid	0.100	Fensulfthion sulfone	0.100
Bupirimate	0.020	Dichlorvos	0.100	Fensulfthion-oxon-sulfone	0.020
Buprofezin	0.050	Diclobutrazol	0.050	Fenthion	0.050
Butachlor	0.500	Dicofol	0.100	Fenthion oxon	0.020
Butralin	0.200	Dicrotophos	0.050	Fenthion oxon sulfone	0.100
Butylate	0.100	Dieldrin	0.100	Fenthion sulfone	0.050
Cadusafos	0.020	Diethofencarb	0.020	Fenuron	0.020
Captan	1.000	Diethyltoluamide (DEET)	0.050	Fipronil	0.100
Carbaryl	0.050	Difenoconazole	0.100	Flonicamid	0.100
Carbendazim	0.100	Dimethenamid	0.050	Fluchloralin	0.100
Carbofuran	0.020	Dimethoate	0.050	Flucythrinate	0.100
Carbophenothion	0.200	Dimethomorph	0.050	Fludioxonil	0.200
Carboxin	0.020	Diniconazole	0.200	Flufenacet	0.020
Carfentrazone-ethyl	0.100	Dinotefuran	0.200	Flumioxazin	0.100
Chlorantranilprole	0.020	Dioxathion	0.100	Fluometuron	0.020
Chlordane, cis-	0.200	Diphenamid	0.020	Fluopicolide	0.050
Chlordane, trans-	0.200	Diphenylamine	0.100	Fluopyram	0.020
Chlorfenapyr	0.500	Disulfoton	0.100	Fluoxastrobin	0.050
Chlorfenson	0.200	Disulfoton sulfone	0.100	Flupyradifurone	0.020
Chlorfenvinphos	0.050	Disulfoton sulfoxide	0.100	Fluridone	0.100
Chlorobenzilate	0.100	Diuron	0.050	Flusilazole	0.020
Chloroneb	0.200	Edifenphos	0.050	Flutolanil	0.020
Chlorpyrifos	0.050	Endosulfan alpha	0.200	Flutriafol	0.020
Chlorpyrifos-methyl	0.200	Endosulfan beta	0.200	Fluxalinat, tau-	0.100
CIPC	1.000	Endosulfan sulfate	0.100	Fluxapyroxad	0.020



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Compound	LOQ (mg/kg)	Compound	LOQ (mg/kg)	Compound	LOQ (mg/kg)
Fomesafen	0.100	Mexacarbate	0.020	Propamocarb	0.050
Fonofos	0.100	MGK 264	0.020	Propanil	0.050
Forchlorfenuron	0.050	Mirex	0.100	Propargite	0.050
Formetanate	0.050	Molinate	0.050	Propazine	0.020
Furathiocarb	0.020	Monocrotophos	0.100	Propetamphos	0.050
Heptachlor	0.100	Monolinuron	0.020	Propham	0.050
Heptachlor epoxide	0.100	Myclobutanil	0.050	Propiconazole	0.050
Heptenophos	0.100	Naled	0.100	Propoxur	0.050
Hexachlorobenzene	0.100	Napropamide	0.050	Propoxycarbazone Na	0.050
Hexaconazole	0.100	Neburon	0.020	Propyzamide	0.050
Hexazinone	0.100	Nitrapyrin	0.100	Prothiofos	0.100
Hexythiazox	0.020	Norflurazon	0.050	Pyraclostrobin	0.020
Imazalil	0.100	Omethoate	0.100	Pyrazophos	0.050
Imidacloprid	0.100	O-Phenylphenol	0.100	Pyrethrins	0.050
Indaziflam	0.020	Oxadixyl	0.100	Pyridaben	0.020
Indoxacarb	0.020	Oxamyl	0.100	Pyridafol	0.100
Iprobenfos	0.100	Oxamyl-oxime	0.100	Pyridate	0.020
Iprodione	0.100	Oxychlorthane	0.100	Pyrimethanil	0.050
Isobenzan	0.100	Oxydemeton-Methyl	0.100	Pyriproxifen	0.020
Isocarbophos	0.500	Oxythioquinox	0.200	Pyroxasulfone	0.020
Isodrin	0.100	Paclobutrazol	0.050	Pyroxulam	0.020
Isofenphos	0.050	Paraoxon-ethyl	0.020	Quinalphos	0.050
Isofenphos-methyl	0.020	Paraoxon methyl	0.100	Quinoxyfen	0.050
Isofenphos oxon	0.050	Parathion ethyl	0.100	Quintozene (PCNB)	0.200
Isoprocarb	0.020	Parathion methyl	0.200	Resmethrin	0.050
Isopropalin	0.200	Penconazole	0.050	Rotenone	0.050
Isoprothiolane	0.050	Pendimethalin	0.050	S421	0.100
Isoproturon	0.050	Penflufen	0.020	Simazine	0.100
Isoxaben	0.050	Pentachloroaniline	0.100	Simetryn	0.200
Isoxaflutole	0.050	Pentachloroanisole	0.100	Spinetoram	0.020
Kresoxim-methyl	0.050	Pentachlorobenzene (PCB)	0.100	Spinosad	0.050
Lactofen	0.500	Pentachlorothioanisole (PCTA)	0.100	Spirodiclofen	0.100
Lenacil	0.100	Penthiopyrad	0.020	Spiromesifen	0.050
Lindane (gamma BHC)	0.100	Permethrin	0.050	Spirotetramat	0.050
Linuron	0.020	Perthane	0.100	Spiroxamine	0.020
Malaaxon	0.050	Phenmedipham	0.050	Sulfotep	0.050
Malathion	0.050	Phenthoate	0.050	Sulfoxaflor	0.050
Mandipropamid	0.020	Phorate	0.050	Sulprofos	0.020
Mecarbam	0.020	Phorate Sulfone	0.050	Tebuconazole	0.100
Mepanipyrim	0.050	Phorate Sulfoxide	0.050	Tebufenozide	0.020
Merphos	0.500	Phosalone	0.050	Tebuthiuron	0.020
Metalaxyl	0.050	Phosmet	0.100	Tecnazene	0.100
Metaldehyde	0.050	Phosphamidon	0.050	Tefluthrin	0.100
Metconazole	0.100	Phoxim	0.050	Terbufos	0.020
Methacrifos	0.100	Pinoxaden	0.020	Terbufos sulfone	0.050
Methamidophos	0.050	Piperonyl butoxide	0.050	Terbufos sulfoxide	0.050
Methidathion	0.050	Pirimicarb	0.020	Terbutylazine	0.020
Methiocarb	0.050	Pirimiphos-methyl	0.050	Terbutryn	0.020
Methiocarb sulfone	0.100	Pirimiphos-ethyl	0.020	Tetrachlorvinphos	0.050
Methiocarb sulfoxide	0.100	Prallethrin	0.100	Tetraconazole	0.050
Methomyl	0.100	Prochloraz	0.020	Tetradifon	0.200
Methoxychlor	0.100	Procymidone	0.100	Tetramethrin	0.050
Methoxyfenozide	0.020	Profenofos	0.100	Tetrasul	0.100
Metobromuron	0.050	Profluralin	0.100	Thiabendazole	0.100
Metolachlor	0.100	Promecarb	0.050	Thiabendazole, 5-hydroxy	0.100
Metolcarb	0.050	Prometon	0.100	Thiacloprid	0.050
Metrafenone	0.050	Prometryn	0.020	Thiamethoxam	0.100
Metribuzin	0.100	Propachlor	0.020	Thiobencarb	0.050
Mevinphos	0.100			Thiodicarb	0.050
				Thiophanate-methyl	0.050



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**Report Number:** 22-015839/D002.R000  
**Report Date:** 01/19/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 12/28/22 12:22



Cannabis Multi-Residue Profile, Limits of Quantitation

Compound	LOQ (mg/kg)	Compound	LOQ (mg/kg)	Compound	LOQ (mg/kg)
Tolclofos-methyl	0.100	Triazophos	0.020	Trifloxystrobin	0.020
Triforin	0.100	Tolyfluanid	0.050	Triticonazole	0.050
Tralkoxydim	0.100	Tridiphane	0.500	Vinclozolin	0.100
Triadimefon	0.050	Triflumizole	0.020	Zoxamide	0.020
Triallate	0.100	Trifluralin	0.100		

LOQ = Limit of Quantitation, mg/kg

Factors affecting the LOQ include instrumentation sensitivity for a particular analyte, sample size, moisture content (percent solids) of the sample, effectiveness of the cleanup on the sample extract, and especially the type of sample matrix.





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**Received:** 12/28/22 12:22



**Hemp & Cannabis: Usable / Extract / Finis**

**Chain of Custody Record**  
 ORELAP ID: OR100028 ANAB ISO 17025 ID: AT-1



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

Company: Northwest Natural Goods Contact: Annie Nair Address: 11791 SE HWY 212 City: Clackamas State: OR Zip Code: 97015 <input checked="" type="checkbox"/> Email Results: annienair@nwnaturalgoods.com <input type="checkbox"/> Ph: ( ) - Name: _____ Email: _____ Address: _____ City: _____ State: _____ Zip: _____ Ph: ( ) - _____			<b>Analysis Request</b> Pesticides - OR 59 Compounds Pesticide Multi-Residue - 379 compounds Potency Residual Solvents Water Activity Moisture Micro: Yeast and Mold Micro: E.Coli and Total Coliform Heavy Metals Mycotoxins										Sample ID: _____ Custom Reporting: Source Material: <input type="checkbox"/> - Ind. Hemp product   <input type="checkbox"/> - Rec. Cannabis Reporting Type: <input 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: Turnaround time (TAT - Business Days): <input checked="" type="checkbox"/> - 5BD   <input type="checkbox"/> - 3BD*   <input type="checkbox"/> - 2BD* <small>*Check for availability</small>		
Lab ID	Client Sample Identification	Sample date											Material Type †	Weight (Units)	Comments/Metric ID
	HEMP - EB 0058	12/28/22	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		80g	
Signature - Relinquished By:			Date	Time	Signature - Received By:			Date	Time	Lab Use Only:					
Annie Nair			12/28/22	10:34	MNA			12/28	10:34	<input type="checkbox"/> Shipped Via: _____ or <input type="checkbox"/> Client drop off Evidence of cooling: <input type="checkbox"/> Yes   <input type="checkbox"/> No - Temp (°C): 179 Sample in good condition: <input 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:					
MNA			12/28	12:20	RBS			12/28	12:22						

† - 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  
 Page \_\_\_\_\_ of \_\_\_\_\_  
 www.columbialaboratories.com



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**Report Number:** 22-015839/D002.R000  
**Report Date:** 01/19/2023  
**ORELAP#:** OR100028  
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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: 2210991

Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes
CBDVA	2	0.0344	0.034	%	102	80.0	- 120	Acceptable	
CBDV	2	0.0371	0.037	%	101	80.0	- 120	Acceptable	
CBE	2	0.0359	0.035	%	101	80.0	- 120	Acceptable	
CBDA	1	0.0337	0.032	%	106	90.0	- 110	Acceptable	
CBGA	1	0.0337	0.032	%	105	80.0	- 120	Acceptable	
CBG	1	0.0335	0.032	%	105	80.0	- 120	Acceptable	
CBD	1	0.0335	0.032	%	105	90.0	- 110	Acceptable	
THCV	2	0.0362	0.035	%	103	80.0	- 120	Acceptable	
d8THCV	2	0.0354	0.036	%	99.4	80.0	- 120	Acceptable	
THCVA	2	0.0335	0.033	%	102	80.0	- 120	Acceptable	
CBN	1	0.0343	0.033	%	104	80.0	- 120	Acceptable	
exo-THC	2	0.0344	0.034	%	101	80.0	- 120	Acceptable	
d9THC	1	0.0358	0.034	%	105	90.0	- 110	Acceptable	
d8THC	1	0.0348	0.033	%	104	90.0	- 110	Acceptable	
CBL	2	0.0339	0.033	%	102	80.0	- 120	Acceptable	
d10THC	1	NA	0.031	%	NA	80.0	- 120	Acceptable	Q6
CBG	2	0.0361	0.036	%	99.3	80.0	- 120	Acceptable	
THCA	1	0.0346	0.032	%	108	90.0	- 110	Acceptable	
CBCA	2	0.0349	0.034	%	102	80.0	- 120	Acceptable	
CBLA	2	0.0353	0.035	%	101	80.0	- 120	Acceptable	
CBT	2	0.0354	0.036	%	97.4	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	
d10THC	<LOQ	0.003	%	< 0.003	Acceptable	
CBG	<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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**Report Number:** 22-015839/D002.R000  
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**Purchase Order:**  
**Received:** 12/28/22 12:22

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

Laboratory Quality Control Results

J AOAC 2015 V98-6		Batch ID: 2210991						
Sample Duplicate		Sample ID: 22-015839-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBD	0.611	0.604	0.003	%	1.21	< 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	0.128	0.126	0.003	%	1.29	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d9THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d10THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBC	0.00456	0.00454	0.003	%	0.430	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBT	0.00348	0.00339	0.003	%	2.59	< 20	Acceptable	

**Abbreviations**

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

**Units of Measure:**



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**Report Number:** 22-015839/D002.R000  
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Revision: 3 Document ID: 3120  
 Legacy ID: CFL-C21 Worksheet Validated 10/30/2020

Laboratory Pesticide Quality Control Results

AOAC2007.1 & EN 15662		Units: mg/Kg			Batch ID 2300068			
Method Blank	Laboratory Control Sample							
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spk	LCS % Re	Limits	Notes
Abamectin	0.000	< 0.250		1.038	1.000	103.8	50.0	150
Acephate	0.000	< 0.200		0.780	0.800	97.5	60.0	120
Acetaminocyl	0.000	< 1.000		3.748	4.000	93.7	40.0	160
Acetamiprid	0.000	< 0.100		0.392	0.400	98.0	60.0	120
Aldicarb	0.000	< 0.200		0.774	0.800	96.8	60.0	120
Azoxystrobin	0.000	< 0.100		0.401	0.400	100.2	60.0	120
Bifenazate	0.000	< 0.100		0.406	0.400	101.4	60.0	120
Bifenthrin	0.000	< 0.100		0.384	0.400	96.1	50.0	150
Boscalid	0.000	< 0.200		0.781	0.800	97.7	60.0	120
Carbaryl	0.000	< 0.100		0.392	0.400	98.0	60.0	120
Carbofuran	0.000	< 0.100		0.402	0.400	100.5	60.0	120
Chlorantraniliprole	0.000	< 0.100		0.382	0.400	95.6	60.0	120
Chlorfenapyr	0.000	< 0.500		2.093	2.000	104.7	60.0	120
Chlorpyrifos	0.000	< 0.100		0.371	0.400	92.7	60.0	120
Clofentazine	0.000	< 0.100		0.342	0.400	85.4	60.0	120
Cyfluthrin	0.000	< 0.500		2.000	2.000	100.0	50.0	150
Cypermethrin	0.000	< 0.500		1.906	2.000	95.3	50.0	150
Daminozide	0.000	< 0.500		0.678	2.000	33.9	60.0	120
Diazinon	0.000	< 0.100		0.392	0.400	98.0	60.0	120
Dichlorvos	0.000	< 0.500		1.814	2.000	90.7	60.0	120
Dimethoate	0.000	< 0.100		0.391	0.400	97.7	60.0	120
Ethoprophos	0.000	< 0.100		0.374	0.400	93.6	60.0	120
Etofenprox	0.000	< 0.200		0.775	0.800	96.9	50.0	150
Etoxazole	0.000	< 0.100		0.381	0.400	95.3	60.0	120
Fenoxycarb	0.000	< 0.100		0.394	0.400	98.5	60.0	120
Fenpyroximate	0.000	< 0.200		0.767	0.800	95.9	60.0	120
Fipronil	0.000	< 0.200		0.767	0.800	95.8	60.0	120
Fonicamid	0.000	< 0.250		0.988	1.000	98.8	60.0	120
Fludioxonil	0.000	< 0.200		0.788	0.800	98.5	50.0	150
Hexythiazox	0.000	< 0.250		0.961	1.000	96.1	60.0	120
Imazalil	0.000	< 0.100		0.388	0.400	97.0	60.0	120
Imidacloprid	0.000	< 0.200		0.776	0.800	97.0	60.0	120
Kresoxim-methyl	0.000	< 0.200		0.803	0.800	100.4	60.0	120
Malathion	0.000	< 0.100		0.389	0.400	97.2	60.0	120
Metlaxyl	0.000	< 0.100		0.398	0.400	99.6	60.0	120
Methiocarb	0.000	< 0.100		0.393	0.400	98.1	60.0	120
Methomyl	0.000	< 0.200		0.821	0.800	102.7	60.0	120
MGK-264	0.000	< 0.100		0.387	0.400	96.8	50.0	150
Myclobutanil	0.000	< 0.100		0.395	0.400	98.8	60.0	120
Naled	0.000	< 0.250		0.952	1.000	95.2	50.0	150
Oxamyl	0.000	< 0.500		1.879	2.000	93.9	60.0	120
Pacllobutrazole	0.000	< 0.200		0.797	0.800	99.6	60.0	120
Parathion-Methyl	0.000	< 0.100		0.387	0.400	96.7	50.0	150
Permethrin	0.000	< 0.100		0.383	0.400	95.8	50.0	150
Phosmet	0.000	< 0.100		0.404	0.400	100.9	50.0	150
Piperonyl butoxide	0.000	< 0.500		1.953	2.000	97.7	60.0	120
Prallethrin	0.000	< 0.100		0.404	0.400	100.9	60.0	120
Propiconazole	0.000	< 0.200		0.783	0.800	97.9	60.0	120
Propoxur	0.000	< 0.100		0.394	0.400	98.4	60.0	120
Pyrethrin (Summe)	0.000	< 0.100		0.487	0.488	99.9	60.0	120
Pyridaben	0.000	< 0.100		0.394	0.400	98.5	50.0	150
Spinosad	0.000	< 0.100		0.383	0.388	98.7	50.0	150
Spiromesifen	0.000	< 0.100		0.398	0.400	99.6	60.0	120
Spirotetramat	0.000	< 0.100		0.388	0.400	96.9	60.0	120
Spiroxamine	0.000	< 0.200		0.792	0.800	99.0	60.0	120
Tebuconazole	0.000	< 0.200		0.797	0.800	99.7	60.0	120
Thiacloprid	0.000	< 0.100		0.397	0.400	99.1	60.0	120
Thiamethoxam	0.000	< 0.100		0.399	0.400	99.8	60.0	120
Trifloxystrobin	0.000	< 0.100		0.385	0.400	96.3	60.0	120

Q6



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Portland, OR 97230  
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Report Number: 22-015839/D002.R000  
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Received: 12/28/22 12:22

Revision: 3 Document ID: 3120  
Legacy ID: CFL-C21 Worksheet Validated 10/30/2020

Laboratory Pesticide Quality Control Results

AOAC2007.1 & EN 15662		Units: mg/Kg					Batch ID 2300068			
Matrix Spke/Matrix Spke Duplicate Recoveries	Result	MS Res	MSD Res	Spike	RFD%	Limit	MS% Re	MSD% Re	Limits	Notes
Abamectin	0.000	1.170	1.180	1.000	0.8%	< 30	117.0%	118.0%	50 - 150	
Acephate	0.000	0.626	0.640	0.800	2.3%	< 30	78.2%	80.0%	50 - 150	
Acetaminocyl	0.000	3.403	3.231	4.000	5.2%	< 30	85.1%	80.8%	50 - 150	
Acetamidprid	0.000	0.380	0.379	0.400	0.4%	< 30	95.0%	94.7%	50 - 150	
Aldicarb	0.000	0.755	0.753	0.800	0.3%	< 30	94.4%	94.1%	50 - 150	
Azoxystrobin	0.003	0.387	0.369	0.400	4.9%	< 30	96.1%	91.5%	50 - 150	
Bifenazate	0.000	0.384	0.378	0.400	1.5%	< 30	95.9%	94.6%	50 - 150	
Bifenthrin	0.000	0.280	0.281	0.400	0.4%	< 30	69.9%	70.2%	50 - 150	
Boscalid	0.000	0.726	0.697	0.800	4.2%	< 30	90.8%	87.1%	50 - 150	
Carbaryl	0.000	0.363	0.362	0.400	0.2%	< 30	90.8%	90.6%	50 - 150	
Carbofuran	0.000	0.370	0.369	0.400	0.2%	< 30	92.5%	92.4%	50 - 150	
Chlorantraniliprole	0.000	0.371	0.364	0.400	1.8%	< 30	92.7%	91.0%	50 - 150	
Chlorfenapyr	0.000	1.862	1.827	2.000	1.9%	< 30	93.1%	91.4%	50 - 150	
Chlorpyrifos	0.000	0.389	0.377	0.400	3.3%	< 30	97.3%	94.1%	50 - 150	
Clofentezine	0.000	0.108	0.110	0.400	1.2%	< 30	27.1%	27.4%	50 - 150	Q
Cyfluthrin	0.000	1.956	1.980	2.000	1.2%	< 30	97.8%	99.0%	30 - 150	
Cypermethrin	0.000	2.267	2.233	2.000	1.5%	< 30	113.3%	111.6%	50 - 150	
Daminozide	0.000	0.448	0.455	2.000	1.5%	< 30	22.4%	22.7%	30 - 150	Q
Diazinon	0.000	0.353	0.355	0.400	0.5%	< 30	88.3%	88.7%	50 - 150	
Dichlorvos	0.000	1.729	1.757	2.000	1.6%	< 30	86.4%	87.9%	50 - 150	
Dimethoate	0.000	0.373	0.369	0.400	0.9%	< 30	93.2%	92.3%	50 - 150	
Ethoprophos	0.000	0.369	0.372	0.400	0.8%	< 30	92.2%	93.0%	50 - 150	
Etofenprox	0.000	0.625	0.621	0.800	0.7%	< 30	78.2%	77.6%	50 - 150	
Etoxazole	0.000	0.355	0.360	0.400	1.4%	< 30	88.7%	90.0%	50 - 150	
Fenoxycarb	0.000	0.352	0.353	0.400	0.4%	< 30	88.0%	88.3%	50 - 150	
Fenpyroximate	0.000	0.719	0.714	0.800	0.8%	< 30	89.9%	89.2%	50 - 150	
Fipronil	0.000	0.477	0.467	0.800	2.1%	< 30	59.6%	58.4%	50 - 150	
Fonicamid	0.000	0.933	0.900	1.000	3.6%	< 30	93.3%	90.0%	50 - 150	
Fludioxonil	0.000	0.793	0.817	0.800	3.1%	< 30	99.1%	102.2%	50 - 150	
Hexythiazox	0.000	0.906	0.886	1.000	2.2%	< 30	90.6%	88.6%	50 - 150	
Imazalil	0.000	0.372	0.374	0.400	0.7%	< 30	92.9%	93.5%	50 - 150	
Imidacloprid	0.000	0.875	0.867	0.800	1.0%	< 30	109.4%	108.3%	50 - 150	
Kresoxim-methyl	0.000	0.685	0.706	0.800	3.1%	< 30	85.6%	88.3%	50 - 150	
Malathion	0.000	0.366	0.365	0.400	0.2%	< 30	91.5%	91.2%	50 - 150	
Metaxalyl	0.000	0.375	0.374	0.400	0.1%	< 30	93.7%	93.6%	50 - 150	
Methiocarb	0.000	0.372	0.364	0.400	2.1%	< 30	92.9%	91.0%	50 - 150	
Methomyl	0.000	0.693	0.753	0.800	8.3%	< 30	86.6%	94.1%	50 - 150	
MGK-264	0.004	0.360	0.358	0.400	0.5%	< 30	89.0%	88.6%	50 - 150	
Myclobutanil	0.000	0.383	0.373	0.400	2.7%	< 30	95.8%	93.2%	50 - 150	
Naled	0.000	0.885	0.891	1.000	0.6%	< 30	88.5%	89.1%	50 - 150	
Oxamyl	0.000	1.848	1.831	2.000	0.9%	< 30	92.4%	91.6%	50 - 150	
Paclotrazole	0.000	0.714	0.720	0.800	0.9%	< 30	89.2%	90.0%	50 - 150	
Parathion-Methyl	0.000	0.330	0.341	0.400	3.2%	< 30	82.6%	85.2%	30 - 150	
Permethrin	0.000	0.398	0.396	0.400	0.4%	< 30	99.5%	99.1%	50 - 150	
Phosmet	0.000	0.364	0.363	0.400	0.4%	< 30	91.0%	90.7%	50 - 150	
Piperonyl butoxide	0.169	1.959	1.919	2.000	2.2%	< 30	89.5%	87.5%	50 - 150	
Prallethrin	0.013	0.404	0.401	0.400	0.8%	< 30	97.9%	97.2%	50 - 150	
Propiconazole	0.000	0.692	0.691	0.800	0.2%	< 30	86.5%	86.3%	50 - 150	
Propoxur	0.000	0.370	0.366	0.400	1.0%	< 30	92.5%	91.6%	50 - 150	
Pyrethrin (Summe)	0.000	0.462	0.461	0.488	0.1%	< 30	94.6%	94.5%	50 - 150	
Pyridaben	0.000	0.315	0.308	0.400	2.4%	< 30	78.8%	77.0%	50 - 150	
Spinosad	0.000	0.350	0.350	0.388	0.0%	< 30	90.2%	90.2%	50 - 150	
Spiromesifen	0.000	0.352	0.356	0.400	1.1%	< 30	88.1%	89.1%	50 - 150	
Spirotetramat	0.000	0.407	0.398	0.400	2.3%	< 30	101.7%	99.4%	50 - 150	
Spiroxamine	0.000	0.768	0.761	0.800	1.0%	< 30	96.0%	95.1%	50 - 150	
Tebuconazole	0.000	0.747	0.743	0.800	0.6%	< 30	93.4%	92.9%	50 - 150	
Thiacloprid	0.000	0.381	0.382	0.400	0.4%	< 30	95.1%	95.5%	50 - 150	
Thiamethoxam	0.000	0.394	0.386	0.400	2.1%	< 30	98.6%	96.6%	50 - 150	
Trifloxystrobin	0.000	0.361	0.350	0.400	2.9%	< 30	90.1%	87.5%	50 - 150	



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Report Number: 22-015839/D002.R000  
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 Received: 12/28/22 12:22

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

Laboratory Quality Control Results

Residual Solvents				Batch ID: 2300376					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		631	572	µg/g	110.3	60 - 120	
Isobutane	ND	< 200		755	731	µg/g	103.3	60 - 120	
Butane	ND	< 200		755	731	µg/g	103.3	60 - 120	
2,2-Dimethylpropane	ND	< 200		990	936	µg/g	105.8	60 - 120	
Methanol	ND	< 200		1500	1620	µg/g	92.6	60 - 120	
Ethylene Oxide	ND	< 30		59.2	56.2	µg/g	105.3	60 - 120	
2-Methylbutane	ND	< 200		1520	1610	µg/g	94.4	60 - 120	
Pentane	ND	< 200		1510	1600	µg/g	94.4	60 - 120	
Ethanol	ND	< 200		1500	1610	µg/g	93.2	70 - 130	
Ethyl Ether	ND	< 200		1500	1630	µg/g	92.0	60 - 120	
2,2-Dimethylbutane	ND	< 30		157	171	µg/g	91.8	60 - 120	
Acetone	ND	< 200		1550	1630	µg/g	95.1	60 - 120	
2-Propanol	ND	< 200		1540	1620	µg/g	95.1	60 - 120	
Ethyl Formate	ND	< 500		1320	1670	µg/g	79.0	70 - 130	
Acetonitrile	ND	< 100		457	498	µg/g	91.8	60 - 120	
Methyl Acetate	ND	< 500		1370	1730	µg/g	79.2	70 - 130	
2,3-Dimethylbutane	ND	< 30		165	171	µg/g	96.5	60 - 120	
Dichloromethane	ND	< 60		458	483	µg/g	94.8	60 - 120	
2-Methylpentane	ND	< 30		146	168	µg/g	86.9	60 - 120	
MTBE	ND	< 500		1320	1650	µg/g	80.0	70 - 130	
3-Methylpentane	ND	< 30		143	167	µg/g	85.6	60 - 120	
Hexane	ND	< 30		206	182	µg/g	113.2	60 - 120	
1-Propanol	ND	< 500		1270	1620	µg/g	78.4	70 - 130	
Methylethylketone	ND	< 500		1270	1620	µg/g	78.4	70 - 130	
Ethyl acetate	ND	< 200		1510	1610	µg/g	93.8	60 - 120	
2-Butanol	ND	< 200		1480	1600	µg/g	92.5	60 - 120	
Tetrahydrofuran	ND	< 100		495	483	µg/g	102.5	60 - 120	
Cyclohexane	ND	< 200		1480	1610	µg/g	91.9	60 - 120	
2-methyl-1-propanol	ND	< 500		1210	1620	µg/g	74.7	70 - 130	
Benzene	ND	< 1		4.93	5.02	µg/g	98.2	60 - 120	
Isopropyl Acetate	ND	< 200		1500	1620	µg/g	92.6	60 - 120	
Heptane	ND	< 200		1440	1610	µg/g	89.4	60 - 120	
1-Butanol	ND	< 500		1200	1630	µg/g	73.6	70 - 130	
Propyl Acetate	ND	< 500		1250	1610	µg/g	77.6	70 - 130	
1,4-Dioxane	ND	< 100		434	491	µg/g	88.4	60 - 120	
2-Ethoxyethanol	ND	< 30		161	181	µg/g	89.0	60 - 120	
Methylisobutylketone	ND	< 500		1160	1620	µg/g	71.6	70 - 130	
3-Methyl-1-butanol	ND	< 500		1210	1630	µg/g	74.2	70 - 130	
Ethylene Glycol	ND	< 200		331	484	µg/g	68.4	60 - 120	
Toluene	ND	< 100		415	485	µg/g	85.6	60 - 120	
Isobutyl Acetate	ND	< 500		1240	1630	µg/g	76.1	70 - 130	
1-Pentanol	ND	< 500		1220	1620	µg/g	75.3	70 - 130	
Butyl Acetate	ND	< 500		1190	1620	µg/g	73.5	70 - 130	
Ethylbenzene	ND	< 200		802	969	µg/g	82.8	60 - 120	
m,p-Xylene	ND	< 200		785	994	µg/g	79.0	60 - 120	
o-Xylene	ND	< 200		782	967	µg/g	80.9	60 - 120	
Cumene	ND	< 30		134	171	µg/g	78.4	60 - 120	
Anisole	ND	< 500		1100	1630	µg/g	67.5	70 - 130	Q6
DMSO	ND	< 500		1270	1680	µg/g	75.6	70 - 130	
1,2-dimethoxyethane	ND	< 50		131	169	µg/g	77.5	70 - 130	
Triethylamine	ND	< 500		1230	1630	µg/g	75.5	70 - 130	
N,N-dimethylformamide	ND	< 150		342	482	µg/g	71.0	70 - 130	
N,N-dimethylacetamide	ND	< 150		357	510	µg/g	70.0	70 - 130	
Pyridine	ND	< 50		146	203	µg/g	71.9	70 - 130	
Sulfolane	ND	< 50		106	172	µg/g	61.6	70 - 130	Q6
1,2-Dichloroethane	ND	< 1		0.807	1	µg/g	80.7	70 - 130	
Chloroform	ND	< 1		0.922	1	µg/g	92.2	70 - 130	
Trichloroethylene	ND	< 1		0.753	1	µg/g	75.3	70 - 130	
1,1-Dichloroethane	ND	< 1		0.759	1	µg/g	75.9	70 - 130	



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**Report Number:** 22-015839/D002.R000  
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Revision: 2 Document ID: 7087  
Legacy ID: CFL-E33Effective:

QC - Sample Duplicate Sample ID: 22-015747-0002

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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**Report Number:** 22-015839/D002.R000  
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**Report Number:** 22-015839/D002.R000  
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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.