



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



Report Number: 22-000029/D004.R000
Report Date: 01/11/2022
ORELAP#: OR100028
Purchase Order:
Received: 01/04/22 14:09

Customer: NW Natural Goods
Product identity: HEMP-PR 0007
Client/Metric ID: .
Laboratory ID: 22-000029-0001

Summary

Potency:

Analyte per 4g	Result	Limits	Units	Status	
CBD per 4g	20.0		mg/4g		CBD-Total per 4g 20.0 mg/4g
CBG per 4g [†]	9.84		mg/4g		
CBT per 4g [†]	0.628		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 0007

Client/Metric ID: .

Sample Date:

Laboratory ID: 22-000029-0001

Evidence of Cooling: No

Temp: 16.2 °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: 2200152	Analyze: 1/7/22 12:05:00 AM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 4g [†]	< LOQ		mg/4g	0.126	
CBC-A per 4g [†]	< LOQ		mg/4g	0.126	
CBC-Total per 4g [†]	< LOQ		mg/4g	0.236	
CBD per 4g	20.0		mg/4g	0.126	
CBD-A per 4g	< LOQ		mg/4g	0.126	
CBD-Total per 4g	20.0		mg/4g	0.236	
CBDV per 4g [†]	< LOQ		mg/4g	0.126	
CBDV-A per 4g [†]	< LOQ		mg/4g	0.126	
CBDV-Total per 4g [†]	< LOQ		mg/4g	0.235	
CBE per 4g [†]	< LOQ		mg/4g	0.126	
CBG per 4g [†]	9.84		mg/4g	0.126	
CBG-A per 4g [†]	< LOQ		mg/4g	0.126	
CBG-Total per 4g [†]	9.84		mg/4g	0.235	
CBL per 4g [†]	< LOQ		mg/4g	0.126	
CBL-A per 4g [†]	< LOQ		mg/4g	0.126	
CBL-Total per 4g [†]	< LOQ		mg/4g	0.236	
CBN per 4g	< LOQ		mg/4g	0.126	
CBT per 4g [†]	0.628		mg/4g	0.126	
Δ8-THCV per 4g [†]	< LOQ		mg/4g	0.126	
Δ8-THC per 4g [†]	< LOQ		mg/4g	0.126	
Δ9-THC per 4g	< LOQ		mg/4g	0.126	
exo-THC per 4g [†]	< LOQ		mg/4g	0.126	
THC-A per 4g	< LOQ		mg/4g	0.126	
THC-Total per 4g	< LOQ		mg/4g	0.236	
THCV per 4g [†]	< LOQ		mg/4g	0.126	
THCV-A per 4g [†]	< LOQ		mg/4g	0.126	
THCV-Total per 4g [†]	< LOQ		mg/4g	0.236	
Total Cannabinoids per 4g	30.5		mg/4g		



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Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2200059	01/07/22	AOAC 991.14 (Petrifilm)		X
Total Coliforms	< LOQ		cfu/g	10	2200059	01/07/22	AOAC 991.14 (Petrifilm)		X
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2200060	01/08/22	AOAC 2014.05 (RAPID)		X
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2200060	01/08/22	AOAC 2014.05 (RAPID)		X

Solvents Method Residual Solvents by GC/MS Units µg/g Batch 2200164 Analyze 01/10/22 08:38 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 2200231 Analyze 01/11/22 10:10 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	0.05000	2200116	01/06/22	AOAC 2013.06 (mod.)	pass	X
Cadmium	< LOQ	0.200	mg/kg	0.00945	2200116	01/06/22	AOAC 2013.06 (mod.)	pass	X
Lead	< LOQ	0.500	mg/kg	0.00945	2200116	01/06/22	AOAC 2013.06 (mod.)	pass	X
Mercury	< LOQ	0.100	mg/kg	0.00473	2200116	01/06/22	AOAC 2013.06 (mod.)	pass	X

Nutrition

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
Moisture (Loss on Drying)	18.6		g/100g	0.10	2200253	01/10/22	AOAC 925.10 (mod.)		X
Water Activity	0.705		Aw	0.030	2200123	01/06/22	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 Chain of Custody Record

ORELAP ID: OR100028

Company: NW Natural Goods		Analysis Requested											Purchase Order Number:				
Contact: Isaac Velasquez		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														Project Name:			
Email: isaacv@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: 818-644-9479 Fax:														Other:			
Processor's License: 330-1058115IHH														Matrix	Weight	Serving size for edibles	Comments/Metric ID
Field ID	Date/Time Collected																
HEMP - PR 0007	1/4/22		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)	Isaac Velasquez	1/4/22	1005	<i>[Signature]</i>	1.4.22	1005	Client Alias:
<input type="checkbox"/> Rush (3-4 day) (1.5x Standard)	<i>[Signature]</i>	1.4.22	1118	<i>[Signature]</i>	1/4/22	1409	Order Number:
<input type="checkbox"/> Priority Rush (2 day) (2x Standard)							Proper Container
							Sample Condition
							Temperature: 16.2
							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 www.pixislabs.com
Effective 11/8/2018 Revised 11/8/2018 Page 1 of 2

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



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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
Acetamiprid	0.020	Cbthodim Sulfoxide	0.050	EPTC	0.100
Acetochlor	0.100	Cbfentazine	0.020	Esfenvalerate/ Fenvalerate	0.200
Acrinathrin	0.100	Cbmazone	0.020	Etaconazole	0.100
Alachlor	0.100	Cbthiaridin	0.200	Ethalfuralin	0.100
Aldicarb	0.100	Caumaphos	0.050	Ethiofencarb	0.050
Aldicarb sulfoxide	0.100	Crctoxyphos	0.020	Ethion	0.200
Aldoxy carb (Aldicarb-sulfone)	0.100	Cyarazine	0.020	Ethirimol	0.100
Aldrin	0.100	Cyazofenphos	0.020	Ethofumesate	0.050
Ametoctradin	0.020	Cyatraniiprole	0.050	Ethoprophos	0.020
Ametryn	0.500	Cyazfamid	0.020	Etofenprox	0.020
Aspon	0.100	Cyboate	0.100	Etoxazole	0.020
Asulam	0.100	Cyfluthrin	0.200	Etridiazole	0.100
Atrazine	0.100	Cyhalothrin, lambda	0.200	Etrimfos	0.020
Atrazine-desethyl	0.100	Cymoxanil	0.050	Famoxadone	0.200
Azinphos-ethyl	0.020	Cypermethrin	0.200	Famphur	0.100
Azinphos-methyl	0.020	Cyprodinil	0.100	Fenamidone	0.020
Azoxystrobin	0.020	Dadthal	0.100	Fenamiphos	0.020
Beralaxyl	0.020	Damnozide	0.100	Fenamiphos sulfone	0.020
Bertholcarb	0.020	DCPMU	0.050	Fenamiphos sulfoxide	0.020
Berfluralin	0.100	DDD, op'-	0.100	Fenazaquin	0.100
Berxacor	0.050	DDD, p,p'-	0.100	Fenbuconazole	0.100
Bersulide	0.050	DDE, o,p'-	0.100	Fenclorophos	0.100
BHC alpha isomer	0.100	DDE, p,p'-	0.100	Fenclorophos-oxon	0.100
BHC beta isomer	0.100	DDT, o,p'-	0.100	Fenhexamid	0.100
BHC delta isomer	0.500	DDT, p,p'-	0.100	Fenitrothion	0.100
Bifenazate	0.020	DEF (Tribufos)	0.100	Fenobucarb	0.050
Bifenthrin	0.020	Deltamethrin	0.100	Fenoxycarb	0.020
Boscalid	0.020	Desmedipham	0.100	Fenpropathrin	0.050
Bromophos-ethyl	0.100	Diallate	0.100	Fenpyroximate	0.020
Bromophos-methyl	0.200	Diazinon	0.020	Fenson	0.100
Bromopropylate	0.100	Diazoxon	0.100	Fensulfthion	0.020
Bromuconazole	0.100	Dichlobenil	0.100	Fensulfthion oxon	0.020
Bupirimate	0.020	Dichlofluanid	0.100	Fensulfthion sulfone	0.100
Buprofezin	0.050	Dichlorvos	0.100	Fensulfthion-oxon-sulfone	0.020
Butachlor	0.500	Diclobutrazol	0.050	Fenthion	0.050
Butralin	0.200	Dicofol	0.100	Fenthion oxon	0.020
Butylate	0.100	Dicrotophos	0.050	Fenthion oxon sulfone	0.100
Cadisafos	0.020	Dieldrin	0.100	Fenthion sulfone	0.050
Captan	1.000	Diethofencarb	0.020	Fenuron	0.020
Carbaryl	0.050	Diethyltoluamide (DEET)	0.050	Fipronil	0.100
Carbendazim	0.100	Difenoconazole	0.100	Flonicamid	0.100
Carbofuran	0.020	Dimethenamid	0.050	Fluchloralin	0.100
Carbophenothion	0.200	Dimethoate	0.050	Flucythrinate	0.100
Carboxin	0.020	Dimethomorph	0.050	Fludioxonil	0.200
Carfentrazone-ethyl	0.100	Diniconazole	0.200	Flufenacet	0.020
Chlorantriliprole	0.020	Dinotefuran	0.200	Flumioxazin	0.100
Chordane, ds-	0.200	Dioxathion	0.100	Fluometuron	0.020
Chordane, trans-	0.200	Diphenamid	0.020	Flupicolide	0.050
Chorfenapyr	0.500	Diphenylamine	0.100	Fluopyram	0.020
Chorfenoson	0.200	Disulfoton	0.100	Fluoxastrobin	0.050
Chorfenvinphos	0.050	Disulfoton sulfone	0.100	Fupyradifurone	0.020
Chorobenzilate	0.100	Disulfoton sulfoxide	0.100	Fluridone	0.100
Choroneb	0.200	Diuron	0.050	Flusilazole	0.020
Chlorpyrifos	0.050	Edifenphos	0.050	Rutolanil	0.020
Chlorpyrifos-methyl	0.200	Endosulfan alpha	0.200	Rutriafol	0.020
ClIFC	1.000	Endosulfan beta	0.200	Fluvalinate, tau-	0.100
		Endosulfan sulfate	0.100	Fluxapyroxad	0.020



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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
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
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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Revision #: 0.00 Control : CFL-D06
 Revision Date: 05/31/2019 Effective Date: 05/31/2019

Laboratory Quality Control Results

JAOAC2015 V986							
Batch ID: 2200152							
Laboratory Control Sample							
Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDA	0.0101	0.01	%	101	85.0 - 115	Acceptable	
CBV	0.0101	0.01	%	101	85.0 - 115	Acceptable	
CE	0.0107	0.01	%	107	85.0 - 115	Acceptable	
CBDA	0.0105	0.01	%	105	85.0 - 115	Acceptable	
CBGA	0.00994	0.01	%	99.4	85.0 - 115	Acceptable	
CBG	0.0101	0.01	%	101	85.0 - 115	Acceptable	
CB	0.0101	0.01	%	101	85.0 - 115	Acceptable	
THCV	0.00965	0.01	%	96.5	85.0 - 115	Acceptable	
d8THCV	0.0101	0.01	%	101	85.0 - 115	Acceptable	
THCA	0.00935	0.01	%	93.5	85.0 - 115	Acceptable	
CBN	0.00973	0.01	%	97.3	85.0 - 115	Acceptable	
exo-THC	0.00894	0.01	%	89.4	85.0 - 115	Acceptable	
d9THC	0.00912	0.01	%	91.2	85.0 - 115	Acceptable	
d8THC	0.00866	0.01	%	86.6	85.0 - 115	Acceptable	
CBL	0.00856	0.01	%	85.6	85.0 - 115	Acceptable	
CEC	0.00886	0.01	%	88.6	85.0 - 115	Acceptable	
THCA	0.00999	0.01	%	99.9	85.0 - 115	Acceptable	
CBCA	0.00938	0.01	%	93.8	85.0 - 115	Acceptable	
CBA	0.00935	0.01	%	93.5	85.0 - 115	Acceptable	
CBF	0.00767	0.01	%	76.7	85.0 - 115	Acceptable	Q6

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDA	<LOQ	0.003	%	< 0.003	Acceptable	
CBV	<LOQ	0.003	%	< 0.003	Acceptable	
CE	<LOQ	0.003	%	< 0.003	Acceptable	
CBDA	<LOQ	0.003	%	< 0.003	Acceptable	
CBGA	<LOQ	0.003	%	< 0.003	Acceptable	
CBG	<LOQ	0.003	%	< 0.003	Acceptable	
CB	<LOQ	0.003	%	< 0.003	Acceptable	
THCV	<LOQ	0.003	%	< 0.003	Acceptable	
d8THCV	<LOQ	0.003	%	< 0.003	Acceptable	
THCA	<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	
CEC	<LOQ	0.003	%	< 0.003	Acceptable	
THCA	<LOQ	0.003	%	< 0.003	Acceptable	
CBCA	<LOQ	0.003	%	< 0.003	Acceptable	
CBA	<LOQ	0.003	%	< 0.003	Acceptable	
CBF	<LOQ	0.003	%	< 0.003	Acceptable	

Abbreviations

- ND - None Detected at or above MRL
- RPD - Relative Percent Difference
- LOQ - Limit of Quantitation
- Q6 - Quality control outside QC limits. Data acceptable based on remaining QC.

Units of Measure:

%- Percent



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Laboratory Quality Control Results

JAOAC2015 V986		Batch ID: 2200152						
Sample Duplicate		Sample ID: 21-003488-0004						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDA	0.00508	0.00521	0.003	%	2.41	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.003	%	NA	< 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	0.146	0.146	0.003	%	0.293	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBF	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	

Abbreviations

- ND - None Detected at or above MRL
- RPD - Relative Percent Difference
- LOQ - Limit of Quantitation
- NA - Calculation Not Applicable given non-numerical results

Units of Measure:

% - Percent



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Laboratory Quality Control Results

Residual Solvents		Batch ID: 2200164										
Method Blank			Laboratory Control Sample									
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes			
Propane	ND	< 200		1450	1400	µg/g	103.6	70	130			
Isobutane	ND	< 200		1850	1780	µg/g	103.9	70	130			
Butane	ND	< 200		1870	1790	µg/g	104.5	70	130			
2,2-Dimethylpropane	ND	< 200		2300	2190	µg/g	105.0	70	130			
Methanol	ND	< 200		1590	1610	µg/g	98.8	70	130			
Ethylene Oxide	ND	< 30		139	141	µg/g	98.6	70	130			
2-Methylbutane	ND	< 200		1660	1630	µg/g	101.8	70	130			
Pentane	ND	< 200		1650	1610	µg/g	102.5	70	130			
Ethanol	ND	< 200		1760	1630	µg/g	108.0	70	130			
Ethyl Ether	ND	< 200		1590	1610	µg/g	98.8	70	130			
2,2-Dimethylbutane	ND	< 30		167	165	µg/g	101.2	70	130			
Acetone	ND	< 200		1670	1610	µg/g	103.7	70	130			
2-Propanol	ND	< 200		1700	1610	µg/g	105.6	70	130			
Acetonitrile	ND	< 100		418	498	µg/g	83.9	70	130			
2,3-Dimethylbutane	ND	< 30		139	162	µg/g	85.8	70	130			
Dichloromethane	ND	< 60		456	498	µg/g	91.6	70	130			
2-Methylpentane	ND	< 30		155	167	µg/g	92.8	70	130			
3-Methylpentane	ND	< 30		181	179	µg/g	101.1	70	130			
Hexane	ND	< 30		172	164	µg/g	104.9	70	130			
Ethyl acetate	ND	< 200		1950	1620	µg/g	120.4	70	130			
2-Butanol	ND	< 200		1800	1600	µg/g	112.5	70	130			
Tetrahydrofuran	ND	< 100		547	500	µg/g	109.4	70	130			
Cyclohexane	ND	< 200		1780	1610	µg/g	110.6	70	130			
Benzene	ND	< 1		6.66	5.62	µg/g	118.5	70	130			
Isopropyl Acetate	ND	< 200		1800	1610	µg/g	111.8	70	130			
Heptane	ND	< 200		1650	1610	µg/g	102.5	70	130			
1,4-Dioxane	ND	< 100		550	502	µg/g	109.6	70	130			
2-Ethoxyethanol	ND	< 30		199	164	µg/g	121.3	70	130			
Ethylene Glycol	ND	< 200		609	502	µg/g	121.3	70	130			
Toluene	ND	< 200		530	488	µg/g	108.6	70	130			
Ethylbenzene	ND	< 200		984	965	µg/g	102.0	70	130			
m,p-Xylene	ND	< 200		1050	990	µg/g	106.1	70	130			
o-Xylene	ND	< 200		1020	971	µg/g	105.0	70	130			
Cumene	ND	< 30		184	179	µg/g	102.8	70	130			
1,2-Dichloroethane	ND	< 1		1.05	1	µg/g	105.0	70	130			
Chloroform	ND	< 1		1.01	1	µg/g	101.0	70	130			
Trichloroethylene	ND	< 1		0.971	1	µg/g	97.1	70	130			
Ethylene Oxide	ND	< 1		1.07	1	µg/g	107.0	70	130			
Dichloromethane	ND	< 1		0.941	1	µg/g	94.1	70	130			
Benzene	ND	< 1		1.02	1	µg/g	102.0	70	130			



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QC - Sample Duplicate Sample ID: 21-015116-0003

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	
Acetonitrile	ND	ND	100	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	
3-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Hexane	ND	ND	30	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	
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	
1,4-Dioxane	ND	ND	100	µg/g	0.0	< 20	Acceptable	
2-Ethoxyethanol	ND	ND	30	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	
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	
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

Units of Measure:

µg/g - Microgram per gram or ppm



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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.