

## **Certificate of Analysis**

# D9 THCO-091222

**Client: MC Nutraceuticals** 





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

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

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**

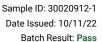
**Pass** 

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

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### **Certificate of Analysis**

Microbial Analysis Pass

Test	Result (CFU/g)	Status	
Aspergillus flavus	Absent / 1g	Pass	
Aspergillus fumigatus	Absent / 1g	Pass	
Aspergillus niger	Absent / 1g	Pass	
Aspergillus terreus	Absent / 1g	Pass	
Shiga-toxin producing Escherichia coli	Absent / 1g	Pass	
Salmonella	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	<l0q< td=""></l0q<>

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:** 

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