



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

Report Number: 21-010720/D003.R000
Report Date: 09/22/2021
ORELAP#: OR100028
Purchase Order:
Received: 09/14/21 12:33



Customer: NW Natural Goods
Product identity: Hemp - PR 0001
Client/Metric ID: .
Laboratory ID: 21-010720-0001

Summary

Potency:

Analyte per 4g	Result	Limits	Units	Status	
CBC per 4g [†]	0.142		mg/4g		CBD-Total per 4g 19.0 mg/4g
CBD per 4g	19.0		mg/4g		
CBG per 4g [†]	9.92		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 [†]	< 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 0001

Client/Metric ID: .

Sample Date:

Laboratory ID: 21-010720-0001

Evidence of Cooling: No

Temp: 19 °C

Serving Size #1: 4 g

Sample Results

Potency per 4g	Method J AOAC 2015 V98-6 (mod)	Units mg/se	Batch: 2108364	Analyze: 9/17/21 1:44:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 4g [†]	0.142		mg/4g	0.130	
CBC-A per 4g [†]	< LOQ		mg/4g	0.130	
CBC-Total per 4g [†]	< LOQ		mg/4g	0.245	
CBD per 4g	19.0		mg/4g	0.130	
CBD-A per 4g	< LOQ		mg/4g	0.130	
CBD-Total per 4g	19.0		mg/4g	0.245	
CBDV per 4g [†]	< LOQ		mg/4g	0.130	
CBDV-A per 4g [†]	< LOQ		mg/4g	0.130	
CBDV-Total per 4g [†]	< LOQ		mg/4g	0.243	
CBE per 4g [†]	< LOQ		mg/4g	0.130	
CBG per 4g [†]	9.92		mg/4g	0.130	
CBG-A per 4g [†]	< LOQ		mg/4g	0.130	
CBG-Total per 4g [†]	9.92		mg/4g	0.243	
CBL per 4g [†]	< LOQ		mg/4g	0.130	
CBL-A per 4g [†]	< LOQ		mg/4g	0.130	
CBL-Total per 4g [†]	< LOQ		mg/4g	0.245	
CBN per 4g	< LOQ		mg/4g	0.130	
CBT per 4g [†]	< LOQ		mg/4g	0.130	
Δ8-THCV per 4g [†]	< LOQ		mg/4g	0.130	
Δ8-THC per 4g [†]	< LOQ		mg/4g	0.130	
Δ9-THC per 4g	< LOQ		mg/4g	0.130	
exo-THC per 4g [†]	< LOQ		mg/4g	0.130	
THC-A per 4g	< LOQ		mg/4g	0.130	
THC-Total per 4g	< LOQ		mg/4g	0.245	
THCV per 4g [†]	< LOQ		mg/4g	0.130	
THCV-A per 4g [†]	< LOQ		mg/4g	0.130	
THCV-Total per 4g [†]	< LOQ		mg/4g	0.245	
Total Cannabinoids per 4g	29.0		mg/4g		



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Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2108255	09/17/21	AOAC 991.14 (Petrifilm)		X
Total Coliforms	< LOQ		cfu/g	10	2108255	09/17/21	AOAC 991.14 (Petrifilm)		X
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2108256	09/17/21	AOAC 2014.05 (RAPID)		X
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2108256	09/17/21	AOAC 2014.05 (RAPID)		X

Solvents Method Residual Solvents by GC/MS Units µg/g Batch 2108388 Analyze 09/20/21 08:53 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	< LOQ		200		
2-Methylpentane	< LOQ		30.0			2-Propanol (IPA)	< LOQ	5000	200	pass	
2,2-Dimethylbutane	< LOQ		30.0			2,2-Dimethylpropane	< 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	< LOQ	70.0	30.0	pass		m,p-Xylene	< LOQ		200		
Methanol	< LOQ	3000	200	pass		Methylene chloride	< LOQ	600	60.0	pass	
Methylpropane	< 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	< LOQ	2170	600	pass	

Pesticides Method AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 2108466 Analyze 09/21/21 03:55 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		mg/kg	0.00898	2108489	09/21/21	AOAC 2013.06 (mod.)		X
Cadmium	< LOQ		mg/kg	0.00941	2108427	09/20/21	AOAC 2013.06 (mod.)		X
Lead	< LOQ		mg/kg	0.00941	2108427	09/20/21	AOAC 2013.06 (mod.)		X
Mercury	< LOQ		mg/kg	0.00471	2108427	09/20/21	AOAC 2013.06 (mod.)		X

Nutrition

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
Moisture as loss on drying	16.9		g/100g	0.10	2108409	09/20/21	AOAC 925.10 (mod.)		X
Water Activity	0.680		Aw	0.030	2108284	09/15/21	AOAC 978.18		X



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Abbreviations

Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220

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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Fixis Labs
Canrabis Multi-Residue Profile, Limits of Quantitation

Compound	LOQ (mg/kg)	Compound	LOQ (mg/kg)	Compound	LOQ (mg/kg)
Abamectin	0.100	CIPC	1.000	Endrin	0.100
Acephate	0.100	Clethodim	0.050	EPN	0.050
Acequinocyl	0.100	Clethodim Sulfone	0.050	EPIC	0.100
Acetamiprid	0.020	Clethodim Sulfoxide	0.050	Esfenvalerate/ Fenvalerate	0.200
Acetochlor	0.100	Cbfeentazine	0.020	Etaconazole	0.100
Acrinathrin	0.100	Cbmazone	0.020	Ethalfuralin	0.100
Alachlor	0.100	Cbthianidin	0.200	Ethiofencarb	0.050
Aldicarb	0.100	Caumaphos	0.050	Ethion	0.200
Aldicarb sulfoxide	0.100	Crdoxyphos	0.020	Ethirimol	0.100
Aldoxycarb (Aldicarb-sulfone)	0.100	Cyazazine	0.020	Ethofumesate	0.050
Aldrin	0.100	Cyazofenphos	0.020	Ethoprophos	0.020
Ametoctradin	0.020	Cyatranylprole	0.050	Etofenprox	0.020
Ametryn	0.500	Cyazofamid	0.020	Etoxazole	0.020
Aspon	0.100	Cydoate	0.100	Etridiazole	0.100
Asulam	0.100	Cyfluthrin	0.200	Etrinfos	0.020
Atrazine	0.100	Cyhalothrin, lambda	0.200	Famoxadone	0.200
Atrazine-desethyl	0.100	Cymoxanil	0.050	Famphur	0.100
Azinphos-ethyl	0.020	Cypermethrin	0.200	Fenamidone	0.020
Azinphos-methyl	0.020	Cyprodinil	0.100	Fenamiphos	0.020
Azoxystrobin	0.020	Dadhal	0.100	Fenamiphos sulfone	0.020
Beralaxyl	0.020	Damhozide	0.100	Fenamiphos sulfoxide	0.020
Berdiocarb	0.020	DCPMU	0.050	Fenazaquin	0.100
Berfluralin	0.100	DD, qp'-	0.100	Fenbuconazole	0.100
Berxacor	0.050	DD, p,p'-	0.100	Fenchlorphos	0.100
Bersulide	0.050	DDE, o,p'-	0.100	Fenchlorphos-oxon	0.100
BHC alpha isomer	0.100	DDE, p,p'-	0.100	Fenhexamid	0.100
BHC beta isomer	0.100	DDT, o,p'-	0.100	Fenitrothion	0.100
BHC delta isomer	0.500	DDT, p,p'-	0.100	Fenobucarb	0.050
Bifenazate	0.020	DEF (Tribufos)	0.100	Fenoxycarb	0.020
Bifenthrin	0.020	Deltamethrin	0.100	Fenpropathrin	0.050
Boscalid	0.020	Desmedipham	0.100	Fenpyroximate	0.020
Bromophos-ethyl	0.100	Diallate	0.100	Fenson	0.100
Bromophos-methyl	0.200	Diazinon	0.020	Fensulfthion	0.020
Bromopropylate	0.100	Diazoxon	0.100	Fensulfthion oxon	0.020
Bromuconazole	0.100	Dichlobenil	0.100	Fensulfthion sulfone	0.100
Bupirimate	0.020	Dichlofluanid	0.100	Fensulfthion-oxon-sulfone	0.020
Buprofezin	0.050	Dichlorvos	0.100	Fenthion	0.050
Butachlor	0.500	Diclobutrazol	0.050	Fenthion oxon	0.020
Butralin	0.200	Dicofol	0.100	Fenthion oxon sulfone	0.100
Butylate	0.100	Dicrotophos	0.050	Fenthion oxon sulfoxide	0.020
Cadusafos	0.020	Dieldrin	0.100	Fenthion sulfoxide	0.100
Captaf	1.000	Diethofencarb	0.020	Fenthion sulfone	0.050
Cartaryl	0.050	Diethyltoluamide (DEET)	0.050	Fenuron	0.020
Cartendazim	0.100	Difenoconazole	0.100	Fipronil	0.100
Cartofuran	0.020	Dimethenamid	0.050	Fonicamid	0.100
Cartophenothion	0.100	Dimethoate	0.050	Fluchloralin	0.100
Cartoxin	0.020	Dimethomorph	0.020	Flucythrinate	0.100
Carfentrazone-ethyl	0.100	Diniconazole	0.200	Fludioxonil	0.200
Chlorantraniliprole	0.020	Dinotefuran	0.200	Flufenacet	0.020
Chordane, cis-	0.200	Dioxathion	0.100	Rumioxazin	0.100
Chordane, trans-	0.200	Diphenamid	0.020	Ruometuron	0.020
Chorfenapyr	0.500	Diphenylamine	0.100	Ruopicolide	0.050
Chorfenoson	0.200	Disulfoton	0.100	Ruopyram	0.020
Chorfenvinphos	0.050	Disulfoton sulfone	0.100	Ruoxastrobin	0.050
Chlorobenzilate	0.100	Disulfoton sulfoxide	0.100	Rupyradifurone	0.020
Chloroneb	0.200	Diuron	0.050	Fluridone	0.100
Chlorpyrifos	0.050	Edifenphos	0.050	Rusilazole	0.020
Chlorpyrifos-methyl	0.200	Endosulfan apha	0.200	Rutolanil	0.020
		Endosulfan beta	0.200	Rutriafol	0.020
		Endosulfan sulfate	0.100	Ruvalinate, tau-	0.100
				Ruxapyroxad	0.020



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Fixis Labs
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	Proparil	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	Prathiosfos	0.100
Hexythiazox	0.020	Norflurazon	0.050	Pyraclostrobin	0.020
Imazali	0.100	Omethoate	0.100	Pyrazophos	0.050
Imidacoprid	0.100	O-Phenylphenol	0.100	Pyrethrins	0.050
Indaziflam	0.020	Oxadixyl	0.100	Pyridaben	0.020
Indoxacarb	0.020	Oxaryl	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	Padbutrazol	0.050	Pyroxulam	0.020
Isofenphos	0.050	Paraoxon-ethyl	0.020	Quinalphos	0.050
Isofenphos-methyl	0.020	Paraoxon methyl	0.100	Quinoxifen	0.050
Isofenphos oxon	0.050	Parathion ethyl	0.100	Quintozene (PQNB)	0.200
Isoprocarb	0.020	Parathion methyl	0.200	Resmethrin	0.050
Isopropalin	0.200	Perconazole	0.050	Rotenone	0.050
Isoprothiolane	0.050	Perdimethalin	0.050	S421	0.100
Isoproturon	0.050	Perflufen	0.020	Smaizine	0.100
Isoxaben	0.050	Pertachloroaniline	0.100	Smectryl	0.200
Isoxaflutole	0.050	Pertachloroanisole	0.100	Spinetoram	0.020
Kresoxim-methyl	0.050	Pentachlorobenzene (PCB)	0.100	Spinosad	0.050
Lactofen	0.500	Pentachlorothiobenzene (PCTA)	0.100	Spirodiclofen	0.100
Lenacl	0.100	Perthiopyrad	0.020	Spiromesifen	0.050
Lindane (gammaBHC)	0.100	Permethrin	0.050	Spirotetramat	0.050
Linuron	0.020	Peithane	0.100	Spiroxamine	0.020
Malaaxon	0.050	Phenmedipharm	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
Methacifos	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	Tetradfon	0.200
Methoxychlor	0.100	Procyimidone	0.100	Tetramethrin	0.050
Methoxyfenozide	0.020	Prdenofos	0.100	Tetrasul	0.100
Metobromuron	0.050	Prfluralin	0.100	Thiabendazole	0.100
Metolachlor	0.100	Promecarb	0.050	Thiabendazole, 5-hydroxy	0.100
Metolcarb	0.050	Prometon	0.100	Thiadoprid	0.050
Metrafenone	0.050	Prometryn	0.020	Thiamethoxam	0.100
Metribuzin	0.100	Propadchlor	0.020	Thiobencarb	0.050
Mevinphos	0.100			Thiodicarb	0.050
				Thiophanate-methyl	0.050



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PIXIS Labs
 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	Tolyfluarid	0.050	Triticonazole	0.050
Tralkoxydim	0.100	Tridiphane	0.500	Vindozolin	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.