

# Certificate of Analysis

**Sample Name:** 001T-L03-102425-01  
**Client:** Perfectly Dosed  
**Sample Code:** HEM-251024-004  
**Matrix Name:** Emulsion - Liquid  
**Type / Result:** Quality Assurance - Pass



**Received Date:** Mon, Oct 27, 2025  
**Published Date:** Thu, Oct 30, 2025  
**Batch/Lot Code:** 001T-L03-102425-01  
**Batch Size:** N/A  
**Sample Size:** 1U


## RESULT SUMMARY

Total Cannabinoids	4.9726 %
Total THC	4.9184 %
Total CBD	0.0000 %


<b>POT</b> Cannabinoids Potency ✓	<b>ASP</b> Aspergillus qPCR ✓	<b>AFLA</b> Aflatoxins USP <561> ✓	<b>SS</b> Salmonella & STEC qPCR ✓	<b>LMON</b> Listeria monocytogenes qPCR ✓
<b>HPMET</b> Heavy Metals Expanded 7 ✓	<b>CAPLC</b> Chemical Residue National Panel ✓	<b>CAPGC</b> Chemical Residue National Panel ✓	<b>SOLHM</b> Residual Solvents National Panel ✓	

## Approvals

### RESULTS REVIEWED BY:

 **Leslie Varela**  
Laboratory Director  
Cambium Analytica  
Thursday, Oct 30, 2025

### RESULTS CERTIFIED BY:

 **Douglas Smith**  
VP - Scientific Operations  
Cambium Analytica  
Thursday, Oct 30, 2025

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## Lab Information

**Address:** 1230 Woodmere Ave, Traverse City, MI 49686 **Phone:** 231.252.3669 **Accreditation:** ISO/IEC 17025:2017 – #108157



POT

**Cannabinoids - Potency**

LAB-TM-025 - Determination of Potency of Cannabis and Cannabis Infused Products  
 POT-HEM-251024-004-01 - WED, OCT 29, 2025



Analyte	Value	Value (mg/g)	Action Limit	LOD	LOQ	Status
Delta-9 THC	4.9184 %	49.1840 mg/g	N/A	0.2172 mg/g	0.4345 mg/g	N/A
CBG	0.0542 %	0.5420 mg/g	N/A	0.2172 mg/g	0.4345 mg/g	N/A
(6aR,9R)-Delta-10 THC	ND	N/A	N/A	0.2172 mg/g	0.4345 mg/g	N/A
(6aR,9S)-Delta-10 THC	ND	N/A	N/A	0.2172 mg/g	0.4345 mg/g	N/A
CBC	ND	N/A	N/A	0.2172 mg/g	0.4345 mg/g	N/A
CBD	ND	N/A	N/A	0.2172 mg/g	0.4345 mg/g	N/A
CBDA	ND	N/A	N/A	0.2172 mg/g	0.4345 mg/g	N/A
CBDV	ND	N/A	N/A	0.2172 mg/g	0.4345 mg/g	N/A
CBGA	ND	N/A	N/A	0.2172 mg/g	0.4345 mg/g	N/A
CBN	<LOQ	N/A	N/A	0.2172 mg/g	0.4345 mg/g	N/A
Delta-8 THC	ND	N/A	N/A	0.2172 mg/g	0.4345 mg/g	N/A
Delta-8 THCv	ND	N/A	N/A	0.2172 mg/g	0.4345 mg/g	N/A
THCA	ND	N/A	N/A	0.2172 mg/g	0.4345 mg/g	N/A
Delta-9 THCv	<LOQ	N/A	N/A	0.2172 mg/g	0.4345 mg/g	N/A
Total Cannabinoids*	4.9726 %	49.7260 mg/g	N/A	N/A	N/A	N/A
Delta-9 THC + Delta-8 THC	4.9184 %	49.1840 mg/g	N/A	N/A	N/A	N/A
Total THC*	4.9184 %	49.1840 mg/g	N/A	N/A	N/A	N/A
Total CBD*	0.0000 %	0.0000 mg/g	N/A	N/A	N/A	N/A
Total THCv*	0.0000 %	0.0000 mg/g	N/A	N/A	N/A	N/A

\*Total Cannabinoids is calculated as the sum of all quantified cannabinoids.

\*Total THC is calculated as the sum of Delta-9 THC, Delta-8 THC, and 0.877\*(THCA).

\*Total CBD is calculated as the sum of CBD and 0.877\*(CBDA).

\*Total THCv is calculated as the sum of Delta-8 THCv and Delta-9 THCv.

ASP

**Aspergillus - qPCR**

LAB-TM-006 - Microbial Analysis by qPCR  
 ASP-HEM-251024-004-01 - THU, OCT 30, 2025



Analyte	Value	Action Limit	LOD	LOQ	Status
Aspergillus Flavus	ND	N/A	N/A	N/A	N/A
Aspergillus Fumigatus	ND	N/A	N/A	N/A	N/A
Aspergillus Niger	ND	N/A	N/A	N/A	N/A
Aspergillus Spp	ND	N/A	N/A	N/A	N/A
Aspergillus Terreus	ND	N/A	N/A	N/A	N/A



AFLA

**Aflatoxins - USP <561>**

LAB-TM-043 - USP 561 Aflatoxins Analysis in Articles of Botanical Origin by LC-TQ  
 AFLA-HEM-251024-004-01 - THU, OCT 30, 2025



Analyte	Value	Action Limit	LOD	LOQ	Status
Ochratoxin A	ND	N/A	0.001 ug/g	0.002 ug/g	N/A
Aflatoxin G2	ND	N/A	0.001 ug/g	0.002 ug/g	N/A
Aflatoxin B1	ND	N/A	0.001 ug/g	0.002 ug/g	N/A
Aflatoxin B2	ND	N/A	0.001 ug/g	0.002 ug/g	N/A
Aflatoxin G1	ND	N/A	0.001 ug/g	0.002 ug/g	N/A
Total Aflatoxins*	0.000 ug/g	N/A	N/A	N/A	N/A

\*Total Aflatoxins is calculated as the sum of B1, B2, G1, and G2

SS

**Salmonella & STEC - qPCR**

LAB-TM-006 - Microbial Analysis by qPCR  
 SS-HEM-251024-004-01 - THU, OCT 30, 2025



Analyte	Value	Action Limit	LOD	LOQ	Status
Salmonella spp.	ND	N/A	N/A	N/A	N/A
Shiga Toxin Producing E. coli	ND	N/A	N/A	N/A	N/A

LMON

**Listeria monocytogenes - qPCR - 25g**

LAB-TM-064 - Detection of Presumptive L. monocytogenes in Foods and Dietary Supplements  
 LMON-HEM-251024-004-01 - WED, OCT 29, 2025



Analyte	Value	Action Limit	LOD	LOQ	Status
Listeria monocytogenes	ND	N/A	N/A	N/A	N/A

HPMET

**Heavy Metals - Expanded 7**

LAB-TM-044 - Determination of Heavy Metals by ICP-MS  
 HPMET-HEM-251024-004-01 - WED, OCT 29, 2025



Analyte	Value	Value (mg/g)	Action Limit	LOD	LOQ	Status
Arsenic	0.006 ug/g	0.000 mg/g	N/A	0.509 ug/kg	2.062 ug/kg	N/A
Cadmium	ND	N/A	N/A	0.256 ug/kg	0.509 ug/kg	N/A
Chromium	0.033 ug/g	0.000 mg/g	N/A	0.259 ug/kg	0.509 ug/kg	N/A
Copper	0.124 ug/g	0.000 mg/g	N/A	0.255 ug/kg	1.015 ug/kg	N/A
Lead	<LOQ	N/A	N/A	0.255 ug/kg	0.515 ug/kg	N/A
Mercury	ND	N/A	N/A	0.025 ug/kg	0.057 ug/kg	N/A
Nickel	0.008 ug/g	0.000 mg/g	N/A	0.251 ug/kg	0.509 ug/kg	N/A



CAPLC

## Chemical Residue - National Panel - LC-TQ

ANA-TM-105 - Determination of Chemical Residue by LC-TQ - National Panel  
CAPLC-HEM-251024-004-01 - WED, OCT 29, 2025

Analyte	Value	Action Limit	LOD	LOQ	Status
Abamectin	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Acephate	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Acequinocyl	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Acetamiprid	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Aldicarb	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Azoxystrobin	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Bifenazate	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Bifenthrin	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Boscalid	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Carbaryl	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Carbofuran	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Chlorantraniliprole	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Chlormequat Chloride	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Chlorpyrifos	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Clofentezine	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Coumaphos	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Cyfluthrin	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Cypermethrin	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Daminozide	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Diazinon	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Dichlorvos	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Dimethoate	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Dimethomorph I	ND	N/A	0.026 ug/g	0.052 ug/g	N/A
Dimethomorph II	ND	N/A	0.036 ug/g	0.072 ug/g	N/A
Ethoprophos	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Etofenprox	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Etoxazole	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Fenhexamid	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Fenoxycarb	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Fenpyroximate	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Fipronil	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Fonicamid	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Fludioxonil	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Hexythiazox	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Imazalil	ND	N/A	0.063 ug/g	0.125 ug/g	N/A

\*Total Dimethomorphs is calculated as the sum of Dimethomorph I and Dimethomorph II.

\*Total Pyrethrins is calculated as the sum of Cinerin I, Cinerin II, Jasmolin I, Jasmolin II, Pyrethrin I, and Pyrethrin II.

\*Total Spinetoram is calculated as the sum of Spinetoram J and Spinetoram L.

\*Total Spinosads is calculated as the sum of Spinosad A and Spinosad D.



CAPLC

## Chemical Residue - National Panel - LC-TQ

ANA-TM-105 - Determination of Chemical Residue by LC-TQ - National Panel  
CAPLC-HEM-251024-004-01 - WED, OCT 29, 2025

Analyte	Value	Action Limit	LOD	LOQ	Status
Imidacloprid	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Kresoxim Methyl	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Malathion	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Metalaxyl	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Methiocarb	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Methomyl	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Mevinphos	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
MGK-264	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Myclobutanil	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Naled	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Oxamyl	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Paclobutrazol	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Permethrins (Sum of Cis- and Trans-Permethrin)	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Phosmet	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Piperonyl Butoxide	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Prallethrin	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Propiconazole	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Propoxur	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Pyrethrins Cinerin I	ND	N/A	0.002 ug/g	0.004 ug/g	N/A
Pyrethrins Cinerin II	ND	N/A	0.001 ug/g	0.002 ug/g	N/A
Pyrethrins Jasmolin I	ND	N/A	0.002 ug/g	0.004 ug/g	N/A
Pyrethrins Jasmolin II	ND	N/A	0.002 ug/g	0.004 ug/g	N/A
Pyrethrins Pyrethrin I	ND	N/A	0.034 ug/g	0.069 ug/g	N/A
Pyrethrins Pyrethrin II	ND	N/A	0.021 ug/g	0.042 ug/g	N/A
Pyridaben	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Spinetoram J	ND	N/A	0.046 ug/g	0.092 ug/g	N/A
Spinetoram L	ND	N/A	0.016 ug/g	0.032 ug/g	N/A
Spinosad A	ND	N/A	0.048 ug/g	0.095 ug/g	N/A
Spinosad D	ND	N/A	0.015 ug/g	0.03 ug/g	N/A
Spiromesifen	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Spirotetramat	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Spiroxamine	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Tebuconazole	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Thiacloprid	ND	N/A	0.063 ug/g	0.125 ug/g	N/A

\*Total Dimethomorphs is calculated as the sum of Dimethomorph I and Dimethomorph II.

\*Total Pyrethrins is calculated as the sum of Cinerin I, Cinerin II, Jasmolin I, Jasmolin II, Pyrethrin I, and Pyrethrin II.

\*Total Spinetorams is calculated as the sum of Spinetoram J and Spinetoram L.

\*Total Spinosads is calculated as the sum of Spinosad A and Spinosad D.



CAPLC

**Chemical Residue - National Panel - LC-TQ**

ANA-TM-105 - Determination of Chemical Residue by LC-TQ - National Panel  
 CAPLC-HEM-251024-004-01 - WED, OCT 29, 2025

Analyte	Value	Action Limit	LOD	LOQ	Status
Thiamethoxam	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Trifloxystrobin	ND	N/A	0.063 ug/g	0.125 ug/g	N/A
Total Dimethomorphs*	0.000 ug/g	N/A	N/A	N/A	N/A
Total Pyrethrins*	0.000 ug/g	N/A	N/A	N/A	N/A
Total Spinetoram*	0.000 ug/g	N/A	N/A	N/A	N/A
Total Spinosads*	0.000 ug/g	N/A	N/A	N/A	N/A

\*Total Dimethomorphs is calculated as the sum of Dimethomorph I and Dimethomorph II.

\*Total Pyrethrins is calculated as the sum of Cinerin I, Cinerin II, Jasmolin I, Jasmolin II, Pyrethrin I, and Pyrethrin II.

\*Total Spinetorams is calculated as the sum of Spinetoram J and Spinetoram L.

\*Total Spinosads is calculated as the sum of Spinosad A and Spinosad D.



CAPGC

## Chemical Residue - National Panel - GC-TQ

ANA-TM-109 - Determination of Chemical Residue by GC-TQ - National Panel  
CAPGC-HEM-251024-004-01 - THU, OCT 30, 2025

Analyte	Value	Action Limit	LOD	LOQ	Status
Captan	ND	N/A	0.030 ug/g	0.102 ug/g	N/A
Chlordane-cis	ND	N/A	0.004 ug/g	0.013 ug/g	N/A
Chlordane-trans	ND	N/A	0.003 ug/g	0.011 ug/g	N/A
Chlorfenapyr	ND	N/A	0.014 ug/g	0.048 ug/g	N/A
Methyl Parathion	ND	N/A	0.008 ug/g	0.022 ug/g	N/A
Pentachloronitrobenzene	ND	N/A	0.012 ug/g	0.041 ug/g	N/A
Total Chlordanes*	0.000 ug/g	N/A	N/A	N/A	N/A

\*Total Chlordanes is calculated as the sum of Chlordane-cis and Chlordane-trans.



SOLHM

## Residual Solvents - National Panel

ANA-TM-004 - Determination of Residual Solvents

SOLHM-HEM-251024-004-01 - WED, OCT 29, 2025



Analyte	Value	Action Limit	LOD	LOQ	Status
1,1-Dichloroethene	ND	N/A	0.78 ug/g	2.59 ug/g	N/A
1,2-Dichloroethane	ND	N/A	0.5 ug/g	1.00 ug/g	N/A
2-Methylbutane	ND	N/A	1.54 ug/g	5.14 ug/g	N/A
2-Methylpentane	ND	N/A	0.046 ug/g	0.154 ug/g	N/A
2,2-Dimethylbutane	ND	N/A	0.98 ug/g	3.27 ug/g	N/A
2,3-Dimethylbutane	ND	N/A	2.19 ug/g	7.32 ug/g	N/A
3-Methylpentane	ND	N/A	0.73 ug/g	2.44 ug/g	N/A
Acetone	ND	N/A	1.57 ug/g	5.23 ug/g	N/A
Acetonitrile	ND	N/A	1.85 ug/g	6.17 ug/g	N/A
Benzene	ND	N/A	0.18 ug/g	0.50 ug/g	N/A
Butane	ND	N/A	1.68 ug/g	5.59 ug/g	N/A
Chloroform	ND	N/A	0.78 ug/g	1 ug/g	N/A
Ethanol	ND	N/A	6.02 ug/g	20.1 ug/g	N/A
Ethyl Acetate	ND	N/A	1.95 ug/g	6.49 ug/g	N/A
Ethyl Ether	ND	N/A	1.37 ug/g	4.55 ug/g	N/A
Ethylene Oxide	ND	N/A	0.15 ug/g	0.49 ug/g	N/A
Heptane	ND	N/A	1.31 ug/g	4.37 ug/g	N/A
Hexane	ND	N/A	1.42 ug/g	4.74 ug/g	N/A
Isobutane	ND	N/A	1.6 ug/g	5.34 ug/g	N/A
Isopropyl Alcohol	28.252 ug/g	N/A	4.9 ug/g	16.3 ug/g	N/A
Methanol	ND	N/A	7.89 ug/g	26.4 ug/g	N/A
Methylene Chloride	ND	N/A	1.36 ug/g	4.53 ug/g	N/A
Neopentane	ND	N/A	1.49 ug/g	4.97 ug/g	N/A
Pentane	ND	N/A	1.46 ug/g	4.87 ug/g	N/A
Propane	ND	N/A	1.95 ug/g	6.51 ug/g	N/A
Toluene	ND	N/A	1.88 ug/g	6.26 ug/g	N/A
Total Xylenes	ND	N/A	2.02 ug/g	6.72 ug/g	N/A
Trichloroethylene	ND	N/A	0.29 ug/g	0.96 ug/g	N/A
Total Butanes*	0.000 ug/g	N/A	N/A	N/A	N/A
Total Hexanes*	0.000 ug/g	N/A	N/A	N/A	N/A
Total Pentanes*	0.000 ug/g	N/A	N/A	N/A	N/A

\*Total Butanes is calculated as the sum of Butane and Isobutane

\*Total Hexanes is calculated as the sum of Hexane, 2,2-Dimethylbutane, 2,3-Dimethylbutane, 2-Methylpentane, and 3-Methylpentane.

\*Total Pentanes is calculated as the sum of Pentane, 2-Methylbutane, and Neopentane.

