Columbia LABORATORIES
A Tentamus Company

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

Report Number: 24-003542/D003.R000
Report Date: 04/08/2024
ORELAP#: OR100028
Purchase Order:
Received: 04/01/24 14:38

Customer: NW Natural Goods
Product identity: HEMP - PR 0075
Client/Metrc ID: .
Laboratory ID: 24-003542-0001

Summary

Potency:

Analyte per 4g	Result	Limits	Units	Status
CBC per 4g	0.156		mg/4g	
CBD per 4g	20.2		mg/4g	
CBDV per 4g	0.162		mg/4g	
CBE per 4g	0.604		mg/4g	
CBG per 4g	10.0		mg/4g	
CBN per 4g	0.156		mg/4g	
CBT per 4g	0.460		mg/4g	

CBD-Total per Serving Size 20.2 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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Product identity: HEMP - PR 0075
Client/Metrc ID: .
Sample Date:
Laboratory ID: 24-003542-0001
Evidence of Cooling: No
Temp: 25 °C
Serving Size #1: 4 g

Sample Results

Potency per 4g **Method:** J AOAC 2015 V98-6 (mod) **Units** mg/se **Batch:** 2402521 **Analyze:** 4/3/24 6:30:00 AM

Analyte	Result	Limits	Units	LOQ	Notes
CBC per 4g	0.156		mg/4g	0.125	
CBC-A per 4g	< LOQ		mg/4g	0.125	
CBC-Total per 4g	< LOQ		mg/4g	0.234	
CBD per 4g	20.2		mg/4g	0.125	
CBD-A per 4g⊥	< LOQ		mg/4g	0.125	
CBD-Total per 4g⊥	20.2		mg/4g	0.234	
CBDV per 4g	0.162		mg/4g	0.125	
CBDV-A per 4g	< LOQ		mg/4g	0.125	
CBDV-Total per 4g	< LOQ		mg/4g	0.233	
CBE per 4g	0.604		mg/4g	0.125	
CBG per 4g	10.0		mg/4g	0.125	
CBG-A per 4g	< LOQ		mg/4g	0.125	
CBG-Total per 4g	10.0		mg/4g	0.233	
CBL per 4g	< LOQ		mg/4g	0.125	
CBL-A per 4g	< LOQ		mg/4g	0.125	
CBL-Total per 4g	< LOQ		mg/4g	0.234	
CBN per 4g	0.156		mg/4g	0.125	
CBT per 4g	0.460		mg/4g	0.125	
Δ8-THCV per 4g	< LOQ		mg/4g	0.125	
Δ10-THC-9R per 4g	< LOQ		mg/4g	0.125	
Δ10-THC-9S per 4g	< LOQ		mg/4g	0.125	
Δ10-THC-Total per 4g	< LOQ		mg/4g	0.249	
Δ8-THC per 4g⊥	< LOQ		mg/4g	0.125	
Δ9-THC per 4g⊥	< LOQ		mg/4g	0.125	
delta-9-THCP per 4g	< LOQ		mg/4g	0.125	
exo-THC per 4g	< LOQ		mg/4g	0.125	
THC-A per 4g⊥	< LOQ		mg/4g	0.125	
THC-Total per 4g	< LOQ		mg/4g	0.234	
THCV per 4g	< LOQ		mg/4g	0.125	
THCV-A per 4g	< LOQ		mg/4g	0.125	
THCV-Total per 4g	< LOQ		mg/4g	0.234	
Total Cannabinoids per 4g	31.8		mg/4g		

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Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed	Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2402476	04/04/24	AOAC 991.14 (Petrifilm)		
Total Coliforms	< LOQ		cfu/g	10	2402476	04/04/24	AOAC 991.14 (Petrifilm)		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2402478	04/05/24	AOAC 2014.05 (RAPID)		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2402478	04/05/24	AOAC 2014.05 (RAPID)		

Solvents

Method: Residual Solvents by GC/MS[þ] **Units** µg/g **Batch** 2402604 **Analyze** 04/05/24 01:19 PM

Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
1,4-Dioxane[¥]	< LOQ	380	100	pass		2-Butanol[¥]	< LOQ	5000	200	pass	
2-Ethoxyethanol[¥]	< LOQ	160	30.0	pass		2-Methylbutane (Isopentane)	< LOQ		200		
2-Methylpentane	< LOQ		30.0			2-Propanol (IPA)[¥]	< LOQ	5000	200	pass	
2,2-Dimethylbutane	< LOQ		30.0			2,2-Dimethylpropane (neo-pentane)	< LOQ		200		
2,3-Dimethylbutane	< LOQ		30.0			3-Methylpentane	< LOQ		30.0		
Acetone[¥]	< LOQ	5000	200	pass		Acetonitrile[¥]	< LOQ	410	100	pass	
Benzene[¥]	< LOQ	2.00	1.00	pass		Butanes (sum)	< LOQ	5000	400	pass	
Cyclohexane[¥]	< LOQ	3880	200	pass		Ethyl acetate[¥]	< LOQ	5000	200	pass	
Ethyl benzene	< LOQ		200			Ethyl ether[¥]	< LOQ	5000	200	pass	
Ethylene glycol[¥]	< LOQ	620	200	pass		Ethylene oxide[¥]	< LOQ	50.0	20.0	pass	
Hexanes (sum)	< LOQ	290	150	pass		Isopropyl acetate[¥]	< LOQ	5000	200	pass	
Isopropylbenzene (Cumene)[¥]	< LOQ	70.0	30.0	pass		m,p-Xylene	< LOQ		200		
Methanol[¥]	< LOQ	3000	200	pass		Methylene chloride[¥]	< LOQ	600	60.0	pass	
Methylpropane (Isobutane)	< LOQ		200			n-Butane	< LOQ		200		
n-Heptane[¥]	< LOQ	5000	200	pass		n-Hexane[¥]	< LOQ		30.0		
n-Pentane[¥]	< LOQ		200			o-Xylene	< LOQ		200		
Pentanes (sum)	< LOQ	5000	600	pass		Propane[¥]	< LOQ	5000	200	pass	
Tetrahydrofuran[¥]	< LOQ	720	100	pass		Toluene[¥]	< LOQ	890	100	pass	
Total Xylenes[¥]	< LOQ		400			Total Xylenes and Ethyl benzene	< LOQ	2170	600	pass	

Pesticides

Method: AOAC 2007.01 & EN 15662 (mod) **Units** mg/kg **Batch** 2402568 **Analyze** 04/04/24 02:21 PM

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

Metals

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed	Method	Status	Notes
Arsenic[¥]	< LOQ	0.200	mg/kg	0.0147	2402546	04/03/24	AOAC 2013.06 (mod.)[þ]	pass	
Cadmium[¥]	< LOQ	0.200	mg/kg	0.0147	2402546	04/03/24	AOAC 2013.06 (mod.)[þ]	pass	
Lead[¥]	< LOQ	0.500	mg/kg	0.0147	2402546	04/03/24	AOAC 2013.06 (mod.)[þ]	pass	
Mercury[¥]	< LOQ	0.100	mg/kg	0.00737	2402546	04/03/24	AOAC 2013.06 (mod.)[þ]	pass	

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Nutrition

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed	Method	Status	Notes
Moisture (Loss on Drying)	18.2		g/100g	0.10	2402564	04/03/24	AOAC 925.10 (mod.)		
Water Activity	0.659		Aw	0.030	2402530	04/03/24	AOAC 978.18		

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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.

ᵇ = 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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P2320 Multi-Residue Pesticide Profile
Cannabis

Analyte	LOQ (mg/kg)
2,4-D	0.1
Abamectin	0.1
Acephate	0.2
Acequinocyl	0.2
Acetamiprid	0.1
Acetochlor	0.2
Acrinathrin	0.1
Alachlor	0.1
Aldicarb	0.1
Aldoxycarb	0.1
Aldrin	0.1
Ametoctradin	0.1
Ametryn	0.1
Anilazine	0.1
Aspon	0.1
Asulam	0.1
Atrazine	0.1
Atrazine-desethyl	0.1
Azinphos-ethyl	0.1
Azinphos-methyl	0.1
Azoxystrobin	0.1
Benalaxyl	0.1
Bendiocarb	0.1
Benoxacor	0.1
Bensulide	0.1
Bentazon	0.1
Bifenazate	0.1
Bifenox	0.1
Bifenthrin	0.1
Binapacryl	0.1
Boscalid	0.1
Bromacil	0.1
Bromophos-ethyl	0.1
Bromopropylate	0.1
Bromoxynil	0.1
Bupirimate	0.1
Buprofezin	0.1
Butachlor	0.1
Butylate	0.1
Cadusafos	0.1
Captan	0.2
Carbaryl	0.1
Carbendazim	0.1
Carbofuran	0.1
Carbofuran 3-hydroxy	0.1
Carbophenothion	0.1
Carbophenothion-methyl	0.1
Carboxin	0.1

Analyte	LOQ (mg/kg)
Chlorantraniliprol	0.1
Chlordane, cis-	0.1
Chlordane, trans-	0.1
Chlorfenapyr	0.1
Chlorfenvinphos	0.1
Chlorobenzilate	0.1
Chlorpyrifos-ethyl	0.1
Chlorpyrifos-methyl	0.1
Chlorthal-dimethyl (Dacthal)	0.1
Clethodim	0.1
Clethodim sulfone	0.1
Clethodim sulfoxide	0.1
Clofentezine	0.1
Clomazone	0.1
Clopyralid	0.1
Clothianidin	0.1
Coumaphos	0.1
Crotoxyphos	0.1
Cyanofenphos	0.1
Cyanophos	0.1
Cyantraniliprole	0.1
Cyazofamid	0.1
Cyfluthrin	0.1
Cyhalothrin, lambda	0.1
Cymoxanil	0.1
Cypermethrin	0.1
Cyprodinil	0.1
DDD, o,p'-	0.1
DDD, p,p'-	0.1
DDE, o,p'-	0.1
DDE, p,p'-	0.1
DDT, o,p'-	0.1
DDT, p,p'-	0.1
DEET	0.1
Deltamethrin	0.1
Demeton-S	0.1
Demeton-s-methyl	0.1
Demeton-S-methyl-sulfone	0.1
Desmedipham	0.1
Diazinon	0.1
Dicamba	0.1
Dichlofenthion	0.1
Dichlofluanid	0.1
Dichlorbenzamid	0.1
Dichlorvos	0.1
Diclofop	0.1
Diclofop-methyl	0.1
Dicrotophos	0.1

Analyte	LOQ (mg/kg)
Dieldrin	0.1
Diethofencarb	0.1
Difenoconazol	0.1
Diflubenzuron	0.1
Diflufenzopyr	0.1
Dimethenamid	0.1
Dimethoat	0.1
Dimethomorph	0.1
Dinoseb	0.1
Dinotefuran	0.1
Dioxathion	0.1
Diphenamid	0.1
Diphenylamine (DPA)	0.1
Disulfoton	0.1
Disulfoton-sulfone	0.1
Disulfoton-Sulfoxide	0.1
Diuron	0.1
DNOC	0.1
Edifenphos	0.1
Endosulfan (alpha isomer)	0.1
Endosulfan (beta isomer)	0.1
Endosulfan-sulfate	0.1
Endrin	0.1
EPN	0.1
EPTC	0.1
Esfenvalerate/Fenvalerate	0.1
Ethiofencarb	0.1
Ethion	0.1
Ethofumesate	0.1
Ethoprophos	0.1
Etofenprox	0.1
Etoxazole	0.1
Etrimfos	0.1
Famoxadone	0.1
Famphur	0.1
Fenamiphos	0.1
Fenamiphos-Sulfone	0.1
Fenamiphos-Sulfoxide	0.1
Fenazaquin	0.1
Fenbuconazole	0.1
Fenhexamid	0.1
Fenobucarb	0.1
Fenoxycarb	0.1
Fenpropathrin	0.1
Fensulfothion	0.1
Fenthion	0.1
Fenuron	0.1
Fipronil	0.1

LOQ= Limit of Quantitation
mg/kg= milligram per kilogram (ppm)

Updated: 09.12.2022

Testing in accordance with: OAR 333-007-0390 OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430

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P2320 Multi-Residue Pesticide Profile
Cannabis

Analyte	LOQ (mg/kg)
Flonicamid	0.1
Fluazifop	0.1
Fluazinam	0.1
Flucythrinate	0.1
Fludioxonil	0.1
Flufenacet	0.1
Flumioxazin	0.1
Fluopicolide	0.1
Fluopyram	0.1
Fluoxastrobin	0.1
Flupyradifurone	0.1
Fluridone	0.1
Fluroxypyr	0.1
Fluthiacet-methyl	0.1
Flutolanil	0.1
Flutriafol	0.1
Fluvalinate	0.1
Fluxapyroxad	0.1
Fomesafen	0.1
Formetanate	0.1
Furathiocarb	0.1
Haloxyfop	0.1
Heptachlor	0.1
Heptachlor epoxide	0.1
Hexaconazole	0.1
Hexazinone	0.1
Hexythiazox	0.1
Hydropene	0.1
Imazalil	0.1
Imazethapyr	0.1
Imidacloprid	0.1
Indaziflam	0.1
Indoxacarb	0.1
Iprobenfos	0.1
Iprodion	0.1
Isobenzan	0.1
Isofenphos	0.1
Isofenphos-methyl	0.1
Isofenphos-oxon	0.1
Isoprocarb	0.1
Isoprothiolane	0.1
Isoproturon	0.1
Isoxaben	0.1
Kresoxim-methyl	0.1
Lindane	0.1
Linuron	0.1
Malaoxon	0.1
Malathion	0.1

Analyte	LOQ (mg/kg)
Mandipropamid	0.1
MCPA	0.1
MCPB	0.1
MCPP	0.1
Mecabarm	0.1
Mepanipyrim	0.1
Mesotrione	0.1
Metalaxyl	0.1
Methamidophos	0.1
Methiocarb	0.1
Methiocarb sulfone	0.1
Methiocarb sulfoxide	0.1
Methomyl	0.1
Methoxyfenozide	0.1
Metolachlor	0.1
Metolcarb	0.1
Metrafenone	0.1
Mevinphos	0.1
MGK 264	0.1
Molinat	0.1
Monocrotophos	0.1
Monolinuron	0.1
Myclobutanil	0.1
Naled	0.1
Napropamide	0.1
Neburon	0.1
Norflurazon	0.1
Novaluron	0.1
Omethoat	0.1
Oryzalin	0.1
Oxadiazon	0.1
Oxadixyl	0.1
Oxamyl	0.1
Oxamyl-oxime	0.1
Oxychlordane	0.1
Oxydemeton-Methyl	0.1
Oxyfluorfen	0.1
Paclobutrazol	0.1
Paraoxon-ethyl	0.1
Paraoxon-methyl	0.1
Parathion-methyl	0.1
Penconazole	0.1
Pendimethalin	0.1
Penflufen	0.1
Penthiopyrad	0.1
Permethrin	0.1
Perthane	0.1
Phenmedipham	0.1

Analyte	LOQ (mg/kg)
Phenothrin	0.1
Phenthoate	0.1
Phorate	0.1
Phorate-Sulfone	0.1
Phorate-Sulfoxide	0.1
Phosalone	0.1
Phosmet	0.1
Phosphamidon	0.1
Phoxim	0.1
Pinoxaden	0.1
Piperonyl Butoxide	0.1
Pirimicarb	0.1
Pirimiphos-ethyl	0.1
Pirimiphos-methyl	0.1
Prallethrin	0.1
Prochloraz	0.1
Procymidone	0.1
Profenofos	0.1
Promecarb	0.1
Prometon	0.1
Prometryn	0.1
Propachlor	0.1
Propamocarb	0.1
Propanil	0.1
Propazine	0.1
Propetamophos	0.1
Propham	0.1
Propiconazole	0.1
Propoxur	0.1
Propyzamide	0.1
Prothiofos	0.1
Pyraclostrobin	0.1
Pyraflufen Ethyl	0.1
Pyrazophos	0.1
Pyrethrin	0.1
Pyridaben	0.1
Pyrimethanil	0.1
Pyriproxifen	0.1
Pyroxasulfone	0.1
Pyroxsulam	0.1
Quinalphos	0.1
Quinclorac	0.1
Quinoxyfen	0.1
Quintozene(PCNB)	0.2
Quizalofop	0.1
Resmethrin	0.1
Rotenone	0.1
Saflufenacil	0.1

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P2320 Multi-Residue Pesticide Profile
Cannabis

Analyte	LOQ (mg/kg)
Sebuthylazin	0.1
Sethoxydim	0.1
Simazine	0.1
Simetryn	0.1
Spinetoram J/L	0.1
Spinosyn A/D	0.1
Spirodiclofen	0.1
Spiromesifen	0.1
Spirotetramat	0.1
Spiroxamine	0.1
Sulfentrazone	0.1
Sulfotep	0.1
Sulfoxaflor	0.1
Sulprofos	0.1
Tebuconazole	0.1
Tebufenozide	0.1
Terbufos	0.1
Terbuthylazine	0.1
Terbutryn	0.1
Tetrachlorvinphos	0.1
Tetraconazole	0.1
Tetramethrin	0.1
Thiabendazol	0.1
Thiabendazol-5-hydroxy	0.1
Thiacloprid	0.1
Thiamethoxam	0.1
Thiobencarb	0.1
Thiodicarb	0.1
Thiometon	0.1
Thiophanate-methyl	0.2
Tolfenpyrad	0.1
Tolylfluanid	0.1
Triadimefon	0.1
Triadimenol	0.1
Triazophos	0.1
Trifloxystrobin	0.1
Triflumizole	0.1
Triticonazole	0.1
Zoxamid	0.1

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Revision: 4 Document ID: 7148
Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

JAOAC2015 V986 — Batch ID: 2402521

Laboratory Control Sample

Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	2	0.0327	0.0324	%	101	80.0 - 120	Acceptable	
CBDV	2	0.0348	0.0346	%	100	80.0 - 120	Acceptable	
CBE	2	0.0348	0.0348	%	99.9	80.0 - 120	Acceptable	
CBDA	1	0.0318	0.0319	%	99.8	90.0 - 110	Acceptable	
CBGA	1	0.0315	0.0316	%	99.8	80.0 - 120	Acceptable	
CBG	1	0.0364	0.0366	%	99.5	80.0 - 120	Acceptable	
CBD	1	0.0353	0.0355	%	99.3	90.0 - 110	Acceptable	
THCV	2	0.0360	0.0356	%	101	80.0 - 120	Acceptable	
d8THCV	2	0.0225	0.0226	%	99.4	80.0 - 120	Acceptable	
THCVA	2	0.0319	0.0317	%	101	80.0 - 120	Acceptable	
CBN	1	0.0333	0.0334	%	99.8	80.0 - 120	Acceptable	
exo-THC	2	0.0354	0.0355	%	99.6	80.0 - 120	Acceptable	
d9THC	1	0.0366	0.0355	%	103	90.0 - 110	Acceptable	
d8THC	1	0.0321	0.0339	%	94.7	90.0 - 110	Acceptable	
9S-d10THC	1	0.0328	0.0333	%	98.5	80.0 - 120	Acceptable	
CBL	2	0.0340	0.0352	%	96.7	80.0 - 120	Acceptable	
9R-d10THC	1	0.0316	0.0326	%	97.1	80.0 - 120	Acceptable	
CBC	2	0.0352	0.0353	%	99.8	80.0 - 120	Acceptable	
THCA	1	0.0324	0.0320	%	101	90.0 - 110	Acceptable	
CBCA	2	0.0334	0.0327	%	102	80.0 - 120	Acceptable	
CBLA	2	0.0345	0.0345	%	99.9	80.0 - 120	Acceptable	
d9THCP	2	0.0324	0.0330	%	98.2	80.0 - 120	Acceptable	
CBT	2	0.0328	0.0349	%	94.0	80.0 - 120	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.0007	%	< 0.0007	Acceptable	
CBDV	<LOQ	0.0007	%	< 0.0007	Acceptable	
CBE	<LOQ	0.0007	%	< 0.0007	Acceptable	
CBDA	<LOQ	0.0007	%	< 0.0007	Acceptable	
CBGA	<LOQ	0.0007	%	< 0.0007	Acceptable	
CBG	<LOQ	0.0007	%	< 0.0007	Acceptable	
CBD	<LOQ	0.0007	%	< 0.0007	Acceptable	
THCV	<LOQ	0.0007	%	< 0.0007	Acceptable	
d8THCV	<LOQ	0.0007	%	< 0.0007	Acceptable	
THCVA	<LOQ	0.0007	%	< 0.0007	Acceptable	
CBN	<LOQ	0.0007	%	< 0.0007	Acceptable	
exo-THC	<LOQ	0.0007	%	< 0.0007	Acceptable	
d9THC	<LOQ	0.0007	%	< 0.0007	Acceptable	
d8THC	<LOQ	0.0007	%	< 0.0007	Acceptable	
9S-d10THC	<LOQ	0.0007	%	< 0.0007	Acceptable	
CBL	<LOQ	0.0007	%	< 0.0007	Acceptable	
9R-d10THC	<LOQ	0.0007	%	< 0.0007	Acceptable	
CBC	<LOQ	0.0007	%	< 0.0007	Acceptable	
THCA	<LOQ	0.0007	%	< 0.0007	Acceptable	
CBCA	<LOQ	0.0007	%	< 0.0007	Acceptable	
CBLA	<LOQ	0.0007	%	< 0.0007	Acceptable	
d9THCP	<LOQ	0.0007	%	< 0.0007	Acceptable	
CBT	<LOQ	0.0007	%	< 0.0007	Acceptable	

Abbreviations

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

Units of Measure:

% - Percent

Columbia LABORATORIES
A Tentamus Company

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

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Report Date: 04/08/2024
ORELAP#: OR100028
Purchase Order:
Received: 04/01/24 14:38

Revision: 4 Document ID: 7148
Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

JAOAC2015 V98 Batch ID: 2402521
Sample Duplicate Sample ID: 24-0034390001

Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00306	%	NA	< 20	Acceptable	
CBDV	0.00404	0.00444	0.00306	%	9.34	< 20	Acceptable	
CBE	0.0146	0.0145	0.00306	%	0.434	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.00306	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.00306	%	NA	< 20	Acceptable	
CBG	0.250	0.249	0.00306	%	0.415	< 20	Acceptable	
CBD	0.503	0.502	0.00306	%	0.215	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.00306	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.00306	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00306	%	NA	< 20	Acceptable	
CBN	0.00387	0.00382	0.00306	%	1.18	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00306	%	NA	< 20	Acceptable	
d9THC	<LOQ	<LOQ	0.00306	%	NA	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.00306	%	NA	< 20	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.00306	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.00306	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.00306	%	NA	< 20	Acceptable	
CBC	0.00387	0.00386	0.00306	%	0.252	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00306	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.00306	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.00306	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00306	%	NA	< 20	Acceptable	
CBT	0.0113	0.0112	0.00306	%	0.935	< 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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ORELAP#: OR100028
Purchase Order:
Received: 04/01/24 14:38

Revision: 2 Document ID: 7087
Legacy ID: CFL-E33Effective:

Laboratory Quality Control Results

Residual Solvents — Batch ID: 2402604

Method Blank					Laboratory Control Sample							
Analyte	Result		LOQ	Notes	Result	Spike	Units	%Rec	Limits			Notes
Propane	ND	<	200		477	584	µg/g	81.7	60	-	120	
Isobutane	ND	<	200		594	767	µg/g	77.4	60	-	120	
Butane	ND	<	200		602	782	µg/g	77.0	60	-	120	
2,2-Dimethylpropane	ND	<	200		716	939	µg/g	76.3	60	-	120	
Methanol	ND	<	200		1430	1600	µg/g	89.4	60	-	120	
Ethylene Oxide	ND	<	30		45.1	57.1	µg/g	79.0	60	-	120	
2-Methylbutane	ND	<	200		1410	1600	µg/g	88.1	60	-	120	
Pentane	ND	<	200		1410	1600	µg/g	88.1	60	-	120	
Ethanol	ND	<	200		1380	1600	µg/g	86.3	70	-	130	
Ethyl Ether	ND	<	200		1350	1600	µg/g	84.4	60	-	120	
2,2-Dimethylbutane	ND	<	30		138	163	µg/g	84.7	60	-	120	
Acetone	ND	<	200		1400	1610	µg/g	87.0	60	-	120	
2-Propanol	ND	<	200		1380	1600	µg/g	86.3	60	-	120	
Ethyl Formate	ND	<	500		1370	1620	µg/g	84.6	70	-	130	
Acetonitrile	ND	<	100		407	481	µg/g	84.6	60	-	120	
Methyl Acetate	ND	<	500		1380	1610	µg/g	85.7	70	-	130	
2,3-Dimethylbutane	ND	<	30		140	161	µg/g	87.0	60	-	120	
Dichloromethane	ND	<	60		393	481	µg/g	81.7	60	-	120	
2-Methylpentane	ND	<	30		129	162	µg/g	79.6	60	-	120	
MTBE	ND	<	500		1360	1610	µg/g	84.5	70	-	130	
3-Methylpentane	ND	<	30		130	163	µg/g	79.8	60	-	120	
Hexane	ND	<	30		134	163	µg/g	82.2	60	-	120	
1-Propanol	ND	<	500		1460	1600	µg/g	91.3	70	-	130	
Methylethylketone	ND	<	500		1430	1610	µg/g	88.8	70	-	130	
Ethyl acetate	ND	<	200		1390	1610	µg/g	86.3	60	-	120	
2-Butanol	ND	<	200		1360	1600	µg/g	85.0	60	-	120	
Tetrahydrofuran	ND	<	100		392	487	µg/g	80.5	60	-	120	
Cyclohexane	ND	<	200		1300	1610	µg/g	80.7	60	-	120	
2-methyl-1-propanol	ND	<	500		1330	1610	µg/g	82.6	70	-	130	
Benzene	ND	<	1		3.71	4.88	µg/g	76.0	60	-	120	
Isopropyl Acetate	ND	<	200		1370	1610	µg/g	85.1	60	-	120	
Heptane	ND	<	200		1370	1600	µg/g	85.6	60	-	120	
1-Butanol	ND	<	500		1320	1610	µg/g	82.0	70	-	130	
Propyl Acetate	ND	<	500		1390	1610	µg/g	86.3	70	-	130	
1,4-Dioxane	ND	<	100		372	484	µg/g	76.9	60	-	120	
2-Ethoxyethanol	ND	<	30		137	162	µg/g	84.6	60	-	120	
Methylisobutylketone	ND	<	500		1380	1630	µg/g	84.7	70	-	130	
3-Methyl-1-butanol	ND	<	500		1300	1610	µg/g	80.7	70	-	130	
Ethylene Glycol	ND	<	200		363	496	µg/g	73.2	60	-	120	
Toluene	ND	<	100		380	486	µg/g	78.2	60	-	120	
Isobutyl Acetate	ND	<	500		1380	1610	µg/g	85.7	70	-	130	
1-Pentanol	ND	<	500		1320	1600	µg/g	82.5	70	-	130	
Butyl Acetate	ND	<	500		1340	1600	µg/g	83.8	70	-	130	
Ethylbenzene	ND	<	200		724	961	µg/g	75.3	60	-	120	
m,p-Xylene	ND	<	200		731	973	µg/g	75.1	60	-	120	
o-Xylene	ND	<	200		704	963	µg/g	73.1	60	-	120	
Cumene	ND	<	30		115	164	µg/g	70.1	60	-	120	
Anisole	ND	<	500		1180	1600	µg/g	73.8	70	-	130	
DMSO	ND	<	500		1370	1610	µg/g	85.1	70	-	130	
1,2-dimethoxyethane	ND	<	50		157	170	µg/g	92.4	70	-	130	
Triethylamine	ND	<	500		1090	1600	µg/g	68.1	70	-	130	Q6
N,N-dimethylformamide	ND	<	150		357	482	µg/g	74.1	70	-	130	
N,N-dimethylacetamide	ND	<	150		383	488	µg/g	78.5	70	-	130	
Pyridine	ND	<	50		122	164	µg/g	74.4	70	-	130	
Sulfolane	ND	<	50		106	169	µg/g	62.7	70	-	130	Q6
1,2-Dichloroethane	ND	<	1		0.94	1	µg/g	94.0	70	-	130	
Chloroform	ND	<	1		0.953	1	µg/g	95.3	70	-	130	
Trichloroethylene	ND	<	1		0.959	1	µg/g	95.9	70	-	130	
1,1-Dichloroethane	ND	<	1		0.95	1	µg/g	95.0	70	-	130	

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ORELAP#: OR100028
Purchase Order:
Received: 04/01/24 14:38

Revision: 2 Document ID: 7087
Legacy ID: CFL-E33Effective:

QC- Sample Duplicate — Sample ID: 24-003444-0001

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	
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	
Methylethylketone	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	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	
Sulfolane	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	
1,1-Dichloroethane	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

Columbia LABORATORIES
A Tentamus Company

12423 NE Whitaker Way
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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	Quantitaion 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.