



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



**Report Number:** 23-012619/D001.R000  
**Report Date:** 10/31/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 10/24/23 11:52

**Customer:** NW Natural Goods  
**Product identity:** HEMP - EB 0097  
**Client/Metric ID:** .  
**Laboratory ID:** 23-012619-0001

### Summary

**Potency:**

Analyte per 4g	Result	Limits	Units	Status	
CBC per 4g	0.222		mg/4g		CBD-Total per Serving Size 26.9 mg/4g
CBD per 4g	26.9		mg/4g		
CBDV per 4g	0.136		mg/4g		THC-Total per Serving Size <LOQ
CBG per 4g	0.736		mg/4g		(Reported in milligrams per serving)
CBN per 4g	5.32		mg/4g		

**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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**Customer:** NW Natural Goods

**Product identity:** HEMP - EB 0097

**Client/Metric ID:** .

**Sample Date:**

**Laboratory ID:** 23-012619-0001

**Evidence of Cooling:** No

**Temp:** 19.2

**Relinquished by:** client

**Serving Size #1:** 4 g

### Sample Results

Potency per 4g					
Method: J AOAC 2015 V98-6 (mod) <sup>b</sup>					
Units mg/se Batch: 2312193 Analyze: 10/25/23 11:09:00 P					
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 4g	0.222		mg/4g	0.126	
CBC-A per 4g	< LOQ		mg/4g	0.126	
CBC-Total per 4g	< LOQ		mg/4g	0.237	
CBD per 4g	26.9		mg/4g	0.126	
CBD-A per 4g	< LOQ		mg/4g	0.126	
CBD-Total per 4g	26.9		mg/4g	0.237	
CBDV per 4g	0.136		mg/4g	0.126	
CBDV-A per 4g	< LOQ		mg/4g	0.126	
CBDV-Total per 4g	< LOQ		mg/4g	0.236	
CBE per 4g	< LOQ		mg/4g	0.126	
CBG per 4g	0.736		mg/4g	0.126	
CBG-A per 4g	< LOQ		mg/4g	0.126	
CBG-Total per 4g	0.736		mg/4g	0.236	
CBL per 4g	< LOQ		mg/4g	0.126	
CBL-A per 4g	< LOQ		mg/4g	0.126	
CBL-Total per 4g	< LOQ		mg/4g	0.237	
CBN per 4g	5.32		mg/4g	0.126	
CBT per 4g	< LOQ		mg/4g	0.126	
Δ8-THCV per 4g	< LOQ		mg/4g	0.126	
Δ10-THC-9R per 4g	< LOQ		mg/4g	0.126	
Δ10-THC-9S per 4g	< LOQ		mg/4g	0.126	
Δ10-THC-Total per 4g	< LOQ		mg/4g	0.253	
Δ8-THC per 4g	< LOQ		mg/4g	0.126	
Δ9-THC per 4g	< LOQ		mg/4g	0.126	
delta-9-THCP per 4g	< LOQ		mg/4g	0.126	
exo-THC per 4g	< LOQ		mg/4g	0.126	
THC-A per 4g	< LOQ		mg/4g	0.126	
THC-Total per 4g	< LOQ		mg/4g	0.237	
THCV per 4g	< LOQ		mg/4g	0.126	
THCV-A per 4g	< LOQ		mg/4g	0.126	
THCV-Total per 4g	< LOQ		mg/4g	0.237	
Total Cannabinoids per 4g	33.3		mg/4g		



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**Microbiology**

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2312145	10/27/23 AOAC 991.14 (Petrifilm) <sup>P</sup>		
Total Coliforms	< LOQ		cfu/g	10	2312145	10/27/23 AOAC 991.14 (Petrifilm) <sup>P</sup>		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2312146	10/27/23 AOAC 2014.05 (RAPID) <sup>P</sup>		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2312146	10/27/23 AOAC 2014.05 (RAPID) <sup>P</sup>		

**Solvents** Method: Residual Solvents by GC/MS<sup>P</sup> Units µg/g Batch 2312362 Analyze 10/31/23 12:26 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	

**Pesticides** Method: AOAC 2007.01 & EN 15662 (mod)<sup>P</sup> Units mg/kg Batch 2312269 Analyze 10/27/23 12:59 PM

Analyte	Result	Limits	Status	Notes
Multi-Residue Pesticide Profile	< LOQ for all analytes			



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**Metals**

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Arsenic <sup>‡</sup>	< LOQ	0.200	mg/kg	0.0179	2312272	10/27/23 AOAC 2013.06 (mod.) <sup>‡</sup>	pass	
Cadmium <sup>‡</sup>	< LOQ	0.200	mg/kg	0.0179	2312272	10/27/23 AOAC 2013.06 (mod.) <sup>‡</sup>	pass	
Lead <sup>‡</sup>	< LOQ	0.500	mg/kg	0.0179	2312272	10/27/23 AOAC 2013.06 (mod.) <sup>‡</sup>	pass	
Mercury <sup>‡</sup>	< LOQ	0.100	mg/kg	0.00897	2312272	10/27/23 AOAC 2013.06 (mod.) <sup>‡</sup>	pass	

**Nutrition**

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Moisture (Loss on Drying)	18.2		g/100g	0.10	2312337	10/30/23 AOAC 925.10 (mod.) <sup>‡</sup>		
Water Activity	0.690		Aw	0.030	2312239	10/26/23 AOAC 978.18 <sup>‡</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	Fenoxycarb	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	Fensulfothion	0.020
Bromopropylate	0.100	Dichlobenil	0.100	Fensulfothion oxon	0.020
Bromuconazole	0.100	Dichlofluanid	0.100	Fensulfothion sulfone	0.100
Bupirimate	0.020	Dichlorvos	0.100	Fensulfothion-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	Fluxalinatate, tau-	0.100
CIPC	1.000	Endosulfan sulfate	0.100	Fluxapyroxad	0.020



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Cannabis Multi-Residue Profile, Limits of Quantitation

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

Laboratory Quality Control Results

J AOAC 2015 V98-6 Batch ID: 2312193

Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes
CBDVA	2	0.0331	0.0323	%	102	80.0	- 120	Acceptable	
CBDV	2	0.0341	0.0337	%	101	80.0	- 120	Acceptable	
CBE	2	0.0364	0.0358	%	102	80.0	- 120	Acceptable	
CBDA	1	0.0314	0.0322	%	97.3	90.0	- 110	Acceptable	
CBGA	1	0.0333	0.0329	%	101	80.0	- 120	Acceptable	
CBG	1	0.0370	0.0368	%	101	80.0	- 120	Acceptable	
CBD	1	0.0320	0.0313	%	102	90.0	- 110	Acceptable	
THCV	2	0.0345	0.0345	%	100.0	80.0	- 120	Acceptable	
d8THCV	2	0.0297	0.0283	%	105	80.0	- 120	Acceptable	
THCVA	2	0.0318	0.0312	%	102	80.0	- 120	Acceptable	
CBN	1	0.0331	0.0329	%	101	80.0	- 120	Acceptable	
exo-THC	2	0.0319	0.0315	%	101	80.0	- 120	Acceptable	
d9THC	1	0.0369	0.0365	%	101	90.0	- 110	Acceptable	
d8THC	1	0.0341	0.0340	%	100	90.0	- 110	Acceptable	
9S-d10THC	1	0.0336	0.0337	%	99.6	80.0	- 120	Acceptable	
CBL	2	0.0336	0.0332	%	101	80.0	- 120	Acceptable	
9R-d10THC	1	0.0336	0.0336	%	99.9	80.0	- 120	Acceptable	
CBC	2	0.0342	0.0342	%	100	80.0	- 120	Acceptable	
THCA	1	0.0332	0.0337	%	98.5	90.0	- 110	Acceptable	
CBCA	2	0.0350	0.0338	%	104	80.0	- 120	Acceptable	
CBLA	2	0.0342	0.0342	%	99.9	80.0	- 120	Acceptable	
d9THCP	2	0.0328	0.0334	%	98.4	80.0	- 120	Acceptable	
CBT	2	0.0337	0.0343	%	98.3	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



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



**Report Number:** 23-012619/D001.R000  
**Report Date:** 10/31/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 10/24/23 11:52

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

Laboratory Quality Control Results

J AOAC 2015 V98-6		Batch ID: 2312193						
Sample Duplicate		Sample ID: 23-012595-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
CBDV	0.00335	0.00332	0.00318	%	0.662	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
CBG	0.0186	0.0186	0.00318	%	0.303	< 20	Acceptable	
CBD	0.678	0.676	0.00318	%	0.268	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
CBN	0.133	0.132	0.00318	%	0.399	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
d9THC	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
CBC	0.00552	0.00549	0.00318	%	0.369	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00318	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.00318	%	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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Revision: 2 Document ID: 7087  
 Legacy ID: CFL-E33Effective:

Laboratory Quality Control Results

Residual Solvents				Batch ID: 2312362					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		550	584	µg/g	94.2	60 - 120	
Isobutane	ND	< 200		782	767	µg/g	102.0	60 - 120	
Butane	ND	< 200		779	782	µg/g	99.6	60 - 120	
2,2-Dimethylpropane	ND	< 200		1020	939	µg/g	108.6	60 - 120	
Methanol	ND	< 200		1560	1670	µg/g	93.4	60 - 120	
Ethylene Oxide	ND	< 30		61	57.1	µg/g	106.8	60 - 120	
2-Methylbutane	ND	< 200		1520	1680	µg/g	90.5	60 - 120	
Pentane	ND	< 200		1530	1670	µg/g	91.6	60 - 120	
Ethanol	ND	< 200		1630	1660	µg/g	98.2	70 - 130	
Ethyl Ether	ND	< 200		1570	1670	µg/g	94.0	60 - 120	
2,2-Dimethylbutane	ND	< 30		178	189	µg/g	94.2	60 - 120	
Acetone	ND	< 200		1610	1670	µg/g	96.4	60 - 120	
2-Propanol	ND	< 200		1620	1630	µg/g	99.4	60 - 120	
Ethyl Formate	ND	< 500		1460	1600	µg/g	91.3	70 - 130	
Acetonitrile	ND	< 100		437	492	µg/g	88.8	60 - 120	
Methyl Acetate	ND	< 500		1500	1600	µg/g	93.8	70 - 130	
2,3-Dimethylbutane	ND	< 30		177	180	µg/g	98.3	60 - 120	
Dichloromethane	ND	< 60		477	488	µg/g	97.7	60 - 120	
2-Methylpentane	ND	< 30		165	182	µg/g	90.7	60 - 120	
MTBE	ND	< 500		1570	1610	µg/g	97.5	70 - 130	
3-Methylpentane	ND	< 30		176	177	µg/g	99.4	60 - 120	
Hexane	ND	< 30		170	177	µg/g	96.0	60 - 120	
1-Propanol	ND	< 500		1550	1600	µg/g	96.9	70 - 130	
Methyl ethyl ketone	ND	< 500		1500	1610	µg/g	93.2	70 - 130	
Ethyl acetate	ND	< 200		1640	1630	µg/g	100.6	60 - 120	
2-Butanol	ND	< 200		1690	1630	µg/g	103.7	60 - 120	
Tetrahydrofuran	ND	< 100		501	488	µg/g	102.7	60 - 120	
Cyclohexane	ND	< 200		1590	1610	µg/g	98.8	60 - 120	
2-methyl-1-propanol	ND	< 500		1670	1610	µg/g	103.7	70 - 130	
Benzene	ND	< 1		5.14	4.79	µg/g	107.3	60 - 120	
Isopropyl Acetate	ND	< 200		1700	1650	µg/g	103.0	60 - 120	
Heptane	ND	< 200		1640	1630	µg/g	100.6	60 - 120	
1-Butanol	ND	< 500		1680	1600	µg/g	103.8	70 - 130	
Propyl Acetate	ND	< 500		1550	1600	µg/g	96.9	70 - 130	
1,4-Dioxane	ND	< 100		593	523	µg/g	113.4	60 - 120	
2-Ethoxyethanol	ND	< 30		184	179	µg/g	102.8	60 - 120	
Methylisobutylketone	ND	< 500		1570	1600	µg/g	98.1	70 - 130	
3-Methyl-1-butanol	ND	< 500		1550	1600	µg/g	96.9	70 - 130	
Ethylene Glycol	ND	< 200		485	508	µg/g	91.9	60 - 120	
Toluene	ND	< 100		533	496	µg/g	107.5	60 - 120	
Isobutyl Acetate	ND	< 500		1580	1610	µg/g	98.1	70 - 130	
1-Pentanol	ND	< 500		1580	1600	µg/g	98.8	70 - 130	
Butyl Acetate	ND	< 500		1590	1610	µg/g	98.8	70 - 130	
Ethylbenzene	ND	< 200		1050	978	µg/g	107.4	60 - 120	
m,p-Xylene	ND	< 200		1070	994	µg/g	107.6	60 - 120	
o-Xylene	ND	< 200		1100	982	µg/g	112.0	60 - 120	
Cumene	ND	< 30		193	171	µg/g	112.9	60 - 120	
Anisole	ND	< 500		1720	1600	µg/g	107.5	70 - 130	
DMSO	ND	< 500		1630	1620	µg/g	100.6	70 - 130	
1,2-dimethoxyethane	ND	< 50		166	186	µg/g	89.2	70 - 130	
Triethylamine	ND	< 500		1480	1600	µg/g	92.5	70 - 130	
N,N-dimethylformamide	ND	< 150		488	480	µg/g	101.7	70 - 130	
N,N-dimethylacetamide	ND	< 150		487	483	µg/g	100.8	70 - 130	
Pyridine	ND	< 50		156	168	µg/g	92.9	70 - 130	
Silfolane	ND	< 50		140	161	µg/g	87.0	70 - 130	
1,2-Dichloroethane	ND	< 1		1.01	1	µg/g	101.0	70 - 130	
Chloroform	ND	< 1		1	1	µg/g	100.0	70 - 130	
Trichloroethylene	ND	< 1		1.08	1	µg/g	108.0	70 - 130	
1,1-Dichloroethane	ND	< 1		0.997	1	µg/g	99.7	70 - 130	



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**Purchase Order:**  
**Received:** 10/24/23 11:52

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

QC- Sample Duplicate Sample ID: 23-012608-0001

Analyte	Result	Org. Result	LOQ Units	RPD	Limits	Accept/ Fail	Notes
Propane	ND	#N/A	200 µg/g	#N/A	< 20	#N/A	
Isobutane	ND	#N/A	200 µg/g	#N/A	< 20	#N/A	
Butane	ND	#N/A	200 µg/g	#N/A	< 20	#N/A	
2,2-Dimethylpropane	ND	#N/A	200 µg/g	#N/A	< 20	#N/A	
Methanol	ND	#N/A	200 µg/g	#N/A	< 20	#N/A	
Ethylene Oxide	ND	#N/A	30 µg/g	#N/A	< 20	#N/A	
2-Methylbutane	ND	#N/A	200 µg/g	#N/A	< 20	#N/A	
Pertane	ND	#N/A	200 µg/g	#N/A	< 20	#N/A	
Ethanol	496	#N/A	200 µg/g	#N/A	< 20	#N/A	
Ethyl Ether	ND	#N/A	200 µg/g	#N/A	< 20	#N/A	
2,2-Dimethylbutane	ND	#N/A	30 µg/g	#N/A	< 20	#N/A	
Acetone	ND	#N/A	200 µg/g	#N/A	< 20	#N/A	
2-Propanol	ND	#N/A	200 µg/g	#N/A	< 20	#N/A	
Ethyl Formate	ND	#N/A	500 µg/g	#N/A	< 20	#N/A	
Acetonitrile	ND	#N/A	100 µg/g	#N/A	< 20	#N/A	
Methyl Acetate	ND	#N/A	500 µg/g	#N/A	< 20	#N/A	
2,3-Dimethylbutane	ND	#N/A	30 µg/g	#N/A	< 20	#N/A	
Dichloromethane	ND	#N/A	60 µg/g	#N/A	< 20	#N/A	
2-Methylpentane	ND	#N/A	30 µg/g	#N/A	< 20	#N/A	
MTBE	ND	#N/A	500 µg/g	#N/A	< 20	#N/A	
3-Methylpentane	ND	#N/A	30 µg/g	#N/A	< 20	#N/A	
Hexane	ND	#N/A	30 µg/g	#N/A	< 20	#N/A	
1-Propanol	ND	#N/A	500 µg/g	#N/A	< 20	#N/A	
Methyl ethyl ketone	ND	#N/A	500 µg/g	#N/A	< 20	#N/A	
Ethyl acetate	ND	#N/A	200 µg/g	#N/A	< 20	#N/A	
2-Butanol	ND	#N/A	200 µg/g	#N/A	< 20	#N/A	
Tetrahydrofuran	ND	#N/A	100 µg/g	#N/A	< 20	#N/A	
Cyclohexane	ND	#N/A	200 µg/g	#N/A	< 20	#N/A	
2-methyl-1-propanol	ND	#N/A	500 µg/g	#N/A	< 20	#N/A	
Benzene	ND	#N/A	1 µg/g	#N/A	< 20	#N/A	
Isopropyl Acetate	ND	#N/A	200 µg/g	#N/A	< 20	#N/A	
Heptane	ND	#N/A	200 µg/g	#N/A	< 20	#N/A	
1-Butanol	ND	#N/A	500 µg/g	#N/A	< 20	#N/A	
Propyl Acetate	ND	#N/A	500 µg/g	#N/A	< 20	#N/A	
1,4-Dioxane	ND	#N/A	100 µg/g	#N/A	< 20	#N/A	
2-Ethoxyethanol	ND	#N/A	30 µg/g	#N/A	< 20	#N/A	
Methylisobutylketone	ND	#N/A	500 µg/g	#N/A	< 20	#N/A	
3-Methyl-1-butanol	ND	#N/A	500 µg/g	#N/A	< 20	#N/A	
Ethylene Glycol	ND	#N/A	200 µg/g	#N/A	< 20	#N/A	
Toluene	ND	#N/A	100 µg/g	#N/A	< 20	#N/A	
Isobutyl Acetate	ND	#N/A	500 µg/g	#N/A	< 20	#N/A	
1-Pentanol	ND	#N/A	500 µg/g	#N/A	< 20	#N/A	
Butyl Acetate	ND	#N/A	500 µg/g	#N/A	< 20	#N/A	
Ethylbenzene	ND	#N/A	200 µg/g	#N/A	< 20	#N/A	
m,p-Xylene	ND	#N/A	200 µg/g	#N/A	< 20	#N/A	
o-Xylene	ND	#N/A	200 µg/g	#N/A	< 20	#N/A	
Cumene	ND	#N/A	30 µg/g	#N/A	< 20	#N/A	
Anisole	ND	#N/A	500 µg/g	#N/A	< 20	#N/A	
DMSO	ND	#N/A	500 µg/g	#N/A	< 20	#N/A	
1,2-dimethoxyethane	ND	#N/A	50 µg/g	#N/A	< 20	#N/A	
Triethylamine	ND	#N/A	500 µg/g	#N/A	< 20	#N/A	
N,N-dimethylformamide	ND	#N/A	150 µg/g	#N/A	< 20	#N/A	
N,N-dimethylacetamide	ND	#N/A	150 µg/g	#N/A	< 20	#N/A	
Pyridine	ND	#N/A	50 µg/g	#N/A	< 20	#N/A	
Sulfolane	ND	#N/A	50 µg/g	#N/A	< 20	#N/A	
1,2-Dichloroethane	ND	#N/A	1 µg/g	#N/A	< 20	#N/A	
Chloroform	ND	#N/A	1 µg/g	#N/A	< 20	#N/A	
Trichloroethylene	ND	#N/A	1 µg/g	#N/A	< 20	#N/A	
1,1-Dichloroethane	ND	#N/A	1 µg/g	#N/A	< 20	#N/A	

**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  
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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.