



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



Report Number: 22-005426/D002.R000
Report Date: 05/18/2022
ORELAP#: OR100028
Purchase Order:
Received: 05/11/22 11:46

Customer: NW Natural Goods
Product identity: HEMP - PR 0014
Client/Metric ID: .
Laboratory ID: 22-005426-0001

Summary

Potency:

Analyte per 4g	Result	Limits	Units	Status	
CBC per 4g [†]	0.175		mg/4g		CBD-Total per 4g 20.3 mg/4g
CBD per 4g	20.3		mg/4g		
CBG per 4g [†]	11.2		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 0014

Client/Metric ID: .

Sample Date:

Laboratory ID: 22-005426-0001

Evidence of Cooling: No

Temp: 15.2 °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: 2204102 Analyze: 5/12/22 8:33:00 PM					
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 4g [†]	0.175		mg/4g	0.127	
CBC-A per 4g [†]	< LOQ		mg/4g	0.127	
CBC-Total per 4g [†]	< LOQ		mg/4g	0.238	
CBD per 4g	20.3		mg/4g	0.127	
CBD-A per 4g	< LOQ		mg/4g	0.127	
CBD-Total per 4g	20.3		mg/4g	0.238	
CBDV per 4g [†]	< LOQ		mg/4g	0.127	
CBDV-A per 4g [†]	< LOQ		mg/4g	0.127	
CBDV-Total per 4g [†]	< LOQ		mg/4g	0.236	
CBE per 4g [†]	< LOQ		mg/4g	0.127	
CBG per 4g [†]	11.2		mg/4g	0.127	
CBG-A per 4g [†]	< LOQ		mg/4g	0.127	
CBG-Total per 4g [†]	11.2		mg/4g	0.236	
CBL per 4g [†]	< LOQ		mg/4g	0.127	
CBL-A per 4g [†]	< LOQ		mg/4g	0.127	
CBL-Total per 4g [†]	< LOQ		mg/4g	0.238	
CBN per 4g	< LOQ		mg/4g	0.127	
CBT per 4g [†]	< LOQ		mg/4g	0.127	
Δ8-THCV per 4g [†]	< LOQ		mg/4g	0.127	
Δ8-THC per 4g [†]	< LOQ		mg/4g	0.127	
Δ9-THC per 4g	< LOQ		mg/4g	0.127	
exo-THC per 4g [†]	< LOQ		mg/4g	0.127	
THC-A per 4g	< LOQ		mg/4g	0.127	
THC-Total per 4g	< LOQ		mg/4g	0.238	
THCV per 4g [†]	< LOQ		mg/4g	0.127	
THCV-A per 4g [†]	< LOQ		mg/4g	0.127	
THCV-Total per 4g [†]	< LOQ		mg/4g	0.238	
Total Cannabinoids per 4g	31.7		mg/4g		



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Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2204061	05/14/22	AOAC 991.14 (Petrifilm)		X
Total Coliforms	< LOQ		cfu/g	10	2204061	05/14/22	AOAC 991.14 (Petrifilm)		X
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2204062	05/15/22	AOAC 2014.05 (RAPID)		X
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2204062	05/15/22	AOAC 2014.05 (RAPID)		X

Solvents	Method	Residual Solvents by GC/MS				Units µg/g	Batch	2204234				Analyze	05/18/22 10:06 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	2204210	Analyze	05/17/22	03:41 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	0.0174	2204117	05/13/22	AOAC 2013.06 (mod.)	pass	X
Cadmium	< LOQ	0.200	mg/kg	0.0174	2204117	05/13/22	AOAC 2013.06 (mod.)	pass	X
Lead	< LOQ	0.500	mg/kg	0.0174	2204117	05/13/22	AOAC 2013.06 (mod.)	pass	X
Mercury	< LOQ	0.100	mg/kg	0.00870	2204117	05/13/22	AOAC 2013.06 (mod.)	pass	X



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Nutrition

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
Moisture (Loss on Drying)	18.2		g/100g	0.10	2204201	05/16/22	AOAC 925.10 (mod.)	X	
Water Activity	0.702		Aw	0.030	2204074	05/12/22	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	Cethodim	0.050	Endrin	0.100
Acephate	0.100	Cethodim Sulfone	0.050	EPN	0.050
Acequinocyl	0.100	Cethodim Sulfoxide	0.050	EPIC	0.100
Acetamiprid	0.020	Cb fenfentazine	0.020	Esfenvalerate/ Fenvalerate	0.200
Acetochlor	0.100	Chlormazine	0.020	Etoconazole	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	Cyanazine	0.020	Ethirimol	0.100
Aldoxycarb (Aldicarb-sulfone)	0.100	Cyanofenphos	0.020	Ethofumesate	0.050
Aldrin	0.100	Cyfluthrin	0.050	Ethoprophos	0.020
Ametoctradin	0.020	Cyazfamid	0.020	Etofenprox	0.020
Ametryn	0.500	Cytoate	0.100	Etoxazole	0.020
Aspon	0.100	Cyfluthrin	0.200	Etridiazole	0.100
Asulam	0.100	Cyhalothrin, lambda	0.200	Etrifos	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	Dadthal	0.100	Fenamiphos	0.020
Azoxystrobin	0.020	Damhozide	0.100	Fenamiphos sulfone	0.020
Berlaxyl	0.020	DCPMU	0.050	Fenamiphos sulfoxide	0.020
Berthocarb	0.020	DDD, o,p'-	0.100	Fenazaquin	0.100
Berthuralin	0.100	DDD, p,p'-	0.100	Fenbuconazole	0.100
Berthoxacor	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
Bupimate	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	Fuchloralin	0.100
Carbendazim	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
Chlorantraniliprole	0.020	Dioxathion	0.100	Flumeturon	0.020
Chlordane, cis-	0.200	Diphenamid	0.020	Flupicolide	0.050
Chlordane, trans-	0.200	Diphenylamine	0.100	Flupyrad	0.020
Chlorfenapyr	0.500	Disulfoton	0.100	Fluxastrobin	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	Propoxycarbazona 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	Oxydordane	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	Padlobutrazol	0.050	Pyroxulam	0.020
Isofenphos	0.050	Paraaxon-ethyl	0.020	Quinalphos	0.050
Isofenphos-methyl	0.020	Paraaxon methyl	0.100	Quinoxifen	0.050
Isofenphos oxon	0.050	Parathion ethyl	0.100	Quintozene (PQN)	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	Simaizine	0.100
Isoxaben	0.050	Pertachloroaniline	0.100	Simetryn	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
Lenadl	0.100	Perthiopyrad	0.020	Spiromesifen	0.050
Lindane (gammaBHC)	0.100	Permethrin	0.050	Spirotetramat	0.050
Linuron	0.020	Pethane	0.100	Spiroxamine	0.020
Malaoxon	0.050	Phenmedipham	0.050	Sulfotep	0.050
Malathion	0.050	Phanthoate	0.050	Sulfoxafloz	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	Tetradifon	0.200
Methoxychlor	0.100	Procyimdone	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
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	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.



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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														Project Name:					
Email: annienair@nwnaturalgoods.com														☐ Report Instructions: ☐ Send to State - METRC ☒ Email Final Results: ☐ Fax Final Results ☐ Cash/Check/CC/Net 30					
Phone: 503-453-4219 Fax:														Other:					
Processor's License: 330-1058115IHH																			
Field ID	Date/Time Collected																		
HEMP - PR 0014	5/11/22		X	X	X	X	X		X	X	X					edible	80g	4g	

Collected By:	Relinquished By:	Date	Time	Received by:	Date	Time	Lab Use Only:
☒ Standard (5 day)	Annie Nair	5/11/22	1030	<i>[Signature]</i>	5.11.22	1030	Client Alias:
☐ Rush (3-4 day) (1.5x Standard)	<i>[Signature]</i>	5.11.22	1130	<i>[Signature]</i>	5/11/22	1146	Order Number:
☐ Priority Rush (2 day) (2x Standard)							Proper Container
							Sample Condition
							Temperature: 15.2
							Shipped Via:
							Evidence of cooling: ☐ Yes ☐ 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

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

Laboratory Quality Control Results

J AOAC 2015 V98-6									
Batch ID: 2204102									
Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes	
CBDVA	1	0.0330	0.0332	%	99.2	80.0 - 120	Acceptable		
CBDV	1	0.0337	0.0345	%	97.9	80.0 - 120	Acceptable		
CBE	1	0.0319	0.0334	%	95.7	80.0 - 120	Acceptable		
CBDA	1	0.0355	0.0333	%	106	90.0 - 110	Acceptable		
CBGA	1	0.0330	0.0333	%	99.0	90.0 - 110	Acceptable		
CBG	1	0.0319	0.0333	%	95.7	90.0 - 110	Acceptable		
CBD	1	0.0330	0.0333	%	99.1	80.0 - 120	Acceptable		
THCV	1	0.0398	0.0413	%	96.6	80.0 - 120	Acceptable		
d8THCV	1	0.0235	0.0247	%	95.3	80.0 - 120	Acceptable		
THCVA	1	0.0323	0.0327	%	98.8	80.0 - 120	Acceptable		
CBN	1	0.0337	0.0333	%	101	90.0 - 110	Acceptable		
exo-THC	1	0.0322	0.0331	%	97.2	80.0 - 120	Acceptable		
d9THC	1	0.0342	0.0333	%	103	80.0 - 120	Acceptable		
d8THC	1	0.0310	0.0333	%	93.0	80.0 - 120	Acceptable		
CBL	1	0.0310	0.0329	%	94.3	80.0 - 120	Acceptable		
CBC	1	0.0328	0.0347	%	94.6	80.0 - 120	Acceptable		
THCA	1	0.0361	0.0333	%	108	90.0 - 110	Acceptable		
CBCA	1	0.0322	0.0332	%	96.8	80.0 - 120	Acceptable		
CBLA	1	0.0343	0.0350	%	97.9	80.0 - 120	Acceptable		
CBT	1	0.0307	0.0342	%	89.8	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	
CBDA	<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	
CBC	<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



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Portland, OR 97230
503-254-1794



Report Number: 22-005426/D002.R000
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Laboratory Quality Control Results

J AOAC 2015 V98-6				Batch ID: 2204102				
Sample Duplicate				Sample ID: 22-005395-0001				
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	
CBD	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	0.00594	0.00539	0.003	%	9.70	< 20	Acceptable	
CBD	<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	0.243	0.222	0.003	%	9.34	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBC	<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	
CBT	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d9THCO	<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:



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Laboratory Quality Control Results

Residual Solvents				Batch ID: 2204234					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		527	572	µg/g	92.1	60 - 120	
Isobutane	ND	< 200		813	731	µg/g	111.2	60 - 120	
Butane	ND	< 200		784	731	µg/g	107.3	60 - 120	
2,2-Dimethylpropane	ND	< 200		888	936	µg/g	94.9	60 - 120	
Methanol	ND	< 200		1490	1620	µg/g	92.0	60 - 120	
Ethylene Oxide	ND	< 30		73.4	56.2	µg/g	130.6	60 - 120	Q1
2-Methylbutane	ND	< 200		1570	1620	µg/g	96.9	60 - 120	
Pentane	ND	< 200		1560	1610	µg/g	96.9	60 - 120	
Ethanol	ND	< 200		1690	1630	µg/g	103.7	70 - 130	
Ethyl Ether	ND	< 200		1540	1620	µg/g	95.1	60 - 120	
2,2-Dimethylbutane	ND	< 30		166	174	µg/g	95.4	60 - 120	
Acetone	ND	< 200		1420	1650	µg/g	86.1	60 - 120	
2-Propanol	ND	< 200		1530	1610	µg/g	95.0	60 - 120	
Ethyl Formate	ND	< 500		1480	1600	µg/g	92.5	70 - 130	
Acetonitrile	ND	< 100		480	498	µg/g	96.4	60 - 120	
Methyl Acetate	ND	< 500		1640	1610	µg/g	101.9	70 - 130	
2,3-Dimethylbutane	ND	< 30		152	176	µg/g	86.4	60 - 120	
Dichloromethane	ND	< 60		551	510	µg/g	108.0	60 - 120	
2-Methylpentane	ND	< 30		181	176	µg/g	102.8	60 - 120	
MTBE	ND	< 500		1480	1600	µg/g	92.5	70 - 130	
3-Methylpentane	ND	< 30		164	175	µg/g	93.7	60 - 120	
Hexane	ND	< 30		168	177	µg/g	94.9	60 - 120	
1-Propanol	ND	< 500		1570	1610	µg/g	97.5	70 - 130	
Methylethylketone	ND	< 500		1670	1600	µg/g	104.4	70 - 130	
Ethyl acetate	ND	< 200		1560	1630	µg/g	95.7	60 - 120	
2-Butanol	ND	< 200		1790	1620	µg/g	110.5	60 - 120	
Tetrahydrofuran	ND	< 100		486	500	µg/g	97.2	60 - 120	
Cyclohexane	ND	< 200		1570	1620	µg/g	96.9	60 - 120	
2-methyl-1-propanol	ND	< 500		1770	1620	µg/g	109.3	70 - 130	
Benzene	ND	< 1		4.86	5.32	µg/g	91.4	60 - 120	
Isopropyl Acetate	ND	< 200		1470	1620	µg/g	90.7	60 - 120	
Heptane	ND	< 200		1490	1770	µg/g	84.2	60 - 120	
1-Butanol	ND	< 500		1700	1600	µg/g	106.3	70 - 130	
Propyl Acetate	ND	< 500		1640	1600	µg/g	102.5	70 - 130	
1,4-Dioxane	ND	< 100		513	504	µg/g	101.8	60 - 120	
2-Ethoxyethanol	ND	< 30		157	181	µg/g	86.7	60 - 120	
Methylisobutylketone	ND	< 500		1660	1610	µg/g	103.1	70 - 130	
3-Methyl-1-butanol	ND	< 500		1630	1610	µg/g	101.2	70 - 130	
Ethylene Glycol	ND	< 200		399	494	µg/g	80.8	60 - 120	
Toluene	ND	< 100		496	491	µg/g	101.0	60 - 120	
Isobutyl Acetate	ND	< 500		1930	1600	µg/g	120.6	70 - 130	
1-Pentanol	ND	< 500		1850	1610	µg/g	114.9	70 - 130	
Butyl Acetate	ND	< 500		2230	1610	µg/g	138.5	70 - 130	Q1
Ethylbenzene	ND	< 200		999	973	µg/g	102.7	60 - 120	
m,p-Xylene	ND	< 200		997	996	µg/g	100.1	60 - 120	
o-Xylene	ND	< 200		1030	973	µg/g	105.9	60 - 120	
Cumene	ND	< 30		185	170	µg/g	108.8	60 - 120	
Anisole	ND	< 500		1730	1610	µg/g	107.5	70 - 130	
DMSO	ND	< 500		1520	1630	µg/g	93.3	70 - 130	
1,2-dimethoxyethane	ND	< 50		172	164	µg/g	104.9	70 - 130	
Triethylamine	ND	< 500		1500	1600	µg/g	93.8	70 - 130	
N,N-dimethylformamide	ND	< 150		592	497	µg/g	119.1	70 - 130	
N,N-dimethylacetamide	ND	< 150		504	498	µg/g	101.2	70 - 130	
Pyridine	ND	< 50		231	180	µg/g	128.3	70 - 130	
1,2-Dichloroethane	ND	< 1		0.872	1	µg/g	87.2	70 - 130	
Chloroform	ND	< 1		1.01	1	µg/g	101.0	70 - 130	
Trichloroethylene	ND	< 1		1.04	1	µg/g	104.0	70 - 130	



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QC - Sample Duplicate				Sample ID: 22-005371-0001			
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Accept/Fail
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
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
Methyl isobutyl ketone	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	100	µg/g	0.0	< 20	Acceptable
Isobutyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable
1-Pentanol	ND	ND	500	µg/g	0.0	< 20	Acceptable
Butyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable
Ethylbenzene	ND	ND	200	µg/g	0.0	< 20	Acceptable
m,p-Xylene	ND	ND	200	µg/g	0.0	< 20	Acceptable
o-Xylene	ND	ND	200	µg/g	0.0	< 20	Acceptable
Cumene	ND	ND	30	µg/g	0.0	< 20	Acceptable
Anisole	ND	ND	500	µg/g	0.0	< 20	Acceptable
DMSO	ND	ND	500	µg/g	0.0	< 20	Acceptable
1,2-dimethoxyethane	ND	ND	50	µg/g	0.0	< 20	Acceptable
Triethylamine	ND	ND	500	µg/g	0.0	< 20	Acceptable
N,N-dimethylformamide	ND	ND	150	µg/g	0.0	< 20	Acceptable
N,N-dimethylacetamide	ND	ND	150	µg/g	0.0	< 20	Acceptable
Pyridine	ND	ND	50	µg/g	0.0	< 20	Acceptable
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
Q1 - Quality control result biased high. Only non-detect samples reported.

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.