

Certificate of Analysis

D9 THCO-091222



Client: MC Nutraceuticals



Total CBD	ND
Total THC	0.22 %
THC-O-Acetate	97.96 %
Total Cannabinoids	98.18 %

Analysis Summary

Residual Solvents & Processing Chemicals	Pass
Heavy Metals	Pass
Microbial Impurities	Pass
Acetic Anhydride	Complete

Sample Name:
D9 THCO-091222

Matrix:
Concentrate

Description:
Distillate

Unit Mass:
1 g per unit

Sample ID:
30020912-1

Testing ID:
MCNTRCTCLS-30020912-1

Date Received:
9/12/2022

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

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

Certificate of Analysis

Cannabinoid Analysis

Complete

Analyte	LOQ (%)	Mass (%)	Mass (mg/g)
CBDV	0.00025	ND	ND
CBD	0.00025	ND	ND
CBG	0.00025	ND	ND
CBDA	0.00025	ND	ND
CBN	0.00025	ND	ND
Delta 9-THC	0.00025	0.22	2.24
Delta 8-THC	0.00025	ND	ND
Delta 9-THC-O-Acetate	0.00025	92.74	927.37
Delta 8-THC-O-Acetate	0.00025	5.22	52.22
CBC	0.00025	ND	ND
THCA	0.00025	ND	ND
Total CBD		ND	ND
Total THC		0.22	2.24
Total Cannabinoids		98.18	981.83

Date Tested: 9/16/2022

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

Total CBD = CBDa * 0.877 + CBD

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: 9/14/2022

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: 9/15/2022

Certificate of Analysis

Microbial Analysis

Pass

Test	Result (CFU/g)	Status
<i>Aspergillus flavus</i>	Absent / 1g	Pass
<i>Aspergillus fumigatus</i>	Absent / 1g	Pass
<i>Aspergillus niger</i>	Absent / 1g	Pass
<i>Aspergillus terreus</i>	Absent / 1g	Pass
Shiga-toxin producing <i>Escherichia coli</i>	Absent / 1g	Pass
<i>Salmonella</i>	Absent / 1g	Pass

Date Tested: 9/19/2022

CFU = Colony Forming Units

Acetic Anhydride

Complete

Analyte	LOQ (µg/g)	Mass (µg/g)
Acetic Anhydride	8.59	<LOQ

Date Tested: 10/4/2022

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

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).

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.

"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).

Acetic Anhydride - GC-FID SOP ACAN22923

FESA Labs - Santa Ana, CA

Testing Location:

FESA Labs

2002 S. Grand Ave., Suite A
Santa Ana, CA 92705
(714) 549-5050
www.fesalabs.com