



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



Report Number: 22-003309/D002.R000
Report Date: 03/29/2022
ORELAP#: OR100028
Purchase Order:
Received: 03/23/22 11:46

Customer: NW Natural Goods
Product identity: HEMP - PR 0011
Client/Metric ID: .
Laboratory ID: 22-003309-0001

Summary

Potency:

Analyte per 4g	Result	Limits	Units	Status	
CBC per 4g [†]	0.243		mg/4g		CBD-Total per 4g 20.6 mg/4g
CBD per 4g	20.6		mg/4g		
CBG per 4g [†]	11.1		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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 503-254-1794



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Customer: NW Natural Goods

Product identity: HEMP - PR 0011

Client/Metric ID: .

Sample Date:

Laboratory ID: 22-003309-0001

Evidence of Cooling: No

Temp: 19.2 °C

Relinquished by: Ramos

Serving Size #1: 4 g

Sample Results

Potency per 4g	Method J AOAC 2015 V98-6 (mod)	Units mg/se	Batch: 2202609	Analyze: 3/25/22 9:56:00 AM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 4g [†]	0.243		mg/4g	0.131	
CBC-A per 4g [†]	< LOQ		mg/4g	0.131	
CBC-Total per 4g [†]	< LOQ		mg/4g	0.245	
CBD per 4g	20.6		mg/4g	0.131	
CBD-A per 4g	< LOQ		mg/4g	0.131	
CBD-Total per 4g	20.6		mg/4g	0.245	
CBDV per 4g [†]	< LOQ		mg/4g	0.131	
CBDV-A per 4g [†]	< LOQ		mg/4g	0.131	
CBDV-Total per 4g [†]	< LOQ		mg/4g	0.244	
CBE per 4g [†]	< LOQ		mg/4g	0.131	
CBG per 4g [†]	11.1		mg/4g	0.131	
CBG-A per 4g [†]	< LOQ		mg/4g	0.131	
CBG-Total per 4g [†]	11.1		mg/4g	0.244	
CBL per 4g [†]	< LOQ		mg/4g	0.131	
CBL-A per 4g [†]	< LOQ		mg/4g	0.131	
CBL-Total per 4g [†]	< LOQ		mg/4g	0.245	
CBN per 4g	< LOQ		mg/4g	0.131	
CBT per 4g [†]	< LOQ		mg/4g	0.131	
Δ8-THCV per 4g [†]	< LOQ		mg/4g	0.131	
Δ8-THC per 4g [†]	< LOQ		mg/4g	0.131	
Δ9-THC per 4g	< LOQ		mg/4g	0.131	
exo-THC per 4g [†]	< LOQ		mg/4g	0.131	
THC-A per 4g	< LOQ		mg/4g	0.131	
THC-Total per 4g	< LOQ		mg/4g	0.245	
THCV per 4g [†]	< LOQ		mg/4g	0.131	
THCV-A per 4g [†]	< LOQ		mg/4g	0.131	
THCV-Total per 4g [†]	< LOQ		mg/4g	0.245	
Total Cannabinoids per 4g	31.9		mg/4g		



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Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2202552	03/26/22	AOAC 991.14 (Petrifilm)		X
Total Coliforms	< LOQ		cfu/g	10	2202552	03/26/22	AOAC 991.14 (Petrifilm)		X
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2202553	03/27/22	AOAC 2014.05 (RAPID)		X
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2202553	03/27/22	AOAC 2014.05 (RAPID)		X

Solvents Method Residual Solvents by GC/MS Units µg/g Batch 2202627 Analyze 03/25/22 03:25 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) Units mg/kg Batch 2202699 Analyze 03/29/22 11:19 AM

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	0.0181	2202715	03/29/22	AOAC 2013.06 (mod.)	pass	X
Cadmium	< LOQ	0.200	mg/kg	0.0181	2202715	03/29/22	AOAC 2013.06 (mod.)	pass	X
Lead	< LOQ	0.500	mg/kg	0.0181	2202715	03/29/22	AOAC 2013.06 (mod.)	pass	X
Mercury	< LOQ	0.100	mg/kg	0.00907	2202715	03/29/22	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	2202703	03/28/22	AOAC 925.10 (mod.)		X
Water Activity	0.696		Aw	0.030	2202572	03/24/22	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 = 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

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	Cbthodim	0.050	Endrin	0.100
Acephate	0.100	Cbthodim Sulfone	0.050	EPN	0.050
Acequinocyl	0.100	Cbthodim Sulfoxide	0.050	EPTC	0.100
Acetamiprid	0.020	Cbfbentazone	0.020	Esfenvalerate/ Fenvalerate	0.200
Acetochlor	0.100	Cbmazone	0.020	Etaconazole	0.100
Acrinathrin	0.100	Cbthianidin	0.200	Ethalfuralin	0.100
Alachlor	0.100	Cumaphos	0.050	Ethiofencarb	0.050
Aldicarb	0.100	Crdoxyphos	0.020	Ethion	0.200
Aldicarb sulfoxide	0.100	Cyarazine	0.020	Ethirimol	0.100
Aldoxycarb (Aldicarb-sulfone)	0.100	Cyarofenphos	0.020	Ethofumesate	0.050
Aldrin	0.100	Cyatranylprole	0.050	Ethoprophos	0.020
Ametoctradin	0.020	Cyazfamid	0.020	Etofenprox	0.020
Ametryn	0.500	Cydoate	0.100	Etoxazole	0.020
Aspon	0.100	Cyfluthrin	0.200	Etridiazole	0.100
Asulam	0.100	Cyfluthrin, lambda	0.200	Etrinfos	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	Dadhal	0.100	Fenamiphos	0.020
Azoxystrobin	0.020	Damhozide	0.100	Fenamiphos sulfone	0.020
Beralaxyl	0.020	DCPMU	0.050	Fenamiphos sulfoxide	0.020
Bendiocarb	0.020	DDD, op'-	0.100	Fenazaquin	0.100
Berfluralin	0.100	DDD, p,p'-	0.100	Fenbuconazole	0.100
Berxacor	0.050	DDE, o,p'-	0.100	Fenchlorphos	0.100
Bersulide	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	Detamethrin	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
Carbendiazim	0.100	Dimethoate	0.050	Flucythrinate	0.100
Carbendiazim	0.020	Dimethomorph	0.050	Fludioxonil	0.200
Carbophenothion	0.200	Diniconazole	0.200	Flufenacet	0.020
Carbozin	0.020	Dinotefuran	0.200	Fumioxazin	0.100
Carfentrazone-ethyl	0.100	Dioxathion	0.100	Fuometuron	0.020
Chlorantranilprole	0.020	Diphenamid	0.020	Fluopicolide	0.050
Chordane, cis-	0.200	Diphenylamine	0.100	Fluopyram	0.020
Chordane, trans-	0.200	Disulfoton	0.100	Fluoxastrobin	0.050
Chlorfenapyr	0.500	Disulfoton sulfone	0.100	Flupyradifurone	0.020
Chlorfenson	0.200	Disulfoton sulfoxide	0.100	Fluridone	0.100
Chlorfenvinphos	0.050	Diuron	0.050	Flusilazole	0.020
Chlorobenzilate	0.100	Edifenphos	0.050	Flutolanil	0.020
Chloroneb	0.200	Endosulfan alpha	0.200	Flutriafol	0.020
Chlorpyrifos	0.050	Endosulfan beta	0.200	Fluvalinate, tau-	0.100
Chlorpyrifos-methyl	0.200	Endosulfan sulfate	0.100	Fluxapyroxad	0.020
CIR	1.000				



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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	Prpamacarb	0.050
Fonofos	0.100	MGK 264	0.020	Prparil	0.050
Forchlorfenuron	0.050	Mirex	0.100	Prpargite	0.050
Formetanate	0.050	Molinate	0.050	Prpazine	0.020
Furathiocarb	0.020	Monocrotophos	0.100	Prpzetamphos	0.050
Heptachlor	0.100	Monolinuron	0.020	Prppham	0.050
Heptachlor epoxide	0.100	Myclobutanil	0.050	Prpiconazole	0.050
Heptenophos	0.100	Naled	0.100	Prppoxur	0.050
Hexachlorobenzene	0.100	Napropamide	0.050	Prpoxycarbazone Na	0.050
Hexaconazole	0.100	Neburon	0.020	Prppyamide	0.050
Hexazinone	0.100	Nitrapyrin	0.100	Prthiofos	0.100
Hexythiazox	0.020	Norflurazon	0.050	Pyraclostrobin	0.020
Imazalil	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	Oxamyl	0.100	Pyridafol	0.100
Iprobenfos	0.100	Oxamyl-oxime	0.100	Pyridate	0.020
Iprodione	0.100	Oxychloridane	0.100	Pyrimetharil	0.050
Isobenzan	0.100	Oxydemeton-Methyl	0.100	Pyriproxifen	0.020
Isocarbophos	0.500	Oxythioquinox	0.200	Pyroxasulfone	0.020
Isodrin	0.100	Padlobutrazol	0.050	Pyroxulam	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 (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	Smaazine	0.100
Isoxaben	0.050	Pertachloroaniline	0.100	Smetryn	0.200
Isoxaflutole	0.050	Pertachloroanisole	0.100	Spinetoram	0.020
Kresoxim-methyl	0.050	Pentachlorobenzene (PCB)	0.100	Spinosad	0.050
Ladofen	0.500	Pentachlorothioanisole (PCTA)	0.100	Spirodiclofen	0.100
Lenadi	0.100	Perthiopyrad	0.020	Spiromesifen	0.050
Lindane (gammaBHC)	0.100	Permethrin	0.050	Spirotetramat	0.050
Linuron	0.020	Perthane	0.100	Spiroxamine	0.020
Malaoxon	0.050	Phenmedipham	0.050	Sulfotep	0.050
Malathion	0.050	Phenthoate	0.050	Sulfoxaflof	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	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	Prailethrin	0.100	Tetraconazole	0.050
Methomyl	0.100	Prochloraz	0.020	Tetradfon	0.200
Methoxychlor	0.100	Proxymidone	0.100	Tetramethrin	0.050
Methoxyfenozide	0.020	Prfenofos	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
Metraferone	0.050	Prometryn	0.020	Thiamethoxam	0.100
Metribuzin	0.100	Prpadhlor	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	Tolyfluarid	0.050	Triticonazole	0.050
Tralkoxydim	0.100	Tridiphane	0.500	Vindozolin	0.100
Triadimefon	0.050	Triflumizde	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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12423 NE Whitaker Way Portland OR 97230 p.503-254-1794

Cannabis Chain of Custody Record

ORELAP ID: OR100028

Company: NW Natural Goods		Analysis Requested											Purchase Order Number:						
Contact: Annie Nair		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	OPEN MARKET			Project Number:		
Address: 11791 SE HWY 212, Clackamas, OR 97015														CLPIV			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: 330-1058115IHH																	Matrix	Weight	Serving size for edibles
Field ID	Date/Time Collected																		
HEMP - PR 0011	3/23/22	X	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	3/23/22	1035	<i>[Signature]</i>	3.23.22	1035	Client Alias:
<input type="checkbox"/> Rush (3-4 day) (1.5x Standard)	<i>[Signature]</i>	3.23.22	1106	<i>[Signature]</i>	3/23/22	1146	Order Number:
<input type="checkbox"/> Priority Rush (2 day) (2x Standard)							Proper Container
							Sample Condition
							Temperature: 19.2
							Shipped Via:
							Evidence of cooling: <input 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 Page 1 of 2



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

Laboratory Quality Control Results

JAOAC2015 V98-6							
Batch ID: 2202609							
Laboratory Control Sample							
Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	0.0338	0.033333	%	101	80.0 - 120	Acceptable	
CBDV	0.0361	0.033333	%	108	80.0 - 120	Acceptable	
CBE	0.0344	0.033333	%	103	80.0 - 120	Acceptable	
CBD A	0.0340	0.033333	%	102	80.0 - 120	Acceptable	
CBGA	0.0329	0.033333	%	98.8	80.0 - 120	Acceptable	
CBG	0.0332	0.033333	%	99.7	80.0 - 120	Acceptable	
CBD	0.0339	0.033333	%	102	80.0 - 120	Acceptable	
THCV	0.0343	0.033333	%	103	80.0 - 120	Acceptable	
d8THCV	0.0350	0.033333	%	105	80.0 - 120	Acceptable	
THCVA	0.0324	0.033333	%	97.1	80.0 - 120	Acceptable	
CBN	0.0353	0.033333	%	106	80.0 - 120	Acceptable	
exo-THC	0.0320	0.033333	%	96.1	80.0 - 120	Acceptable	
d9THC	0.0339	0.033333	%	102	80.0 - 120	Acceptable	
d8THC	0.0354	0.033333	%	106	80.0 - 120	Acceptable	
CBL	0.0312	0.033333	%	93.6	80.0 - 120	Acceptable	
CB	0.0349	0.033333	%	105	80.0 - 120	Acceptable	
THCA	0.0337	0.033333	%	101	80.0 - 120	Acceptable	
CBCA	0.0328	0.033333	%	98.5	80.0 - 120	Acceptable	
CBLA	0.0330	0.033333	%	98.9	80.0 - 120	Acceptable	
CBT	0.0324	0.033333	%	97.3	80.0 - 120	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	< LOQ	0.003	%	< 0.003	Acceptable	
CBDV	< LOQ	0.003	%	< 0.003	Acceptable	
CBE	< LOQ	0.003	%	< 0.003	Acceptable	
CBD A	< LOQ	0.003	%	< 0.003	Acceptable	
CBGA	< LOQ	0.003	%	< 0.003	Acceptable	
CBG	< LOQ	0.003	%	< 0.003	Acceptable	
CBD	< LOQ	0.003	%	< 0.003	Acceptable	
THCV	< LOQ	0.003	%	< 0.003	Acceptable	
d8THCV	< LOQ	0.003	%	< 0.003	Acceptable	
THCVA	< LOQ	0.003	%	< 0.003	Acceptable	
CBN	< LOQ	0.003	%	< 0.003	Acceptable	
exo-THC	< LOQ	0.003	%	< 0.003	Acceptable	
d9THC	< LOQ	0.003	%	< 0.003	Acceptable	
d8THC	< LOQ	0.003	%	< 0.003	Acceptable	
CBL	< LOQ	0.003	%	< 0.003	Acceptable	
CB	< LOQ	0.003	%	< 0.003	Acceptable	
THCA	< LOQ	0.003	%	< 0.003	Acceptable	
CBCA	< LOQ	0.003	%	< 0.003	Acceptable	
CBLA	< LOQ	0.003	%	< 0.003	Acceptable	
CBT	< LOQ	0.003	%	< 0.003	Acceptable	

Abbreviations

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

Units of Measure:

%- Percent



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



Report Number: 22-003309/D002.R000
Report Date: 03/29/2022
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Received: 03/23/22 11:46

Revision: 1 Document ID: 7148
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Laboratory Quality Control Results

JAOAC2015 V98-6								
Batch ID: 2202609								
Sample Duplicate								
Sample ID: 22-002703-0001-01								
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LQ	<LQ	0.003	%	NA	< 20	Acceptable	
CBDV	<LQ	<LQ	0.003	%	NA	< 20	Acceptable	
CBE	<LQ	<LQ	0.003	%	NA	< 20	Acceptable	
CBD	0.0518	0.0517	0.003	%	0.0793	< 20	Acceptable	
CBGA	<LQ	<LQ	0.003	%	NA	< 20	Acceptable	
CBG	0.00491	0.00468	0.003	%	4.70	< 20	Acceptable	
CBD	0.336	0.335	0.003	%	0.153	< 20	Acceptable	
THCV	<LQ	<LQ	0.003	%	NA	< 20	Acceptable	
d8THCV	<LQ	<LQ	0.003	%	NA	< 20	Acceptable	
THCVA	<LQ	<LQ	0.003	%	NA	< 20	Acceptable	
CBN	0.00374	0.00371	0.003	%	0.758	< 20	Acceptable	
exo-THC	<LQ	<LQ	0.003	%	NA	< 20	Acceptable	
d9THC	0.0419	0.0423	0.003	%	1.07	< 20	Acceptable	
d8THC	0.0534	0.0502	0.003	%	6.03	< 20	Acceptable	
CBL	<LQ	<LQ	0.003	%	NA	< 20	Acceptable	
CBC	0.00677	0.00693	0.003	%	2.34	< 20	Acceptable	
THCA	<LQ	<LQ	0.003	%	NA	< 20	Acceptable	
CBCA	<LQ	<LQ	0.003	%	NA	< 20	Acceptable	
CBLA	<LQ	<LQ	0.003	%	NA	< 20	Acceptable	
CBT	0.00989	0.0101	0.003	%	1.86	< 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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Laboratory Quality Control Results

Residual Solvents				Batch ID: 2202627					
Method Blank		Laboratory Control Sample							
Analyte	Result	LOQ	Notes	Result	Spike	Units	%Rec	Limits	Notes
Propane	ND	< 200		574.6415	572	µg/g	100.5	60	120
Isobutane	ND	< 200		799.351	731	µg/g	109.4	60	120
Butane	ND	< 200		807.4205	731	µg/g	110.5	60	120
2,2-Dimethylpropane	ND	< 200		868.5115	936	µg/g	92.8	60	120
Methanol	ND	< 200		1715.0165	1620	µg/g	105.9	60	120
Ethylene Oxide	ND	< 30		58.1675	56.2	µg/g	103.5	60	120
2-Methylbutane	ND	< 200		1799.3205	1620	µg/g	111.1	60	120
Pentane	ND	< 200		1780.9155	1610	µg/g	110.6	60	120
Ethanol	ND	< 200		1922.63	1630	µg/g	118.0	70	130
Ethyl Ether	ND	< 200		1706.662	1620	µg/g	105.3	60	120
2,2-Dimethylbutane	ND	< 30		148.4905	174	µg/g	85.3	60	120
Acetone	ND	< 200		1573.2125	1650	µg/g	95.3	60	120
2-Propanol	ND	< 200		1715.4935	1610	µg/g	106.6	60	120
Ethyl Formate	ND	< 500		1678.0105	1600	µg/g	104.9	70	130
Acetonitrile	ND	< 100		555.93	498	µg/g	111.6	60	120
Methyl Acetate	ND	< 500		1603.435	1610	µg/g	99.6	70	130
2,3-Dimethylbutane	ND	< 30		179.208	176	µg/g	101.8	60	120
Dichloromethane	ND	< 60		523.6605	510	µg/g	102.7	60	120
2-Methylpentane	ND	< 30		174.6495	176	µg/g	99.2	60	120
MTBE	ND	< 500		1748.179	1600	µg/g	109.3	70	130
3-Methylpentane	ND	< 30		200.059	175	µg/g	114.3	60	120
Hexane	ND	< 30		191.864	177	µg/g	108.4	60	120
1-Propanol	ND	< 500		1598.174	1610	µg/g	99.3	70	130
Methyl ethyl ketone	ND	< 500		1571.3135	1600	µg/g	98.2	70	130
Ethyl acetate	ND	< 200		1795.5965	1630	µg/g	110.2	60	120
2-Butanol	ND	< 200		1714.9585	1620	µg/g	105.9	60	120
Tetrahydrofuran	ND	< 100		529.64	500	µg/g	105.9	60	120
Cyclohexane	ND	< 200		1627.732	1620	µg/g	100.5	60	120
2-methyl-1-propanol	ND	< 500		1798.4645	1620	µg/g	111.0	70	130
Benzene	ND	< 1		5.4865	5.32	µg/g	103.1	60	120
Isopropyl Acetate	ND	< 200		1825.9255	1620	µg/g	112.7	60	120
Heptane	ND	< 200		1887.536	1770	µg/g	106.6	60	120
1-Butanol	ND	< 500		1807.015	1600	µg/g	112.9	70	130
Propyl Acetate	ND	< 500		1605.196	1600	µg/g	100.3	70	130
1,4-Dioxane	ND	< 100		507.548	504	µg/g	100.7	60	120
2-Ethoxyethanol	ND	< 30		213.39	181	µg/g	117.9	60	120
Methylisobutylketone	ND	< 500		1743.272	1610	µg/g	108.3	70	130
3-Methyl-1-butanol	ND	< 500		1744.097	1610	µg/g	108.3	70	130
Ethylene Glycol	ND	< 200		555.701	494	µg/g	112.5	60	120
Toluene	ND	< 200		509.577	491	µg/g	103.8	60	120
Isobutyl Acetate	ND	< 500		1554.662	1600	µg/g	97.2	70	130
1-Pentanol	ND	< 500		1625.4595	1610	µg/g	101.0	70	130
Butyl Acetate	ND	< 500		1833.53	1610	µg/g	113.9	70	130
Ethylbenzene	ND	< 200		947.302	973	µg/g	97.4	60	120
m,p-Xylene	ND	< 200		852.0155	996	µg/g	85.5	60	120
o-Xylene	ND	< 200		998.5725	973	µg/g	102.6	60	120
Cumene	ND	< 30		168.104	170	µg/g	98.9	60	120
Anisole	ND	< 500		1996.0795	1610	µg/g	124.0	70	130
DMSO	ND	< 500		1958.578	1630	µg/g	120.2	70	130
1,2-dimethoxyethane	ND	< 50		166.081	164	µg/g	101.3	70	130
Triethylamine	ND	< 500		1694.2395	1600	µg/g	105.9	70	130
N,N-dimethylformamide	ND	< 150		557.024	497	µg/g	112.1	70	130
N,N-dimethylacetamide	ND	< 150		580.13	498	µg/g	116.5	70	130
Pyridine	ND	< 50		190.191	180	µg/g	105.7	70	130
1,2-Dichloroethane	ND	< 1		1.1595	1	µg/g	116.0	70	130
Chloroform	ND	< 1		1.1005	1	µg/g	110.1	70	130
Trichloroethylene	ND	< 1		1.075	1	µg/g	107.5	70	130



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503-254-1794



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CC - Simple Duplicate Sample ID: 22-003201-0001

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	
MIBK	ND	ND	500	µg/g	0.0	< 20	Acceptable	
3-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Hexane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
1-Propanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Methyl ethyl ketone	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Ethyl acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Butanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Tetrahydrofuran	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Cyclohexane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-methyl-1-propanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Benzene	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Isopropyl Acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Heptane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
1-Butanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Propyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
1,4-Dioxane	ND	ND	100	µg/g	0.0	< 20	Acceptable	
2-Ethoxyethanol	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Methylisobutylketone	ND	ND	500	µg/g	0.0	< 20	Acceptable	
3-Methyl-1-butanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Ethylene Glycol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Toluene	ND	ND	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	

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



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 Portland, OR 97230
 503-254-1794



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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.