



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

Report Number: 24-001432/D001.R000
Report Date: 02/15/2024
Purchase Order:
Received: 02/08/24 11:55 AM



Customer: Analytical Resource Lab
 520 South 850 East, STE B3
 Lehi Utah 84043
 United States of America (USA)

Sample ID: 724908: Advanced CBD - Original Peppermint Lot:
 CAL13124-1

Sample Matrix: liquid

Laboratory ID: 24-001432-0001-00

Evidence of Cooling: No

Temp: 15.1 °C

Sample Results

Mycotoxins

Mycotoxins						
Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Aflatoxin B1	< LOQ	µg/kg	0.830	02/09/24	AOAC 2007.01 & EN 15662 (mod) ^p	
Aflatoxin B2	< LOQ	µg/kg	0.830	02/09/24	AOAC 2007.01 & EN 15662 (mod) ^p	
Aflatoxin G1	< LOQ	µg/kg	0.830	02/09/24	AOAC 2007.01 & EN 15662 (mod) ^p	
Aflatoxin G2	< LOQ	µg/kg	0.830	02/09/24	AOAC 2007.01 & EN 15662 (mod) ^p	
Deoxynivalenol	< LOQ	µg/kg	33.3	02/09/24	AOAC 2007.01 & EN 15662 (mod) ^p	
Fumonisin B1	< LOQ	µg/kg	33.3	02/09/24	AOAC 2007.01 & EN 15662 (mod) ^p	
Fumonisin B2	< LOQ	µg/kg	33.3	02/09/24	AOAC 2007.01 & EN 15662 (mod) ^p	
HT2-Toxin	< LOQ	µg/kg	6.67	02/09/24	AOAC 2007.01 & EN 15662 (mod) ^p	
Ochratoxin A	< LOQ	µg/kg	0.830	02/09/24	AOAC 2007.01 & EN 15662 (mod) ^p	
Ochratoxin B	< LOQ	µg/kg	0.330	02/09/24	AOAC 2007.01 & EN 15662 (mod) ^p	
T2-Toxin	< LOQ	µg/kg	3.33	02/09/24	AOAC 2007.01 & EN 15662 (mod) ^p	
Zearalenone	< LOQ	µg/kg	33.3	02/09/24	AOAC 2007.01 & EN 15662 (mod) ^p	

Pesticides

Multi-Residue Pesticide Profile						
Analyte	Result	Units	Analyzed	Method	Notes	
Multi-Residue Pesticide Profile	< LOQ for all analytes	mg/kg	02/14/24	AOAC 2007.01 & EN 15662 (mod) ^p		

Abbreviations

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.



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Units of Measure

$\mu\text{g}/\text{kg}$ = Micrograms per kilogram = parts per billion (ppb)

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

Approved Signatory

Derrick Tanner
General Manager



P2220 Multi-Residue Pesticide Profile

Analyte	LOQ (mg/kg)	Analyte	LOQ (mg/kg)	Analyte	LOQ (mg/kg)	Analyte	LOQ (mg/kg)
1, NAA	0.01	Bromoxynil	0.01	Cychoxydim	0.01	Disulfoton sulfoxide	0.01
2,4,5-T	0.01	Bromuconazole	0.01	Cyflumetofen	0.01	Dithianon	0.01
2,4,5-TP	0.01	Bupirimate	0.01	Cyfluthrin	0.03	Dithiopyr	0.01
2,4-D	0.01	Buprofezin	0.01	Cyhalothrin, lambda	0.01	Diuron	0.01
2,4-DB	0.01	Butachlor	0.01	Cymoxanil	0.01	DNOC	0.01
2,4-DP (Dichlorprop)	0.01	Butoxy carb	0.01	Cypermethrin	0.01	Edifenphos	0.01
Abamectin (Avermectin)	0.01	Butoxycarboxim	0.01	Cyprodinil	0.01	Endosulfan (α isomer)	0.02
Acephate	0.02	Butralin	0.02	Cyromazine	0.01	Endosulfan (β isomer)	0.02
Acequinocyl	0.01	Butylate	0.01	DCPMU	0.01	Endosulfan sulfate	0.01
Acetamiprid	0.01	Cadusafos	0.01	DDD, o,p'-	0.01	Endrin	0.02
Acetochlor	0.02	Captafol	0.1	DDD, p,p'-	0.01	Endrin aldehyde	0.02
Acibenzolar-s-methyl	0.01	Captan	0.02	DDE, o,p'-	0.01	EPN	0.01
Acifluorfen	0.01	Carbaryl	0.01	DDE, p,p'-	0.01	EPTC	0.01
Acrinathrin	0.01	Carbendazim	0.01	DDT, o,p'-	0.01	Esfenvalerate/Fenvalerate	0.02
Afidopyropen	0.01	Carbofuran	0.01	DDT, p,p'-	0.01	Etaconazole	0.01
Alachlor	0.02	Carbofuran, 3-hydroxy	0.01	DEF (Tribufos)	0.01	Ethaboxam	0.01
Aldicarb	0.01	Carbophenothion	0.01	Deltamethrin	0.01	Ethalfuralin	0.01
Aldicarb sulfone (Aldoxycarb)	0.01	Carbophenothion methyl	0.01	Demeton-S	0.02	Ethiofencarb	0.01
Aldicarb-sulfoxide	0.01	Carboxin	0.01	Demeton-S methyl-sulfone	0.02	Ethion	0.01
Aldrin	0.01	Carfentrazone-ethyl	0.01	Demeton-s-methyl	0.02	Ethirimol	0.01
Ametoctradin	0.01	Chlorantraniliprole	0.01	Desmedipham	0.01	Ethofumesate	0.01
Ametryn	0.01	Chlordane, cis-	0.01	Diallate	0.01	Ethoprophos	0.01
Aminocyclopyrachlor	0.01	Chlordane, trans-	0.01	Diazinon	0.01	Ethoxyquin	0.01
Anilazine	0.03	Chlordimeform	0.01	Diazoxon	0.01	Etofenprox	0.01
Aspon	0.01	Chlorfenapyr	0.02	Dicamba (Banvel)	0.01	Etoxazole	0.01
Asulam	0.01	Chlorfenson (Ovex)	0.01	Dichlobenil	0.01	Etridiazole	0.01
Atrazine	0.01	Chlorfenvinphos	0.01	Dichlofenthion	0.01	Etrinfos	0.01
Atrazine-desethyl	0.01	Chlorimuron-ethyl	0.01	Dichlofluanid	0.01	Famoxadone	0.02
Azadirachtin	0.01	Chlornitrofen (CNP)	0.02	Dichlorobenzamide	0.01	Famphur	0.01
Azinphos-ethyl	0.01	Chlorobenzilate	0.01	Dichlorvos	0.01	Fenamidone	0.01
Azinphos-methyl	0.01	Chloroneb	0.01	Diclobutrazol	0.01	Fenamiphos	0.01
Azoxystrobin	0.01	Chlorothalonil	0.04	Diclofop (acid)	0.01	Fenamiphos Sulfone	0.01
Benalaxyl	0.01	Chlorpropham (CIPC)	0.01	Diclofop-methyl	0.01	Fenamiphos Sulfoxide	0.01
Bendiocarb	0.01	Chlorpyrifos (ethyl)	0.01	Dicloran	0.04	Fenarimol	0.01
Benfluralin	0.01	Chlorpyrifos-methyl	0.01	Dicofof, p,p'-/o,p'-	0.02	Fenazaquin	0.01
Benoxacor	0.01	Chlorsulfuron	0.01	Dicrctophos	0.01	Fenbuconazole	0.01
Bensulide	0.01	Chlorthal-dimethyl (Dacthal)	0.01	Dieldrin	0.01	Fenbutatin oxide	0.01
Bentazon	0.01	Chlorthion	0.02	Diethofencarb	0.01	Fenchlorphos	0.01
Benzovindiflupyr	0.01	Chlorthiophos	0.01	Diethyltoluamide (DEET)	0.01	Fenchlorphos-oxon	0.01
BHC alpha isomer	0.01	Clethodim	0.01	Difenoconazole	0.01	Fenhexamid	0.01
BHC beta isomer	0.01	Clethodim sulfone	0.01	Diflubenzuron	0.01	Fenitrothion	0.01
BHC delta isomer	0.01	Clethodim sulfoxide	0.01	Diffuzoppyr	0.01	Fenobucarb (Baycarb)	0.01
Bifenazate	0.01	Clofentezine	0.01	Dimethenamid	0.01	Fenoxaprop-P-Ethyl	0.01
Bifenox	0.01	Clomazone	0.01	Dimethoate	0.01	Fenoxy carb	0.01
Bifenthrin	0.01	Clopyralid	0.01	Dimethomorph	0.01	Fenpropathrin	0.01
Binapacryl	0.04	Clothianidin	0.01	Diniconazole	0.01	Fenpyroximate	0.01
Bioresmethrin	0.01	Coumaphos	0.01	Dinocap	0.01	Fenson	0.02
Bitertanol	0.02	Crotoxypfos	0.01	Dinoseb (Dinitro)	0.01	Fensulfthion	0.01
Boscalid	0.01	Cyanazine	0.01	Dinotefuran	0.01	Fenthion	0.01
Broflanilide	0.01	Cyanofenphos	0.01	Dioxathion	0.01	Fenuron	0.01
Bromacil	0.02	Cyanophos	0.04	Diphenamid	0.01	Fipronil	0.01
Bromophos-methyl	0.01	Cyantraniliprole	0.01	Diphenylamine (DPA)	0.01	Fonicamid	0.01
Bromophos-ethyl	0.02	Cyazofamid	0.01	Disulfoton	0.02	Fluzafop	0.01
Bromopropylate	0.01	Cyoclate	0.01	Disulfoton sulfone	0.01	Fluazinam	0.01

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


P2220 Multi-Residue Pesticide Profile

Analyte	LOQ (mg/kg)	Analyte	LOQ (mg/kg)	Analyte	LOQ (mg/kg)	Analyte	LOQ (mg/kg)
Fluchloralin	0.01	Isufenphos-OA	0.01	Naled	0.01	Pirimisulfuron-Methyl	0.01
Flucythrinate	0.03	Isometamid	0.01	Napropamide	0.01	Prallethrin	0.01
Fludioxonil	0.01	Isoprocarb	0.01	Neburon	0.01	Prochloraz	0.01
Flufenacet	0.01	Isopropalin	0.01	Nicosulfuron	0.01	Procymidone	0.01
Flumetsulam	0.01	Isoprothiolane	0.01	Nitrapyrin	0.02	Prodiamine	0.01
Flumioxazin	0.01	Isoproturon	0.01	Nitrofen	0.02	Profenofos	0.01
Fluometuron	0.01	Isoxaben	0.01	Norflurazon	0.01	Profuralin	0.01
Fluopicolide	0.01	Isoxaflutole	0.01	Novaluron	0.01	Promecarb	0.01
Fluopyram	0.01	Kresoxim-methyl	0.01	Nuarimol	0.02	Prometon	0.01
Fluoxastrobin	0.01	Lactofen	0.02	Omethoate	0.01	Prometryne	0.01
Flupyradifurone	0.01	Lenacil	0.01	O-Phenylphenol	0.01	Pronamide (Propyzamide)	0.01
Fluprimsidol	0.01	Lindane	0.01	Oryzalin	0.01	Propachlor	0.01
Fluridone	0.01	Linuron	0.01	Oxadiazon	0.01	Propamocarb	0.01
Fluroxypyr (free acid)	0.01	Malaoxon (Malathion-o-analog)	0.01	Oxadixyl	0.01	Propanil	0.01
Flusilazol	0.01	Malathion	0.01	Oxamyl	0.01	Propargite	0.01
Fluthiacet Methyl	0.01	Mandipropamid	0.01	Oxamyl-oxime	0.01	Propazine	0.01
Flutolanil	0.01	MCPA	0.01	Oxathiapiprolin	0.01	Propetamphos	0.01
Flutriafol	0.01	MCPB	0.01	Oxychlorthane	0.01	Propham	0.01
Fluvalinate -tau	0.01	MCPP (Mecoprop)	0.01	Oxydemeton-Methyl	0.01	Propiconazole	0.01
Fluxapyroxad	0.01	MCPP-P	0.01	Oxyfluorfen	0.01	Propoxur	0.01
Folpet	0.02	Mecarbam	0.01	Oxythioquinox	0.02	Propoxycarbazone sodium	0.01
Fomesafen	0.01	Mefentrifluconazole	0.01	Paclobutrazol	0.01	Prosulfuron	0.01
Fonofos	0.01	Mepanipyrim	0.01	Paraoxon-ethyl	0.01	Prothioconazole	0.01
Foramsulfuron	0.01	Mesosulfuron Methyl	0.01	Paraoxon-methyl	0.01	Prothiofos	0.01
Forchlorfenuron	0.01	Mesotrione	0.01	Parathion-ethyl	0.01	Pydiflumetofen	0.01
Formetanate	0.01	Metalaxyl/Mefenoxam	0.01	Parathion-methyl	0.03	Pymetrozine	0.01
Furathiocarb	0.01	Metalddehyde	0.01	PCP (Pentachlorophenol)	0.01	Pyraclostrobin	0.01
Halosulfuron-methyl	0.01	Metconazole	0.01	Penconazole	0.01	Pyraflufen-ethyl	0.01
Haloxyfop (free acid)	0.01	Methacryfos	0.01	Pendimethalin	0.01	Pyrazophos	0.01
Heptachlor	0.01	Methamidophos	0.01	Permethrin	0.01	Pyrethrins	0.01
Heptachlor epoxide	0.01	Methidathion	0.01	Pentachloroaniline (PCA)	0.01	Pyridaben	0.01
Hexachlorobenzene (HCB)	0.01	Methiocarb	0.01	Pentachloroanisole	0.01	Pyridate	0.01
Hexaconazole	0.01	Methiocarb sulfone	0.01	Pentachlorobenzene (PCB)	0.01	Pyrifluquinazon	0.01
Hexazinone (Velpar)	0.01	Methiocarb sulfoxide	0.01	Pentachlorothioanisole (PCTA)	0.03	Pyrimethanil	0.01
Hexythiazox	0.01			Penthiopyrad	0.01	Pyriproxifen	0.01
Hydroprene	0.01	Methomyl	0.01	Permethrin	0.01	Pyroxasulfone	0.01
Imazalil	0.01	Methoxychlor	0.01	Perthane	0.01	Pyroxulam	0.01
Imazamox	0.01	Methoxyfenozide	0.01	Phenmedipham	0.01	Quinalphos	0.01
Imazapic	0.01	Metobromuron	0.01	Phenothrin	0.01	Quinclorac	0.01
Imazapyr	0.01	Metolachlor	0.01	Phenthoate	0.01	Quinoxifen	0.01
Imazaquin	0.01	Metolcarb	0.01	Phorate	0.01	Quintozene(PCNB)	0.01
Imazethapyr	0.01	Metrafenone	0.01	Phorate OA	0.01	Quizalofop (free acid)	0.01
Imidacloprid	0.01	Metribuzin	0.01	Phorate Sulfone	0.01	Resmethrin	0.01
Imidoxone (Phosmet-Oxon)	0.01	Metsulfuron-methyl	0.01	Phorate Sulfoxide	0.01	Rimsulfuron	0.01
Indaziflam	0.01	Mevinphos	0.01	Phosalone	0.01	Rotenone	0.01
Indoxacarb	0.01	Mexacarbate	0.01	Phosmet	0.01	S-421	0.01
Iprobenfos	0.01	MGK-264	0.01	Phosphamidon	0.01	Saflufenacil	0.01
Iprodione	0.02	Mirex	0.01	Phoxim	0.01	Sebuthylazine	0.01
Isazophos	0.01	Molinate	0.01	Picloram	0.01	Sedaxane	0.01
Isobenzan	0.01	Monocrotophos	0.01	Pinoxaden	0.01	Sethoxydim	0.01
Isocarbophos	0.01	Monolinuron	0.01	Piperonyl Butoxide	0.01	Siduron	0.01
Isodrin	0.01	Myclobutanil	0.01	Pirimicarb	0.01	Simazine	0.01
Isufenphos	0.01	N-desethyl-pirimiphos-methyl	0.01	Pirimiphos-Ethyl	0.01	Simetryn	0.01
Isufenphos-methyl	0.01	N-dimethyl-N-phenyl Sulfonamide	0.01	Pirimiphos-Methyl	0.01	Spinetoram	0.01

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



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P2220 Multi-Residue Pesticide Profile

Analyte	LOQ (mg/kg)	Analyte	LOQ (mg/kg)
Spinosad (α, β isomers)	0.01	Trifloxysulfuron -sodium	0.01
Spirodiclofen	0.01	Triflumizole	0.01
Spiromesifen	0.01	Trifluralin	0.01
Spirotetramat	0.01	Triflusaluron-methyl	0.01
Spirotetramat-enol	0.01	Triforin	0.01
Spiroxamine	0.01	Trinexapac (acid)	0.01
Sulfallate	0.01	Trinexapac Ethyl	0.01
Sulfentrazone	0.03	Triticonazole	0.01
Sulfometuron-methyl	0.01	Vinclozolin	0.01
Sulfosulfuron	0.01	Zoxamide	0.01
Sulfotep	0.01		
Sulfoxaflor	0.01		
Sulprofos	0.01		
Tebuconazole	0.01		
Tebufenozide	0.01		
Tebuthiuron	0.01		
Tecnazene	0.01		
Tefluthrin	0.01		
Tembotrione	0.01		
Terbacil	0.04		
Terbufos	0.01		
Terbufos sulfone	0.01		
Terbufos sulfoxide	0.01		
Terbutylazine	0.01		
Terbutryn	0.01		
Tertrachlorvinphos	0.01		
Tetraconazole	0.01		
Tetradifon	0.01		
Tetramethrin	0.01		
Tetrasul	0.01		
Thiabendazole	0.01		
Thiabendazole, 5-hydroxy	0.01		
Thiacloprid	0.01		
Thiamethoxam	0.01		
Thifensulfuron-methyl	0.01		
Thiobencarb (benthiocarb)	0.01		
Thiodicarb	0.01		
Thiometon	0.02		
Thionazin	0.01		
Thiophanate-methyl	0.01		
Tolclofos-methyl	0.01		
Tolfenpyrad	0.01		
Tolyfluanid	0.01		
Topramezone	0.01		
Tralkoxydim	0.01		
Triadimefon	0.01		
Triadimenol	0.01		
Tri-allate	0.01		
Triasulfuron	0.01		
Triazophos	0.01		
Tribenuron-methyl	0.01		
Trichlorfon	0.01		
Triclopyr	0.02		
Trifloxystrobin	0.01		

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 mg/kg= milligram per kilogram (ppm)

Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of 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 90 days from the receipt date unless prior arrangements have been made



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Report Number: 24-002174/D001.R000
Report Date: 03/04/2024
Purchase Order:
Received: 02/27/24 01:13 PM



Customer: Analytical Resource Lab
520 South 850 East, STE B3
Lehi Utah 84043
United States of America (USA)
Sample ID: 724908: Advanced CBD - Original Peppermint
Lot:CAL13124-1
Sample Matrix: liquid
Laboratory ID: 24-002174-0001-00
Evidence of Cooling: No
Temp: 25 °C

Sample Results

Pesticides

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Daminozide	< LOQ	mg/kg	0.050	03/01/24	AOAC 2007.01 & EN 15662 (mod) ₁	

1) by LC/MS/MS & GC/MS/MS

Abbreviations

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Units of Measure

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Approved Signatory

Derrick Tanner
General Manager