



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

# **Pure Michigan**

Client: Surfside Brands



Total CBD	0.30 %
Total THC	27.12 %
Total Cannabinoids	31.23 %
Analysis Summary	
Total Terpenes	3.33 %
•	
Residual Pesticides	Pass
Residual Pesticides Heavy Metals	Pass Pass

Sample Name:

Pure Michigan

Matrix:

Plant

**Unit Mass:** 

1 g per unit

Sample ID:

61650136-1

Date Received:

1/24/2025

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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3.06 271.28

312.39

Cannabinoid Analysis					Complete
Analyte	LOD (%)	LOQ (%)	Mass (%)	Mass (mg/g)	
CBDV	0.0035	0.011	ND	ND	
CBD	0.0030	0.0090	0.30	3.06	
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	ND	ND	
Delta 8-THC	0.0020	0.0059	ND	ND	
CBC	0.00070	0.0021	ND	ND	
THCA	0.0024	0.0073	30.93	309.33	

0.30

27.12

31.23

Date Tested: 1/29/2025

**Total Cannabinoids** 

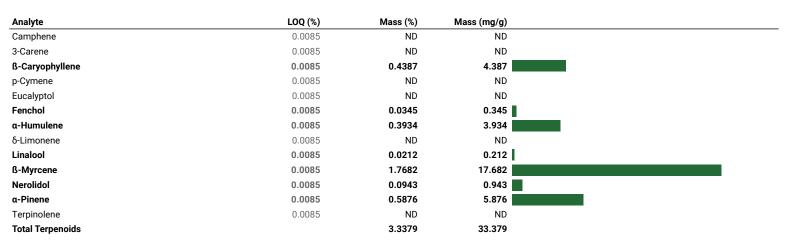
**Total CBD** 

**Total THC** 

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

Total CBD = CBDa \* 0.877 + CBD

Terpenoid Analysis Complete



Date Tested: 1/29/2025

Pesticide Analysis Pass

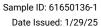
Analyte	LOQ (ppm)	Limit (ppm)	Mass (ppm)	Status
Abamectin	0.050	0.10	ND	Pass
Acephate	0.050	0.10	ND	Pass
Acequinocyl	0.050	0.10	ND	Pass
Acetamiprid	0.050	0.10	ND	Pass
Aldicarb	0.050	0.00	ND	Pass
Azoxystrobin	0.050	0.10	ND	Pass
Bifenazate	0.050	0.10	ND	Pass
Bifenthrin	0.050	3.00	ND	Pass
Boscalid	0.050	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
Chlorantraniliprole	0.050	10.00	ND	Pass



**Pesticide Analysis Pass** 

Analyte	LOQ (ppm)	Limit (ppm)	Mass (ppm)	Status	
Chlordane	0.050	0.00	ND	Pass	
Chlorfenapyr	0.050	0.00	ND	Pass	
Chlorpyrifos	0.050	0.00	ND	Pass	
Clofentezine	0.050	0.10	ND	Pass	
Coumaphos	0.050	0.00	ND	Pass	
Cyfluthrin	0.050	2.00	ND	Pass	
Cypermethrin	0.050	1.00	ND	Pass	
Daminozide	0.050	0.00	ND	Pass	
DDVP	0.050	0.00	ND	Pass	
Diazinon	0.050	0.10	ND	Pass	
Dimethoate	0.050	0.00	ND	Pass	
Dimethomorph	0.050	2.00	ND	Pass	
Ethoprophos	0.050	0.00	ND	Pass	
Etofenprox	0.050	0.00	ND	Pass	
Etoxazole	0.050	0.10	ND	Pass	
Fenhexamid	0.050	0.10	ND	Pass	
Fenoxycarb	0.050	0.00	ND	Pass	
Fenpyroximate	0.050	0.10	ND	Pass	
Fipronil	0.050	0.00	ND	Pass	
Flonicamid	0.050	0.10	ND	Pass	
Fludioxonil	0.050	0.10	ND	Pass	
Hexythiazox	0.050	0.10	ND	Pass	
Imazalil	0.050	0.00	ND	Pass	
Imidacloprid	0.050	5.00	ND ND	Pass	
Kresoxim Methyl	0.050	0.10	ND ND	Pass	
Malathion	0.050	0.10	ND ND	Pass	
Metalaxyl	0.050	2.00	ND	Pass	
Methiocarb	0.050	0.00	ND	Pass	
Method Paratician	0.050	1.00	ND	Pass	
Methyl Parathion	0.050	0.00	ND	Pass	
Mevinphos	0.050	0.00	ND	Pass	
Myclobutanil	0.050	0.10	ND	Pass	
Naled	0.050	0.10	ND	Pass	
Oxamyl	0.050	0.50	ND	Pass	
Paclobutrazol	0.050	0.00	ND	Pass	
Pentachloronitrobenzene	0.050	0.10	ND	Pass	
Permethrin	0.050	0.50	ND	Pass	
Phosmet	0.050	0.10	ND	Pass	
Piperonyl Butoxide	0.050	3.00	ND	Pass	
Prallethrin	0.050	0.10	ND	Pass	
Propiconazole	0.050	0.10	ND	Pass	
Propoxur	0.050	0.00	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: 1/29/2025





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: 1/29/2025

**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

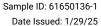
Date Tested: 1/29/2025

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: 1/29/2025

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.

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

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

"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:** 

FESA Labs

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