



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



Report Number: 22-002895/D002.R000
Report Date: 03/23/2022
ORELAP#: OR100028
Purchase Order: 0058
Received: 03/14/22 10:44

Customer: FSOil
Product identity: 2-10A-796-03037
Client/Metric ID: .
Laboratory ID: 22-002895-0001

Summary

Potency:

Analyte	Result (%)	- CBD - CBC - CBE - CBN - CBG - CBT - CBD-A - CBDV	CBD-Total 69.4%	
CBD	68.6		THC-Total <LOQ	
CBC	2.20		(Reported in percent of total sample)	
CBE†	1.89			
CBN	1.60			
CBG†	1.30			
CBT†	1.06			
CBD-A	0.906			
CBDV†	0.283			

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

Analyte	Result (mg/kg)	Limits (mg/kg)	Status
Pendimethalin†	0.12		
Ethofumesate†	0.080		

Terpenes:

Analyte	Percent by weight	Percent of Total	Analyte	Percent by weight	Percent of Total
a-Bisabolol†	0.0389	100.00%	Total Terpenes†	0.0389	100.00%

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.



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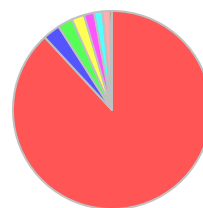


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Customer: FSOil
33739 S Meridian Rd
Woodburn Oregon 97071
United States of America (USA)
Product identity: 2-10A-796-03037
Client/Metric ID: .
Sample Date:
Laboratory ID: 22-002895-0001
Evidence of Cooling: No
Temp: 17.8 °C
Relinquished by: UPS

Sample Results

Potency	Method J AOAC 2015 V98-6 (mod)			Units %	Batch: 2202368	Analyze: 3/18/22 2:54:00 PM
Analyte	As Received	Dry weight	LOQ	Notes		
CBC	2.20		0.0853			
CBC-A†	< LOQ		0.0853			
CBC-Total†	2.20		0.160			
CBD	68.6		0.853			
CBD-A	0.906		0.0853			
CBD-Total	69.4		0.927			
CBDV†	0.283		0.0853			
CBDV-A†	< LOQ		0.0853			
CBDV-Total†	0.283		0.159			
CBE†	1.89		0.0853			
CBG†	1.30		0.0853			
CBG-A†	< LOQ		0.0853			
CBG-Total	1.30		0.159			
CBL†	< LOQ		0.0853			
CBL-A†	< LOQ		0.0853			
CBL-Total†	< LOQ		0.160			
CBN	1.60		0.0853			
CBT†	1.06		0.0853			
Δ8-THC†	< LOQ		0.0853			
Δ8-THCV	< LOQ		0.0853			
Δ9-THC	< LOQ		0.0853			
THC-A	< LOQ		0.0853			
THC-Total	< LOQ		0.160			
THCV†	< LOQ		0.0853			
THCV-A†	< LOQ		0.0853			
THCV-Total†	< LOQ		0.159			
Total Cannabinoids†	77.8					



● CBD
● CBC
● CBE
● CBN
● CBG
● CBT
● CBD-A
● CBDV



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Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
Aerobic Plate Count	< LOQ		cfu/g	10	2202210	03/17/22	AOAC 990.12 (Petrifilm)	X	
E.coli	< LOQ		cfu/g	10	2202208	03/17/22	AOAC 991.14 (Petrifilm)	X	
Total Coliforms	< LOQ		cfu/g	10	2202208	03/17/22	AOAC 991.14 (Petrifilm)	X	
Staphylococcus aureus	< LOQ		cfu/g	10	2202212	03/16/22	AOAC 2003.07	X	
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2202209	03/18/22	AOAC 2014.05 (RAPID)	X	
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2202209	03/18/22	AOAC 2014.05 (RAPID)	X	
Salmonella spp. by PCR	Negative		/25g		2202213	03/16/22	AOAC 2020.02	X	

Solvents	Method	Residual Solvents by GC/MS				Units µg/g	Batch	2202253				Analyze	03/16/22 09:24 AM	
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes			
1,2-Dichloroethane [†]	< LOQ	1	1.00			2-Propanol (IPA)	< LOQ	5000	200					
Acetone	< LOQ	5000	200			Acetonitrile	< LOQ	410	100					
Benzene	< LOQ	1.00	1.00			Chloroform [†]	< LOQ	1.00	1.00					
Ethyl acetate	< LOQ	5000	200			Ethyl ether	< LOQ	5000	200					
Ethylene oxide	< LOQ	1.00	1.00			m,p-Xylene	< LOQ		200					
Methanol	< LOQ	3000	200			Methylene chloride	< LOQ	1.00	1.00					
n-Butane	< LOQ	5000	200			n-Heptane	< LOQ	5000	200					
n-Hexane	< LOQ	290	30.0			n-Pentane	< LOQ	5000	200					
o-Xylene	< LOQ		200			Propane	< LOQ	5000	200					
Toluene	< LOQ	890	100			Total Xylenes	< LOQ	2170	400					
Trichloroethylene [†]	< LOQ	1.00	1.00											

Pesticides	Method AOAC 2007.01 & EN 15662 (mod)					Units mg/kg	Batch 2202326	Analyze 03/21/22 03:53 PM			
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Ethofumesate†	0.080		0.050			Pendimethalin†	0.12		0.050		

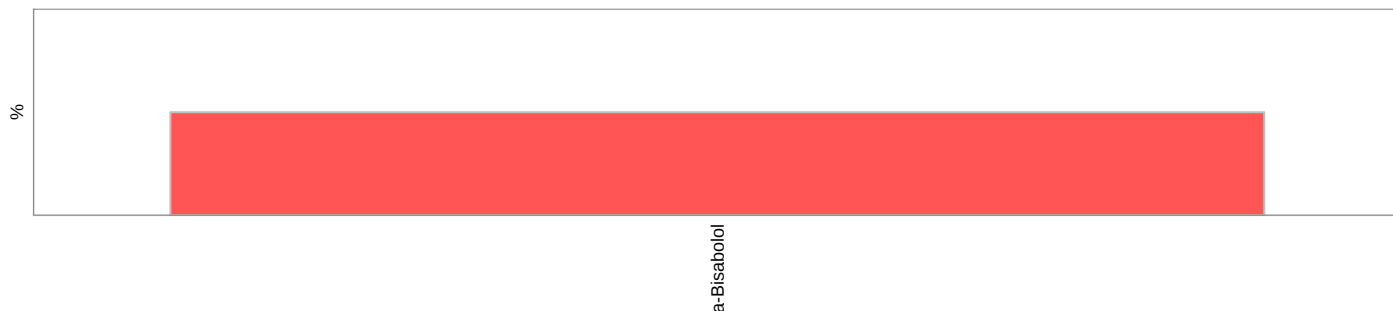


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Terpenes				Method J AOAC 2015 V98-6	Units %	Batch 2202362	Analyze 03/17/22 10:19 PM		
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
a-Bisabolol [†]	0.0389	0.019	100.0000%		farnesene [†]	< LOQ	0.019	0.00%	
(-)-Guaiol [†]	< LOQ	0.019	0.00%		Geraniol [†]	< LOQ	0.019	0.00%	
nerol [†]	< LOQ	0.019	0.00%		Geranyl acetate [†]	< LOQ	0.019	0.00%	
Menthol [†]	< LOQ	0.019	0.00%		trans-β-Ocimene [†]	< LOQ	0.012	0.00%	
(±)-Camphor [†]	< LOQ	0.019	0.00%		(-)-a-Terpineol [†]	< LOQ	0.019	0.00%	
gamma-Terpinene [†]	< LOQ	0.019	0.00%		(+)-Pulegone [†]	< LOQ	0.019	0.00%	
(-)-caryophyllene oxide [†]	< LOQ	0.019	0.00%		Isoborneol [†]	< LOQ	0.019	0.00%	
(+)-Borneol [†]	< LOQ	0.019	0.00%		(±)-trans-Nerolidol [†]	< LOQ	0.019	0.00%	
β-Caryophyllene [†]	< LOQ	0.019	0.00%		(±)-cis-Nerolidol [†]	< LOQ	0.019	0.00%	
Camphene [†]	< LOQ	0.019	0.00%		a-cedrene [†]	< LOQ	0.019	0.00%	
Humulene [†]	< LOQ	0.019	0.00%		(-)-Isopulegol [†]	< LOQ	0.019	0.00%	
(-)-β-Pinene [†]	< LOQ	0.019	0.00%		(+)-Cedrol [†]	< LOQ	0.019	0.00%	
(+)-fenchol [†]	< LOQ	0.019	0.00%		(±)-fenchone [†]	< LOQ	0.019	0.00%	
(R)-(+)-Limonene [†]	< LOQ	0.019	0.00%		a-phellandrene [†]	< LOQ	0.019	0.00%	
a-pinene [†]	< LOQ	0.019	0.00%		a-Terpinene [†]	< LOQ	0.019	0.00%	
cis-β-Ocimene [†]	< LOQ	0.006	0.00%		d-3-Carene [†]	< LOQ	0.019	0.00%	
Eucalyptol [†]	< LOQ	0.019	0.00%		Linalool [†]	< LOQ	0.019	0.00%	
p-Cymene [†]	< LOQ	0.019	0.00%		Sabinene [†]	< LOQ	0.019	0.00%	
Sabinene hydrate [†]	< LOQ	0.019	0.00%		β-Myrcene [†]	< LOQ	0.019	0.00%	
Terpinolene [†]	< LOQ	0.019	0.00%		valencene [†]	< LOQ	0.019	0.00%	
Total Terpenes	0.0389								



Metals									
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
Arsenic	< LOQ	0.20	mg/kg	0.0846	2202499	03/22/22	AOAC 2013.06 (mod.)	pass	X
Cadmium	< LOQ	0.20	mg/kg	0.0846	2202499	03/22/22	AOAC 2013.06 (mod.)	pass	X
Lead	< LOQ	0.50	mg/kg	0.0846	2202499	03/22/22	AOAC 2013.06 (mod.)	pass	X
Mercury	< LOQ	0.10	mg/kg	0.0423	2202499	03/22/22	AOAC 2013.06 (mod.)	pass	X



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Mycotoxins

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
Aflatoxin B2 [†]	< LOQ		µg/kg	5.00	2202297	03/17/22	AOAC 2007.01 & EN 15		
Aflatoxin B1 [†]	< LOQ		µg/kg	5.00	2202297	03/17/22	AOAC 2007.01 & EN 15		
Aflatoxin G1 [†]	< LOQ		µg/kg	5.00	2202297	03/17/22	AOAC 2007.01 & EN 15		
Aflatoxin G2 [†]	< LOQ		µg/kg	5.00	2202297	03/17/22	AOAC 2007.01 & EN 15		
Deoxynivalenol [†]	< LOQ		µg/kg	200	2202297	03/17/22	AOAC 2007.01 & EN 15		
Fumonisin B1 [†]	< LOQ		µg/kg	200	2202297	03/17/22	AOAC 2007.01 & EN 15		
Fumonisin B2 [†]	< LOQ		µg/kg	200	2202297	03/17/22	AOAC 2007.01 & EN 15		
HT2-Toxin [†]	< LOQ		µg/kg	40.0	2202297	03/17/22	AOAC 2007.01 & EN 15		
Ochratoxin A [†]	< LOQ		µg/kg	5.00	2202297	03/17/22	AOAC 2007.01 & EN 15		
Ochratoxin B [†]	< LOQ		µg/kg	2.00	2202297	03/17/22	AOAC 2007.01 & EN 15		
T2-Toxin [†]	< LOQ		µg/kg	20.0	2202297	03/17/22	AOAC 2007.01 & EN 15		
Zearalenone [†]	< LOQ		µg/kg	200	2202297	03/17/22	AOAC 2007.01 & EN 15		



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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

/25g = Per 25g

cfu/g = Colony forming units per gram

µg/g = Microgram per gram

µg/kg = Micrograms per kilogram = parts per billion (ppb)

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	Clethodim	0.050	Endrin	0.100
Acephate	0.100	Clethodim Sulfone	0.050	EPN	0.050
Acequinocyl	0.100	Clethodim Sulfoxide	0.050	EPTC	0.100
Acetamiprid	0.020	Clofentezine	0.020	Esfenvalerate/Fenvalerate	0.200
Acetochlor	0.100	Clomazone	0.020	Etaconazole	0.100
Acrinathrin	0.100	Clothianidin	0.200	Ethalfuralin	0.100
Alachlor	0.100	Coumaphos	0.050	Ethiofencarb	0.050
Aldicarb	0.100	Crotoxyphos	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	Cyantraniliprole	0.050	Ethoprophos	0.020
Ametoctradin	0.020	Cyazofamid	0.020	Etofenprox	0.020
Ametryn	0.500	Cycloate	0.100	Etiozazole	0.020
Aspon	0.100	Cyfluthrin	0.200	Etridiazole	0.100
Asulam	0.100	Cyhalothrin, lambda	0.200	Etrimfos	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	Dacthal	0.100	Fenamiphos	0.020
Azoxystrobin	0.020	Daminozide	0.100	Fenamiphos sulfone	0.020
Benalaxyl	0.020	DCPMU	0.050	Fenamiphos sulfoxide	0.020
Bendiocarb	0.020	DDD, o,p'-	0.100	Fenazaquin	0.100
Benfluralin	0.100	DDD, p,p'-	0.100	Fenbuconazole	0.100
Benoxacor	0.050	DDE, o,p'-	0.100	Fenchlorphos	0.100
Bensulide	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	Deltamethrin	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	Fensulfothion	0.020
Bromopropylate	0.100	Dichlobenil	0.100	Fensulfothion oxon	0.020
Bromuconazole	0.100	Dichlofluanid	0.100	Fensulfothion sulfone	0.100
Bupirimate	0.020	Dichlorvos	0.100	Fensulfothion-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	Fluchloralin	0.100
Carbofuran	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	Fluopicolide	0.050
Chlordane, trans-	0.200	Diphenylamine	0.100	Fluopyram	0.020
Chlorfenapyr	0.500	Disulfoton	0.100	Fluoxastrobin	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	Flutrialol	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	Mexacarb	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	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
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	Oxychlorane	0.100	Pyrimethanil	0.050
Isobenzan	0.100	Oxydemeton-Methyl	0.100	Pyriproxifen	0.020
Isocarbophos	0.500	Oxythioquinox	0.200	Pyroxsulfone	0.020
Isodrin	0.100	Paclobutrazol	0.050	Pyroxsulam	0.020
Isafenphos	0.050	Paraaxon-ethyl	0.020	Quinalphos	0.050
Isafenphos-methyl	0.020	Paraaxon methyl	0.100	Quinoxifen	0.050
Isafenphos oxon	0.050	Parathion ethyl	0.100	Quintozene (PCNB)	0.200
Isoprocarb	0.020	Parathion methyl	0.200	Resmethrin	0.050
Isopropalin	0.200	Penconazole	0.050	Rotenone	0.050
Isoprothiolane	0.050	Pendimethalin	0.050	S421	0.100
Isoproturon	0.050	Penflufen	0.020	Simazine	0.100
Isoxaben	0.050	Pentachloroaniline	0.100	Simetryn	0.200
Isoxaflutole	0.050	Pentachloroanisole	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
Lenacil	0.100	Penthiopyrad	0.020	Spiromesifen	0.050
Lindane (gamma BHC)	0.100	Permethrin	0.050	Spirotetramat	0.050
Linuron	0.020	Perthane	0.100	Spiroxamine	0.020
Malaoxon	0.050	Phenmedipham	0.050	Sulfotep	0.050
Malathion	0.050	Phenthoate	0.050	Sulfoxaflo	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
Methacrifos	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	Procymidone	0.100	Tetramethrin	0.050
Methoxyfenozide	0.020	Profenofos	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	Thiacloprid	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	Tolyfluanid	0.050	Triticonazole	0.050
Tralkoxydim	0.100	Tridiphane	0.500	Vinclozolin	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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Document ID: 3177 Revision: 2
Effective: 06/25/2021
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Job Number: _____ Search Name: _____

Package/Cooler opened on (if different than received date/time) Date: 3/14/22 Time: 10:44

Received By (Initials): DS Logged in by (Initials): _____ Date: _____ Time: _____

1) Were custody seals on outside of the package/cooler? YES NO NA
If YES, how many and where? _____

Does date match collection date on COC? _____ YES NO NA

2) Was Chain of Custody (COC) included in the package/cooler? YES NO NA

3) Was COC signed when relinquished and received? (time, date)? YES NO NA

4) How was the package/cooler delivered?

UPS FEDEX USPS CLIENT COURIER OTHER: _____

Tracking Number (written in or copy of shipping label): 1Z 910 8E8 01 3463 1087

5) Was packing material used? YES NO NA

Peanuts Bubble Wrap Foam Paper Other: _____

6) Was temperature upon receipt 4°C+- 2°C (if appropriate)? YES NO NA

If not, client contacted: _____

Proceed? YES NO

7) Was there evidence of cooling? YES NO NA

What kind? Blue Ice Ice Cooler Packs Dry Ice

8) Were all sample containers sealed in separate plastic bags? YES NO NA

9) Did all sample containers arrive in good condition? YES NO NA

10) Were all sample container labels complete? YES NO NA

11) Did all sample container labels and tags agree with the COC? YES NO NA

12) Were correct sample containers used for the tests indicated? YES NO NA

13) Were VOA vials checked for absence of air bubbles (note if found)? YES NO NA

14) Was a sufficient amount of sample sent in each sample container? YES NO NA

16) Sample location prior to login: R99 R39 R44 F44 Ambient Shelf Cannabis Table Other: _____

Explain any discrepancies: 17.8°C



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Revision: Document ID:
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Residual Solvents					Batch ID: 2202253				
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		694	572	µg/g	121.3	70 - 130	
Isobutane	ND	< 200		913	731	µg/g	124.9	70 - 130	
Butane	ND	< 200		923	731	µg/g	126.3	70 - 130	
2,2-Dimethylpropane	ND	< 200		1150	936	µg/g	122.9	70 - 130	
Methanol	ND	< 200		2010	1620	µg/g	124.1	70 - 130	
Ethylene Oxide	ND	< 30		71.2	56.2	µg/g	126.7	70 - 130	
2-Methylbutane	ND	< 200		1850	1620	µg/g	114.2	70 - 130	
Pentane	ND	< 200		1820	1610	µg/g	113.0	70 - 130	
Ethanol	ND	< 200		1820	1630	µg/g	111.7	70 - 130	
Ethyl Ether	ND	< 200		1730	1620	µg/g	106.8	70 - 130	
2,2-Dimethylbutane	ND	< 30		180	174	µg/g	103.4	70 - 130	
Acetone	ND	< 200		1840	1650	µg/g	111.5	70 - 130	
2-Propanol	ND	< 200		1740	1610	µg/g	108.1	70 - 130	
Ethyl Formate	ND	< 500		3270	1600	µg/g	204.4	70 - 130	Q1
Acetonitrile	ND	< 100		556	498	µg/g	111.6	70 - 130	
Methyl Acetate	ND	< 500		2200	1610	µg/g	136.6	70 - 130	Q1
2,3-Dimethylbutane	ND	< 30		224	176	µg/g	127.3	70 - 130	
Dichloromethane	ND	< 60		511	510	µg/g	100.2	70 - 130	
2-Methylpentane	ND	< 30		185	176	µg/g	105.1	70 - 130	
MTBE	ND	< 500		1580	1600	µg/g	98.8	70 - 130	
3-Methylpentane	ND	< 30		178	175	µg/g	101.7	70 - 130	
Hexane	ND	< 30		180	177	µg/g	101.7	70 - 130	
1-Propanol	ND	< 500		1910	1610	µg/g	118.6	70 - 130	
Methylethylketone	ND	< 500		1900	1600	µg/g	118.8	70 - 130	
Ethyl acetate	ND	< 200		1770	1630	µg/g	108.6	70 - 130	
2-Butanol	ND	< 200		1460	1620	µg/g	90.1	70 - 130	
Tetrahydrofuran	ND	< 100		509	500	µg/g	101.8	70 - 130	
Cyclohexane	ND	< 200		1690	1620	µg/g	104.3	70 - 130	
2-methyl-1-propanol	ND	< 500		1630	1620	µg/g	100.6	70 - 130	
Benzene	ND	< 1		5.49	5.32	µg/g	103.2	70 - 130	
Isopropyl Acetate	ND	< 200		1860	1620	µg/g	114.8	70 - 130	
Heptane	ND	< 200		1830	1770	µg/g	103.4	70 - 130	
1-Butanol	ND	< 500		1780	1600	µg/g	111.3	70 - 130	
Propyl Acetate	ND	< 500		1860	1600	µg/g	116.3	70 - 130	
1,4-Dioxane	ND	< 100		436	504	µg/g	86.5	70 - 130	
2-Ethoxyethanol	ND	< 30		215	181	µg/g	118.8	70 - 130	
Methylisobutylketone	ND	< 500		1870	1610	µg/g	116.1	70 - 130	
3-Methyl-1-butanol	ND	< 500		1670	1610	µg/g	103.7	70 - 130	
Ethylene Glycol	ND	< 200		609	494	µg/g	123.3	70 - 130	
Toluene	ND	< 200		496	491	µg/g	101.0	70 - 130	
Isobutyl Acetate	ND	< 500		1960	1600	µg/g	122.5	70 - 130	
1-Pentanol	ND	< 500		1520	1610	µg/g	94.4	70 - 130	
Butyl Acetate	ND	< 500		1630	1610	µg/g	101.2	70 - 130	
Ethylbenzene	ND	< 200		1000	973	µg/g	102.8	70 - 130	
m,p-Xylene	ND	< 200		998	996	µg/g	100.2	70 - 130	
o-Xylene	ND	< 200		1010	973	µg/g	103.8	70 - 130	
Cumene	ND	< 30		168	170	µg/g	98.8	70 - 130	
Anisole	ND	< 500		1370	1610	µg/g	85.1	70 - 130	
DMSO	ND	< 500		1430	1630	µg/g	87.7	70 - 130	
1,2-dimethoxyethane	ND	< 50		197	164	µg/g	120.1	70 - 130	
Triethylamine	ND	< 500		1510	1600	µg/g	94.4	70 - 130	
N,N-dimethylformamide	ND	< 150		410	497	µg/g	82.5	70 - 130	
N,N-dimethylacetamide	ND	< 150		402	498	µg/g	80.7	70 - 130	
Pyridine	ND	< 50		178	180	µg/g	98.9	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	
Trichloroethylene	ND	< 1		1.05	1	µg/g	105.0	70 - 130	



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Received: 03/14/22 10:44

Revision: Document ID:
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QC - Sample Duplicate

Sample ID: 22-002874-0001

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	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
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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Report Number: 22-002895/D002.R000
Report Date: 03/23/2022
ORELAP#: OR100028
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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: 2202368

Laboratory Control Sample

Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	0.202	0.2	%	101	80.0 - 120	Acceptable	
CBDV	0.245	0.2	%	123	80.0 - 120	Acceptable	Q6
CBE	0.199	0.2	%	99.5	80.0 - 120	Acceptable	
CBD	0.197	0.2	%	98.4	80.0 - 120	Acceptable	
CBGA	0.199	0.2	%	99.6	80.0 - 120	Acceptable	
CBG	0.193	0.2	%	96.4	80.0 - 120	Acceptable	
THCV	0.212	0.2	%	106	80.0 - 120	Acceptable	
d8THCV	0.194	0.2	%	97.0	80.0 - 120	Acceptable	
THCVA	0.191	0.2	%	95.5	80.0 - 120	Acceptable	
CBN	0.198	0.2	%	98.8	80.0 - 120	Acceptable	
exo-THC	0.188	0.2	%	94.1	80.0 - 120	Acceptable	
d9THC	0.174	0.2	%	86.8	80.0 - 120	Acceptable	
d8THC	0.181	0.2	%	90.6	80.0 - 120	Acceptable	
CBL	0.185	0.2	%	92.7	80.0 - 120	Acceptable	
CBC	0.177	0.2	%	88.7	80.0 - 120	Acceptable	
THCA	0.194	0.2	%	96.9	80.0 - 120	Acceptable	
CBCA	0.184	0.2	%	92.2	80.0 - 120	Acceptable	
CBLA	0.204	0.2	%	102	80.0 - 120	Acceptable	
CBT	0.197	0.2	%	98.3	80.0 - 120	Acceptable	
CBT	0.149	0.2	%	74.7	80.0 - 120	Acceptable	Q6

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	< LOQ	0.01	%	< 0.01	Acceptable	
CBDV	< LOQ	0.01	%	< 0.01	Acceptable	
CBE	< LOQ	0.01	%	< 0.01	Acceptable	
CBD	< LOQ	0.01	%	< 0.01	Acceptable	
CBGA	< LOQ	0.01	%	< 0.01	Acceptable	
CBG	< LOQ	0.01	%	< 0.01	Acceptable	
THCV	< LOQ	0.01	%	< 0.01	Acceptable	
d8THCV	< LOQ	0.01	%	< 0.01	Acceptable	
THCVA	< LOQ	0.01	%	< 0.01	Acceptable	
CBN	< LOQ	0.01	%	< 0.01	Acceptable	
exo-THC	< LOQ	0.01	%	< 0.01	Acceptable	
d9THC	< LOQ	0.01	%	< 0.01	Acceptable	
d8THC	< LOQ	0.01	%	< 0.01	Acceptable	
CBL	< LOQ	0.01	%	< 0.01	Acceptable	
CBC	< LOQ	0.01	%	< 0.01	Acceptable	
THCA	< LOQ	0.01	%	< 0.01	Acceptable	
CBCA	< LOQ	0.01	%	< 0.01	Acceptable	
CBLA	< LOQ	0.01	%	< 0.01	Acceptable	
CBT	< LOQ	0.01	%	< 0.01	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 Document ID: 7148
Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

J AOAC 2015 V98-6								
Batch ID: 2202368								
Sample Duplicate								
Sample ID: 22-002895-0001								
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	< LOQ	< LOQ	0.1	%	NA	< 20	Acceptable	
CBDV	0.275	0.283	0.1	%	2.94	< 20	Acceptable	
CBE	1.83	1.89	0.1	%	3.55	< 20	Acceptable	
CBD A	0.873	0.906	0.1	%	3.75	< 20	Acceptable	
CBGA	< LOQ	< LOQ	0.1	%	NA	< 20	Acceptable	
CBG	1.28	1.30	0.1	%	1.72	< 20	Acceptable	
CBD	67.2	68.6	0.1	%	1.95	< 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	1.55	1.60	0.1	%	3.30	< 20	Acceptable	
exo-THC	< LOQ	< LOQ	0.1	%	NA	< 20	Acceptable	
d9THC	< LOQ	< LOQ	0.1	%	NA	< 20	Acceptable	
d8THC	< LOQ	< LOQ	0.1	%	NA	< 20	Acceptable	
CBL	< LOQ	< LOQ	0.1	%	NA	< 20	Acceptable	
CBC	2.17	2.20	0.1	%	1.32	< 20	Acceptable	
THCA	< LOQ	< LOQ	0.1	%	NA	< 20	Acceptable	
CBCA	< LOQ	< LOQ	0.1	%	NA	< 20	Acceptable	
CBLA	< LOQ	< LOQ	0.1	%	NA	< 20	Acceptable	
CBT	1.06	1.06	0.1	%	0.240	< 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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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.