



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



**Report Number:** 23-011173/D002.R000  
**Report Date:** 09/27/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 09/20/23 13:47

**Customer:** NW Natural Goods  
**Product identity:** HEMP - PR 0061  
**Client/Metric ID:** .  
**Laboratory ID:** 23-011173-0001

### Summary

**Potency:**

Analyte per 4g	Result	Limits	Units	Status	
CBC per 4g	0.165		mg/4g		CBD-Total per Serving Size 20.5 mg/4g
CBD per 4g	20.5		mg/4g		
CBG per 4g	11.0		mg/4g		THC-Total per Serving Size <LOQ
(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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**Customer:** NW Natural Goods

**Product identity:** HEMP - PR 0061

**Client/Metric ID:** .

**Sample Date:**

**Laboratory ID:** 23-011173-0001

**Evidence of Cooling:** No

**Temp:** 18.4

**Relinquished by:** ramos

**Serving Size #1:** 4 g

### Sample Results

Potency per 4g					
Method: J AOAC 2015 V98-6 (mod) <sup>b</sup>					
Units mg/se Batch: 2311182 Analyze: 9/22/23 3:07:00 AM					
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 4g	0.165		mg/4g	0.128	
CBC-A per 4g	< LOQ		mg/4g	0.128	
CBC-Total per 4g	< LOQ		mg/4g	0.240	
CBD per 4g	20.5		mg/4g	0.128	
CBD-A per 4g	< LOQ		mg/4g	0.128	
CBD-Total per 4g	20.5		mg/4g	0.240	
CBDV per 4g	< LOQ		mg/4g	0.128	
CBDV-A per 4g	< LOQ		mg/4g	0.128	
CBDV-Total per 4g	< LOQ		mg/4g	0.239	
CBE per 4g	< LOQ		mg/4g	0.128	
CBG per 4g	11.0		mg/4g	0.128	
CBG-A per 4g	< LOQ		mg/4g	0.128	
CBG-Total per 4g	11.0		mg/4g	0.239	
CBL per 4g	< LOQ		mg/4g	0.128	
CBL-A per 4g	< LOQ		mg/4g	0.128	
CBL-Total per 4g	< LOQ		mg/4g	0.240	
CBN per 4g	< LOQ		mg/4g	0.128	
CBT per 4g	< LOQ		mg/4g	0.128	
Δ8-THCV per 4g	< LOQ		mg/4g	0.128	
Δ10-THC-9R per 4g	< LOQ		mg/4g	0.128	
Δ10-THC-9S per 4g	< LOQ		mg/4g	0.128	
Δ10-THC-Total per 4g	< LOQ		mg/4g	0.256	
Δ8-THC per 4g	< LOQ		mg/4g	0.128	
Δ9-THC per 4g	< LOQ		mg/4g	0.128	
delta-9-THCP per 4g	< LOQ		mg/4g	0.128	
exo-THC per 4g	< LOQ		mg/4g	0.128	
THC-A per 4g	< LOQ		mg/4g	0.128	
THC-Total per 4g	< LOQ		mg/4g	0.240	
THCV per 4g	< LOQ		mg/4g	0.128	
THCV-A per 4g	< LOQ		mg/4g	0.128	
THCV-Total per 4g	< LOQ		mg/4g	0.240	
Total Cannabinoids per 4g	31.6		mg/4g		



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**Microbiology**

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2311111	09/23/23 AOAC 991.14 (Petrifilm) <sup>P</sup>		
Total Coliforms	< LOQ		cfu/g	10	2311111	09/23/23 AOAC 991.14 (Petrifilm) <sup>P</sup>		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2311112	09/23/23 AOAC 2014.05 (RAPID) <sup>P</sup>		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2311112	09/23/23 AOAC 2014.05 (RAPID) <sup>P</sup>		

**Solvents** Method: Residual Solvents by GC/MS<sup>B</sup> Units µg/g Batch 2311215 Analyze 09/25/23 12:35 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-Dimethyl butane	< LOQ		30.0			2,2-Dimethylpropane (neo-pentane)	< LOQ		200		
2,3-Dimethyl butane	< 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	
Isopropyl benzene (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>B</sup> Units mg/kg Batch 2311294 Analyze 09/27/23 12:16 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*	< LOQ	0.200	mg/kg	0.0176	2311241	09/25/23 AOAC 2013.06 (mod.) <sup>p</sup>	pass	
Cadmium*	< LOQ	0.200	mg/kg	0.0176	2311241	09/25/23 AOAC 2013.06 (mod.) <sup>p</sup>	pass	
Lead*	< LOQ	0.500	mg/kg	0.0176	2311241	09/25/23 AOAC 2013.06 (mod.) <sup>p</sup>	pass	
Mercury*	< LOQ	0.100	mg/kg	0.00881	2311241	09/25/23 AOAC 2013.06 (mod.) <sup>p</sup>	pass	

**Nutrition**

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Moisture (Loss on Drying)	18.2		g/100g	0.10	2311161	09/21/23 AOAC 925.10 (mod.) <sup>p</sup>		
Water Activity	0.684		Aw	0.030	2311142	09/21/23 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 Mult-Residue Profile, Limits of Quantitation

Compound	LOQ (mg/kg)	Compound	LOQ (mg/kg)	Compound	LOQ (mg/kg)
Abamectin	0.100	Clethodim	0.050	ndrin	0.100
Acephale	0.100	Clethodim Sulfoxide	0.050	PN	0.050
Acequinocyl	0.100	Clofentazine	0.020	PTC	0.100
Aceamiprid	0.020	Clomazone	0.020	s-envalera e/ envalera e	0.200
Aceochlor	0.100	Clofianid	0.200	aconazole	0.100
Acrinahrin	0.100	Coumaphos	0.050	halaluralin	0.100
Alachlor	0.100	Croxyphos	0.020	hioencarb	0.050
Aldicarb	0.100	Cyanazine	0.020	hion	0.200
Aldicarb sulfoxide	0.100	Cyanoenphos	0.020	hirimol	0.100
Aldoxycarb (Aldicarb-sulfoxide)	0.100	Cyaniliprole	0.050	hoimesa e	0.050
Aldrin	0.100	Cyazofluprid	0.020	hoprophos	0.020
Ametoctradin	0.020	Cycloxy	0.100	oenprox	0.020
Ametrin	0.500	Cyfluthrin	0.200	oxazole	0.020
Aspon	0.100	Cyhalothrin, lambda	0.200	ridiazole	0.100
Asulam	0.100	Cymoxanil	0.050	rimos	0.020
Azinphos-methyl	0.100	Cypermethrin	0.200	amoxadone	0.200
Azinphos-methyl	0.020	Cyprodinil	0.100	amphur	0.100
Azinphos-methyl	0.020	Dac-hal	0.100	enamidon	0.020
Azoxystrobin	0.020	Daminozide	0.100	enamiphos	0.020
Benalaxyl	0.020	DCPMU	0.050	enamiphos sulfoxide	0.020
Bendiocarb	0.020	DDD, o,p'-	0.100	enazaquin	0.100
Benluralin	0.100	DDD, p,p'-	0.100	enbutaconazole	0.100
Benoxacor	0.050	DD, o,p'-	0.100	enchlorphos	0.100
Bensulide	0.050	DD, p,p'-	0.100	enchlorphos-oxon	0.100
Beta-cyfluthrin isomer	0.100	DDT, o,p'-	0.100	enhexamid	0.100
Beta-cyfluthrin isomer	0.100	DDT, p,p'-	0.100	enirohion	0.100
Beta-cyfluthrin isomer	0.500	D (Tribofos)	0.100	enobucarb	0.050
Benazacarb	0.020	Deltamethrin	0.100	enoxyacarb	0.020
Benfluralin	0.020	Desmedipham	0.100	enpropacarb	0.050
Boscalid	0.020	Diallate	0.100	enpyroximate	0.020
Bromophos-methyl	0.100	Diazinon	0.020	enson	0.100
Bromophos-methyl	0.200	Diazoxon	0.100	ensulohion	0.020
Bromopropylate	0.100	Dichlobenil	0.100	ensulohion oxon	0.020
Bromuconazole	0.100	Dichlofuanid	0.100	ensulohion sulfoxide	0.100
Bupirimate	0.020	Dichlorvos	0.100	Fensulfthion-oxon-sulfone	0.020
Buprofezin	0.050	Diclobutylazole	0.050	en-hion	0.050
Buthachlor	0.500	Dicozol	0.100	en-hion oxon	0.020
Buthalacarb	0.200	Dicrotophos	0.050	en-hion oxon sulfoxide	0.100
Buthalacarb	0.100	Dieldrin	0.100	en-hion sulfoxide	0.050
Cadusafos	0.020	Diehoencarb	0.020	enuron	0.020
Captafen	1.000	Diehylolouamide (D-T)	0.050	ipronil	0.100
Carbaryl	0.050	Diencoconazole	0.100	lonicamid	0.100
Carbendazim	0.100	Dimehenamid	0.050	luchloralin	0.100
Carbofuran	0.020	Dimehoacarb	0.050	lucyhrinate	0.100
Carbophenothion	0.200	Dimehomorph	0.050	ludioxonil	0.200
Carboxin	0.020	Diniconazole	0.200	luenacarb	0.020
Carfenthiothion	0.100	Dinofenbutin	0.200	lumioxazin	0.100
Chloranil	0.020	Dioxahion	0.100	luomeuron	0.020
Chloranil	0.200	Diphenamid	0.020	luopicolide	0.050
Chloranil, trans-	0.200	Diphenylamine	0.100	luopyram	0.020
Chloranilpyrrol	0.500	Disulofen	0.100	luoxastrobin	0.050
Chloranilpyrrol	0.200	Disulofen sulfoxide	0.100	lupyradiuron	0.020
Chloranilpyrrol	0.050	Disulofen sulfoxide	0.100	luridone	0.100
Chloranilpyrrol	0.100	Diuron	0.050	lusilazole	0.020
Chloranilpyrrol	0.200	di-enphos	0.050	luolanil	0.020
Chloranilpyrrol	0.050	ndosulalan alpha	0.200	lulariaol	0.020
Chloranilpyrrol	0.200	ndosulalan beta	0.200	lualinate, a-	0.100
Chloranilpyrrol	1.000	ndosulalan sulfate	0.100	luxaproxad	0.020



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Cannab s Mu t -Res due Prof e, L m ts of Quant tat on

Compound	LOQ (mg/kg)	Compound	LOQ (mg/kg)	Compound	LOQ (mg/kg)
omesa en	0.100	Mexacarba e	0.020	Propamocarb	0.050
ono os	0.100	MGK 264	0.020	Propanil	0.050
orchlor enuron	0.050	Mirex	0.100	Propargi e	0.050
orme ana e	0.050	Molina e	0.050	Propazine	0.020
ura hiocarb	0.020	Monocro ophos	0.100	Prope amphos	0.050
ep achlor	0.100	Monolinuron	0.020	Propham	0.050
ep achlor epoxide	0.100	Myclobu anil	0.050	Propiconazole	0.050
ep enophos	0.100	Naled	0.100	Propoxur	0.050
exachlorobenzene	0.100	Napropamide	0.050	Propoxycarbazone Na	0.050
exaconazole	0.100	Neburon	0.020	Propyzamide	0.050
exazinone	0.100	Ni rapyrin	0.100	Pro hio os	0.100
exy hiazox	0.020	Nor lurazon	0.050	Pyraclos robin	0.020
mazalil	0.100	Ome hoa e	0.100	Pyrazophos	0.050
midacloprid	0.100	O-Phenylphenol	0.100	Pyre hrins	0.050
ndazi lam	0.020	Oxadixyl	0.100	Pyridaben	0.020
ndoxacarb	0.020	Oxamyl	0.100	Pyrida ol	0.100
proben os	0.100	Oxamyl-oxime	0.100	Pyrida e	0.020
prodione	0.100	Oxychlorane	0.100	Pyrima hanil	0.050
sobenzan	0.100	Oxydeme on-Me hyl	0.100	Pyriproxi en	0.020
socarbophos	0.500	Oxy hioquinox	0.200	Pyroxasul one	0.020
sodrin	0.100	Paclobu razol	0.050	Pyroxulam	0.020
so enphos	0.050	Paraaxon-e hyl	0.020	Quinalphos	0.050
so enphos-me hyl	0.020	Paraaxon me hyl	0.100	Quinoxy en	0.050
so enphos oxon	0.050	Para hion e hyl	0.100	Quin ozene (PCNB)	0.200
soproc carb	0.020	Para hion me hyl	0.200	Resme hrin	0.050
sopropalin	0.200	Penconazole	0.050	Ro enone	0.050
sopro hiolane	0.050	Pendime halin	0.050	S421	0.100
sopro uron	0.050	Pen lu en	0.020	Simazine	0.100
soxaben	0.050	Pen achloroaniline	0.100	Sime ryn	0.200
soxa lu ole	0.050	Pen achloroanisole	0.100	Spine oram	0.020
Kresoxim-me hyl	0.050	Pen achlorobenzene (PCB)	0.100	Spinosad	0.050
ac o en	0.500	Pentachlorothioanisole (PCTA)	0.100	Spirodiclo en	0.100
enacil	0.100	Pen hiopyrad	0.020	Spiromesi en	0.050
indane (gamma B C)	0.100	Perme hrin	0.050	Spiro e rama	0.050
inuron	0.020	Per hane	0.100	Spiroxamine	0.020
Malaaxon	0.050	Phenmedipham	0.050	Sul o ep	0.050
Mala hion	0.050	Phen hoa e	0.050	Sul oxa lor	0.050
Mandipropamid	0.020	Phora e	0.050	Sulpro os	0.020
Mecarbam	0.020	Phora e Sul one	0.050	Tebuconazole	0.100
Mepanipyrim	0.050	Phora e Sul oxide	0.050	Tebu enozide	0.020
Merphos	0.500	Phosalone	0.050	Tebu hiuron	0.020
Me alaxyl	0.050	Phosme	0.100	Tecnazene	0.100
Me aldehyde	0.050	Phosphamidon	0.050	Te lu hrin	0.100
Me conazole	0.100	Phoxim	0.050	Terbu os	0.020
Me hacri os	0.100	Pinoxaden	0.020	Terbu os sul one	0.050
Me hamidophos	0.050	Piperonyl bu oxide	0.050	Terbu os sul oxide	0.050
Me hida hion	0.050	Pirimicarb	0.020	Terbu hylazine	0.020
Me hiocarb	0.050	Pirimiphos-me hyl	0.050	Terbu ryn	0.020
Me hiocarb sul one	0.100	Pirimiphos-e hyl	0.020	Te rachlorvinphos	0.050
Me hiocarb sul oxide	0.100	Pralle hrin	0.100	Te raconazole	0.050
Me homyl	0.100	Prochloraz	0.020	Te radi on	0.200
Me hoxychlor	0.100	Procymidone	0.100	Te rame hrin	0.050
Me hoxy enozide	0.020	Pro eno os	0.100	Te rasul	0.100
Me obromuron	0.050	Pro luralin	0.100	Thiabendazole	0.100
Me olachlor	0.100	Promecarb	0.050	Thiabendazole, 5-hydroxy	0.100
Me olcarb	0.050	Prome on	0.100	Thiacloprid	0.050
Me ra enone	0.050	Prome ryn	0.020	Thiame hoxam	0.100
Me ribuzin	0.100	Propachlor	0.020	Thiobencarb	0.050
Mevinphos	0.100			Thiodicarb	0.050
				Thiophana e-me hyl	0.050



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Cannab s Mu t-Res due Prof e, L m ts of Quant tat on

Compound	LOQ (mg/kg)	Compound	LOQ (mg/kg)	Compound	LOQ (mg/kg)
Tolclo os-me hyl	0.100	Triazophos	0.020	Tri loxys robin	0.020
Tri orin	0.100	Tolyl luanid	0.050	Tri iconazole	0.050
Tralkoxydim	0.100	Tridiphane	0.500	Vinclozolin	0.100
Triadime on	0.050	Tri lumizole	0.020	Zoxamide	0.020
Trialla e	0.100	Tri luralin	0.100		

LOQ= Limit of Quantitation, mg/kg

Factors affecting the LOQ include instrument sensitivity or 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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**Hemp & Cannabis  
Chain of Custody**

**Northwest-Natural  
Goods-1695158728**

ORELAP ID: **OR1000028** ANAB ISO 17025 ID: **AT1508**

<b>Contact Information</b> Company: Northwest Natural Goods 		<b>Project Details</b> Turnaround Time: <u>5 Business Days (Rep. For Micro Testing) Standard</u> Sample Relinquishment Options: <u>Schedule Pick-Up</u> Compliance: <u>Compliance</u> Project Name / ID: <u>HEMP-PR0061</u> Cannabis Type (select if applicable): <u>Industrial</u> <b>Pick-Up Details</b> Pick-Up Location Name: <u>Northwest Natural Goods</u>  City: <u>Clackamas</u> State: <u>Oregon</u> ZIP Code: <u>97015</u>			<b>Testing</b> <table border="1"> <tr> <td>H0010 - Potency Cannabinoid Basic + Extended Profile</td> <td>F0320 - Residue - Multi-Residue Profile</td> <td>H0008 - Residual Solvents - CF</td> <td>H0013 - Heavy Metals Profile (As, Cd, Pb &amp; Hg)</td> <td>M075 - Total Coliforms - EColi</td> <td>F0203 - Yeast and Mold</td> <td>N190 - Moisture Loss on Drying</td> <td>N200 - Water Activity</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> </table>							H0010 - Potency Cannabinoid Basic + Extended Profile	F0320 - Residue - Multi-Residue Profile	H0008 - Residual Solvents - CF	H0013 - Heavy Metals Profile (As, Cd, Pb & Hg)	M075 - Total Coliforms - EColi	F0203 - Yeast and Mold	N190 - Moisture Loss on Drying	N200 - Water Activity	<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"/>
H0010 - Potency Cannabinoid Basic + Extended Profile	F0320 - Residue - Multi-Residue Profile	H0008 - Residual Solvents - CF	H0013 - Heavy Metals Profile (As, Cd, Pb & Hg)	M075 - Total Coliforms - EColi	F0203 - Yeast and Mold	N190 - Moisture Loss on Drying	N200 - Water Activity																				
<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"/>																				
<b>#</b>	<b>Sample Name/ Test</b>	<b>Material</b>	<b>Amount Provided</b>	<b>Reporting Unit</b>	<b>Serving Size</b>	<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"/>															
1	HEMP-PR0061	Edible	20 units for sale	mg/g & mg/ serving	1 g	<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"/>															

Relinquished By	Date	Time	Temp., °C	Received By	Date	Time	Received Temp., °C	Evidence of Cooling?
KRISTEN JOHNSON	9/19/2023	14:25		BR	9/20/2023	10:22		No
BR	9/20/2023	10:47	18.4	BR	9/20/2023	13:47		No

Samples submitted to Columbia Laboratories with testing requirements constitute an agreement for services in accordance with the current terms of service associated with NSCOC. By signing Relinquished by you are agreeing to these terms.

Columbia Laboratories  
12423 NE Whitaker Way  
Portland, OR 97230

P: (503) 254-1794 | Fax: (503) 254-1462  
info@columbialaboratories.com

Page 1 of 1  
www.columbialaboratories.com



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



**Report Number:** 23-011173/D002.R000  
**Report Date:** 09/27/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 09/20/23 13:47

Revision 4 Documen D 7148  
 Legacy D Workshee Valida ed 04/20/2021

Laboratory Quality Control Results

JAOAC2015 V98-6 Batch ID: 2311182

Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes	
CBDVA	2	0.0334	0.0324	%	103	80.0 - 120	Acceptable		
CBDV	2	0.0334	0.0324	%	103	80.0 - 120	Acceptable		
CBE	2	0.0353	0.0345	%	102	80.0 - 120	Acceptable		
CBDA	1	0.0309	0.0324	%	95.1	90.0 - 110	Acceptable		
CBGA	1	0.0309	0.0330	%	93.4	80.0 - 120	Acceptable		
CBG	1	0.0365	0.0379	%	96.1	80.0 - 120	Acceptable		
CBD	1	0.0307	0.0316	%	97.4	90.0 - 110	Acceptable		
THCV	2	0.0346	0.0336	%	103	80.0 - 120	Acceptable		
d8THCV	2	0.0299	0.0294	%	102	80.0 - 120	Acceptable		
THCVA	2	0.0328	0.0320	%	103	80.0 - 120	Acceptable		
CBN	1	0.0300	0.0320	%	93.8	80.0 - 120	Acceptable		
exo-THC	2	0.0319	0.0314	%	101	80.0 - 120	Acceptable		
d9THC	1	0.0319	0.0320	%	99.5	90.0 - 110	Acceptable		
d8THC	1	0.0293	0.0312	%	94.0	90.0 - 110	Acceptable		
9S-d10THC	1	0.0333	0.0344	%	96.6	80.0 - 120	Acceptable		
CBL	2	0.0338	0.0349	%	96.8	80.0 - 120	Acceptable		
9S-HHC	3	0.0275	0.0292	%	94.2	80.0 - 120	Acceptable		
9R-d10THC	1	0.0311	0.0340	%	91.3	80.0 - 120	Acceptable		
CBC	2	0.0340	0.0332	%	102	80.0 - 120	Acceptable		
9R-HHC	3	0.0850	0.0883	%	96.3	80.0 - 120	Acceptable		
THCA	1	0.0310	0.0328	%	94.5	90.0 - 110	Acceptable		
CBCA	2	0.0353	0.0341	%	104	80.0 - 120	Acceptable		
CBLA	2	0.0349	0.0343	%	102	80.0 - 120	Acceptable		
d9THCP	2	0.0330	0.0333	%	98.9	80.0 - 120	Acceptable		
d8THCO	3	0.0325	0.0334	%	97.0	80.0 - 120	Acceptable		
CBT	2	0.0338	0.0351	%	96.2	80.0 - 120	Acceptable		
d9THCO	3	0.0308	0.0329	%	93.6	80.0 - 120	Acceptable		

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.00324	%	< 0.00324	Acceptable	
CBDV	<LOQ	0.00324	%	< 0.00324	Acceptable	
CBE	<LOQ	0.00324	%	< 0.00324	Acceptable	
CBDA	<LOQ	0.00324	%	< 0.00324	Acceptable	
CBGA	<LOQ	0.00324	%	< 0.00324	Acceptable	
CBG	<LOQ	0.00324	%	< 0.00324	Acceptable	
CBD	<LOQ	0.00324	%	< 0.00324	Acceptable	
THCV	<LOQ	0.00324	%	< 0.00324	Acceptable	
d8THCV	<LOQ	0.00324	%	< 0.00324	Acceptable	
THCVA	<LOQ	0.00324	%	< 0.00324	Acceptable	
CBN	<LOQ	0.00324	%	< 0.00324	Acceptable	
exo-THC	<LOQ	0.00324	%	< 0.00324	Acceptable	
d9THC	<LOQ	0.00324	%	< 0.00324	Acceptable	
d8THC	<LOQ	0.00324	%	< 0.00324	Acceptable	
9S-d10THC	<LOQ	0.00324	%	< 0.00324	Acceptable	
CBL	<LOQ	0.00324	%	< 0.00324	Acceptable	
9S-HHC	<LOQ	0.00324	%	< 0.00324	Acceptable	
9R-d10THC	<LOQ	0.00324	%	< 0.00324	Acceptable	
CBC	<LOQ	0.00324	%	< 0.00324	Acceptable	
9R-HHC	<LOQ	0.00324	%	< 0.00324	Acceptable	
THCA	<LOQ	0.00324	%	< 0.00324	Acceptable	
CBCA	<LOQ	0.00324	%	< 0.00324	Acceptable	
CBLA	<LOQ	0.00324	%	< 0.00324	Acceptable	
d9THCP	<LOQ	0.00324	%	< 0.00324	Acceptable	
d8THCO	<LOQ	0.00324	%	< 0.00324	Acceptable	
CBT	<LOQ	0.00324	%	< 0.00324	Acceptable	
d9THCO	<LOQ	0.00324	%	< 0.00324	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:** 23-011173/D002.R000  
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**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 09/20/23 13:47

Revision 4 Documen D 7148  
 Legacy D Workshee Valida ed 04/20/2021

Laboratory Quality Control Results

JAOAC2015 V98-6		Batch ID: 2311182						
Sample Duplicate		Sample ID: 23-011135-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
CBG	0.0165	0.0163	0.00312	%	1.47	< 20	Acceptable	
CBD	0.00317	0.00326	0.00312	%	2.97	< 20	Acceptable	
THCV	0.00836	0.00816	0.00312	%	2.43	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
CBN	0.0255	0.0249	0.00312	%	2.18	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
d9THC	1.11	1.08	0.00312	%	2.52	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
9S-HHC	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
CBC	0.0118	0.0120	0.00312	%	1.42	< 20	Acceptable	
9R-HHC	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
d8THCO	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	
d9THCO	<LOQ	<LOQ	0.00312	%	NA	< 20	Acceptable	

Abbreviations

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

Units of Measure:

% - Percent



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



Report Number: 23-011173/D002.R000  
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 ORELAP#: OR100028  
 Purchase Order:  
 Received: 09/20/23 13:47

Revision 2 Document D 7087  
 Legacy D CFL-E33Effective

Laboratory Quality Control Results

Residual Solvents				Batch ID: 2311215					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		541	584	µg/g	92.6	60	120
Isobutane	ND	< 200		634	767	µg/g	82.7	60	120
Butane	ND	< 200		679	782	µg/g	86.8	60	120
2,2 Dimethylpropane	ND	< 200		814	939	µg/g	86.7	60	120
Methanol	ND	< 200		1590	1670	µg/g	95.2	60	120
Ethylene Oxide	ND	< 30		52.9	57.1	µg/g	92.6	60	120
2 Methylbutane	ND	< 200		1460	1680	µg/g	86.9	60	120
Pentane	ND	< 200		1450	1670	µg/g	86.8	60	120
Ethanol	ND	< 200		1570	1660	µg/g	94.6	70	130
Ethyl Ether	ND	< 200		1490	1670	µg/g	89.2	60	120
2,2 Dimethylbutane	ND	< 30		165	189	µg/g	87.3	60	120
Acetone	ND	< 200		1540	1670	µg/g	92.2	60	120
2 Propanol	ND	< 200		1500	1630	µg/g	92.0	60	120
Ethyl Formate	ND	< 500		1450	1600	µg/g	90.6	70	130
Acetonitrile	ND	< 100		437	492	µg/g	88.8	60	120
Methyl Acetate	ND	< 500		1630	1600	µg/g	101.9	70	130
2,3 Dimethylbutane	ND	< 30		162	180	µg/g	90.0	60	120
Dichloromethane	ND	< 60		457	488	µg/g	93.6	60	120
2 Methylpentane	ND	< 30		160	182	µg/g	87.9	60	120
M BE	ND	< 500		1640	1610	µg/g	101.9	70	130
3 Methylpentane	ND	< 30		149	177	µg/g	84.2	60	120
Hexane	ND	< 30		153	177	µg/g	86.4	60	120
1 Propanol	ND	< 500		1620	1600	µg/g	101.3	70	130
Methylethylketone	ND	< 500		1580	1610	µg/g	98.1	70	130
Ethyl acetate	ND	< 200		1470	1630	µg/g	90.2	60	120
2 Butanol	ND	< 200		1470	1630	µg/g	90.2	60	120
tetrahydrofuran	ND	< 100		445	488	µg/g	91.2	60	120
Cyclohexane	ND	< 200		1450	1610	µg/g	90.1	60	120
2 methyl 1 propanol	ND	< 500		1580	1610	µg/g	98.1	70	130
Benzene	ND	< 1		4.54	4.79	µg/g	94.8	60	120
Isopropyl Acetate	ND	< 200		1490	1650	µg/g	90.3	60	120
Heptane	ND	< 200		1430	1630	µg/g	87.7	60	120
1 Butanol	ND	< 500		1600	1600	µg/g	100.0	70	130
Propyl Acetate	ND	< 500		1550	1600	µg/g	96.9	70	130
1,4 Dioxane	ND	< 100		436	523	µg/g	83.4	60	120
2 Ethoxyethanol	ND	< 30		156	179	µg/g	87.2	60	120
Methylisobutylketone	ND	< 500		1720	1600	µg/g	107.5	70	130
3 Methyl 1 butanol	ND	< 500		1330	1600	µg/g	95.6	70	130
Ethylene Glycol	ND	< 200		303	506	µg/g	59.9	60	120 Q6
oluene	ND	< 100		434	496	µg/g	87.5	60	120
Isobutyl Acetate	ND	< 500		1560	1610	µg/g	96.9	70	130
1 Pentanol	ND	< 500		1370	1600	µg/g	85.6	70	130
Butyl Acetate	ND	< 500		1540	1610	µg/g	95.7	70	130
Ethylbenzene	ND	< 200		771	978	µg/g	78.8	60	120
m,p Xylene	ND	< 200		782	994	µg/g	78.7	60	120
o Xylene	ND	< 200		763	982	µg/g	77.7	60	120
Cumene	ND	< 30		130	171	µg/g	76.0	60	120
Anisole	ND	< 500		1410	1600	µg/g	88.1	70	130
DMSO	ND	< 500		1400	1620	µg/g	86.4	70	130
1,2 dimethoxyethane	ND	< 50		184	185	µg/g	98.9	70	130
riethylamine	ND	< 500		1490	1600	µg/g	93.1	70	130
N,N dimethylformamide	ND	< 150		446	480	µg/g	92.9	70	130
N,N dimethylacetamide	ND	< 150		418	483	µg/g	86.5	70	130
Pyridine	ND	< 50		154	168	µg/g	91.7	70	130
Sulfolane	ND	< 50		111	161	µg/g	68.9	70	130 Q6
1,2 Dichloroethane	ND	< 1		0.965	1	µg/g	96.5	70	130
Chloroform	ND	< 1		0.946	1	µg/g	94.6	70	130
richloroethylene	ND	< 1		0.991	1	µg/g	99.1	70	130
1,1 Dichloroethane	ND	< 1		1	1	µg/g	100.0	70	130



12423 NE Whitaker Way  
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**Report Number:** 23-011173/D002.R000  
**Report Date:** 09/27/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 09/20/23 13:47

Revision 2 Document D 7087  
 Legacy D CFL-E33Effective

QC - Sample Duplicate Sample ID: 23-011105-0001

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	
M BE	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	
oluene	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	
richloroethylene	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:** 23-011173/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.