



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



Report Number: 22-002130/D004.R000
Report Date: 03/03/2022
ORELAP#: OR100028
Purchase Order:
Received: 02/24/22 09:29

Customer: IHC LLC
Product identity: 03DST212
Client/Metric ID: .
Laboratory ID: 22-002130-0001

Summary

Potency:

Analyte	Result (%)		
Δ8-THC†	97.5	<ul style="list-style-type: none"> ● Δ8-THC ● Δ8-THCV ● CBN ● CBT 	
Δ8-THCV	0.613		
CBN	0.281		
CBT†	0.201		
		CBD-Total	<LOQ
		THC-Total	<LOQ
(Reported in percent of total sample)			

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.



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Customer: IHC LLC
 825 NW 16th Ave
 Portland Oregon 97209
 United States of America (USA)

Product identity: 03DST212
Client/Metric ID: .
Sample Date:
Laboratory ID: 22-002130-0001
Evidence of Cooling: No
Temp: 12.6 °C
Relinquished by: Client



Sample Results

Potency	Method J AOAC 2015 V98-6 (mod)	Units %	Batch: 2201736	Analyze: 2/28/22 12:19:00 PM
Analyte	As Received	Dry weight	LOQ	Notes
CBC	< LOQ		0.0901	
CBC-A†	< LOQ		0.0901	
CBC-Total†	< LOQ		0.169	
CBD	< LOQ		0.0901	
CBD-A	< LOQ		0.0901	
CBD-Total	< LOQ		0.169	
CBDV†	< LOQ		0.0901	
CBDV-A†	< LOQ		0.0901	
CBDV-Total†	< LOQ		0.168	
CBE†	< LOQ		0.0901	
CBG†	< LOQ		0.0901	
CBG-A†	< LOQ		0.0901	
CBG-Total	< LOQ		0.168	
CBL†	< LOQ		0.0901	
CBL-A†	< LOQ		0.0901	
CBL-Total†	< LOQ		0.169	
CBN	0.281		0.0901	
CBT†	0.201		0.0901	
Δ8-THC†	97.5		0.901	
Δ8-THCV	0.613		0.0901	
Δ9-THC	< LOQ		0.0901	
THC-A	< LOQ		0.0901	
THC-Total	< LOQ		0.169	
THCV†	< LOQ		0.0901	
THCV-A†	< LOQ		0.0901	
THCV-Total†	< LOQ		0.168	
Total Cannabinoids†	> 98.0			



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 333-007-0410 OAR 333-007-0430



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Solvents					Residual Solvents by GC/MS					Batch 2201817								
Method	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes	Analyze	Method	Result	Limits	LOQ	Status	Notes
	< LOQ	380	100	pass		2-Butanol	< LOQ	5000	200	pass		03/02/22	09:24 AM					
	< LOQ	160	30.0	pass		2-Methylbutane (Isopentane)	< LOQ		200									
	< LOQ		30.0			2-Propanol (IPA)	< LOQ	5000	200	pass								
	< LOQ		30.0			2,2-Dimethylpropane (neo-pentane)	< LOQ		200									
	< LOQ		30.0			3-Methylpentane	< LOQ		30.0									
	< LOQ	5000	200	pass		Acetonitrile	< LOQ	410	100	pass								
	< LOQ	2.00	1.00	pass		Butanes (sum)	< LOQ	5000	400	pass								
	< LOQ	3880	200	pass		Ethyl acetate	< LOQ	5000	200	pass								
	< LOQ		200			Ethyl ether	< LOQ	5000	200	pass								
	< LOQ	620	200	pass		Ethylene oxide	< LOQ	50.0	20.0	pass								
	< LOQ	290	150	pass		Isopropyl acetate	< LOQ	5000	200	pass								
	< LOQ	70.0	30.0	pass		m,p-Xylene	< LOQ		200									
	< LOQ	3000	200	pass		Methylene chloride	< LOQ	600	60.0	pass								
	< LOQ		200			n-Butane	< LOQ		200									
	< LOQ	5000	200	pass		n-Hexane	< LOQ		30.0									
	< LOQ		200			o-Xylene	< LOQ		200									
	< LOQ	5000	600	pass		Propane	< LOQ	5000	200	pass								
	< LOQ	720	100	pass		Toluene	< LOQ	890	100	pass								
	< LOQ		400			Total Xylenes and Ethyl benzene	< LOQ	2170	600	pass								

Pesticides		Method AOAC 2007.01 & EN 15662 (mod)			Units mg/kg		Batch 2201838		Analyze 03/02/22 03:46 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	0.0980	2201749	02/28/22	AOAC 2013.06 (mod.)	pass	X
Cadmium	< LOQ	0.200	mg/kg	0.0980	2201749	02/28/22	AOAC 2013.06 (mod.)	pass	X
Lead	< LOQ	0.500	mg/kg	0.0980	2201749	02/28/22	AOAC 2013.06 (mod.)	pass	X
Mercury	< LOQ	0.100	mg/kg	0.0490	2201749	02/28/22	AOAC 2013.06 (mod.)	pass	X

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Testing in accordance with: OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430



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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

µg/g = Microgram per gram

mg/kg = Milligram per kilogram = parts per million (ppm)

% = Percentage of sample

% 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	EPTC	0.100
Acetamiprid	0.020	Cbfentezine	0.020	Esfenvalerate/ Fenvalerate	0.200
Acetochlor	0.100	Cbmazone	0.020	Etaconazole	0.100
Acrinathrin	0.100	Cbthianidin	0.200	Ethalfuralin	0.100
Adchlor	0.100	Caumaphos	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	Cyatr aniliprole	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	Dadnal	0.100	Fenamiphos	0.020
Azoxystrobin	0.020	Damnozide	0.100	Fenamiphos sulfone	0.020
Beralaxyl	0.020	DCPMU	0.050	Fenamiphos sulfoxide	0.020
Berdiocarb	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	Fensulfiothion	0.020
Bromopropylate	0.100	Dichlobenil	0.100	Fensulfiothion oxon	0.020
Bromuconazole	0.100	Dichlofluanid	0.100	Fensulfiothion sulfone	0.100
Bupirimate	0.020	Dichlorvos	0.100	Fensulfiothion-oxon-sulfone	0.020
Buprofezin	0.050	Diclobutrazol	0.050	Fenthion	0.050
Butadlor	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	Rufenacet	0.020
Carbozin	0.020	Dinotefuran	0.200	Rumioxazin	0.100
Carfentrazone-ethyl	0.100	Dioxathion	0.100	Fuometuron	0.020
Chlorantriliprole	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	Fuoxastrobin	0.050
Chlorfenapyr	0.500	Disulfoton sulfone	0.100	Flupyradifurone	0.020
Chlorfenoxon	0.200	Disulfoton sulfoxide	0.100	Furidone	0.100
Chlorfenvinphos	0.050	Diuron	0.050	Fusilazole	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
CIPC	1.000				



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Compound	LOQ(mg/kg)	Compound	LOQ(mg/kg)	Compound	LOQ(mg/kg)
Fomesafen	0.100	Mexacarbate	0.020	Propamocarb	0.050
Fonofos	0.100	MGK 264	0.020	Proparil	0.050
Forchlorfenuron	0.050	Mirex	0.100	Propargite	0.050
Formetanate	0.050	Molinate	0.050	Propazine	0.020
Furathiocarb	0.020	Monocrotophos	0.100	Propetamphos	0.050
Heptachlor	0.100	Monolinuron	0.020	Propham	0.050
Heptachlor epoxide	0.100	Myclobutanil	0.050	Propiconazole	0.050
Heptenophos	0.100	Naled	0.100	Propoxur	0.050
Hexachlorobenzene	0.100	Napropamide	0.050	Propoxycarbazone Na	0.050
Hexaconazole	0.100	Neburon	0.020	Propyzamide	0.050
Hexazinone	0.100	Nitrapyrin	0.100	Prothiofos	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	Smazine	0.100
Isoxaben	0.050	Pertachloroaniline	0.100	Smectryl	0.200
Isoxaflutole	0.050	Pertachloroanisole	0.100	Spinetoram	0.020
Kresoxim-methyl	0.050	Pentachlorobenzene (PCB)	0.100	Spinosad	0.050
Lactofen	0.500	Pentachlorothioanisole (PCTA)	0.100	Spirodiclofen	0.100
Lenadi	0.100	Perthiopyrad	0.020	Spiromesifen	0.050
Lindane (gammaBHC)	0.100	Pemethrin	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	Profluralin	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	Propadlor	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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Hemp / Cannabis Usable / Extract / Finished Products
Chain of Custody Record

Revision: 4.00 Control: 07023 Rev 02/24/2021 Eff: 03/04/2021
 ORELAP ID: OR30008

Company: IHC Contact: Kyle Farook Street: 431 NW Flanders St City: Portland State: OR Zip: 97209 <input type="checkbox"/> Email Results: dropbox Fx: (b1) b061b-4 <input type="checkbox"/> Fx Results: () Billing (if different): beth@thehampcollect.com				Analysis Requested Pre-CBDA - CBDA compounds Pre-CBD Multi-Residue - 375 compounds PCBDA Residual Solvents Moisture & Water Activity Terpenes Micro: Yeast and Mold Micro: E. Coli and Total Coliform Heavy Metals Mycotoxins Other:										PD Number: Project Number: Project Name: Custom Reporting: Report to State: <input type="checkbox"/> METRC or <input type="checkbox"/> Other: Turnaround time: <input checked="" type="checkbox"/> 5 Business Day Standard Turnaround <input type="checkbox"/> 3 Business Day Rush Turnaround* <input type="checkbox"/> 2 Business Day Rush Turnaround* <small>*Check for availability</small> Sampled by:			
Lab ID	Client Sample Identification	Date	Time	Pre-CBDA - CBDA compounds	Pre-CBD Multi-Residue - 375 compounds	PCBDA	Residual Solvents	Moisture & Water Activity	Terpenes	Micro: Yeast and Mold	Micro: E. Coli and Total Coliform	Heavy Metals	Mycotoxins	Other	Sample Type	Weight (Units)	Comments/Metric ID
1	03DST212	2/24		X	X	X						X			C		
2	05ISO216	2/24			X										I		
3	0109CML301	2/24			X										E		
4																	
5																	
6																	
7																	
8																	
9																	
10																	
Acquired by:		Date:	Time:	Received by:		Date:	Time:	Lab Use Only:									
Kyle Farook		2/24	10:00 A	DS		2/24/22	9:29	<input type="checkbox"/> Shipped Via: _____ or <input checked="" type="checkbox"/> Client Drop Evidence of cooling: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No - Temp (C): 12.6°C Sample in good condition: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Cink <input type="checkbox"/> Check <input type="checkbox"/> CC <input type="checkbox"/> Met: _____ Prelog storage: _____									

* - Sample Type Codes: Vegetation (V) ; Isolates (I) ; Extract/Concentrate (C) ; Tincture/Topical (T) ; Edible (E) ; Beverage (B)

Sample submitted to Columbia Laboratories with testing requirements constitutes an agreement for services to be provided in accordance with the current state of Oregon and/or with the CTR. By stating "As Represented" you are agreeing to these terms.
 12423 NE Whitaker Way, Portland, OR 97230 P: (503) 254-1794 | Fax: (503) 254-1482 www.columbialaboratories.com



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

Laboratory Quality Control Results

JAOAC2015 V986 Batch ID: 2201736

Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	0.199	0.2	%	99.5	85.0 - 115	Acceptable	
CBDV	0.227	0.2	%	114	85.0 - 115	Acceptable	
CBE	0.189	0.2	%	94.6	85.0 - 115	Acceptable	
CEDA	0.210	0.2	%	105	85.0 - 115	Acceptable	
CEGA	0.195	0.2	%	97.7	85.0 - 115	Acceptable	
CEG	0.205	0.2	%	102	85.0 - 115	Acceptable	
CEB	0.199	0.2	%	99.7	85.0 - 115	Acceptable	
THCV	0.190	0.2	%	95.0	85.0 - 115	Acceptable	
d8THCV	0.189	0.2	%	94.3	85.0 - 115	Acceptable	
THCVA	0.190	0.2	%	95.1	85.0 - 115	Acceptable	
CBN	0.205	0.2	%	102	85.0 - 115	Acceptable	
exo-THC	0.177	0.2	%	88.6	85.0 - 115	Acceptable	
d8THC	0.199	0.2	%	99.3	85.0 - 115	Acceptable	
d8THC	0.196	0.2	%	98.1	85.0 - 115	Acceptable	
CBL	0.181	0.2	%	90.4	85.0 - 115	Acceptable	
CEC	0.206	0.2	%	103	85.0 - 115	Acceptable	
THCA	0.203	0.2	%	102	85.0 - 115	Acceptable	
CECA	0.199	0.2	%	99.3	85.0 - 115	Acceptable	
CBLA	0.200	0.2	%	99.9	85.0 - 115	Acceptable	
CBF	0.183	0.2	%	91.5	85.0 - 115	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	< LOQ	0.1	%	< 0.1	Acceptable	
CBDV	< LOQ	0.1	%	< 0.1	Acceptable	
CBE	< LOQ	0.1	%	< 0.1	Acceptable	
CEDA	< LOQ	0.1	%	< 0.1	Acceptable	
CEGA	< LOQ	0.1	%	< 0.1	Acceptable	
CEG	< LOQ	0.1	%	< 0.1	Acceptable	
CEB	< LOQ	0.1	%	< 0.1	Acceptable	
THCV	< LOQ	0.1	%	< 0.1	Acceptable	
d8THCV	< LOQ	0.1	%	< 0.1	Acceptable	
THCVA	< LOQ	0.1	%	< 0.1	Acceptable	
CBN	< LOQ	0.1	%	< 0.1	Acceptable	
exo-THC	< LOQ	0.1	%	< 0.1	Acceptable	
d8THC	< LOQ	0.1	%	< 0.1	Acceptable	
d8THC	< LOQ	0.1	%	< 0.1	Acceptable	
CBL	< LOQ	0.1	%	< 0.1	Acceptable	
CEC	< LOQ	0.1	%	< 0.1	Acceptable	
THCA	< LOQ	0.1	%	< 0.1	Acceptable	
CECA	< LOQ	0.1	%	< 0.1	Acceptable	
CBLA	< LOQ	0.1	%	< 0.1	Acceptable	
CBF	< LOQ	0.1	%	< 0.1	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: 22-002130/D004.R000
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Revision: 1 Document ID: 7148
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Laboratory Quality Control Results

JAOAC2015 V986		Batch ID: 2201736						
Sample Duplicate		Sample ID: 22-002126-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDA	< LOQ	< LOQ	0.1	%	NA	< 20	Acceptable	
CBV	0.386	0.411	0.1	%	6.42	< 20	Acceptable	
CB	0.663	0.725	0.1	%	8.99	< 20	Acceptable	
CBDA	< LOQ	< LOQ	0.1	%	NA	< 20	Acceptable	
CBGA	< LOQ	< LOQ	0.1	%	NA	< 20	Acceptable	
CBG	0.204	0.220	0.1	%	7.47	< 20	Acceptable	
CB	83.0	90.0	0.1	%	8.18	< 20	Acceptable	
THCV	< LOQ	< LOQ	0.1	%	NA	< 20	Acceptable	
d8THCV	< LOQ	< LOQ	0.1	%	NA	< 20	Acceptable	
THCVA	< LOQ	< LOQ	0.1	%	NA	< 20	Acceptable	
CBN	0.519	0.549	0.1	%	5.68	< 20	Acceptable	
exo-THC	< LOQ	< LOQ	0.1	%	NA	< 20	Acceptable	
d8THC	< LOQ	< LOQ	0.1	%	NA	< 20	Acceptable	
d8THC	< LOQ	< LOQ	0.1	%	NA	< 20	Acceptable	
CB	< LOQ	< LOQ	0.1	%	NA	< 20	Acceptable	
CB	0.895	0.951	0.1	%	6.07	< 20	Acceptable	
THCA	< LOQ	< LOQ	0.1	%	NA	< 20	Acceptable	
CBGA	< LOQ	< LOQ	0.1	%	NA	< 20	Acceptable	
CBGA	< LOQ	< LOQ	0.1	%	NA	< 20	Acceptable	
CB	0.582	0.589	0.1	%	1.19	< 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

Batch ID: 2201817

Residual Solvents				Laboratory Control Sample					
Method Blank				Result	Spike	Units	%Rec	Limits	Notes
Analyte	Result	LOQ	Notes	Result	Spike	Units	%Rec	Limits	Notes
Propane	ND	< 200		680	572	µg/g	118.9	70	130
Isobutane	ND	< 200		873	731	µg/g	119.4	70	130
Butane	ND	< 200		897	731	µg/g	122.7	70	130
2,2-Dimethylpropane	ND	< 200		1110	938	µg/g	118.6	70	130
Methanol	ND	< 200		1580	1610	µg/g	98.1	70	130
Ethylene Oxide	ND	< 30		68.1	56.2	µg/g	121.2	70	130
2-Methylbutane	ND	< 200		1620	1630	µg/g	99.4	70	130
Pentane	ND	< 200		1540	1610	µg/g	95.7	70	130
Ethanol	ND	< 200		1540	1630	µg/g	94.5	70	130
Ethyl Ether	ND	< 200		1490	1610	µg/g	92.5	70	130
2,2-Dimethylbutane	ND	< 30		162	165	µg/g	98.2	70	130
Acetone	ND	< 200		1610	1610	µg/g	100.0	70	130
2-Propanol	ND	< 200		1570	1610	µg/g	97.5	70	130
Ethyl Formate	ND	< 500		1480	1620	µg/g	91.4	70	130
Acetonitrile	ND	< 100		450	498	µg/g	90.4	70	130
Methyl Acetate	ND	< 500		2060	1810	µg/g	113.8	70	130
2,3-Dimethylbutane	ND	< 30		165	162	µg/g	101.9	70	130
Dichloromethane	ND	< 60		438	498	µg/g	88.0	70	130
2-Methylpentane	ND	< 30		168	167	µg/g	100.6	70	130
MTBE	ND	< 500		1690	1610	µg/g	105.0	70	130
3-Methylpentane	ND	< 30		156	179	µg/g	87.2	70	130
Hexane	ND	< 30		137	164	µg/g	83.5	70	130
1-Propanol	ND	< 500		1670	1620	µg/g	103.1	70	130
Methyl ethyl ketone	ND	< 500		1890	1770	µg/g	106.8	70	130
Ethyl acetate	ND	< 200		1460	1620	µg/g	90.1	70	130
2-Butanol	ND	< 200		1310	1600	µg/g	81.9	70	130
Tetrahydrofuran	ND	< 100		441	500	µg/g	88.2	70	130
Cyclohexane	ND	< 200		1540	1610	µg/g	95.7	70	130
2-methyl-1-propanol	ND	< 500		1590	1610	µg/g	98.8	70	130
Benzene	ND	< 1		5.71	5.62	µg/g	101.6	70	130
Isopropyl Acetate	ND	< 200		1580	1610	µg/g	98.1	70	130
Heptane	ND	< 200		1460	1610	µg/g	90.7	70	130
1-Butanol	ND	< 500		1650	1620	µg/g	101.9	70	130
Propyl Acetate	ND	< 500		1820	1620	µg/g	112.3	70	130
1,4-Dioxane	ND	< 100		384	500	µg/g	76.8	70	130
2-Ethoxyethanol	ND	< 30		148	164	µg/g	89.0	70	130
Methylisobutylketone	ND	< 500		1780	1620	µg/g	109.9	70	130
3-Methyl-1-butanol	ND	< 500		1520	1620	µg/g	93.8	70	130
Ethylene Glycol	ND	< 200		436	500	µg/g	86.9	70	130
Toluene	ND	< 200		452	488	µg/g	92.6	70	130
Isobutyl Acetate	ND	< 500		2020	1700	µg/g	118.8	70	130
1-Pentanol	ND	< 500		1380	1630	µg/g	84.7	70	130
Butyl Acetate	ND	< 500		1530	1660	µg/g	92.2	70	130
Ethylbenzene	ND	< 200		910	969	µg/g	94.3	70	130
m,p-Xylene	ND	< 200		898	990	µg/g	90.5	70	130
o-Xylene	ND	< 200		917	971	µg/g	94.4	70	130
Cumene	ND	< 30		170	179	µg/g	95.0	70	130
Anisole	ND	< 500		1550	1650	µg/g	93.3	70	130
DMSO	ND	< 500		1450	1630	µg/g	89.0	70	130
1,2-dimethoxyethane	ND	< 50		219	165	µg/g	119.7	70	130
Triethylamine	ND	< 500		1520	1620	µg/g	93.8	70	130
N,N-dimethylformamide	ND	< 150		433	495	µg/g	87.4	70	130
N,N-dimethylacetamide	ND	< 150		395	500	µg/g	78.7	70	130
Pyridine	ND	< 50		191	188	µg/g	102.7	70	130
1,2-Dichloroethane	ND	< 1		1.14	1	µg/g	114.0	70	130
Chloroform	ND	< 1		1.1	1	µg/g	110.0	70	130
Tetrachloroethylene	ND	< 1		0.996	1	µg/g	99.6	70	130



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CC - Sample Duplicate Sample ID: 22-002130-0001

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	
MTE	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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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.