

Certificate of Analysis

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

GG4

Matrix: Plant

Unit Mass: 1 g per unit

Sample ID: 47441008-15 Date Received: 10/8/2024



Total CBD	ND		
Delta 9-THC	0.23 %		
THCA	28.90 %		
Total Cannabinoids	29.14 %		
Analysis Summary			
Residual Pesticides	Pass		
Mycotoxins	Pass		
Heavy Metals	Pass		
Microbial Impurities	Pass		

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	0.233	2.33	
Delta 8-THC	0.0020	0.0059	ND	ND	
СВС	0.00070	0.0021	ND	ND	
THCA	0.0024	0.0073	28.903	289.03	
Total CBD			ND	ND	
Total THC			25.58	255.81	ma - in A
Total Cannabinoids			29.14	291.36	Mould- Approved By:

Date Tested: 10/8/2024

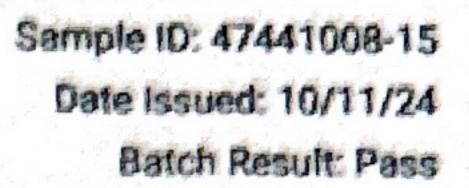
Total THC = THCa * 0.877 + d9-THC + d8-THC; Total CBD = CBDa * 0.877 + CBD

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)





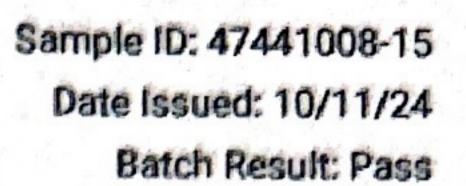
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Pesticide	Analysis
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Pass

unalyte	LOQ (ppm)	Limit (ppm)	Mass (ppm)	Status	
amectin	0.050	0.10	ND	Pass	
ephate	0.050	0.10	ND	Pass	
equinocyl	0.050	0.10	ND	Pass	
etamiprid	0.050	0.10	ND	Pass	
licarb	0.050	0.00	ND	Pass	
oxystrobin	0.050	0.10	ND	Pass	
enazate	0.050	0.10	ND	Pass	
enthrin	0.050	3.00	ND	Pass	
scalid	0.050	0.10	ND	Pass	
otan	0.050	0.70	ND	Pass	
baryl	0.050	0.50	ND	Pass	
bofuran	0.050	0.00	ND	Pass	
orantraniliprole	0.050	10.00	ND	Pass	
ordane	0.050	0.00	ND	Pass	
orfenapyr	0.050	0.00	ND	Pass	
orpyrifos	0.050	0.00	ND	Pass	
fentezine	0.050	0.10	ND	Pass	
umaphos	0.050	0.00	ND	Pass	
luthrin	0.050	2.00	ND	Pass	
ermethrin	0.050	1.00	ND	Pass	
minozide	0.050	0.00	ND	Pass	
VP	0.050	0.00	ND	Pass	
zinon	0.050	0.10	ND	Pass	
nethoate	0.050	0.00	ND	Pass	
nethomorph	0.050	2.00	ND	Pass	
oprophos	0.050	0.00	ND	Pass	
fenprox	0.050	0.00	ND	Pass	
xazole	0.050	0.10	ND	Pass	
hexamid	0.050	0.10	ND	Pass	
noxycarb	0.050	0.00	ND	Pass	
pyroximate	0.050	0.10	ND	Pass	
ronil	0.050	0.00	ND	Pass	
nicamid	0.050	0.10	ND	Pass	
dioxonit	0.050	0.10	ND	Pass	
kythiazox	0.050	0.10	ND	Pass	
azalil	0.050	0.00	ND	Pass	
idacloprid	0.050	5.00	ND	Pass	
soxim Methyl	0.050	0.10	ND	Pass	
lathion	0.050	0.50	ND	Pass	
talaxyl	0.050	2.00	ND	Pass	
thiocarb	0.050	0.00	ND	Pass	
thomyl	0.050	1.00	ND	Pass	
thyl Parathion	0.050	0.00	ND	Pass	
vinphos	0.050	0.00	ND	Pass	
clobutanil	0.050	0.10	ND	Pass	
led	0.050	0.10	ND	Pass	
amyl	0.050	0.50	ND	Pass	
clobutrazol	0.050	0.00	ND	Pass	
ntachloronitrobenzene	0.050	0.10	ND	Pass	
rmethrin	0.050	0.50	ND	Pass	
osmet	0.050	0.10	ND	Pass	
peronyl Butoxide	0.050	3.00	ND	Pass	
allethrin	0.050	0.10	ND	Pass	
opiconazole	0.050	0.10	ND	Pass	





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A	LOQ (ppm)	Limit (ppm)	Mass (ppm)	Status	
Analyte Propoxur	0.050	0.00	ND ND	Pass	
Pyrethrins	0.050	0.50	ND	Pass	
Pyridaben	0.050	0.10	ND	Pass	
Spinetoram	0.050	0.10	ND	Pass	
Spinosad	0.050	0.10	ND	Pass	
Spiromesifen	0.050	0.10	ND	Pass	
Spirotetramat	0.050	0.10	ND	Pass	
Spiroxamine	0.050	0.00	ND	Pass	
Tebuconazole	0.050	0.10	ND	Pass	
Thiacloprid	0.050	0.00	ND	Pass	
Thiamethoxam	0.050	5.00	ND	Pass	
Trifloxystrobin	0.050	0.10	ND	Pass	
Date Tested: 10/10/2024					
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: 10/10/2024					
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	
_ead	0.125	0.500	ND	Pass	
Mercury	0.025	0.100	ND	Pass	
Date Tested: 10/10/2024					
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: 10/11/2024					
CFU = Colony Forming Units					

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.

Mycotoxins Analysis - 5 compounds (FDA_MYC)

FESA Labs - Santa Ana, CA

Determination of Mycotoxins in Com, 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.

"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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