



PO Box 565
 Spanish Fork, UT 84660
 (801) 210-2084

Report Number: 190422 051-01
 Date Reported: 4/25/2019

Sample Details

Product #: 308622
 Description: Enhanced CBD Oil
 Lot #: 2104185A
 Received: 4/22/2019 10:53:10 AM
 Sample Details: 40569

Customer Information

Morinda BioActives, Inc
 737 E 1180 S
 American Fork, UT 84003

Certificate of Analysis

Microbiology	Method	Specifications	Result	Units
Total Plate Count	USP <2021>		10	cfu/g
Total Coliform	USP <2021>		<10	cfu/g
E.coli	Biolumix		None Detected	cfu/10g
Salmonella	AOAC 2013.01 <Vidas>		None Detected	cfu/10g
Staphylococcus aureus	Biolumix		None Detected	cfu/10g
Yeasts & Molds	Biolumix		<10	cfu/g

Report Approved by:

Joel Nelson
 Laboratory Manager

*= Please review Client Specifications

Report Numbers that have been revised or amended will include a revision number.

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Certificate of Analysis

Morinda

737 East 1180 South
 American Fork Utah 84003 United States

Sample Name:	Nhanced CBD Oil	Eurofins Sample:	8382443
Project ID	MORINDA-20190424-0010	Receipt Date	24-Apr-2019
PO Number	CVD	Receipt Condition	Ambient temperature
Sample Serving Size		Login Date	24-Apr-2019
Description	Sample ID 40669 210418SA	Date Started	02-May-2019
		Online Order	20

Analysis	Result
Industrial Hemp Cannabinoid Profile	
CBDVA	<0.00250 %
CBDV	0.0219 %
CBDA	<0.00250 %
CBGA	<0.00250 %
CBG	0.0274 %
CBD	1.70 %
THCV	<0.00250 %
CBN	0.00511 %
Delta 9-THC	0.0611 %
Delta 8-THC	<0.00500 %
THCA	<0.00250 %
CBC	0.00612 %
Total Cannabinoids	1.82 %
Metals Analysis by ICP-MS	
Arsenic	<0.195 ppm
Cadmium	<0.0488 ppm
Lead	<0.0488 ppm
Mercury	<0.0244 ppm
Mycotoxins in Raw Materials	
Aflatoxin B1	<0.500 ppb
Aflatoxin B2	<0.500 ppb
Aflatoxin G1	<0.500 ppb
Aflatoxin G2	<0.500 ppb
Aflatoxin M1	<0.500 ppb
Aflatoxin M2	<0.500 ppb
Deoxynivalenol	<100 ppb
T-2 Toxin	<10.0 ppb
HT-2 Toxin	<100 ppb
Fumonisin B1	<25.0 ppb
Fumonisin B2	<25.0 ppb
Ochratoxin A	<1.00 ppb
Zearalenone	<30.0 ppb

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Sample Serving Size		Login Date	24-Apr-2019
Description	Sample ID 40669 210418SA	Date Started	02-May-2019
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Analysis	Result
Multi-Residue Analysis for hemp products - 500+ compounds	
Matrix Type - To Determine Limit of Quantification (LOQ)	High-Fat Food Matrices
Abamectin	<0.05 mg/kg
Acephate	<0.05 mg/kg
Acetamiprid	<0.05 mg/kg
Acetochlor	<0.05 mg/kg
Acibenzolar-S-methyl	<0.05 mg/kg
Aclonifen	<0.05 mg/kg
Acrinathrin	<0.05 mg/kg
Alachlor	<0.05 mg/kg
Aldicarb	<0.05 mg/kg
Aldicarb sulfone (Aldoxycarb)	<0.05 mg/kg
Aldicarb sulfoxide	<0.05 mg/kg
Aldrin	<0.05 mg/kg
Allethrin	<0.05 mg/kg
Ametryn	<0.05 mg/kg
Amidosulfuron	<0.05 mg/kg
Aminocarb	<0.05 mg/kg
Amitraz metabolite DMF	<0.05 mg/kg
Amitraz metabolite DMPF	<0.05 mg/kg
Anilofos	<0.05 mg/kg
Atrazine	<0.05 mg/kg
Azaconazole	<0.05 mg/kg
Azamephos	<0.05 mg/kg
Azinphos-ethyl	<0.05 mg/kg
Azinphos-methyl	<0.05 mg/kg
Azoxystrobin	<0.05 mg/kg
Beflubutamid	<0.05 mg/kg
Benalaxyl	<0.05 mg/kg
Bendiocarb	<0.05 mg/kg
Benfluralin	<0.05 mg/kg
Benoxacor	<0.05 mg/kg
Benzoximate	<0.05 mg/kg
Bifenazate	<0.05 mg/kg

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Description	Sample ID 40669 210418SA	Date Started	02-May-2019
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Analysis

Result

Multi-Residue Analysis for hemp products - 500+ compounds

BifenoX	<0.05 mg/kg
Bifenthrin	<0.05 mg/kg
Bispyribac	<0.05 mg/kg
Bitertanol	<0.05 mg/kg
Bixafen	<0.05 mg/kg
Boscalid	<0.05 mg/kg
Bromacil	<0.05 mg/kg
Bromophos-ethyl	<0.05 mg/kg
Bromophos-methyl	<0.05 mg/kg
Bromopropylate	<0.05 mg/kg
Bromuconazole (2 diastereoisomers)	<0.05 mg/kg
Bupirimate	<0.05 mg/kg
Buprofezin	<0.05 mg/kg
Butachlor	<0.05 mg/kg
Butafenacil	<0.05 mg/kg
Butocarboxim	<0.05 mg/kg
Butocarboxim sulfoxide	<0.05 mg/kg
Butoxycarboxim	<0.05 mg/kg
Butylate	<0.05 mg/kg
Cadusafos	<0.05 mg/kg
Carbaryl	<0.05 mg/kg
Carbendazim	<0.05 mg/kg
Carbetamide	<0.05 mg/kg
Carbofuran	<0.05 mg/kg
Carbofuran-3-hydroxy-	<0.05 mg/kg
Carbophenothion	<0.05 mg/kg
Carboxin	<0.05 mg/kg
Carfentrazone-ethyl	<0.05 mg/kg
Chlorantraniliprole	<0.05 mg/kg
Chlorbromuron	<0.05 mg/kg
Chlordane, cis-	<0.05 mg/kg
Chlordane, trans-	<0.05 mg/kg
Chlordimeform	<0.05 mg/kg

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Analysis

Multi-Residue Analysis for hemp products - 500+ compounds

	Result
Chlorfenapyr	<0.05 mg/kg
Chlorfenvinphos (E- and Z-isomers)	<0.05 mg/kg
Chloridazon (Pyrazon)	<0.05 mg/kg
Chlorimuron-ethyl (Classic)	<0.05 mg/kg
Chlorobenzilate	<0.05 mg/kg
Chlorotoluron (Chlortoluron)	<0.05 mg/kg
Chloroxuron	<0.05 mg/kg
Chlorpropham (CIPC)	<0.05 mg/kg
Chlorpyrifos	<0.05 mg/kg
Chlorpyrifos-methyl	<0.05 mg/kg
Chlorsulfuron	<0.05 mg/kg
Clethodim (E- and Z-isomers)	<0.05 mg/kg
Clodinafop-propargyl	<0.05 mg/kg
Clofentezine	<0.05 mg/kg
Clomazone	<0.05 mg/kg
Cloquintocet-mexyl	<0.05 mg/kg
Clothianidin	<0.05 mg/kg
Coumaphos	<0.05 mg/kg
Cyanazine	<0.05 mg/kg
Cyanofenphos	<0.05 mg/kg
Cyazofamid	<0.05 mg/kg
Cycloate	<0.05 mg/kg
Cycloxydim	<0.05 mg/kg
Cycluron	<0.05 mg/kg
Cyflufenamid	<0.05 mg/kg
Cyfluthrin	<0.05 mg/kg
Cymiazole	<0.05 mg/kg
Cymoxanil	<0.05 mg/kg
Cypermethrin	<0.05 mg/kg
Cyproconazole (2 diastereoisomers)	<0.05 mg/kg
Cyprodinil	<0.05 mg/kg
Cyromazine	<0.05 mg/kg
Dacthal (Chlorthal-dimethyl, DCPA)	<0.05 mg/kg

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Analysis

Multi-Residue Analysis for hemp products - 500+ compounds

	Result
DDD, o,p'-	<0.05 mg/kg
DDD, p,p'-	<0.05 mg/kg
DDE, o,p'-	<0.05 mg/kg
DDE, p,p'-	<0.05 mg/kg
DDT, o,p'-	<0.05 mg/kg
DDT, p,p'-	<0.05 mg/kg
DEET (Diethyltoluamide)	<0.05 mg/kg
Deltamethrin	<0.05 mg/kg
Demeton-O	<0.05 mg/kg
Demeton-S	<0.05 mg/kg
Demeton-S-methyl	<0.05 mg/kg
Demeton-S-methyl sulfone	<0.05 mg/kg
Desmedipham	<0.05 mg/kg
Dialifos (Dialifor)	<0.05 mg/kg
Diazinon	<0.05 mg/kg
Diazinon oxon	<0.05 mg/kg
Dichlobenil	<0.05 mg/kg
Dichlofenthion	<0.05 mg/kg
Dichlofuanid	<0.05 mg/kg
Dichlorvos	<0.05 mg/kg
Diclobutrazol	<0.05 mg/kg
Diclocymet (2 diastereoisomers)	<0.05 mg/kg
Dicloran (DCNA)	<0.05 mg/kg
Dicrotophos	<0.05 mg/kg
Dieldrin	<0.05 mg/kg
Diethofencarb	<0.05 mg/kg
Difenoconazole (cis- and trans-)	<0.05 mg/kg
Diflubenzuron	<0.05 mg/kg
Diflufenican	<0.05 mg/kg
Dimethachlor	<0.05 mg/kg
Dimethametryn	<0.05 mg/kg
Dimethenamid	<0.05 mg/kg
Dimethoate	<0.05 mg/kg

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Analysis

Result

Multi-Residue Analysis for hemp products - 500+ compounds

Dimethomorph (E- and Z-isomers)	<0.05 mg/kg
Dimetilan	<0.05 mg/kg
Dimoxystrobin	<0.05 mg/kg
Diniconazole	<0.05 mg/kg
Dinitramine	<0.05 mg/kg
Dinotefuran	<0.05 mg/kg
Dioxacarb	<0.05 mg/kg
Diphenamid	<0.05 mg/kg
Diphenylamine	<0.05 mg/kg
Dipropetryn	<0.05 mg/kg
Disulfoton	<0.05 mg/kg
Disulfoton sulfone	<0.05 mg/kg
Disulfoton sulfoxide	<0.05 mg/kg
DMST (Dimethylaminosulfotoluidide)	<0.05 mg/kg
Dodemorph (cis- and trans-)	<0.05 mg/kg
Dodine	<0.05 mg/kg
Emamectin benzoate	<0.05 mg/kg
Endosulfan I (alpha-isomer)	<0.05 mg/kg
Endosulfan II (beta-isomer)	<0.05 mg/kg
Endosulfan sulfate	<0.05 mg/kg
EPN	<0.05 mg/kg
Epoxiconazole	<0.05 mg/kg
Ethaboxam	<0.05 mg/kg
Ethalfuralin	<0.05 mg/kg
Ethidimuron (Sulfadiazole)	<0.05 mg/kg
Ethiofencarb	<0.05 mg/kg
Ethiofencarb sulfone	<0.05 mg/kg
Ethiofencarb sulfoxide	<0.05 mg/kg
Ethion	<0.05 mg/kg
Ethiprole	<0.05 mg/kg
Ethirimol	<0.05 mg/kg
Ethofumesate	<0.05 mg/kg
Ethoprophos (Ethoprop)	<0.05 mg/kg

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Analysis	Result
Multi-Residue Analysis for hemp products - 500+ compounds	
Etofenprox	<0.05 mg/kg
Etozazole	<0.05 mg/kg
Etrimfos	<0.05 mg/kg
Famoxadone	<0.05 mg/kg
Fenamidone	<0.05 mg/kg
Fenamiphos	<0.05 mg/kg
Fenamiphos sulfone	<0.05 mg/kg
Fenamiphos sulfoxide	<0.05 mg/kg
Fenarimol	<0.05 mg/kg
Fenazaquin	<0.05 mg/kg
Fenbuconazole	<0.05 mg/kg
Fenbutatin oxide	<0.05 mg/kg
Fenchlorphos (Ronnell)	<0.05 mg/kg
Fenchlorphos oxon	<0.05 mg/kg
Fenhexamid	<0.05 mg/kg
Fenitrothion	<0.05 mg/kg
Fenobucarb	<0.05 mg/kg
Fenoxanil (sum of isomers)	<0.05 mg/kg
Fenoxycarb	<0.05 mg/kg
Fenpropathrin	<0.05 mg/kg
Fenpropidin	<0.05 mg/kg
Fenpropimorph	<0.05 mg/kg
Fenpyroximate	<0.05 mg/kg
Fensulfothion	<0.05 mg/kg
Fensulfothion oxon	<0.05 mg/kg
Fensulfothion oxon sulfone	<0.05 mg/kg
Fensulfothion sulfone	<0.05 mg/kg
Fenthion	<0.05 mg/kg
Fenthion oxon	<0.05 mg/kg
Fenthion oxon sulfone	<0.05 mg/kg
Fenthion oxon sulfoxide	<0.05 mg/kg
Fenthion sulfone	<0.05 mg/kg
Fenthion sulfoxide	<0.05 mg/kg

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PO Number	CVD	Receipt Condition	Ambient temperature
Sample Serving Size		Login Date	24-Apr-2019
Description	Sample ID 40669 210418SA	Date Started	02-May-2019
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Analysis	Result
Multi-Residue Analysis for hemp products - 500+ compounds	
Fentin	<0.05 mg/kg
Fentrazamide	<0.05 mg/kg
Fenuron	<0.05 mg/kg
Fenvalerate/Esfenvalerate (sum of isomers)	<0.05 mg/kg
Fipronil	<0.05 mg/kg
Fipronil desulfinyl	<0.05 mg/kg
Fipronil sulfone	<0.05 mg/kg
Flazasulfuron	<0.05 mg/kg
Flonicamid	<0.05 mg/kg
Fluazifop-butyl	<0.05 mg/kg
Flucythrinate (sum of isomers)	<0.05 mg/kg
Fludioxonil	<0.05 mg/kg
Flufenacet	<0.05 mg/kg
Flufenoxuron	<0.05 mg/kg
Flumetsulam	<0.05 mg/kg
Flumioxazin	<0.05 mg/kg
Fluometuron	<0.05 mg/kg
Flupicolide	<0.05 mg/kg
Fluopyram	<0.05 mg/kg
Fluxastrobin	<0.05 mg/kg
Fluquinconazole	<0.05 mg/kg
Fluridone	<0.05 mg/kg
Flusilazole	<0.05 mg/kg
Flutolanil	<0.05 mg/kg
Flutriafol	<0.05 mg/kg
Fluvalinate tau- (sum of isomers)	<0.05 mg/kg
Fonofos	<0.05 mg/kg
Foramsulfuron	<0.05 mg/kg
Forchlorfenuron	<0.05 mg/kg
Formetanate hydrochloride	<0.05 mg/kg
Fomothion	<0.05 mg/kg
Fosthiazate (sum of isomers)	<0.05 mg/kg
Fuberidazole	<0.05 mg/kg

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Analysis	Result
Multi-Residue Analysis for hemp products - 500+ compounds	
Furalaxyl	<0.05 mg/kg
Furathiocarb	<0.05 mg/kg
Griseofulvin	<0.05 mg/kg
Halofenozide	<0.05 mg/kg
Halosulfuron-methyl	<0.05 mg/kg
Haloxypop-methyl	<0.05 mg/kg
HCH, alpha- (alpha-BHC)	<0.05 mg/kg
HCH, beta- (beta-BHC)	<0.05 mg/kg
HCH, delta- (delta-BHC)	<0.05 mg/kg
Heptachlor	<0.05 mg/kg
Heptachlor endo-epoxide	<0.05 mg/kg
Heptachlor exo-epoxide	<0.05 mg/kg
Hexachlorobenzene (HCB)	<0.05 mg/kg
Hexaconazole	<0.05 mg/kg
Hexaflumuron	<0.05 mg/kg
Hexazinone	<0.05 mg/kg
Hexythiazox	<0.05 mg/kg
Hydramethylnon	<0.05 mg/kg
Hydroprene, S- (sum of isomers)	<0.05 mg/kg
Imazalil	<0.05 mg/kg
Imazamethabenz-methyl	<0.05 mg/kg
Imazethapyr	<0.05 mg/kg
Imidacloprid	<0.05 mg/kg
Indoxacarb	<0.05 mg/kg
Ipconazole	<0.05 mg/kg
Iprovalicarb	<0.05 mg/kg
Isocarbamid	<0.05 mg/kg
Isocarbophos	<0.05 mg/kg
Isofenphos	<0.05 mg/kg
Isofenphos-methyl	<0.05 mg/kg
Isoprocarb	<0.05 mg/kg
Isoprothiolane	<0.05 mg/kg
Isoproturon	<0.05 mg/kg

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Food Integrity
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Report Number: 2497293-0

Report Date: 16-May-2019

Report Status: Final

Supersedes : 2494551-0

Certificate of Analysis

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Sample Name:	Nhanced CBD Oil	Eurofins Sample:	8382443
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Analysis	Result
Multi-Residue Analysis for hemp products - 500+ compounds	
Isoxaben	<0.05 mg/kg
Isoxadifen-ethyl	<0.05 mg/kg
Isoxaflutole	<0.05 mg/kg
Isoxathion	<0.05 mg/kg
Kresoxim-methyl	<0.05 mg/kg
Lactofen	<0.05 mg/kg
Lenacil	<0.05 mg/kg
Lindane (gamma-HCH, gamma-BHC)	<0.05 mg/kg
Linuron	<0.05 mg/kg
Lufenuron	<0.05 mg/kg
Malaoxon	<0.05 mg/kg
Malathion	<0.05 mg/kg
Mandipropamid	<0.05 mg/kg
Mecarbam	<0.05 mg/kg
Mepanipyrim	<0.05 mg/kg
Mepanipyrim-2-hydroxypropyl	<0.05 mg/kg
Mephosfolan	<0.05 mg/kg
Mesosulfuron-methyl	<0.05 mg/kg
Metaflumizone	<0.05 mg/kg
Metalaxyl	<0.05 mg/kg
Metamitron	<0.05 mg/kg
Metazachlor	<0.05 mg/kg
Metconazole	<0.05 mg/kg
Methabenzthiazuron	<0.05 mg/kg
Methacrifos	<0.05 mg/kg
Methamidophos	<0.05 mg/kg
Methidathion	<0.05 mg/kg
Methiocarb	<0.05 mg/kg
Methiocarb sulfone	<0.05 mg/kg
Methiocarb sulfoxide	<0.05 mg/kg
Methomyl	<0.05 mg/kg
Methoprotryne	<0.05 mg/kg
Methoxychlor	<0.05 mg/kg

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Analysis

Multi-Residue Analysis for hemp products - 500+ compounds

	Result
Methoxyfenozide	<0.05 mg/kg
Metobromuron	<0.05 mg/kg
Metolachlor	<0.05 mg/kg
Metolcarb	<0.05 mg/kg
Metosulam	<0.05 mg/kg
Metoxuron	<0.05 mg/kg
Metrafenone	<0.05 mg/kg
Metribuzin	<0.05 mg/kg
Metsulfuron-methyl	<0.05 mg/kg
Mevinphos (E- and Z-isomers)	<0.05 mg/kg
Mexacarbate	<0.05 mg/kg
MGK 264 (sum of isomers)	<0.05 mg/kg
Mirex	<0.05 mg/kg
Molinate	<0.05 mg/kg
Monocrotophos	<0.05 mg/kg
Monolinuron	<0.05 mg/kg
Myclobutanil	<0.05 mg/kg
Naled (Dibrom)	<0.05 mg/kg
Naphthol, 1-	<0.05 mg/kg
Napropamide	<0.05 mg/kg
Neburon	<0.05 mg/kg
Nicosulfuron	<0.05 mg/kg
Nitenpyram	<0.05 mg/kg
Nitrofen	<0.05 mg/kg
Nonachlor, cis-	<0.05 mg/kg
Nonachlor, trans-	<0.05 mg/kg
Norflurazon	<0.05 mg/kg
Norflurazon-desmethyl	<0.05 mg/kg
Novaluron	<0.05 mg/kg
Nuarimol	<0.05 mg/kg
Ofurace	<0.05 mg/kg
Omethoate	<0.05 mg/kg
Oxadiazon	<0.05 mg/kg

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Analysis	Result
Multi-Residue Analysis for hemp products - 500+ compounds	
Oxadixyl	<0.05 mg/kg
Oxamyl	<0.05 mg/kg
Oxamyl oxime	<0.05 mg/kg
Oxasulfuron	<0.05 mg/kg
Oxycarboxin	<0.05 mg/kg
Oxychloridane	<0.05 mg/kg
Oxydemeton-methyl	<0.05 mg/kg
Oxyfluorfen	<0.05 mg/kg
Paclobutrazol	<0.05 mg/kg
Paraoxon	<0.05 mg/kg
Paraoxon-methyl	<0.05 mg/kg
Parathion	<0.05 mg/kg
Parathion-methyl	<0.05 mg/kg
Penconazole	<0.05 mg/kg
Pencycuron	<0.05 mg/kg
Pendimethalin	<0.05 mg/kg
Pentachloroaniline	<0.05 mg/kg
Pentachloroanisole	<0.05 mg/kg
Pentachlorobenzene	<0.05 mg/kg
Pentachlorobenzonitrile	<0.05 mg/kg
Pentachlorothioanisole	<0.05 mg/kg
Permethrin (sum of isomers)	<0.05 mg/kg
Perthane (Ethylan)	<0.05 mg/kg
Phenmedipham	<0.05 mg/kg
Phenthoate	<0.05 mg/kg
Phenylphenol, 2- (OPP)	<0.05 mg/kg
Phorate	<0.05 mg/kg
Phorate sulfone	<0.05 mg/kg
Phorate sulfoxide	<0.05 mg/kg
Phosalone	<0.05 mg/kg
Phosmet	<0.05 mg/kg
Phosmet oxon	<0.05 mg/kg
Phosphamidon (E- and Z-isomers)	<0.05 mg/kg

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Certificate of Analysis

Morinda

737 East 1180 South
American Fork Utah 84003 United States

Sample Name:	Nhanced CBD Oil	Eurofins Sample:	8382443
Project ID	MORINDA-20190424-0010	Receipt Date	24-Apr-2019
PO Number	CVD	Receipt Condition	Ambient temperature
Sample Serving Size		Login Date	24-Apr-2019
Description	Sample ID 40669 210418SA	Date Started	02-May-2019
		Online Order	20

Analysis	Result
Multi-Residue Analysis for hemp products - 500+ compounds	
Phoxim	<0.05 mg/kg
Picolinafen	<0.05 mg/kg
Picoxystrobin	<0.05 mg/kg
Piperonyl butoxide	<0.05 mg/kg
Piperophos	<0.05 mg/kg
Pirimicarb	<0.05 mg/kg
Pirimicarb-desmethyl	<0.05 mg/kg
Pirimiphos-ethyl	<0.05 mg/kg
Pirimiphos-methyl	<0.05 mg/kg
Pirimiphos-methyl, N-desethyl-	<0.05 mg/kg
Prallethrin	<0.05 mg/kg
Pretilachlor	<0.05 mg/kg
Primisulfuron-methyl	<0.05 mg/kg
Prochloraz	<0.05 mg/kg
Procymidone	<0.05 mg/kg
Prodiamine	<0.05 mg/kg
Profenofos	<0.05 mg/kg
Profuralin	<0.05 mg/kg
Promecarb	<0.05 mg/kg
Prometon	<0.05 mg/kg
Prometryn	<0.05 mg/kg
Propamocarb	<0.05 mg/kg
Propanil	<0.05 mg/kg
Propaquizafop	<0.05 mg/kg
Propargite	<0.05 mg/kg
Propetamphos	<0.05 mg/kg
Propham	<0.05 mg/kg
Propiconazole (sum of isomers)	<0.05 mg/kg
Propoxur	<0.05 mg/kg
Propyzamide (Pronamide)	<0.05 mg/kg
Proquinazid	<0.05 mg/kg
Prosulfocarb	<0.05 mg/kg
Prothioconazole-desthio	<0.05 mg/kg

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PO Number	CVD	Receipt Condition	Ambient temperature
Sample Serving Size		Login Date	24-Apr-2019
Description	Sample ID 40669 210418SA	Date Started	02-May-2019
		Online Order	20

Analysis	Result
Multi-Residue Analysis for hemp products - 500+ compounds	
Prothiofos	<0.05 mg/kg
Pymetrozine	<0.05 mg/kg
Pyracarbolid	<0.05 mg/kg
Pyraclostrobin	<0.05 mg/kg
Pyraflufen-ethyl	<0.05 mg/kg
Pyrazophos	<0.05 mg/kg
Pyrethrum (total)	<0.50 mg/kg
Pyridaben	<0.05 mg/kg
Pyridalyl	<0.05 mg/kg
Pyridaphenthion	<0.05 mg/kg
Pyridate	<0.05 mg/kg
Pyrifenox (E- and Z-isomers)	<0.05 mg/kg
Pyrimethanil	<0.05 mg/kg
Pyriproxyfen	<0.05 mg/kg
Pyroquilon	<0.05 mg/kg
Pyroxsulam	<0.05 mg/kg
Quinalphos	<0.05 mg/kg
Quinmerac	<0.05 mg/kg
Quinoclamine	<0.05 mg/kg
Quinoxifen	<0.05 mg/kg
Quintozene	<0.05 mg/kg
Quizalofop-ethyl	<0.05 mg/kg
Resmethrin (sum of isomers)	<0.05 mg/kg
Rimsulfuron	<0.05 mg/kg
Rotenone	<0.05 mg/kg
S421	<0.05 mg/kg
Schradan (Octamethylpyrophosphoramidate)	<0.05 mg/kg
Secbumeton	<0.05 mg/kg
Sethoxydim (E- and Z-isomers)	<0.05 mg/kg
Siduron	<0.05 mg/kg
Silthiofam	<0.05 mg/kg
Simazine	<0.05 mg/kg
Simeconazole	<0.05 mg/kg

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Analysis	Result
Multi-Residue Analysis for hemp products - 500+ compounds	
Simetryn	<0.05 mg/kg
Spinetoram (spinosyns J and L)	<0.05 mg/kg
Spinosad (spinosyns A and D)	<0.05 mg/kg
Spirodiclofen	<0.05 mg/kg
Spiromesifen	<0.05 mg/kg
Spiromesifen enol	<0.05 mg/kg
Spirotetramat	<0.05 mg/kg
Spiroxamine (2 diastereoisomers)	<0.05 mg/kg
Sulfallate	<0.05 mg/kg
Sulfentrazone	<0.05 mg/kg
Sulprofos	<0.05 mg/kg
Tebuconazole	<0.05 mg/kg
Tebufenozide	<0.05 mg/kg
Tebufenpyrad	<0.05 mg/kg
Tebupirimfos	<0.05 mg/kg
Tebuthiuron	<0.05 mg/kg
Tecnazene	<0.05 mg/kg
Teflubenzuron	<0.05 mg/kg
Tefluthrin	<0.05 mg/kg
Temephos	<0.05 mg/kg
Tépraloxydím (E- and Z-isomers)	<0.05 mg/kg
Terbacil	<0.05 mg/kg
Terbufos	<0.05 mg/kg
Terbufos sulfone	<0.05 mg/kg
Terbufos sulfoxide	<0.05 mg/kg
Terbumeton	<0.05 mg/kg
Terbutylazine	<0.05 mg/kg
Terbutryn	<0.05 mg/kg
Tetrachloroaniline, 2,3,5,6-	<0.05 mg/kg
Tetrachloroanisole, 2,3,4,5-	<0.05 mg/kg
Tetrachlorvinphos	<0.05 mg/kg
Tetraconazole	<0.05 mg/kg
Tetradifon	<0.05 mg/kg

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Analysis

Multi-Residue Analysis for hemp products - 500+ compounds

	Result
Thiabendazole	<0.05 mg/kg
Thiabendazole-5-hydroxy-	<0.05 mg/kg
Thiacloprid	<0.05 mg/kg
Thiamethoxam	<0.05 mg/kg
Thiazopyr	<0.05 mg/kg
Thidiazuron	<0.05 mg/kg
Thifensulfuron-methyl	<0.05 mg/kg
Thiobencarb (Benthiocarb)	<0.05 mg/kg
Thiodicarb	<0.05 mg/kg
Thiofanox	<0.05 mg/kg
Thiofanox sulfone	<0.05 mg/kg
Thiofanox sulfoxide	<0.05 mg/kg
Thionazin (Zinophos)	<0.05 mg/kg
Thiophanate-methyl	<0.05 mg/kg
Tolclofos-methyl	<0.05 mg/kg
Tolfenpyrad	<0.05 mg/kg
Tolyfluanid	<0.05 mg/kg
Tralkoxydim	<0.05 mg/kg
Triadimefon	<0.05 mg/kg
Triadimenol	<0.05 mg/kg
Triasulfuron	<0.05 mg/kg
Triazophos	<0.05 mg/kg
Tribenuron-methyl	<0.05 mg/kg
Tribufos (DEF)	<0.05 mg/kg
Trichlorfon (Metrifonate)	<0.05 mg/kg
Trichloroanisole, 2,4,6-	<0.05 mg/kg
Tricyclazole	<0.05 mg/kg
Trietazine	<0.05 mg/kg
Trifloxystrobin	<0.05 mg/kg
Trifloxysulfuron	<0.05 mg/kg
Triflumizole	<0.05 mg/kg
Triflumuron	<0.05 mg/kg
Trifluralin	<0.05 mg/kg

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Analysis	Result
Multi-Residue Analysis for hemp products - 500+ compounds	
Triforine	<0.05 mg/kg
Trimethacarb	<0.05 mg/kg
Trificonazole	<0.05 mg/kg
Uniconazole	<0.05 mg/kg
Vamidothion	<0.05 mg/kg
Vinclozolin	<0.05 mg/kg
Zoxamide	<0.05 mg/kg

Analysis	LOQ	Limit	Result	Pass/Fail
Residual Solvents - Class 3 *				
1-Butanol	200 ppm	5000 ppm	<200 ppm	Pass
1-Pentanol	200 ppm	5000 ppm	<200 ppm	Pass
1-Propanol	200 ppm	5000 ppm	<200 ppm	Pass
2-Butanol	200 ppm	5000 ppm	<200 ppm	Pass
Methylethylketone	200 ppm	5000 ppm	<200 ppm	Pass
3-Methyl-1-butanol	200 ppm	5000 ppm	<200 ppm	Pass
Acetic Acid Butyl Ester	200 ppm	5000 ppm	<200 ppm	Pass
Acetone	200 ppm	5000 ppm	<200 ppm	Pass
Anisole	200 ppm	5000 ppm	<200 ppm	Pass
Diethyl Ether	200 ppm	5000 ppm	<200 ppm	Pass
Ethanol	200 ppm	5000 ppm	<200 ppm	Pass
Ethyl Acetate	200 ppm	5000 ppm	<200 ppm	Pass
Ethyl Formate	500 ppm	5000 ppm	<500 ppm	Pass
2-Methyl-1-propanol	200 ppm	5000 ppm	<200 ppm	Pass
Isobutyl Acetate	200 ppm	5000 ppm	<200 ppm	Pass
2-Propanol	200 ppm	5000 ppm	<200 ppm	Pass
Isopropyl Acetate	200 ppm	5000 ppm	<200 ppm	Pass
Methyl Acetate	200 ppm	5000 ppm	<200 ppm	Pass
Methylisobutyketone	200 ppm	5000 ppm	<200 ppm	Pass
tert-Butylmethyl Ether	200 ppm	5000 ppm	<200 ppm	Pass
n-Heptane	200 ppm	5000 ppm	<200 ppm	Pass

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Description	Sample ID 40669 210418SA	Date Started	02-May-2019
		Online Order	20

Analysis	LOQ	Limit	Result	Pass/Fail
Residual Solvents - Class 3.*				
n-Pentane	200 ppm	5000 ppm	<200 ppm	Pass
Propyl Acetate	200 ppm	5000 ppm	<200 ppm	Pass
Total Class 3 Residual Solvents	5000 ppm	5000 ppm	<5000 ppm	Pass

Method References

Testing Location

Industrial Hemp Cannabinoid Profile (IHCBD_S)

Food Integrity Innovation-Boulder

Official Methods of Analysis, Method 2018.11, AOAC INTERNATIONAL, (Modified). Lukas Vaclavik, Frantisek Benes, Alex Krmela, Veronika Svobodova, Jana Hajsova and Katerina Mastovska, "Quantification of Cannabinoids in Cannabis Dried Plant Materials, Concentrates, and Oils Liquid Chromatography-Diode Array Detection Technique with Optional Mass Spectrometric Detection," First Action Method, Journal of AOAC International, Future Issue

Metals Analysis by ICP-MS (ICP_MS_B_S)

Food Integrity Innovation-Boulder

Methods for the Determination of Metals in Environmental Standards - Supplement 1, EPA-600/R-94-111, May 1994.

"Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Mass Spectrometry", USEPA Method 200.8, Revision 5.1, EMMC Version.

Multi-Residue Analysis for hemp products - 500+ compounds (PEST_HEMP)

Food Integ. Innovation-Greenfield

Official Methods of Analysis, AOAC Official Method 2007.01, Pesticide Residues in Foods by Acetonitrile Extraction and Partitioning with Magnesium Sulfate, AOAC INTERNATIONAL (modified).

CEN Standard Method EN 15662: Food of plant origin - Determination of pesticide residues using GC-MS and/or LC-MS/MS following acetonitrile extraction/partitioning and clean-up by dispersive SPE - QuEChERS method.

List of the tested pesticides and their limits of quantification (LOQs) are available upon request.

Mycotoxins in Raw Materials (MYCO_REG_S)

Food Integrity Innovation-Madison

Varga, E., Glauner, T., Koppen, R., Mayer, K., Sulyok, M., Schumacher, R., Krska, R. and Berthiller, F., "Stable isotope dilution assay for the accurate determination of mycotoxins in maize by UHPLC-MS/MS," Analytical and BioAnalytical Chemistry, 402:2675-2686 (2012).

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 American Fork Utah 84003 United States

Method References

Testing Location

Residual Solvents - Class 3 (USPR_S)

Food Integrity Innovation-Madison

United States Pharmacopeia, 38nd Rev. - National Formulary 33th Ed., Method <467>, USP Convention, Inc., Rockville, MD (2015). (Modified).

Testing Location(s)

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