



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

Report Number: 190507.011-01
 Date Reported: 5/13/2019

Sample Details

Product #: Enhanced CBD Oil
 Description: Enhanced CBD Oil
 Lot #: 2104195B
 Received: 5/7/2019 11:00:21 AM
 Sample Details: ID: 40772

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	<10	cfu/g
E.coli	Biolumix	None Detected	None Detected	cfu/10g
Staphylococcus aureus	Biolumix	None Detected	None Detected	cfu/10g
Yeasts & Molds	Biolumix	< 10	<10	cfu/g
Candida albicans	USP <62>	None Detected	None Detected	cfu/10g
Pseudomonas aeruginosa	Biolumix	Negative	None Detected	cfu/10g

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

Sample Name:	Nhanced CBD Oil	Eurofins Sample:	8439293
Project ID	MORINDA-20190510-0013	Receipt Date	10-May-2019
PO Number	CVD	Receipt Condition	Ambient temperature
Sample Serving Size		Login Date	10-May-2019
Description	Lot 210419SB Sample ID 40772	Date Started	10-May-2019

Analysis	Result
Industrial Hemp Cannabinoid Profile	
CBDVA	<0.00250 %
CBDV	0.0212 %
CBDA	<0.00250 %
CBGA	<0.00250 %
CBG	0.0249 %
CBD	1.74 %
THCV	0.0182 %
CBN	0.00518 %
Delta 9-THC	0.0699 %
Delta 8-THC	<0.00500 %
THCA	<0.00250 %
CBC	0.00571 %
Total Cannabinoids	1.89 %
Metals Analysis by ICP-MS	
Arsenic	<0.0395 ppm
Cadmium	<0.00989 ppm
Lead	<0.00989 ppm
Mercury	<0.00494 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 Name:	Nhanced CBD Oil	Eurofins Sample:	8439293
Project ID	MORINDA-20190510-0013	Receipt Date	10-May-2019
PO Number	CVD	Receipt Condition	Ambient temperature
Sample Serving Size		Login Date	10-May-2019
Description	Lot 210419SB Sample ID:40772	Date Started	10-May-2019

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
Ailethrin	<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
Azamethiphos	<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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Sample Name:	Nhanced CBD Oil	Eurofins Sample:	8439293
Project ID	MORINDA-20190510-0013	Receipt Date	10-May-2019
PO Number	CVD	Receipt Condition	Ambient temperature
Sample Serving Size		Login Date	10-May-2019
Description	Lot 210419SB Sample ID 40772	Date Started	10-May-2019

Analysis

Result

Multi-Residue Analysis for hemp products - 500+ compounds

BifenoX	<0.05 mg/kg
Bifenthrin	<0.05 mg/kg
Bispyribac	non-analyzable
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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Morinda

Sample Name:	Nhanced CBD Oil	Eurofins Sample:	8439293
Project ID	MORINDA-20190510-0013	Receipt Date	10-May-2019
PO Number	CVD	Receipt Condition	Ambient temperature
Sample Serving Size		Login Date	10-May-2019
Description	Lot 210419SB Sample ID 40772	Date Started	10-May-2019

Analysis

Result

Multi-Residue Analysis for hemp products - 500+ compounds

Chlorfenapyr	<0.05 mg/kg
Chlorfenvinphos (E- and Z-isomers)	<0.05 mg/kg
Chloridazon (Pyrazon)	<0.05 mg/kg
Chlorimuron-ethyl (Classic)	non-analyzable
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	non-analyzable
Clethodim (E- and Z-isomers)	non-analyzable
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
Colmaphos	<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
Cypridinil	<0.05 mg/kg
Cyromazine	<0.05 mg/kg
Dacthal (Chlorthal-dimethyl, DCPA)	<0.05 mg/kg

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PO Number	CVD	Receipt Condition	Ambient temperature
Sample Serving Size		Login Date	10-May-2019
Description	Lot 210419SB Sample ID 40772	Date Started	10-May-2019

Analysis	Result
Multi-Residue Analysis for hemp products - 500+ compounds	
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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Project ID	MORINDA-20190510-0013	Receipt Date	10-May-2019
PO Number	CVD	Receipt Condition	Ambient temperature
Sample Serving Size		Login Date	10-May-2019
Description	Lot 210419SB Sample ID 40772	Date Started	10-May-2019

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
Dodémorph (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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Sample Serving Size		Login Date	10-May-2019
Description	Lot 210419SB Sample ID 40772	Date Started	10-May-2019

Analysis	Result
Multi-Residue Analysis for hemp products - 500+ compounds	
Etofenprox	<0.05 mg/kg
Etozazole	<0.05 mg/kg
Etrinfos	<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 (Ronnef)	<0.05 mg/kg
Fenchlorphos oxon	<0.05 mg/kg
Fenhexamid	non-analyzable
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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Sample Name:	Nhanced CBD Oil	Eurofins Sample:	8439293
Project ID	MORINDA-20190510-0013	Receipt Date	10-May-2019
PO Number	CVD	Receipt Condition	Ambient temperature
Sample Serving Size		Login Date	10-May-2019
Description	Lot 210419SB Sample ID 40772	Date Started	10-May-2019

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	non-analyzable
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	non-analyzable
Flumioxazin	<0.05 mg/kg
Flumeturon	<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
Formothion	<0.05 mg/kg
Fosthiazate (sum of isomers)	<0.05 mg/kg
Fuberidazole	<0.05 mg/kg

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Sample Serving Size		Login Date	10-May-2019
Description	Lot 210419SB Sample ID 40772	Date Started	10-May-2019

Analysis

Multi-Residue Analysis for hemp products - 500+ compounds

	Result
Furalaxyl	<0.05 mg/kg
Furathiocarb	<0.05 mg/kg
Griseofulvin	<0.05 mg/kg
Halofenozide	<0.05 mg/kg
Halosulfuron-methyl	non-analyzable
Haloxyfop-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	non-analyzable
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
Isoproc carb	<0.05 mg/kg
Isoprothiolane	<0.05 mg/kg
Isoproturon	<0.05 mg/kg

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Project ID	MORINDA-20190510-0013	Receipt Date	10-May-2019
PO Number	CVD	Receipt Condition	Ambient temperature
Sample Serving Size		Login Date	10-May-2019
Description	Lot:210419SB Sample ID 40772	Date Started	10-May-2019

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	non-analyzable
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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Sample Serving Size		Login Date	10-May-2019
Description	Lot 210419SB Sample ID 40772	Date Started	10-May-2019

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	non-analyzable
Metoxuron	<0.05 mg/kg
Metrafenone	<0.05 mg/kg
Metribuzin	<0.05 mg/kg
Metsulfuron-methyl	non-analyzable
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	non-analyzable
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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Description	Lot 210419SB Sample ID 40772	Date Started	10-May-2019

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	non-analyzable
Oxycarboxin	<0.05 mg/kg
Oxychlorane	<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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Morinda

Sample Name:	Nhanced CBD Oil	Eurofins Sample:	8439293
Project ID	MORINDA-20190510-0013	Receipt Date	10-May-2019
PO Number	CVD	Receipt Condition	Ambient temperature
Sample Serving Size		Login Date	10-May-2019
Description	Lot 210419SB Sample ID 40772	Date Started	10-May-2019

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
Profluralin	<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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Sample Name:	Nhanced CBD Oil	Eurofins Sample:	8439293
Project ID	MORINDA-20190510-0013	Receipt Date	10-May-2019
PO Number	CVD	Receipt Condition	Ambient temperature
Sample Serving Size		Login Date	10-May-2019
Description	Lot 210419SB Sample ID 40772	Date Started	10-May-2019

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
Pyroxulam	non-analyzable
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	non-analyzable
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)	non-analyzable
Siduron	<0.05 mg/kg
Silthiofam	<0.05 mg/kg
Simazine	<0.05 mg/kg
Simeconazole	<0.05 mg/kg

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Sample Name:	Nhanced CBD Oil	Eurofins Sample:	8439293
Project ID	MORINDA-20190510-0013	Receipt Date	10-May-2019
PO Number	CVD	Receipt Condition	Ambient temperature
Sample Serving Size		Login Date	10-May-2019
Description	Lot 210419SB Sample ID 40772	Date Started	10-May-2019

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	non-analyzable
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
Tepraloxydim (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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Sample Name:	Nhanced CBD Oil	Eurofins Sample:	8439293
Project ID	MORINDA-20190510-0013	Receipt Date	10-May-2019
PO Number	CVD	Receipt Condition	Ambient temperature
Sample Serving Size		Login Date	10-May-2019
Description	Lot 210419SB Sample ID 40772	Date Started	10-May-2019

Analysis	Result
Multi-Residue Analysis for hemp products - 500+ compounds	
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	non-analyzable
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	non-analyzable
Triflumizole	<0.05 mg/kg
Triflumuron	<0.05 mg/kg
Trifluralin	<0.05 mg/kg

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Sample Name:	Nhanced CBD Oil	Eurofins Sample:	8439293
Project ID	MORINDA-20190510-0013	Receipt Date	10-May-2019
PO Number	CVD	Receipt Condition	Ambient temperature
Sample Serving Size		Login Date	10-May-2019
Description	Lot 210419SB Sample ID 40772	Date Started	10-May-2019

Analysis	Result
Multi-Residue Analysis for hemp products - 500+ compounds	
Triforine	<0.05 mg/kg
Trimethacarb	<0.05 mg/kg
Triticonazole	<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
Methylisobutylketone	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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Sample Name:	Nhanced CBD Oil	Eurofins Sample:	8439293
Project ID	MORINDA-20190510-0013	Receipt Date	10-May-2019
PO Number	CVD	Receipt Condition	Ambient temperature
Sample Serving Size		Login Date	10-May-2019
Description	Lot 210419SB Sample ID 40772	Date Started	10-May-2019

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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Method References	Testing Location
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Residual Solvents - Class 3 (USPR_S) United States Pharmacopeia, 38nd Rev. - National Formulary 33th Ed., Method <467>, USP Convention, Inc., Rockville, MD (2015). (Modified).	Food Integrity Innovation-Madison
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Testing Location(s)	Released on Behalf of Eurofins by
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Food Integrity Innovation-Boulder Eurofins Food Chemistry Testing US, Inc. 2830 Wilderness Pl Boulder CO 80301 800-675-8375	Ian Laessig - Manager 
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AT-1816

Food Integ. Innovation-Greenfield Eurofins Food Chemistry Testing US, Inc. 671 S. Meridian Road Greenfield IN 46140 800-675-8375	Karelyn Koehn - Manager 
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Food Integrity Innovation-Madison Eurofins Food Chemistry Testing US, Inc. 3301 Kinsman Blvd Madison WI 53704 800-675-8375	Edward Ladwig - Director 
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