

CERTIFICATE OF ANALYSIS

SAMPLE NAME: 50MG BROAD SPECTRUM
SAMPLE CODE: HEM-250410-007
CLIENT: cbdMD
BATCH RESULT: PASS

MATRIX NAME: Edible Solid - Other
SAMPLE TYPE: Compliance
RECEIVED DATE: Mon, Apr 14, 2025
PUBLISHED DATE: Tue, Apr 22, 2025
BATCH/LOT CODE: 503002
BATCH SIZE: N/A
SAMPLE SIZE: 36.73g

TOTAL CANNABINOIDS 14.7646 %

TOTAL CBD 13.8426 %

TOTAL THC 0.0000 %



POT ✓
Cannabinoids
Potency

SOL ✓
Residual Solvents
USP <467>

ECOLI ✓
Total E. Coli & Coliforms
Plate

PGUSP ✓
Pesticides
USP <561>m

PLUSP ✓
Pesticides
USP <561>m

TAMC ✓
Total Aerobic Bacteria
Plate

SS ✓
Salmonella & STEC
qPCR

SAUR ✓
Staphylococcus aureus
Plate

HVMET ✓
Heavy Metals
4

TYMFD ✓
Total Yeast & Mold
Plate

APPROVALS

RESULTS REVIEWED BY:



Leslie Varela
Laboratory Director

Cambium Analytica
Tuesday, Apr 22, 2025

RESULTS CERTIFIED BY:



Douglas Smith
VP - Scientific Operations

Cambium Analytica
Tuesday, Apr 22, 2025

This report may not be reproduced except in full without approval from Cambium Analytica. The results herein relate only to the sample & batch identified in this report.



POT

CANNABINOIDS - POTENCY

LAB-TM-025 - DETERMINATION OF POTENCY OF CANNABIS AND CANNABIS INFUSED PRODUCTS
 POT-HEM-250410-007-03 - THU, APR 17, 2025



ANALYTE	VALUE	VALUE (MG/G)	ACTION LIMIT	LOD	LOQ	STATUS
CBD	13.8426 %	138.426 mg/g	N/A	400 ug/g	800 ug/g	N/A
CBG	0.2947 %	2.947 mg/g	N/A	400 ug/g	800 ug/g	N/A
CBN	0.2755 %	2.755 mg/g	N/A	400 ug/g	800 ug/g	N/A
CBC	0.2065 %	2.065 mg/g	N/A	400 ug/g	800 ug/g	N/A
CBDV	0.1454 %	1.454 mg/g	N/A	400 ug/g	800 ug/g	N/A
(6aR,9R)-Delta-10 THC	ND	N/A	N/A	400 ug/g	800 ug/g	N/A
(6aR,9S)-Delta-10 THC	ND	N/A	N/A	400 ug/g	800 ug/g	N/A
CBDA	ND	N/A	N/A	400 ug/g	800 ug/g	N/A
CBGA	<LOQ	N/A	N/A	400 ug/g	800 ug/g	N/A
Delta-8 THC	ND	N/A	N/A	400 ug/g	800 ug/g	N/A
Delta-8 THCV	ND	N/A	N/A	400 ug/g	800 ug/g	N/A
Delta-9 THC	ND	N/A	N/A	400 ug/g	800 ug/g	N/A
Delta-9 THCV	ND	N/A	N/A	400 ug/g	800 ug/g	N/A
THCA	ND	N/A	N/A	400 ug/g	800 ug/g	N/A
Total Cannabinoids*	14.7646 %	147.646 mg/g	N/A	N/A	N/A	N/A
Total CBD*	13.8426 %	138.426 mg/g	N/A	N/A	N/A	N/A
Delta-9 THC + Delta-8 THC	0.0000 %	0.000 mg/g	N/A	N/A	N/A	N/A
Total THCV*	0.0000 %	0.000 mg/g	N/A	N/A	N/A	N/A
Total THC*	0.0000 %	0.000 mg/g	N/A	N/A	N/A	N/A

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

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.

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



SOL

RESIDUAL SOLVENTS - USP <467>

LAB-TM-004 - DETERMINATION OF RESIDUAL SOLVENTS
SOL-HEM-250410-007-01 - WED, APR 16, 2025

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
1,2-Dichloroethane	ND	N/A	0.4 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	1.00 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	17.960 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
Butanes (Sum of Butane and Isobutane)	0.000 ug/g	N/A	N/A	N/A	N/A
Hexanes (Sum of Hexane, 2,2-Dimethylbutane, 2,3-Dimethylbutane, 2-Methylpentane, and 3-Methylpentane)	0.000 ug/g	N/A	N/A	N/A	N/A
Pentanes (Sum of Pentane, 2-Methylbutane, and Neopentane)	0.000 ug/g	N/A	N/A	N/A	N/A





TOTAL E. COLI & COLIFORMS - PLATE

LAB-TM-059 - ENUMERATION OF ESCHERICHIA COLI AND TOTAL COLIFORM IN FOODS AND DIETARY SUPPLEMENTS
 ECOLI-HEM-250410-007-01 - WED, APR 16, 2025



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
E. coli	ND	N/A	10 CFU/g	10 CFU/g	N/A
Total Coliforms	ND	N/A	10 CFU/g	10 CFU/g	N/A

N/A

N/A



PGUSP

PESTICIDES - USP <561>M - GC/TQ

LAB-TM-039 - USP 561 PESTICIDES ANALYSIS IN ARTICLES OF BOTANICAL ORIGIN BY GC/TQ
PGUSP-HEM-250410-007-01 - TUE, APR 22, 2025

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Aldrin + Dieldrin	ND	0.05 ug/g	0.1 ng/g	0.2 ng/g	PASS
Bromophos Ethyl	ND	0.05 ug/g	0.1 ng/g	0.2 ng/g	PASS
Bromophos Methyl	ND	0.05 ug/g	0.1 ng/g	0.2 ng/g	PASS
Bromopropylate	ND	3.00 ug/g	6 ng/g	12 ng/g	PASS
Chlordane (Sum of -Cis, -Trans, Oxychlordane)	ND	0.05 ug/g	0.1 ng/g	0.2 ng/g	PASS
Chlorpyrifos Methyl	ND	0.10 ug/g	0.2 ng/g	0.4 ng/g	PASS
Chlorthal-Dimethyl	ND	0.01 ug/g	0.02 ng/g	0.04 ng/g	PASS
DDT (Sum of O,P-DDE, P,P-DDE, O,P-DDT, P,P-DDT, O,P-TDE, and P,P-TDE)	ND	1.00 ug/g	2 ng/g	4 ng/g	PASS
Dicofol	ND	0.50 ug/g	1 ng/g	2 ng/g	PASS
Endosulfan (Sum of Isomers and Sulphate)	ND	3.00 ug/g	6 ng/g	12 ng/g	PASS
Endrin	ND	0.05 ug/g	0.1 ng/g	0.2 ng/g	PASS
Fenchlorophos (Sum of Fenchlorophos and Fenchlorophos-Oxon)	ND	0.10 ug/g	0.2 ng/g	0.4 ng/g	PASS
Fenitrothion	ND	0.50 ug/g	1 ng/g	2 ng/g	PASS
Fenvalerate	ND	1.50 ug/g	3 ng/g	6 ng/g	PASS
Fluvalinate-Tau	ND	0.05 ug/g	0.1 ng/g	0.2 ng/g	PASS
Heptachlor (Sum of Heptachlor, Cis-Heptachlorepoide, and Trans-Heptachlorepoide)	ND	0.05 ug/g	0.1 ng/g	0.2 ng/g	PASS
Hexachlorobenzene	ND	0.10 ug/g	0.2 ng/g	0.4 ng/g	PASS
Hexachlorocyclohexane (Sum of Isomers Alpha-, Beta-, Delta-, and Epsilon-)	ND	0.30 ug/g	0.6 ng/g	1.2 ng/g	PASS
Lindane (Gamma-Hexachlorocyclohexane)	ND	0.60 ug/g	1.2 ng/g	2.4 ng/g	PASS
Methacriphos	ND	0.05 ug/g	0.1 ng/g	0.2 ng/g	PASS
Methoxychlor	ND	0.05 ug/g	0.1 ng/g	0.2 ng/g	PASS
Mirex	ND	0.01 ug/g	0.02 ng/g	0.04 ng/g	PASS
Parathion Ethyl + Paraaxon Ethyl	ND	0.50 ug/g	1 ng/g	2 ng/g	PASS
Parathion Methyl + Paraaxon Methyl	ND	0.20 ug/g	0.4 ng/g	0.8 ng/g	PASS
Pentachloroanisole	ND	0.01 ug/g	0.02 ng/g	0.04 ng/g	PASS
Procymidone	ND	0.10 ug/g	0.2 ng/g	0.4 ng/g	PASS
Quintozene (Sum of Quintozene, Pentachloroaniline, and Methyl-Pentachlorophenyl Sulfide)	ND	1.00 ug/g	2 ng/g	4 ng/g	PASS

Modified Test Method does not include the following analytes:

Bromide, inorganic (calculated as bromide ion)

Chlorpyrifos-methyl

Dichlofluanid

Dithiocarbamates (as CS₂)

Parathion-methyl and Paraaxon-methyl (sum of)



PGUSP

PESTICIDES - USP <561>M - GC/TQ

LAB-TM-039 - USP 561 PESTICIDES ANALYSIS IN ARTICLES OF BOTANICAL ORIGIN BY GC/TQ
PGUSP-HEM-250410-007-01 - TUE, APR 22, 2025

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
S-421	ND	0.02 ug/g	0.04 ng/g	0.08 ng/g	PASS
Tecnazene	ND	0.05 ug/g	0.1 ng/g	0.2 ng/g	PASS
Tetradifon	ND	0.30 ug/g	0.6 ng/g	1.2 ng/g	PASS
Vinclozolin	ND	0.40 ug/g	0.8 ng/g	1.6 ng/g	PASS

Modified Test Method does not include the following analytes:

Bromide, inorganic (calculated as bromide ion)

Chlorpyrifos-methyl

Dichlofluanid

Dithiocarbamates (as CS₂)

Parathion-methyl and Paraaxon-methyl (sum of)



PLUSP

PESTICIDES - USP <561>M - LC/TQ

LAB-TM-038 - USP 561 PESTICIDE ANALYSIS IN ARTICLES OF BOTANICAL ORIGIN BY LC/TQ
PLUSP-HEM-250410-007-01 - THU, APR 17, 2025

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Acephate	ND	0.10 ug/g	12.5 ng/g	25 ng/g	PASS
Alachlor	ND	0.05 ug/g	12.5 ng/g	25 ng/g	PASS
Azinphos Ethyl	ND	0.10 ug/g	12.5 ng/g	25 ng/g	PASS
Azinphos Methyl	ND	1.00 ug/g	12.5 ng/g	25 ng/g	PASS
Chlorfenvinphos	ND	0.50 ug/g	12.5 ng/g	25 ng/g	PASS
Chlorpyrifos Ethyl	ND	0.20 ug/g	12.5 ng/g	25 ng/g	PASS
Cyfluthrin	ND	0.10 ug/g	12.5 ng/g	25 ng/g	PASS
Cypermethrin	ND	1.00 ug/g	12.5 ng/g	25 ng/g	PASS
Deltamethrin	ND	0.50 ug/g	12.5 ng/g	25 ng/g	PASS
Diazinon	ND	0.50 ug/g	12.5 ng/g	25 ng/g	PASS
Dichlorvos	ND	1.00 ug/g	12.5 ng/g	25 ng/g	PASS
Dimethoate + Omethoate	ND	0.10 ug/g	12.5 ng/g	25 ng/g	PASS
Ethion	ND	2.00 ug/g	12.5 ng/g	25 ng/g	PASS
Etrimphos	ND	0.05 ug/g	12.5 ng/g	25 ng/g	PASS
Fenpropathrin	ND	0.03 ug/g	12.5 ng/g	25 ng/g	PASS
Fensulfothion (Sum of Fensulfothion, Fensulfothion-Oxon, Fensulfothion-Oxon-Sulfone, and Fensulfothion-Sulfone)	ND	0.05 ug/g	12.5 ng/g	25 ng/g	PASS
Fenthion (Sum of Fenthion, Fenthion-Oxon, Fenthion-Oxon-Sulfone, Fenthion-Oxon-Sulfoxide, Fenthion-Sulfone, and Fenthion-Sulfoxide)	ND	0.05 ug/g	12.5 ng/g	25 ng/g	PASS
Flucythrinate	ND	0.05 ug/g	12.5 ng/g	25 ng/g	PASS
Fonophos	ND	0.05 ug/g	12.5 ng/g	25 ng/g	PASS
Lambda-Cyhalothrin	ND	1.00 ug/g	12.5 ng/g	25 ng/g	PASS
Malathion + Malaaxon	ND	1.00 ug/g	12.5 ng/g	25 ng/g	PASS
Mecarbam	ND	0.05 ug/g	12.5 ng/g	25 ng/g	PASS
Methamidophos	ND	0.05 ug/g	12.5 ng/g	25 ng/g	PASS
Methidathion	ND	0.20 ug/g	12.5 ng/g	25 ng/g	PASS
Monocrotophos	ND	0.10 ug/g	12.5 ng/g	25 ng/g	PASS
Pendimethalin	ND	0.10 ug/g	12.5 ng/g	25 ng/g	PASS
Permethrins (Sum of Cis- and Trans-Permethrin)	ND	1.00 ug/g	12.5 ng/g	25 ng/g	PASS
Phosalone	ND	0.10 ug/g	12.5 ng/g	25 ng/g	PASS
Phosmet	ND	0.05 ug/g	12.5 ng/g	25 ng/g	PASS

Modified Test Method does not include the following analytes:

Bromide, inorganic (calculated as bromide ion)

Chlorpyrifos-methyl

Dichlofluanid

Dithiocarbamates (as CS₂)

Parathion-methyl and Paraaxon-methyl (sum of)



PLUSP

PESTICIDES - USP <561>M - LC/TQ

LAB-TM-038 - USP 561 PESTICIDE ANALYSIS IN ARTICLES OF BOTANICAL ORIGIN BY LC/TQ
PLUSP-HEM-250410-007-01 - THU, APR 17, 2025

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Piperonyl Butoxide	ND	3.00 ug/g	12.5 ng/g	25 ng/g	PASS
Pirimiphos Ethyl	ND	0.05 ug/g	12.5 ng/g	25 ng/g	PASS
Pirimiphos Methyl (Sum of Pirimiphos-Methyl and n- Desethyl-Pirimiphos-Methyl)	ND	4.00 ug/g	12.5 ng/g	25 ng/g	PASS
Profenophos	ND	0.10 ug/g	12.5 ng/g	25 ng/g	PASS
Prothiophos	ND	0.05 ug/g	12.5 ng/g	25 ng/g	PASS
Pyrethrins (Sum of Cinerin 1, Jasmolin 1, and Pyrethrin 1)	ND	3.00 ug/g	12.5 ng/g	25 ng/g	PASS
Quinalphos	ND	0.05 ug/g	12.5 ng/g	25 ng/g	PASS

Modified Test Method does not include the following analytes:

Bromide, inorganic (calculated as bromide ion)

Chlorpyrifos-methyl

Dichlofluanid

Dithiocarbamates (as CS₂)

Parathion-methyl and Paraoxon-methyl (sum of)



TAMC **TOTAL AEROBIC BACTERIA - PLATE**
 LAB-TM-060 - ENUMERATION OF TOTAL AEROBIC COUNT IN FOODS AND DIETARY SUPPLEMENTS
 TAMC-HEM-250410-007-01 - WED, APR 16, 2025



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Total Aerobic Count	ND	N/A	10 CFU/g	10 CFU/g	N/A

SS **SALMONELLA & STEC- QPCR**
 LAB-TM-006 - MICROBIAL ANALYSIS BY QPCR
 SS-HEM-250410-007-01 - WED, APR 16, 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

SAUR **STAPHYLOCOCCUS AUREUS - PLATE**
 LAB-TM-062 - ENUMERATION OF STAPHYLOCOCCUS AUREUS IN FOODS AND DIETARY SUPPLEMENTS
 SAUR-HEM-250410-007-01 - WED, APR 16, 2025



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
S. aureus	ND	N/A	10 CFU/g	10 CFU/g	N/A

HVMET **HEAVY METALS - 4**
 LAB-TM-044 - DETERMINATION OF HEAVY METALS BY ICP-MS
 HVMET-HEM-250410-007-01 - WED, APR 16, 2025



ANALYTE	VALUE	VALUE (MG/G)	ACTION LIMIT	LOD	LOQ	STATUS
Arsenic	ND	N/A	N/A	0.198 ug/kg	0.662 ug/kg	N/A
Cadmium	ND	N/A	N/A	0.082 ug/kg	0.272 ug/kg	N/A
Lead	0.002 ug/g	0.000 mg/g	N/A	0.155 ug/kg	0.515 ug/kg	N/A
Mercury	0.000 ug/g	0.000 mg/g	N/A	0.017 ug/kg	0.057 ug/kg	N/A

TYMFD **TOTAL YEAST & MOLD - PLATE**
 LAB-TM-061 - ENUMERATION OF YEAST AND MOLD IN FOODS AND DIETARY SUPPLEMENTS
 TYMFD-HEM-250410-007-01 - THU, APR 17, 2025

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Total Yeast and Mold	ND	N/A	10 CFU/g	10 CFU/g	N/A



CSG-30-1500 - 50mg Broad Spectrum

 Sample ID: SA-250625-64116
 Lot: 503002
 Type: Finished Product - Ingestible
 Matrix: Edible - Softgel

 Received: 06/27/2025
 Completed: 07/02/2025

Client
 cbdMD
 2101 Westinghouse Blvd
 Charlotte, NC 28273
 USA
 Lic. #: HP315


Summary

Test
 Microbials

Date Tested
 07/02/2025

Status
 Tested

Microbials by PCR and Plating

Analyte	LOD (CFU/g)	Result (CFU/g)	Result (Qualitative)
Listeria mono.			Not Detected per 1 gram

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; CFU = Colony Forming Units; P = Pass; F = Fail; RL = Reporting Limit; TNTC = Too Numerous to Count; Aerobic Plate Count: AOAC 2015.13, Total Coliforms/E.Coli: AOAC 2018.13, Salmonella: AOAC 2020.02, Listeria Monocytogenes: AOAC 2019.11, Listeria Spp.: AOAC 2019.10, EHEC: AOAC 2020.06



 Generated By: Ryan Bellone
 Commercial Director
 Date: 07/02/2025



 Tested By: Sara Cook
 Laboratory Technician
 Date: 07/02/2025
