

For R&D Use Only - Not a California Compliance Certificate.

Isolate



Total CBD	ND			
Total THC	87.65 %			
Total Cannabinoids	99.92 %			

Analysis Summary

Residual Pesticides	Pass	
Residual Solvents & Processing Chemicals	Pass	
Mycotoxins	Pass	
Heavy Metals	Pass	
Microbial Impurities	Pass	

Sample Name:

Isolate

Matrix:

Concentrate

Unit Mass:

1 g per unit

Sample ID:

49140719-1

Date Received:

9/12/2024

Approved By:
Marie True, M.S.
Laboratory Manager

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References: limit of detection (LOD), limit of quantitation (LOQ), not detected (ND), not tested (NT)



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Cannabinoid Analysis Complete

Analyte	LOD (%)	LOQ (%)	Mass (%)	Mass (mg/g)
CBDV	0.0035	0.011	ND	ND
CBD	0.0030	0.0090	ND	ND
CBG	0.0038	0.011	ND	ND
CBDA	0.0017	0.0052	ND	ND
CBN	0.00080	0.0024	ND	ND
Delta 9-THC	0.0022	0.0067	0.2037	2.037
Delta 8-THC	0.0020	0.0059	ND	ND
CBC	0.00070	0.0021	ND	ND
THCA	0.0024	0.0073	99.7162	997.162
Total CBD			ND	ND
Total THC			87.65	876.55
Total Cannabinoids			99.92	999.20

Date Tested: 9/12/2024

Total THC = THCa * 0.877 + d9-THC + d8-THC

Total CBD = CBDa * 0.877 + CBD

Pesticide Analysis Pass

Analyte	LOQ (ppm)	Limit (ppm)	Mass (ppm)	Status	
Abamectin	0.050	0.10	ND	Pass	
Acephate	0.050	0.10	ND	Pass	
Acequinocyl	0.050	0.10	ND	Pass	
Acetamiprid	0.050	0.10	ND	Pass	
Aldicarb	0.050	0.00	ND	Pass	
Azoxystrobin	0.050	0.10	ND	Pass	
Bifenazate	0.050	0.10	ND	Pass	
Bifenthrin	0.050	3.00	ND	Pass	
oscalid	0.050	0.10	ND	Pass	
Captan	0.050	0.70	ND	Pass	
Carbaryl	0.050	0.50	ND	Pass	
Carbofuran	0.050	0.00	ND	Pass	
hlorantraniliprole	0.050	10.00	ND	Pass	
chlordane	0.050	0.00	ND	Pass	
chlorfenapyr	0.050	0.00	ND	Pass	
chlorpyrifos	0.050	0.00	ND	Pass	
lofentezine	0.050	0.10	ND	Pass	
oumaphos	0.050	0.00	ND	Pass	
yfluthrin	0.050	2.00	ND	Pass	
ypermethrin	0.050	1.00	ND	Pass	
aminozide	0.050	0.00	ND	Pass	
DVP	0.050	0.00	ND	Pass	
iazinon	0.050	0.10	ND	Pass	
imethoate	0.050	0.00	ND	Pass	
imethomorph	0.050	2.00	ND	Pass	
thoprophos	0.050	0.00	ND	Pass	
tofenprox	0.050	0.00	ND	Pass	
toxazole	0.050	0.10	ND	Pass	
enhexamid	0.050	0.10	ND	Pass	
enoxycarb	0.050	0.00	ND	Pass	
enpyroximate	0.050	0.10	ND	Pass	
ipronil	0.050	0.00	ND	Pass	
Flonicamid	0.050	0.10	ND	Pass	
Fludioxonil	0.050	0.10	ND	Pass	

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Pesticide Analysis Pass

Analyte	LOQ (ppm)	Limit (ppm)	Mass (ppm)	Status	
Hexythiazox	0.050	0.10	ND	Pass	
mazalil	0.050	0.00	ND	Pass	
midacloprid	0.050	5.00	ND	Pass	
Cresoxim Methyl	0.050	0.10	ND	Pass	
<i>f</i> lalathion	0.050	0.50	ND	Pass	
1etalaxyl	0.050	2.00	ND	Pass	
l ethiocarb	0.050	0.00	ND	Pass	
1ethomyl	0.050	1.00	ND	Pass	
lethyl Parathion	0.050	0.00	ND	Pass	
levinphos	0.050	0.00	ND	Pass	
lyclobutanil	0.050	0.10	ND	Pass	
aled	0.050	0.10	ND	Pass	
xamyl	0.050	0.50	ND	Pass	
aclobutrazol	0.050	0.00	ND	Pass	
entachloronitrobenzene	0.050	0.10	ND	Pass	
ermethrin	0.050	0.50	ND	Pass	
hosmet	0.050	0.10	ND	Pass	
iperonyl Butoxide	0.050	3.00	ND	Pass	
rallethrin	0.050	0.10	ND	Pass	
ropiconazole	0.050	0.10	ND	Pass	
ropoxur	0.050	0.00	ND	Pass	
yrethrins	0.050	0.50	ND	Pass	
yridaben	0.050	0.10	ND	Pass	
oinetoram	0.050	0.10	ND	Pass	
pinosad	0.050	0.10	ND	Pass	
piromesifen	0.050	0.10	ND	Pass	
pirotetramat	0.050	0.10	ND	Pass	
piroxamine	0.050	0.00	ND	Pass	
ebuconazole	0.050	0.10	ND	Pass	
niacloprid	0.050	0.00	ND	Pass	
hiamethoxam	0.050	5.00	ND	Pass	
rifloxystrobin	0.050	0.10	ND	Pass	

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Residual Solvents Analysis

Pass

Analyte	LOQ (μg/g)	Limit (µg/g)	Mass (µg/g)	Status
Acetone	100	5000	ND	Pass
Acetonitrile	100	410	ND	Pass
Benzene	1	1	ND	Pass
Butane	100	5000	ND	Pass
Chloroform	1	1	ND	Pass
1,2-Dichloroethane	1	1	ND	Pass
Ethanol	100	5000	ND	Pass
Ethyl Acetate	100	5000	ND	Pass
Ethyl Ether	100	5000	ND	Pass
Ethylene Oxide	1	1	ND	Pass
Heptane	100	5000	ND	Pass
n-Hexane	100	290	ND	Pass
Isopropanol	100	5000	ND	Pass
Methanol	100	3000	ND	Pass
Methylene Chloride	1	1	ND	Pass
Pentane	100	5000	ND	Pass
Propane	100	5000	ND	Pass
Toluene	100	890	ND	Pass
Trichloroethylene	1	1	ND	Pass
Xylenes	100	2170	ND	Pass

Date Tested: 9/12/2024

Mycotoxins Pass

Analyte	LOQ (μg/g)	Limit (µg/g)	Mass (µg/g)	Status	
Aflatoxin B1	0.02	0.02	ND	Pass	
Aflatoxin B2	0.02	0.02	ND	Pass	
Aflatoxin G1	0.02	0.02	ND	Pass	
Aflatoxin G2	0.02	0.02	ND	Pass	
Ochratoxin A	0.02	0.02	ND	Pass	

Date Tested: 9/12/2024

Heavy Metals Analysis Pass

Analyte	LOQ (μg/g)	Limit (μg/g)	Mass (µg/g)	Status
Arsenic	0.050	0.200	ND	Pass
Cadmium	0.050	0.200	ND	Pass
Lead	0.125	0.500	ND	Pass
Mercury	0.025	0.100	ND	Pass

Date Tested: 9/12/2024



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Microbial Analysis Pass

Result (CFU/g)	Status	
Absent / 1g	Pass	
	Absent / 1g	Absent / 1g Pass

Date Tested: 9/12/2024

CFU = Colony Forming Units

Method References: Testing Location

Cannabinoid Profile (UNODC)

FESA Labs - Santa Ana, CA

Official Methods of Analysis, Method 2018.11.AOAC INTERNATIONAL (modified), Lukas Vaclavik, Frantisek Benes, Alex Krmela, Veronika Svobodova, Jana Hajsolva, 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

United Nations Office on Drugs and Crime - Recommended methods for identification and analysis of cannabis and cannabis products

Multi-Residue Pesticide Analysis - (AOAC_200701)

FESA Labs - Santa Ana, CA

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.

Residual Solvents Analysis - 20 compounds (USP_467)

FESA Labs - Santa Ana, CA

USP current revision, Chapter 62.

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

Mycotoxins Analysis - 5 compounds (FDA_MYC)

FESA Labs - Santa Ana, CA

Determination of Mycotoxins in Corn, Peanut Butter and Wheat Flour Using Stable Isotope Dilution Assay (SIDA) and Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS) (modified).

Heavy Metals Analysis - 4 elements (EPA_200.8)

FESA Labs - Santa Ana, CA

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

"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 (modified).

Microbial Analysis - (FDABAM_4A_5_18)

FESA Labs - Santa Ana, CA

U.S. Food and Drug Administration, Bacteriological Analytical Manual, Chapter 4A, Diarrheagenic Escherichia coli; Chapter 5, Salmonella; Chapter 18, Yeasts, Molds and Mycotoxins (modified).

Testing Location:

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