



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



Report Number: 23-006249/D002.R000
Report Date: 06/06/2023
ORELAP#: OR100028
Purchase Order:
Received: 05/25/23 12:52

Customer: NW Natural Goods
Product identity: HEMP - PR 0050
Client/Metric ID: .
Laboratory ID: 23-006249-0001

Summary

Potency:

Analyte per 4g	Result	Limits	Units	Status	
CBC per 4g	0.174		mg/4g		CBD-Total per Serving Size 20.1 mg/4g
CBD per 4g	20.1		mg/4g		
CBG per 4g	10.3		mg/4g		THC-Total per Serving Size <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 0050

Client/Metric ID: .

Sample Date:

Laboratory ID: 23-006249-0001

Evidence of Cooling: No

Temp: 20.1

Relinquished by: hinton

Serving Size #1: 4 g

Sample Results

Potency per 4g					
Method: J AOAC 2015 V98-6 (mod) ^b					
Units mg/se Batch: 2307737 Analyze: 5/26/23 8:41:00 PM					
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 4g	0.174		mg/4g	0.132	
CBC-A per 4g	< LOQ		mg/4g	0.132	
CBC-Total per 4g	< LOQ		mg/4g	0.247	
CBD per 4g	20.1		mg/4g	0.132	
CBD-A per 4g	< LOQ		mg/4g	0.132	
CBD-Total per 4g	20.1		mg/4g	0.247	
CBDV per 4g	< LOQ		mg/4g	0.132	
CBDV-A per 4g	< LOQ		mg/4g	0.132	
CBDV-Total per 4g	< LOQ		mg/4g	0.246	
CBE per 4g	< LOQ		mg/4g	0.132	
CBG per 4g	10.3		mg/4g	0.132	
CBG-A per 4g	< LOQ		mg/4g	0.132	
CBG-Total per 4g	10.3		mg/4g	0.246	
CBL per 4g	< LOQ		mg/4g	0.132	
CBL-A per 4g	< LOQ		mg/4g	0.132	
CBL-Total per 4g	< LOQ		mg/4g	0.247	
CBN per 4g	< LOQ		mg/4g	0.132	
CBT per 4g	< LOQ		mg/4g	0.132	
Δ8-THCV per 4g	< LOQ		mg/4g	0.132	
Δ10-THC-9R per 4g	< LOQ		mg/4g	0.132	
Δ10-THC-9S per 4g	< LOQ		mg/4g	0.132	
Δ10-THC-Total per 4g	< LOQ		mg/4g	0.263	
Δ8-THC per 4g	< LOQ		mg/4g	0.132	
Δ9-THC per 4g	< LOQ		mg/4g	0.132	
delta-9-THCP per 4g	< LOQ		mg/4g	0.132	
exo-THC per 4g	< LOQ		mg/4g	0.132	
THC-A per 4g	< LOQ		mg/4g	0.132	
THC-Total per 4g	< LOQ		mg/4g	0.247	
THCV per 4g	< LOQ		mg/4g	0.132	
THCV-A per 4g	< LOQ		mg/4g	0.132	
THCV-Total per 4g	< LOQ		mg/4g	0.247	
Total Cannabinoids per 4g	30.6		mg/4g		

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 333-007-0430



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Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2307682	05/28/23 AOAC 991.14 (Petrifilm) ^P		
Total Coliforms	< LOQ		cfu/g	10	2307682	05/28/23 AOAC 991.14 (Petrifilm) ^P		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2307684	05/28/23 AOAC 2014.05 (RAPID) ^P		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2307684	05/28/23 AOAC 2014.05 (RAPID) ^P		

Solvents Method: Residual Solvents by GC/MS^B Units µg/g Batch 2307795 Analyze 05/31/23 10:39 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-Dimethyl butane	< LOQ		30.0			2,2-Dimethylpropane (neo-pentane)	< LOQ		200		
2,3-Dimethyl butane	< 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	
Isopropyl benzene (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)^B Units mg/kg Batch 2307829 Analyze 06/01/23 12:06 PM

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



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Metals

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Arsenic*	< LOQ	0.200	mg/kg	0.0179	2307782	05/30/23 AOAC 2013.06 (mod.) ^p	pass	
Cadmium*	< LOQ	0.200	mg/kg	0.0179	2307782	05/30/23 AOAC 2013.06 (mod.) ^p	pass	
Lead*	< LOQ	0.500	mg/kg	0.0179	2307782	05/30/23 AOAC 2013.06 (mod.) ^p	pass	
Mercury*	< LOQ	0.100	mg/kg	0.00897	2307782	05/30/23 AOAC 2013.06 (mod.) ^p	pass	

Nutrition

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Moisture (Loss on Drying)	18.5		g/100g	0.10	2307798	05/30/23 AOAC 925.10 (mod.) ^p		
Water Activity	0.674		Aw	0.030	2307757	05/30/23 AOAC 978.18 ^p		



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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.

^p = ISO/IEC 17025:2017 accredited method.

[¥] = TNI accredited analyte.

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

Approved Signatory

Derrick Tanner
General Manager



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Cannabis Mult-Residue Profile Limits of Quantitation

Compound	LOQ (mg/kg)	Compound	LOQ (mg/kg)	Compound	LOQ (mg/kg)
Abamectin	0.100	Clethodim	0.050	ndrin	0.100
Acephale	0.100	Clethodim Sulfoxide	0.050	PN	0.050
Acequinocyl	0.100	Clofentazine	0.020	PTC	0.100
Aceamiprid	0.020	Clomazone	0.020	s-envalera e/ envalera e	0.200
Aceochlor	0.100	Clofentanil	0.200	aconazole	0.100
Acrinathrin	0.100	Coumaphos	0.050	halaluralin	0.100
Alachlor	0.100	Croxyphos	0.020	hioencarb	0.050
Aldicarb	0.100	Cyanazine	0.020	hion	0.200
Aldicarb sulfoxide	0.100	Cyanoenphos	0.020	hirimol	0.100
Aldoxycarb (Aldicarb-sulfoxide)	0.100	Cyaniliprole	0.050	hoimesa e	0.050
Aldrin	0.100	Cyazofluthrin	0.020	hoprophos	0.020
Ametoctradin	0.020	Cycloxyfenbutyl	0.100	oenprox	0.020
Ametoctradin	0.500	Cyfluthrin	0.200	oxazole	0.020
Aspersion	0.100	Cyhalothrin, lambda	0.200	ridiazole	0.100
Asulam	0.100	Cymoxanil	0.050	rimosulfuron	0.020
Azinphosmethyl	0.100	Cypermethrin	0.200	amoxadone	0.200
Azinphosmethyl	0.020	Cyprodinil	0.100	amphur	0.100
Azinphosmethyl	0.020	Dacifluthrin	0.100	enamidon	0.020
Azoxystrobin	0.020	Daminozide	0.100	enamiphos	0.020
Benalaxyl	0.020	DCPMU	0.050	enamiphos sulfoxide	0.020
Bendiocarb	0.020	DDD, o,p'	0.100	enazaquin	0.100
Benluralin	0.100	DDD, p,p'	0.100	enbutconazole	0.100
Benoxacor	0.050	DD, o,p'	0.100	enchlorphos	0.100
Bensulide	0.050	DD, p,p'	0.100	enchlorphos-oxon	0.100
Beta-cyfluthrin isomer	0.100	DDT, o,p'	0.100	enhexamid	0.100
Beta-cyfluthrin isomer	0.100	DDT, p,p'	0.100	enirohion	0.100
Beta-cyfluthrin isomer	0.500	Deltamethrin (Tribuox)	0.100	enobucarb	0.050
Benazoxypyr	0.020	Deltamethrin	0.100	enoxyacarb	0.020
Benfluridone	0.020	Desmedipham	0.100	enpropacarb	0.050
Boscalid	0.020	Diallate	0.100	enpyroximate	0.020
Bromophosmethyl	0.100	Diazinon	0.020	enson	0.100
Bromophosmethyl	0.200	Diazoxon	0.100	ensulohion	0.020
Bromopropylate	0.100	Dichlobenil	0.100	ensulohion oxon	0.020
Bromuconazole	0.100	Dichlofuanid	0.100	ensulohion sulfoxide	0.100
Bupirimate	0.020	Dichlorvos	0.100	Fensulfthion-oxon-sulfone	0.020
Buprofezin	0.050	Diclobutylazole	0.050	enbion	0.050
Buchlor	0.500	Dicofol	0.100	enbion oxon	0.020
Buthalifos	0.200	Dicrophos	0.050	enbion oxon sulfoxide	0.100
Buthalifos	0.100	Dieldrin	0.100	enbion sulfoxide	0.050
Cadusafos	0.020	Diehoencarb	0.020	enuron	0.020
Captafol	1.000	Diehoencarb (D-T)	0.050	ipronil	0.100
Carbaryl	0.050	Diethofenathrin	0.100	lonicamid	0.100
Carbendazim	0.100	Dimehenamid	0.050	luchloralin	0.100
Carbofenthrin	0.020	Dimehoate	0.050	lucyhrinate	0.100
Carbophenothion	0.200	Dimehomorph	0.050	ludioxonil	0.200
Carboxin	0.020	Diniconazole	0.200	luenace	0.020
Carfenthiotrifluthrin	0.100	Dinofenpropanil	0.200	lumioxazin	0.100
Chloraniliprole	0.020	Dioxathion	0.100	luomeuron	0.020
Chlordane, cis-	0.200	Diphenamid	0.020	luopicolide	0.050
Chlordane, trans-	0.200	Diphenylamine	0.100	luopyram	0.020
Chloraniliprole	0.500	Disulfoton	0.100	luoxastrobin	0.050
Chloraniliprole	0.200	Disulfoton sulfoxide	0.100	lupyradiuron	0.020
Chloraniliprole	0.050	Disulfoton sulfoxide	0.100	luridone	0.100
Chloraniliprole	0.100	Diuron	0.050	lusilazole	0.020
Chloraniliprole	0.200	dienephos	0.050	luolanil	0.020
Chloraniliprole	0.050	ndosulalan alpha	0.200	luriaol	0.020
Chloraniliprole	0.200	ndosulalan beta	0.200	lualinate, a-	0.100
Chloraniliprole	1.000	ndosulalan sulfate	0.100	luxaproxad	0.020



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Cannabis Mult-Residue Profile, Limits of Quantitation

Compound	LOQ (mg/kg)	Compound	LOQ (mg/kg)	Compound	LOQ (mg/kg)
omese	0.100	Mexacarba e	0.020	Propamocarb	0.050
ono os	0.100	MGK 264	0.020	Propanil	0.050
orchlor enuron	0.050	Mirex	0.100	Propargi e	0.050
orme ana e	0.050	Molina e	0.050	Propazine	0.020
ura hiocarb	0.020	Monocro ophos	0.100	Prope amphos	0.050
ep achlor	0.100	Monolinuron	0.020	Propham	0.050
ep achlor epoxide	0.100	Myclobu anil	0.050	Propiconazole	0.050
ep enophos	0.100	Naled	0.100	Propoxur	0.050
exachlorobenzene	0.100	Napropamide	0.050	Propoxycarbazone Na	0.050
exaconazole	0.100	Neburon	0.020	Propyzamide	0.050
exazinone	0.100	Ni rapyrin	0.100	Pro hio os	0.100
exy hiazox	0.020	Nor lurazon	0.050	Pyraclos robin	0.020
mazalil	0.100	Ome hoa e	0.100	Pyrazophos	0.050
midacloprid	0.100	O-Phenylphenol	0.100	Pyre hrins	0.050
ndazilam	0.020	Oxadixyl	0.100	Pyridaben	0.020
ndoxacarb	0.020	Oxamyl	0.100	Pyrida ol	0.100
proben os	0.100	Oxamyl-oxime	0.100	Pyrida e	0.020
prodione	0.100	Oxychlorane	0.100	Pyrim e hanil	0.050
sobenzan	0.100	Oxydeme on-Me hyl	0.100	Pyriproxi en	0.020
socarbophos	0.500	Oxy hioquinox	0.200	Pyroxasul one	0.020
sodrin	0.100	Paclobu razol	0.050	Pyroxulam	0.020
so enphos	0.050	Paraaxon-e hyl	0.020	Quinalphos	0.050
so enphos-me hyl	0.020	Paraaxon me hyl	0.100	Quinoxy en	0.050
so enphos oxon	0.050	Para hion e hyl	0.100	Quin ozene (PCNB)	0.200
soprocarb	0.020	Para hion me hyl	0.200	Resme hrin	0.050
sopropalin	0.200	Penconazole	0.050	Ro enone	0.050
sopro hiolane	0.050	Pendime halin	0.050	S421	0.100
sopro uron	0.050	Pen lu en	0.020	Simazine	0.100
soxaben	0.050	Pen achloroaniline	0.100	Sime ryn	0.200
soxa lu ole	0.050	Pen achloroanisole	0.100	Spine oram	0.020
Kresoxim-me hyl	0.050	Pen achlorobenzene (PCB)	0.100	Spinosa d	0.050
ac o en	0.500	Pentachlorothioanisole (PCTA)	0.100	Spirodiclo en	0.100
enacil	0.100	Pen hiopyrad	0.020	Spiromesi en	0.050
indane (gamma B C)	0.100	Perme hrin	0.050	Spiro e rama	0.050
inuron	0.020	Per hane	0.100	Spiroxamine	0.020
Malaaxon	0.050	Phenmedipham	0.050	Sul o ep	0.050
Mala hion	0.050	Phen hoa e	0.050	Sul oxa lor	0.050
Mandipropamid	0.020	Phora e	0.050	Sulpro os	0.020
Mecarbam	0.020	Phora e Sul one	0.050	Tebuconazole	0.100
Mepanipyrim	0.050	Phora e Sul oxide	0.050	Tebu enozide	0.020
Merphos	0.500	Phosalone	0.050	Tebu hiuron	0.020
Me alaxyl	0.050	Phosme	0.100	Tecnazene	0.100
Me aldehyde	0.050	Phosphamidon	0.050	Te lu hrin	0.100
Me conazole	0.100	Phoxim	0.050	Terbu os	0.020
Me hacri os	0.100	Pinoxaden	0.020	Terbu os sul one	0.050
Me hamidophos	0.050	Piperonyl bu oxide	0.050	Terbu os sul oxide	0.050
Me hida hion	0.050	Pirimicarb	0.020	Terbu hylazine	0.020
Me hiocarb	0.050	Pirimiphos-me hyl	0.050	Terbu ryn	0.020
Me hiocarb sul one	0.100	Pirimiphos-e hyl	0.020	Te rachlorvinphos	0.050
Me hiocarb sul oxide	0.100	Pralle hrin	0.100	Te raconazole	0.050
Me homyl	0.100	Prochloraz	0.020	Te radi on	0.200
Me hoxychlor	0.100	Procy midone	0.100	Te rame hrin	0.050
Me hoxy enozide	0.020	Pro eno os	0.100	Te rasul	0.100
Me obromuron	0.050	Pro luralin	0.100	Thiabendazole	0.100
Me olachlor	0.100	Promecarb	0.050	Thiabendazole, 5-hydroxy	0.100
Me olcarb	0.050	Prome on	0.100	Thiacloprid	0.050
Me ra enone	0.050	Prome ryn	0.020	Thiame hoxam	0.100
Me ribuzin	0.100	Propachlor	0.020	Thiobencarb	0.050
Mevinphos	0.100			Thiodicarb	0.050
				Thiophana e-me hyl	0.050



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Cannab s Mu t-Res due Prof e, L m ts of Quant tat on

Compound	LOQ (mg/kg)	Compound	LOQ (mg/kg)	Compound	LOQ (mg/kg)
Tolclo os-me hyl	0.100	Triazophos	0.020	Tri loxys robin	0.020
Tri orin	0.100	Tolyl luanid	0.050	Tri iconazole	0.050
Tralkoxydim	0.100	Tridiphane	0.500	Vinclozolin	0.100
Triadime on	0.050	Tri lumizole	0.020	Zoxamide	0.020
Trialla e	0.100	Tri luralin	0.100		

LOQ= Limit of Quantitation, mg/kg

Factors affecting the LOQ include instrument sensitivity or 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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Hemp & Cannabis: Usable / Extract / Finished Product
 Chain of Custody, Record

Northwest-Natural-
 Goods-1684965540

ORELAP ID: **OR1000028** ANAB ISO 17025 ID: **AT1508**

	Project Information Project Name: <u>HEMP - PR 0050</u> PO Number: <u>NA</u> Turnaround Time: <u>5 Business Days (standard) (required for microbial testing)</u> Samples Delivered to Laboratory: <u>Schedule Pick-Up</u> Cannabis Type: <u>Industrial</u> Pick-Up Location Street Address: <u>11781 SE HWY 212 #404</u> City, State, Zip: <u>Clackamas, Oregon 97015</u> Pick-Up Location Phone: <u>8665685010</u>		Testing								
	Heavy Metals Profile OR (As, Cd, Pb & Hg)	Residue as Loss on Drying	Pesticide - Multi-Residue Profile	Potency Cannabinoid Base + Esteroid Profile	Residual Solvents - CR	Total Coliforms + E Coli	Water Activity	Yeast and Mold			
#	Sample Name	Sample Material	Amount Provided								
1	HEMP - PR 0050	Edible	20 units for sale		✓	✓	✓	✓	✓	✓	✓

Relinquished By	Date	Time	Temp., °C	Received By	Date	Time	Received Temp., °C	Evidence of Cooling?
<i>Kristen Johnson</i>	<i>5/24/2023</i>	<i>14:59</i>	<i>Temp., °C</i>	<i>MRH</i>	<i>5/25/2023</i>	<i>10:14</i>		<i>No</i>
<i>MRH</i>	<i>5/25/2023</i>	<i>10:45</i>	<i>20.1</i>	<i>MRH</i>	<i>5/25/2023</i>	<i>12:47</i>		<i>No</i>

Samples submitted to Columbia Laboratories with testing requirements constitute an agreement for services in accordance with the [current terms of service](#) associated with this CDC. By signing "Relinquished by" you are agreeing to these terms.

Columbia Laboratories
 12423 NE Whitaker Way
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P: (503) 254-1794 | Fax: (503) 254-1452
info@columbialaboratories.com

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Revision 1 Documen D 7148
Legacy D Workshee Valida ed 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6 Batch ID: 2307737

Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes
CBDVA	2	0.0282	0.0283	%	99.5	80.0	- 120	Acceptable	
CBDV	2	0.0292	0.0291	%	100	80.0	- 120	Acceptable	
CBE	2	0.0339	0.0344	%	98.6	80.0	- 120	Acceptable	
CBDA	1	0.0299	0.0311	%	96.1	90.0	- 110	Acceptable	
CBGA	1	0.0299	0.0311	%	96.4	80.0	- 120	Acceptable	
CBG	1	0.0310	0.0322	%	96.4	80.0	- 120	Acceptable	
CBD	1	0.0309	0.0323	%	95.5	90.0	- 110	Acceptable	
THCV	2	0.0205	0.0201	%	102	80.0	- 120	Acceptable	
d8THCV	2	0.0260	0.0268	%	96.9	80.0	- 120	Acceptable	
THCVA	2	0.0297	0.0299	%	99.4	80.0	- 120	Acceptable	
CBN	1	0.0320	0.0329	%	97.2	80.0	- 120	Acceptable	
exo-THC	2	0.0288	0.0292	%	98.4	80.0	- 120	Acceptable	
d9THC	1	0.0326	0.0341	%	95.5	90.0	- 110	Acceptable	
d8THC	1	0.0407	0.0420	%	96.9	90.0	- 110	Acceptable	
9S-d10THC	1	0.0230	0.0240	%	95.6	80.0	- 120	Acceptable	
CBL	2	0.0316	0.0315	%	100	80.0	- 120	Acceptable	
9R-d10THC	1	0.0294	0.0310	%	94.7	80.0	- 120	Acceptable	
CBC	2	0.0307	0.0309	%	99.5	80.0	- 120	Acceptable	
THCA	1	0.0305	0.0314	%	97.2	90.0	- 110	Acceptable	
CBCA	2	0.0323	0.0326	%	99.1	80.0	- 120	Acceptable	
CBLA	2	0.0324	0.0331	%	98.0	80.0	- 120	Acceptable	
d9THCP	2	0.0317	0.0321	%	98.9	80.0	- 120	Acceptable	
CBT	2	0.0319	0.0327	%	97.8	80.0	- 120	Acceptable	

Method Blank						
Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.00306	%	< 0.00306	Acceptable	
CBDV	<LOQ	0.00306	%	< 0.00306	Acceptable	
CBE	<LOQ	0.00306	%	< 0.00306	Acceptable	
CBDA	<LOQ	0.00306	%	< 0.00306	Acceptable	
CBGA	<LOQ	0.00306	%	< 0.00306	Acceptable	
CBG	<LOQ	0.00306	%	< 0.00306	Acceptable	
CBD	<LOQ	0.00306	%	< 0.00306	Acceptable	
THCV	<LOQ	0.00306	%	< 0.00306	Acceptable	
d8THCV	<LOQ	0.00306	%	< 0.00306	Acceptable	
THCVA	<LOQ	0.00306	%	< 0.00306	Acceptable	
CBN	<LOQ	0.00306	%	< 0.00306	Acceptable	
exo-THC	<LOQ	0.00306	%	< 0.00306	Acceptable	
d9THC	<LOQ	0.00306	%	< 0.00306	Acceptable	
d8THC	<LOQ	0.00306	%	< 0.00306	Acceptable	
9S-d10THC	<LOQ	0.00306	%	< 0.00306	Acceptable	
CBL	<LOQ	0.00306	%	< 0.00306	Acceptable	
9R-d10THC	<LOQ	0.00306	%	< 0.00306	Acceptable	
CBC	<LOQ	0.00306	%	< 0.00306	Acceptable	
THCA	<LOQ	0.00306	%	< 0.00306	Acceptable	
CBCA	<LOQ	0.00306	%	< 0.00306	Acceptable	
CBLA	<LOQ	0.00306	%	< 0.00306	Acceptable	
d9THCP	<LOQ	0.00306	%	< 0.00306	Acceptable	
CBT	<LOQ	0.00306	%	< 0.00306	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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Revision 1 Documen D 7148
Legacy D Workshee Valida ed 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6		Batch ID: 2307737						
Sample Duplicate		Sample ID: 23-006206-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00325	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.00325	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.00325	%	NA	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.00325	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.00325	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.00325	%	NA	< 20	Acceptable	
CBG	0.258	0.257	0.00325	%	0.381	< 20	Acceptable	
CBD	0.517	0.515	0.00325	%	0.338	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.00325	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.00325	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00325	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.00325	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00325	%	NA	< 20	Acceptable	
d9THC	<LOQ	<LOQ	0.00325	%	NA	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.00325	%	NA	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.00325	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.00325	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.00325	%	NA	< 20	Acceptable	
CBC	0.00442	0.00442	0.00325	%	0.0659	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00325	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.00325	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.00325	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00325	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.00325	%	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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Revision: 2 Document ID: 7087
 Legacy ID: CFL-E33Effective:

Laboratory Quality Control Results

Residual Solvents				Batch D: 2307795					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		560	584	µg/g	95.9	60 - 120	
Isobutane	ND	< 200		694	767	µg/g	90.5	60 - 120	
Butane	ND	< 200		690	782	µg/g	88.2	60 - 120	
2,2-Dimethylpropane	ND	< 200		958	939	µg/g	102.0	60 - 120	
Methanol	ND	< 200		1560	1610	µg/g	96.9	60 - 120	
Ethylene Oxide	ND	< 30		48	57.1	µg/g	84.1	60 - 120	
2-Methylbutane	ND	< 200		1510	1600	µg/g	94.4	60 - 120	
Pentane	ND	< 200		1520	1610	µg/g	94.4	60 - 120	
Ethanol	ND	< 200		1510	1600	µg/g	94.4	70 - 130	
Ethyl Ether	ND	< 200		1530	1610	µg/g	95.0	60 - 120	
2,2-Dimethylbutane	ND	< 30		164	173	µg/g	94.8	60 - 120	
Acetone	ND	< 200		1530	1620	µg/g	94.4	60 - 120	
2-Propanol	ND	< 200		1550	1600	µg/g	96.9	60 - 120	
Acetonitrile	ND	< 100		442	488	µg/g	90.6	60 - 120	
2,3-Dimethylbutane	ND	< 30		160	165	µg/g	97.0	60 - 120	
Dichloromethane	ND	< 60		453	487	µg/g	94.3	60 - 120	
2-Methylpentane	ND	< 30		154	160	µg/g	96.3	60 - 120	
3-Methylpentane	ND	< 30		153	161	µg/g	95.0	60 - 120	
Hexane	ND	< 30		153	162	µg/g	94.4	60 - 120	
Ethyl acetate	ND	< 200		1480	1600	µg/g	92.5	60 - 120	
2-Butanol	ND	< 200		1500	1610	µg/g	93.2	60 - 120	
Tetrahydrofuran	ND	< 100		459	483	µg/g	95.0	60 - 120	
Cyclohexane	ND	< 200		1520	1610	µg/g	94.4	60 - 120	
Benzene	ND	< 1		4.53	4.98	µg/g	91.0	60 - 120	
Isopropyl Acetate	ND	< 200		1490	1610	µg/g	92.5	60 - 120	
Heptane	ND	< 200		1490	1620	µg/g	92.0	60 - 120	
1,4-Dioxane	ND	< 100		452	484	µg/g	91.5	60 - 120	
2-Ethoxyethanol	ND	< 30		153	165	µg/g	92.7	60 - 120	
Ethylene Glycol	ND	< 200		328	488	µg/g	67.5	60 - 120	
Toluene	ND	< 100		436	513	µg/g	85.0	60 - 120	
Ethylbenzene	ND	< 200		843	967	µg/g	87.8	60 - 120	
m,p-Xylene	ND	< 200		863	994	µg/g	87.4	60 - 120	
o-Xylene	ND	< 200		843	982	µg/g	85.0	60 - 120	
Cumene	ND	< 30		144	171	µg/g	84.2	60 - 120	



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QC - Sample Duplicate Sample ID: 23-006174-0001

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	
Pertane	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	100 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	

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.