



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



**Report Number:** 22-001254/D002.R000  
**Report Date:** 02/10/2022  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 02/02/22 13:31

**Customer:** NW Natural Goods  
**Product identity:** HEMP - PR 0008  
**Client/Metric ID:** .  
**Laboratory ID:** 22-001254-0001

### Summary

**Potency:**

Analyte per 4g	Result	Limits	Units	Status	
CBD per 4g	19.6		mg/4g		CBD-Total per 4g 19.6 mg/4g
CBG per 4g <sup>†</sup>	10.3		mg/4g		THC-Total per 4g <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 <sup>†</sup>	< 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 0008

**Client/Metric ID:** .

**Sample Date:**

**Laboratory ID:** 22-001254-0001

**Evidence of Cooling:** No

**Temp:** 10.8 °C

**Relinquished by:** Thompson

**Serving Size #1:** 4 g

### Sample Results

Potency per 4g	Method J AOAC 2015 V98-6 (mod)	Units mg/se	Batch: 2201092	Analyze: 2/7/22 1:39:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 4g <sup>†</sup>	< LOQ		mg/4g	0.126	
CBC-A per 4g <sup>†</sup>	< LOQ		mg/4g	0.126	
CBC-Total per 4g <sup>†</sup>	< LOQ		mg/4g	0.237	
CBD per 4g	19.6		mg/4g	0.126	
CBD-A per 4g	< LOQ		mg/4g	0.126	
CBD-Total per 4g	19.6		mg/4g	0.237	
CBDV per 4g <sup>†</sup>	< LOQ		mg/4g	0.126	
CBDV-A per 4g <sup>†</sup>	< LOQ		mg/4g	0.126	
CBDV-Total per 4g <sup>†</sup>	< LOQ		mg/4g	0.235	
CBE per 4g <sup>†</sup>	< LOQ		mg/4g	0.126	
CBG per 4g <sup>†</sup>	10.3		mg/4g	0.126	
CBG-A per 4g <sup>†</sup>	< LOQ		mg/4g	0.126	
CBG-Total per 4g <sup>†</sup>	10.3		mg/4g	0.235	
CBL per 4g <sup>†</sup>	< LOQ		mg/4g	0.126	
CBL-A per 4g <sup>†</sup>	< LOQ		mg/4g	0.126	
CBL-Total per 4g <sup>†</sup>	< LOQ		mg/4g	0.237	
CBN per 4g	< LOQ		mg/4g	0.126	
CBT per 4g <sup>†</sup>	< LOQ		mg/4g	0.126	
Δ8-THCV per 4g <sup>†</sup>	< LOQ		mg/4g	0.126	
Δ8-THC per 4g <sup>†</sup>	< LOQ		mg/4g	0.126	
Δ9-THC per 4g	< LOQ		mg/4g	0.126	
exo-THC per 4g <sup>†</sup>	< 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 <sup>†</sup>	< LOQ		mg/4g	0.126	
THCV-A per 4g <sup>†</sup>	< LOQ		mg/4g	0.126	
THCV-Total per 4g <sup>†</sup>	< LOQ		mg/4g	0.237	
Total Cannabinoids per 4g	29.9		mg/4g		



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**Microbiology**

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2200927	02/05/22	AOAC 991.14 (Petrifilm)		X
Total Coliforms	< LOQ		cfu/g	10	2200927	02/05/22	AOAC 991.14 (Petrifilm)		X
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2200928	02/06/22	AOAC 2014.05 (RAPID)		X
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2200928	02/06/22	AOAC 2014.05 (RAPID)		X

**Solvents** Method Residual Solvents by GC/MS Units µg/g Batch 2201085 Analyze 02/08/22 10:55 AM

Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
1,4-Dioxane	< LOQ	380	100	pass		2-Butanol	< LOQ	5000	200	pass	
2-Ethoxyethanol	< LOQ	160	30.0	pass		2-Methylbutane (Isopentane)	< LOQ		200		
2-Methylpentane	< LOQ		30.0			2-Propanol (IPA)	< LOQ	5000	200	pass	
2,2-Dimethylbutane	< LOQ		30.0			2,2-Dimethylpropane (neo-pentane)	< LOQ		200		
2,3-Dimethylbutane	< LOQ		30.0			3-Methylpentane	< LOQ		30.0		
Acetone	< LOQ	5000	200	pass		Acetonitrile	< LOQ	410	100	pass	
Benzene	< LOQ	2.00	1.00	pass		Butanes (sum)	< LOQ	5000	400	pass	
Cyclohexane	< LOQ	3880	200	pass		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) Units mg/kg Batch 2201131 Analyze 02/09/22 12:06 PM

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

**Metals**

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
Arsenic	< LOQ	0.200	mg/kg	0.0150	2201101	02/08/22	AOAC 2013.06 (mod.)	pass	X
Cadmium	< LOQ	0.200	mg/kg	0.0150	2201101	02/08/22	AOAC 2013.06 (mod.)	pass	X
Lead	< LOQ	0.500	mg/kg	0.0150	2201101	02/08/22	AOAC 2013.06 (mod.)	pass	X
Mercury	< LOQ	0.100	mg/kg	0.00749	2201101	02/08/22	AOAC 2013.06 (mod.)	pass	X

**Nutrition**

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
Moisture (Loss on Drying)	18.8		g/100g	0.10	2201106	02/07/22	AOAC 925.10 (mod.)		X
Water Activity	0.702		Aw	0.030	2200942	02/03/22	AOAC 978.18		X



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These test results are representative of the individual sample selected and submitted by the client.

**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.

† = Analyte not NELAP accredited.

**Units of Measure**

cfu/g = Colony forming units per gram

g = Gram

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

**Glossary of Qualifiers**

X: Not ORELAP accredited.

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
Ametoctradin	0.020	Cyazofamid	0.020	Etofenprox	0.020
Ametryn	0.500	Cycloate	0.100	Etoxazole	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	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	Fonicamid	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	Fluvalinate, 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	Oxychlordan	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	Pacllobutrazol	0.050	Pyroxsulam	0.020
Isfenphos	0.050	Paraoxon-ethyl	0.020	Quinalphos	0.050
Isfenphos-methyl	0.020	Paraoxon-methyl	0.100	Quinoxifen	0.050
Isfenphos 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	Terbuthylazine	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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**Cannabis Chain of Custody Record**

ORELAP ID: OR100028

Company: <b>NW Natural Goods</b>		<b>Analysis Requested</b>											Purchase Order Number:																																													
Contact: <b>Annie Nair</b>		<table border="1"> <tr> <td colspan="11">OPEN MARKET</td> </tr> <tr> <td colspan="11" style="text-align: center;"> <p><i>a</i></p> <p><i>p/u</i></p> </td> </tr> <tr> <td>Matrix</td> <td>Weight</td> <td>Serving size for edibles</td> <td colspan="8">Comments/Metric ID</td> </tr> <tr> <td>edible</td> <td>40g</td> <td>4g</td> <td colspan="8"></td> </tr> </table>											OPEN MARKET											<p><i>a</i></p> <p><i>p/u</i></p>											Matrix	Weight	Serving size for edibles	Comments/Metric ID								edible	40g	4g									Project Number:	
OPEN MARKET																																																										
<p><i>a</i></p> <p><i>p/u</i></p>																																																										
Matrix	Weight												Serving size for edibles	Comments/Metric ID																																												
edible	40g	4g																																																								
Address: 11791 SE HWY 212, Clackamas, OR 97015		Project Name:																																																								
Email: annienair@nwnaturalgoods.com		<input type="checkbox"/> Report Instructions: <input type="checkbox"/> Send to State - METRC <input checked="" type="checkbox"/> Email Final Results: <input type="checkbox"/> Fax Final Results <input type="checkbox"/> Cash/Check/CC/Net 30																																																								
Phone: 503-453-4219 Fax:		Other:																																																								
Processor's License: <b>330-1058115IHH</b>																																																										
Field ID	Date/Time Collected	Pesticides - OR 59 compounds	Pesticide Multi-Residue - 379 compounds	Potency	Residual Solvents	Water Activity	Moisture	Terpenes	Micro: Yeast and Mold	Micro: E.Coli and Total Coliform	Heavy Metals	Mycotoxins	Other	Matrix	Weight	Serving size for edibles	Comments/Metric ID																																									
HEMP - PR 0008	2/2/22		x	x	x	x	x		x	x	x			edible	40g	4g																																										

Collected By:	Relinquished By:	Date	Time	Received by:	Date	Time	Lab Use Only:
<input checked="" type="checkbox"/> Standard (5 day)	Annie Nair	2/2/22		<i>Dilly Cheng</i>	2/2	11:15	Client Alias:
<input type="checkbox"/> Rush (3-4 day) (1.5x Standard)	<i>Dilly Cheng</i>	2/2	12:43	<i>C</i>	2/2/22	13:31	Order Number:
<input type="checkbox"/> Priority Rush (2 day) (2x Standard)							Proper Container
							Sample Condition
							Temperature: <i>10.8</i>
							Shipped Via:
							Evidence of cooling: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

SUBMISSION OF SAMPLES WITH TESTING REQUIREMENTS TO PIXIS WILL BE UNDERSTOOD TO BE AN AGREEMENT FOR SERVICES IN ACCORDANCE WITH THE CONDITIONS LISTED ON THE BACK OF THIS FORM  
 Revision: 1.00 Control#: CF023 Effective 11/8/2018 Revised 11/8/2018 [www.pixislabs.com](http://www.pixislabs.com) Page 1 of 2

*\*on ice*

Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.  
 Testing in accordance with: OAR 333-007-0390 OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430



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



**Report Number:** 22-001254/D002.R000  
**Report Date:** 02/10/2022  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 02/02/22 13:31

Revision: Document ID:  
Legacy ID: Effective:

Laboratory Quality Control Results									
Residual Solvents					Batch ID: 2201085				
Method Blank			Laboratory Control Sample						
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		391	401	µg/g	97.5	70	130
Isobutane	ND	< 200		417	498	µg/g	83.7	70	130
Butane	ND	< 200		414	493	µg/g	84.0	70	130
2,2-Dimethylpropane	ND	< 200		650	628	µg/g	103.5	70	130
Methanol	ND	< 200		1600	1610	µg/g	99.4	70	130
Ethylene Oxide	ND	< 30		34.2	37.2	µg/g	91.9	70	130
2-Methylbutane	ND	< 200		1630	1630	µg/g	100.0	70	130
Pentane	ND	< 200		1710	1610	µg/g	106.2	70	130
Ethanol	ND	< 200		1490	1630	µg/g	91.4	70	130
Ethyl Ether	ND	< 200		1570	1610	µg/g	97.5	70	130
2,2-Dimethylbutane	ND	< 30		196	165	µg/g	118.8	70	130
Acetone	ND	< 200		1770	1610	µg/g	109.9	70	130
2-Propanol	ND	< 200		1800	1610	µg/g	111.8	70	130
Ethyl Formate	ND	< 500		1530	1620	µg/g	94.4	70	130
Acetonitrile	ND	< 100		661	498	µg/g	132.7	70	130
Methyl Acetate	ND	< 500		1680	1810	µg/g	92.8	70	130
2,3-Dimethylbutane	ND	< 30		214	162	µg/g	132.1	70	130
Dichloromethane	ND	< 60		535	498	µg/g	107.4	70	130
2-Methylpentane	ND	< 30		188	167	µg/g	112.6	70	130
MTBE	ND	< 500		1600	1610	µg/g	99.4	70	130
3-Methylpentane	ND	< 30		205	179	µg/g	114.5	70	130
Hexane	ND	< 30		159	164	µg/g	97.0	70	130
1-Propanol	ND	< 500		1530	1620	µg/g	94.4	70	130
Methylethylketone	ND	< 500		1590	1770	µg/g	89.8	70	130
Ethyl acetate	ND	< 200		1610	1620	µg/g	99.4	70	130
2-Butanol	ND	< 200		1610	1600	µg/g	100.6	70	130
Tetrahydrofuran	ND	< 100		512	500	µg/g	102.4	70	130
Cyclohexane	ND	< 200		1640	1610	µg/g	101.9	70	130
2-methyl-1-propanol	ND	< 500		1570	1610	µg/g	97.5	70	130
Benzene	ND	< 1		6.1	5.62	µg/g	108.5	70	130
Isopropyl Acetate	ND	< 200		1820	1610	µg/g	113.0	70	130
Heptane	ND	< 200		1830	1610	µg/g	113.7	70	130
1-Butanol	ND	< 500		1750	1620	µg/g	108.0	70	130
Propyl Acetate	ND	< 500		1930	1620	µg/g	119.1	70	130
1,4-Dioxane	ND	< 100		538	502	µg/g	111.2	70	130
2-Ethoxyethanol	ND	< 30		181	164	µg/g	110.4	70	130
Methylisobutylketone	ND	< 500		2000	1620	µg/g	123.5	70	130
3-Methyl-1-butanol	ND	< 500		1940	1620	µg/g	119.8	70	130
Ethylene Glycol	ND	< 200		376	502	µg/g	74.9	70	130
Toluene	ND	< 200		505	488	µg/g	103.5	70	130
Isobutyl Acetate	ND	< 500		2030	1700	µg/g	119.4	70	130
1-Pentanol	ND	< 500		1900	1630	µg/g	116.6	70	130
Butyl Acetate	ND	< 500		2070	1660	µg/g	124.7	70	130
Ethylbenzene	ND	< 200		982	965	µg/g	101.8	70	130
m,p-Xylene	ND	< 200		1030	990	µg/g	104.0	70	130
o-Xylene	ND	< 200		981	971	µg/g	101.0	70	130
Cumene	ND	< 30		174	179	µg/g	97.2	70	130
Anisole	ND	< 500		1710	1650	µg/g	103.6	70	130
DMSO	ND	< 500		1550	1630	µg/g	95.1	70	130
1,2-dimethoxyethane	ND	< 50		204	183	µg/g	111.5	70	130
Triethylamine	ND	< 500		1770	1620	µg/g	109.3	70	130
N,N-dimethylformamide	ND	< 150		551	495	µg/g	111.3	70	130
N,N-dimethylacetamide	ND	< 150		506	502	µg/g	100.8	70	130
Pyridine	ND	< 50		213	186	µg/g	114.5	70	130
1,2-Dichloroethane	ND	< 1		1.19	1	µg/g	119.0	70	130
Chloroform	ND	< 1		1.09	1	µg/g	109.0	70	130
Trichloroethylene	ND	< 1		1.05	1	µg/g	105.0	70	130



12423 NE Whitaker Way  
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**Report Number:** 22-001254/D002.R000  
**Report Date:** 02/10/2022  
**ORELAP#:** OR100028  
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**Received:** 02/02/22 13:31

Revision: Document ID:  
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QC - Sample Duplicate Sample ID: 22-001203-0002

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	
Methylethylketone	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Ethyl acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Butanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Tetrahydrofuran	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Cyclohexane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-methyl-1-propanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Benzene	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Isopropyl Acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Heptane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
1-Butanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Propyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
1,4-Dioxane	ND	ND	100	µg/g	0.0	< 20	Acceptable	
2-Ethoxyethanol	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Methylisobutylketone	ND	ND	500	µg/g	0.0	< 20	Acceptable	
3-Methyl-1-butanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Ethylene Glycol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Toluene	ND	ND	200	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	
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	
Ethylene Oxide	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Dichloromethane	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Benzene	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  
 Q1 - Quality control result biased high. Only non-detect samples reported.

**Units of Measure:**

µg/g - Microgram per gram or ppm



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

**Report Number:** 22-001254/D002.R000  
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**Received:** 02/02/22 13:31



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

**Laboratory Quality Control Results**

J AOAC 2015 V98-6								
Batch ID: 2201092								
Laboratory Control Sample								
Analyte	Result	Spike	Units	% Rec	Limits		Evaluation	Notes
CBDVA	0.00955	0.01	%	95.5	85.0	- 115	Acceptable	
CBDV	0.01000	0.01	%	100.0	85.0	- 115	Acceptable	
CBE	0.00993	0.01	%	99.3	85.0	- 115	Acceptable	
CBDA	0.0110	0.01	%	110	85.0	- 115	Acceptable	
CBGA	0.00955	0.01	%	95.5	85.0	- 115	Acceptable	
CBG	0.00991	0.01	%	99.1	85.0	- 115	Acceptable	
CBD	0.0110	0.01	%	110	85.0	- 115	Acceptable	
THCV	0.00986	0.01	%	98.6	85.0	- 115	Acceptable	
d8THCV	0.00995	0.01	%	99.5	85.0	- 115	Acceptable	
THCVA	0.00897	0.01	%	89.7	85.0	- 115	Acceptable	
CBN	0.0113	0.01	%	113	85.0	- 115	Acceptable	
exo-THC	0.00905	0.01	%	90.5	85.0	- 115	Acceptable	
d9THC	0.0107	0.01	%	107	85.0	- 115	Acceptable	
d8THC	0.00961	0.01	%	96.1	85.0	- 115	Acceptable	
CBL	0.00922	0.01	%	92.2	85.0	- 115	Acceptable	
CBC	0.00989	0.01	%	98.9	85.0	- 115	Acceptable	
THCA	0.0109	0.01	%	109	85.0	- 115	Acceptable	
CBCA	0.00995	0.01	%	99.5	85.0	- 115	Acceptable	
CBLA	0.00988	0.01	%	98.8	85.0	- 115	Acceptable	
CBT	0.00883	0.01	%	88.3	85.0	- 115	Acceptable	

**Method Blank**

Analyte	Result	LOQ	Units	Limits		Evaluation	Notes
CBDVA	<LOQ	0.0006	%	<	0.0006	Acceptable	
CBDV	<LOQ	0.0006	%	<	0.0006	Acceptable	
CBE	<LOQ	0.0006	%	<	0.0006	Acceptable	
CBDA	<LOQ	0.0006	%	<	0.0006	Acceptable	
CBGA	<LOQ	0.0006	%	<	0.0006	Acceptable	
CBG	<LOQ	0.0006	%	<	0.0006	Acceptable	
CBD	<LOQ	0.0006	%	<	0.0006	Acceptable	
THCV	<LOQ	0.0006	%	<	0.0006	Acceptable	
d8THCV	<LOQ	0.0006	%	<	0.0006	Acceptable	
THCVA	<LOQ	0.0006	%	<	0.0006	Acceptable	
CBN	<LOQ	0.0006	%	<	0.0006	Acceptable	
exo-THC	<LOQ	0.0006	%	<	0.0006	Acceptable	
d9THC	<LOQ	0.0006	%	<	0.0006	Acceptable	
d8THC	<LOQ	0.0006	%	<	0.0006	Acceptable	
CBL	<LOQ	0.0006	%	<	0.0006	Acceptable	
CBC	<LOQ	0.0006	%	<	0.0006	Acceptable	
THCA	<LOQ	0.0006	%	<	0.0006	Acceptable	
CBCA	<LOQ	0.0006	%	<	0.0006	Acceptable	
CBLA	<LOQ	0.0006	%	<	0.0006	Acceptable	
CBT	<LOQ	0.0006	%	<	0.0006	Acceptable	

**Abbreviations**

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

**Units of Measure:**

% - Percent



12423 NE Whitaker Way  
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503-254-1794



**Report Number:** 22-001254/D002.R000  
**Report Date:** 02/10/2022  
**ORELAP#:** OR100028  
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Legacy ID: Worksheet Validated 04/20/2021

**Laboratory Quality Control Results**

J AOAC 2015 V98-6								
Batch ID: 2201092								
Sample Duplicate								
Sample ID: 22-001254-0001								
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	0.258	0.256	0.003	%	0.827	< 20	Acceptable	
CBD	0.489	0.485	0.003	%	0.783	< 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	<LOQ	<LOQ	0.003	%	NA	< 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	
CBC	0.00308	<LOQ	0.003	%	NA	< 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	<LOQ	<LOQ	0.003	%	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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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.