

Certificate of Analysis

Sample Name: Sleep Blend
Client: CBD Hemp Experts
Sample Code: HEM-250725-071
Matrix Name: Other
Type / Result: Quality Assurance - Pass



Received Date: Mon, Jul 28, 2025
Published Date: Mon, Aug 04, 2025
Batch/Lot Code: 507003
Batch Size: N/A
Sample Size: 1 U
Average Unit Weight: 0.592 g (1 softgel)

RESULT SUMMARY	
Total Cannabinoids	42.71 mg/serv
Total CBD	35.36 mg/serv
Total THC	0 mg/serv

POT Cannabinoids Potency	SOL Residual Solvents USP <467>	ECOLI Total Coliforms & E. coli Plate	PGUSP Pesticides USP <561>m	PLUSP Pesticides USP <561>m
TAMC Total Aerobic Bacteria Plate	SS Salmonella & STEC qPCR	HVMET Heavy Metals Big 4	TYMFD Total Yeast & Mold Plate	MELAT Melatonin

Approvals

RESULTS REVIEWED BY:

Leslie Varela
Laboratory Director
Cambium Analytica
Mon, Aug 04, 2025

RESULTS CERTIFIED BY:

Douglas Smith
VP - Scientific Operations
Cambium Analytica
Mon, Aug 04, 2025

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POT

Cannabinoids - Potency

LAB-TM-025 - Determination of Potency of Cannabis and Cannabis Infused Products

POT-HEM-250725-071-01 - FRI, JUL 25, 2025



Analyte	Value	Value (mg)	Per Serving	Per Package	Action Limit	LOD	LOQ	Status
CBD	5.9724 %	59.7241 mg/g	35.36 mg	35.36 mg	N/A	400 ug/g	800 ug/g	N / A
CBN	0.9807 %	9.8067 mg/g	5.81 mg	5.81 mg	N/A	400 ug/g	800 ug/g	N / A
CBC	0.1372 %	1.372 mg/g	0.81 mg	0.81 mg	N/A	400 ug/g	800 ug/g	N / A
CBG	0.1232 %	1.2315 mg/g	0.73 mg	0.73 mg	N/A	400 ug/g	800 ug/g	N / A
(6aR,9R)-Delta-10 THC	ND	N/A	N/A	N/A	N/A	400 ug/g	800 ug/g	N / A
(6aR,9S)-Delta-10 THC	ND	N/A	N/A	N/A	N/A	400 ug/g	800 ug/g	N / A
CBDA	ND	N/A	N/A	N/A	N/A	400 ug/g	800 ug/g	N / A
CBDV	<LOQ	N/A	N/A	N/A	N/A	400 ug/g	800 ug/g	N / A
CBGA	<LOQ	N/A	N/A	N/A	N/A	400 ug/g	800 ug/g	N / A
Delta-8 THC	ND	N/A	N/A	N/A	N/A	400 ug/g	800 ug/g	N / A
Delta-8 THCV	ND	N/A	N/A	N/A	N/A	400 ug/g	800 ug/g	N / A
Delta-9 THC	ND	N/A	N/A	N/A	N/A	400 ug/g	800 ug/g	N / A
THCA	ND	N/A	N/A	N/A	N/A	400 ug/g	800 ug/g	N / A
Delta-9 THCV	ND	N/A	N/A	N/A	N/A	400 ug/g	800 ug/g	N / A
Total Cannabinoids*	7.2134 %	72.1344 mg/g	42.71 mg	42.71 mg	N/A	N/A	N/A	N / A
Total CBD*	5.9724 %	59.7241 mg/g	35.36 mg	35.36 mg	N/A	N/A	N/A	N / A
Delta-9 THC + Delta-8 THC	0 %	0 mg/g	0 mg	0 mg	N/A	N/A	N/A	N / A
Total THCV*	0 %	0 mg/g	0 mg	0 mg	N/A	N/A	N/A	N / A
Total THC*	0 %	0 mg/g	0 mg	0 mg	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-250725-071-01 - FRI, JUL 25, 2025



Analyte	Value	Action Limit	LOD	LOQ	Status
1,2-Dichloroethane	ND	N/A	0.5 ug/g	1 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
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
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	0.5 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

References: Modified USP <467>

SOL

Residual Solvents - USP <467>

LAB-TM-004 - Determination of Residual Solvents

SOL-HEM-250725-071-01 - FRI, JUL 25, 2025



Analyte	Value	Action Limit	LOD	LOQ	Status
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	ND	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 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 ug/g	N/A	N/A	N/A	N / A
Pentanes (Sum of Pentane, 2-Methylbutane, and Neopentane)	0 ug/g	N/A	N/A	N/A	N / A

References: Modified USP <467>

ECOLI

Total Coliforms & E. coli - Plate - 25g - Full Range

LAB-TM-059 - Enumeration of Escherichia coli and Total Coliform in Foods and Dietary Supplements

ECOLI-HEM-250725-071-01 - FRI, JUL 25, 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

PGUSP

Pesticides - USP <561>m - GC/TQ

LAB-TM-039 - USP 561 Pesticides Analysis in Articles of Botanical Origin by GC/TQ

PGUSP-HEM-250725-071-01 - FRI, JUL 25, 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 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	N/A	0.2 ng/g	0.4 ng/g	N / A
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 ug/g	2 ng/g	4 ng/g	Pass
Dicofol	ND	0.5 ug/g	1 ng/g	2 ng/g	Pass
Endosulfan (Sum of Isomers and Sulphate)	ND	3 ug/g	6 ng/g	12 ng/g	Pass
Endrin	ND	0.05 ug/g	0.1 ng/g	0.2 ng/g	Pass

References: USP <561> mod
Modified Test Method does not include the following analytes: Bromide, inorganic (calculated as bromide ion) Chlorpyriphos-methyl Dichlofluanid Dithiocarbamates (as CS2) Parathion-methyl and Paraoxon-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-250725-071-01 - FRI, JUL 25, 2025



Analyte	Value	Action Limit	LOD	LOQ	Status
Fenchlorophos (Sum of Fenchlorophos and Fenchlorophos-Oxon)	ND	0.1 ug/g	0.2 ng/g	0.4 ng/g	Pass
Fenitrothion	ND	0.5 ug/g	1 ng/g	2 ng/g	Pass
Fenvalerate	ND	1.5 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	0.1 ug/g	0.2 ng/g	0.4 ng/g	Pass
Hexachlorocyclohexane (Sum of Isomers Alpha-, Beta-, Delta-, and Epsilon-)	ND	0.3 ug/g	0.6 ng/g	1.2 ng/g	Pass
Lindane (Gamma-Hexachlorocyclohexane)	ND	0.6 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 + Paraoxon Ethyl	ND	0.5 ug/g	1 ng/g	2 ng/g	Pass
Parathion Methyl + Paraoxon Methyl	ND	N/A	0.4 ng/g	0.8 ng/g	N/A
Pentachloroanisole	ND	0.01 ug/g	0.02 ng/g	0.04 ng/g	Pass
Procymidone	ND	0.1 ug/g	0.2 ng/g	0.4 ng/g	Pass
Quintozene (Sum of Quintozene, Pentachloroaniline, and Methyl-Pentachlorophenyl Sulfide)	ND	1 ug/g	2 ng/g	4 ng/g	Pass
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	0.3 ug/g	0.6 ng/g	1.2 ng/g	Pass
Vinclozolin	ND	0.4 ug/g	0.8 ng/g	1.6 ng/g	Pass

References: USP <561> mod

Modified Test Method does not include the following analytes: Bromide, inorganic (calculated as bromide ion) Chlorpyriphos-methyl Dichlofluaniid Dithiocarbamates (as CS2) Parathion-methyl and Paraoxon-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-250725-071-01 - FRI, JUL 25, 2025



Analyte	Value	Action Limit	LOD	LOQ	Status
Acephate	ND	0.1 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	0.1 ug/g	12.5 ng/g	25 ng/g	Pass
Azinphos Methyl	ND	1 ug/g	12.5 ng/g	25 ng/g	Pass
Chlorfenvinphos	ND	0.5 ug/g	12.5 ng/g	25 ng/g	Pass
Chlorpyrifos Ethyl	ND	0.2 ug/g	12.5 ng/g	25 ng/g	Pass
Cyfluthrin	ND	0.1 ug/g	12.5 ng/g	25 ng/g	Pass
Cypermethrin	ND	1 ug/g	12.5 ng/g	25 ng/g	Pass
Deltamethrin	ND	0.5 ug/g	12.5 ng/g	25 ng/g	Pass
Diazinon	ND	0.5 ug/g	12.5 ng/g	25 ng/g	Pass
Dichlorvos	ND	1 ug/g	12.5 ng/g	25 ng/g	Pass
Dimethoate + Omethoate	ND	0.1 ug/g	12.5 ng/g	25 ng/g	Pass
Ethion	ND	2 ug/g	12.5 ng/g	25 ng/g	Pass

References: USP <561> mod

Modified Test Method does not include the following analytes: Bromide, inorganic (calculated as bromide ion) Chlorpyriphos-methyl Dichlofluaniid Dithiocarbamates (as CS2) Parathion-methyl and Paraoxon-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-250725-071-01 - FRI, JUL 25, 2025

Analyte	Value	Action Limit	LOD	LOQ	Status
Etrimpfos	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 ug/g	12.5 ng/g	25 ng/g	Pass
Malathion + Malaoxon	ND	1 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	0.2 ug/g	12.5 ng/g	25 ng/g	Pass
Monocrotophos	ND	0.1 ug/g	12.5 ng/g	25 ng/g	Pass
Pendimethalin	ND	0.1 ug/g	12.5 ng/g	25 ng/g	Pass
Permethrins (Sum of Cis- and Trans-Permethrin)	ND	1 ug/g	12.5 ng/g	25 ng/g	Pass
Phosalone	ND	0.1 ug/g	12.5 ng/g	25 ng/g	Pass
Phosmet	ND	0.05 ug/g	12.5 ng/g	25 ng/g	Pass
Piperonyl Butoxide	ND	3 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 ug/g	12.5 ng/g	25 ng/g	Pass
Profenophos	ND	0.1 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 ug/g	12.5 ng/g	25 ng/g	Pass
Quinalphos	ND	0.05 ug/g	12.5 ng/g	25 ng/g	Pass

References: USP <561> mod

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 - 25g - Full Range

LAB-TM-060 - Enumeration of Total Aerobic Count in Foods and Dietary Supplements

TAMC-HEM-250725-071-01 - FRI, JUL 25, 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-250725-071-01 - FRI, JUL 25, 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

HVMET Heavy Metals - Big 4 LAB-TM-044 - Determination of Heavy Metals by ICP-MS HVMET-HEM-250725-071-01 - FRI, JUL 25, 2025 								
Analyte	Value	Value (mg)	Per Serving	Per Package	Action Limit	LOD	LOQ	Status
Arsenic	0.008 ug/g	0 mg/g	0 ug	0 ug	N/A	0.509 ug/kg	2.062 ug/kg	N / A
Cadmium	0.001 ug/g	0 mg/g	0 ug	0 ug	N/A	0.256 ug/kg	0.509 ug/kg	N / A
Lead	0.004 ug/g	0 mg/g	0 ug	0 ug	N/A	0.255 ug/kg	0.515 ug/kg	N / A
Mercury	0 ug/g	0 mg/g	0 ug	0 ug	N/A	0.025 ug/kg	0.057 ug/kg	N / A

TYMFD

Total Yeast & Mold - Plate - 25g - Full Range

LAB-TM-061 - Enumeration of Yeast and Mold in Foods and Dietary Supplements

TYMFD-HEM-250725-071-01 - FRI, JUL 25, 2025



Analyte	Value	Action Limit	LOD	LOQ	Status
Total Mold	ND	N/A	10 CFU/g	10 CFU/g	N / A
Total Yeast	ND	N/A	10 CFU/g	10 CFU/g	N / A
Total Yeast and Mold	ND	N/A	10 CFU/g	10 CFU/g	N / A

MELAT		Melatonin LAB-TM-076 - Determination of Caffeine and Melatonin by HPLC MELAT-HEM-250725-071-01 - FRI, JUL 25, 2025						
Analyte	Value	Value (mg)	Per Serving	Per Package	Action Limit	LOD	LOQ	Status
Melatonin	0.6834 %	6.834 mg/g	4.05 mg	4.05 mg	N/A	0.02500 mg/g	0.05000 mg/g	N / A