

CERTIFICATE OF ANALYSIS

SAMPLE NAME: FULL SPECTRUM CBD TOPICAL OIL (LOT 100187)

SAMPLE CODE: HEM-240201-001

CLIENT: NUVITA CBD

BATCH RESULT: PASS



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MATRIX NAME: Tincture - Oil Based

SAMPLE TYPE: Quality Assurance

RECEIVED DATE: Fri, Feb 2, 2024

PUBLISHED DATE: Wed, Feb 7, 2024

BATCH CODE: Reference Finished Product Number(s): 100188

BATCH SIZE: 0

SAMPLE SIZE: 30g

AVERAGE UNIT WEIGHT: 0.952g (Density (g/mL). 30mL package.)

TOTAL CANNABINOIDS 51.58 mg/serv

TOTAL THC 1.88 mg/serv

TOTAL CBD 45.60 mg/serv

TOTAL TERPENES 1.729%



POT ✓
Cannabinoids
Potency

TRP ✓
Terpenes

SOL ✓
Residual Solvents
USP <467>

ASP ✓
Aspergillus
qPCR

COL ✓
Total Coliforms
Plate

PGC ✓
Chemical Residue
MI Cannabis

PLC ✓
Chemical Residue
MI Cannabis

SS ✓
Salmonella & STEC
qPCR

TYMF ✓
Total Yeast & Mold
Plate

HPMET ✓
Heavy Metals
7

RESULTS REVIEWED BY: Leslie Varela

Laboratory Director
Cambium Analytica
Wednesday, Feb 7, 2024

RESULTS CERTIFIED BY: Douglas Smith

VP - Scientific Operations
Cambium Analytica
Wed, Feb 7, 2024

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LAB-TM-025 - DETERMINATION OF POTENCY OF CANNABIS AND CANNABIS INFUSED PRODUCTS ACN
 POT-HEM-240201-001-01 - THU, FEB 1, 2024



ANALYTE	VALUE	VALUE (PER SERVING)	VALUE (PER PACKAGE)	ACTION LIMIT	LOD	LOQ	STATUS
Total Cannabinoids	5.4183 %	51.58 mg	1547.46 mg	N/A			N/A
Total CBD	4.7897 %	45.60 mg	1367.94 mg	N/A			N/A
CBD	4.7510 %	45.23 mg	1356.90 mg	N/A	0.6432 ug/g	5.401 ug/g	N/A
CBC	0.2964 %	2.82 mg	84.65 mg	N/A	0.4372 ug/g	4.843 ug/g	N/A
Delta-9 THC	0.1973 %	1.88 mg	56.34 mg	N/A	0.4945 ug/g	1.516 ug/g	N/A
Total THC	0.1973 %	1.88 mg	56.34 mg	N/A			N/A
CBG	0.0664 %	0.63 mg	18.97 mg	N/A	0.2073 ug/g	0.8539 ug/g	N/A
CBDV	0.0631 %	0.60 mg	18.01 mg	N/A	0.0919 ug/g	0.4418 ug/g	N/A
CBDA	0.0441 %	0.42 mg	12.59 mg	N/A	0.0886 ug/g	0.2949 ug/g	N/A
CBGA	ND	ND	ND	N/A	0.4596 ug/g	4.8149 ug/g	N/A
CBN	ND	ND	ND	N/A	0.3561 ug/g	4.3163 ug/g	N/A
Delta-8 THC	ND	ND	ND	N/A	0.4043 ug/g	4.5669 ug/g	N/A
Delta-8 THCV	ND	ND	ND	N/A	0.050425 ug/g	0.339339 ug/g	N/A
Delta-9 THCV	ND	ND	ND	N/A	0.269941 ug/g	0.403267 ug/g	N/A
THCA	ND	ND	ND	N/A	0.4497 ug/g	4.9472 ug/g	N/A
Total THCV	ND	N/A	N/A	N/A			N/A



LAB-TM-012 - DETERMINATION OF TERPENES BY GC-MS

TRP-HEM-240201-001-01 - THU, FEB 1, 2024



ANALYTE	VALUE	VALUE (PER SERVING)	VALUE (PER PACKAGE)	ACTION LIMIT	LOD	LOQ	STATUS
Total Terpenes	1.729 %	16.46 mg	493.70 mg	N/A	0.5 ug/g	1 ug/g	N/A
Eucalyptol	0.507 %	4.83 mg	144.91 mg	N/A	0.5 ug/g	1 ug/g	N/A
Trans Caryophyllene	0.275 %	2.62 mg	78.56 mg	N/A	0.5 ug/g	1 ug/g	N/A
Limonene	0.204 %	1.94 mg	58.19 mg	N/A	0.5 ug/g	1 ug/g	N/A
Alpha Pinene	0.147 %	1.40 mg	41.87 mg	N/A	0.5 ug/g	1 ug/g	N/A
Linalool	0.101 %	0.96 mg	28.95 mg	N/A	0.5 ug/g	1 ug/g	N/A
Trans Beta Ocimene	0.072 %	0.69 mg	20.62 mg	N/A	0.5 ug/g	1 ug/g	N/A
Beta Myrcene	0.064 %	0.61 mg	18.28 mg	N/A	0.5 ug/g	1 ug/g	N/A
Alpha Humulene	0.054 %	0.52 mg	15.53 mg	N/A	0.5 ug/g	1 ug/g	N/A
Sabinene	0.043 %	0.41 mg	12.30 mg	N/A	0.5 ug/g	1 ug/g	N/A
Alpha Terpinene	0.038 %	0.36 mg	10.84 mg	N/A	0.5 ug/g	1 ug/g	N/A
Alpha Bisabolol	0.036 %	0.34 mg	10.15 mg	N/A	0.5 ug/g	1 ug/g	N/A
Beta Pinene	0.033 %	0.32 mg	9.50 mg	N/A	0.5 ug/g	1 ug/g	N/A
Gamma Terpinene	0.032 %	0.30 mg	9.13 mg	N/A	0.5 ug/g	1 ug/g	N/A
Alpha Phellandrene	0.026 %	0.25 mg	7.39 mg	N/A	0.5 ug/g	1 ug/g	N/A
Cis Beta Ocimene	0.019 %	0.18 mg	5.41 mg	N/A	0.5 ug/g	1 ug/g	N/A
Guaiol	0.019 %	0.18 mg	5.41 mg	N/A	0.5 ug/g	1 ug/g	N/A
Alpha Terpineol	0.015 %	0.15 mg	4.38 mg	N/A	0.5 ug/g	1 ug/g	N/A
Camphene	0.015 %	0.14 mg	4.32 mg	N/A	0.5 ug/g	1 ug/g	N/A
Pulegone	0.008 %	0.08 mg	2.32 mg	N/A	0.5 ug/g	1 ug/g	N/A
Caryophyllene Oxide	0.006 %	0.05 mg	1.62 mg	N/A	0.5 ug/g	1 ug/g	N/A
1,R-Endo-Fenchyl Alcohol	0.005 %	0.05 mg	1.37 mg	N/A	0.5 ug/g	1 ug/g	N/A
Terpinolene	0.005 %	0.05 mg	1.53 mg	N/A	0.5 ug/g	1 ug/g	N/A
Isopulegol	0.004 %	0.04 mg	1.12 mg	N/A	0.5 ug/g	1 ug/g	N/A
Alpha Cedrene	ND	N/A	N/A	N/A	0.5 ug/g	1 ug/g	N/A
Borneol	ND	N/A	N/A	N/A	0.5 ug/g	1 ug/g	N/A
Camphor	ND	N/A	N/A	N/A	0.5 ug/g	1 ug/g	N/A
Cedrol	ND	N/A	N/A	N/A	0.5 ug/g	1 ug/g	N/A
Cis Nerolidol	ND	N/A	N/A	N/A	0.5 ug/g	1 ug/g	N/A
Delta-3 Carene	ND	N/A	N/A	N/A	0.5 ug/g	1 ug/g	N/A
Fenchone	ND	N/A	N/A	N/A	0.5 ug/g	1 ug/g	N/A
Geranyl Acetate	ND	N/A	N/A	N/A	0.5 ug/g	1 ug/g	N/A
Isoborneol	ND	N/A	N/A	N/A	0.5 ug/g	1 ug/g	N/A
Sabinene Hydrate	ND	N/A	N/A	N/A	0.5 ug/g	1 ug/g	N/A
Trans Nerolidol	ND	N/A	N/A	N/A	0.5 ug/g	1 ug/g	N/A
Valencene	ND	N/A	N/A	N/A	0.5 ug/g	1 ug/g	N/A



LAB-TM-004 - DETERMINATION OF RESIDUAL SOLVENTS OF CANNABIS PRODUCTS
 SOL-HEM-240201-001-01 - THU, FEB 1, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
1,2-Dichloroethane	ND	5 ug/g	0.4 ug/g	1.34 ug/g	PASS
2-Methylbutane	ND	290 ug/g	1.54 ug/g	5.14 ug/g	PASS
2-Methylpentane	ND	290 ug/g	0.0462 ug/g	0.154 ug/g	PASS
2,2-Dimethylbutane	ND	290 ug/g	0.98 ug/g	3.27 ug/g	PASS
2,3-Dimethylbutane	ND	290 ug/g	2.19 ug/g	7.32 ug/g	PASS
3-Methylpentane	ND	290 ug/g	0.73 ug/g	2.44 ug/g	PASS
Acetone	ND	5000 ug/g	1.57 ug/g	5.23 ug/g	PASS
Acetonitrile	ND	410 ug/g	1.85 ug/g	6.17 ug/g	PASS
Benzene	ND	2 ug/g	0.18 ug/g	0.59 ug/g	PASS
Butane	ND	5000 ug/g	1.68 ug/g	5.59 ug/g	PASS
Butanes (Sum of Butane and Isobutane)	ND	5000 ug/g			PASS
Chloroform	ND	60 ug/g	0.78 ug/g	2.59 ug/g	PASS
Ethanol	ND	5000 ug/g	6.02 ug/g	20.1 ug/g	PASS
Ethyl Acetate	ND	5000 ug/g	1.95 ug/g	6.49 ug/g	PASS
Ethyl Ether	ND	5000 ug/g	1.37 ug/g	4.55 ug/g	PASS
Ethylene Oxide	ND	50 ug/g	0.15 ug/g	0.49 ug/g	PASS
Heptane	ND	5000 ug/g	1.31 ug/g	4.37 ug/g	PASS
Hexane	ND	290 ug/g	1.42 ug/g	4.74 ug/g	PASS
Hexanes (Sum of Hexane, 2,2-Dimethylbutane, 2,3-Dimethylbutane, 2-Methylpentane, and 3-Methylpentane)	ND	290 ug/g			PASS
Isobutane	ND	5000 ug/g	1.6 ug/g	5.34 ug/g	PASS
Isopropyl Alcohol	ND	5000 ug/g	4.9 ug/g	16.3 ug/g	PASS
Methanol	ND	3000 ug/g	7.89 ug/g	26.4 ug/g	PASS
Methylene Chloride	ND	600 ug/g	1.36 ug/g	4.53 ug/g	PASS
Neopentane	ND	5000 ug/g	1.49 ug/g	4.97 ug/g	PASS
Pentane	ND	5000 ug/g	1.46 ug/g	4.87 ug/g	PASS
Pentanes (Sum of Pentane, 2-Methylbutane, and Neopentane)	ND	5000 ug/g			PASS
Propane	ND	5000 ug/g	1.95 ug/g	6.51 ug/g	PASS
Toluene	ND	890 ug/g	1.88 ug/g	6.26 ug/g	PASS
Total Xylenes	ND	2170 ug/g	2.02 ug/g	6.72 ug/g	PASS
Trichloroethylene	ND	80 ug/g	0.29 ug/g	0.96 ug/g	PASS



LAB-TM-006 - MICROBIAL ANALYSIS BY QPCR
 ASP-HEM-240201-001-01 - THU, FEB 1, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Aspergillus Flavus	ND	Detection			PASS
Aspergillus Fumigatus	ND	Detection			PASS
Aspergillus Niger	ND	Detection			PASS
Aspergillus Spp	ND	Detection			PASS
Aspergillus Terreus	ND	Detection			PASS

LAB-TM-026 - ENUMERATION OF TOTAL COLIFORMS ON 3M CC PLATES
 COL-HEM-240201-001-01 - THU, FEB 1, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Total Coliforms	<10 CFU/g	100 CFU/g			PASS

LAB-TM-003 - DETERMINATION OF CHEMICAL RESIDUE OF CANNABIS AND CANNABIS INFUSED PRODUCTS BY GC
 PGC-HEM-240201-001-01 - THU, FEB 1, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Chlorfenapyr	ND	1 ug/g	6.110 ug/kg	20.400 ug/kg	PASS
Methyl Parathion	ND	0.2 ug/g	3.120 ug/kg	10.500 ug/kg	PASS



LAB-TM-002 - DETERMINATION OF CHEMICAL RESIDUE OF CANNABIS AND CANNABIS INFUSED PRODUCTS BY

LC-TQ

PLC-HEM-240201-001-01 - THU, FEB 1, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Abamectin	ND	0.5 ug/g	0.05 ug/g	0.10 ug/g	PASS
Acephate	ND	0.4 ug/g	0.05 ug/g	0.10 ug/g	PASS
Acequinocyl	ND	2 ug/g	0.05 ug/g	0.10 ug/g	PASS
Acetamiprid	ND	0.2 ug/g	0.05 ug/g	0.10 ug/g	PASS
Aldicarb	ND	0.4 ug/g	0.05 ug/g	0.10 ug/g	PASS
Azoxystrobin	ND	0.2 ug/g	0.05 ug/g	0.10 ug/g	PASS
Bifenazate	ND	0.2 ug/g	0.05 ug/g	0.10 ug/g	PASS
Bifenthrin	ND	0.2 ug/g	0.05 ug/g	0.10 ug/g	PASS
Boscalid	ND	0.4 ug/g	0.05 ug/g	0.10 ug/g	PASS
Carbaryl	ND	0.2 ug/g	0.05 ug/g	0.10 ug/g	PASS
Carbofuran	ND	0.2 ug/g	0.05 ug/g	0.10 ug/g	PASS
Chlorantraniliprole	ND	0.2 ug/g	0.05 ug/g	0.10 ug/g	PASS
Chlorpyrifos	ND	0.2 ug/g	0.05 ug/g	0.10 ug/g	PASS
Clofentezine	ND	0.2 ug/g	0.05 ug/g	0.10 ug/g	PASS
Cyfluthrin	ND	1 ug/g	0.05 ug/g	0.10 ug/g	PASS
Cypermethrin	ND	1 ug/g	0.05 ug/g	0.10 ug/g	PASS
Daminozide	ND	1 ug/g	0.05 ug/g	0.10 ug/g	PASS
Diazinon	ND	0.2 ug/g	0.05 ug/g	0.10 ug/g	PASS
Dichlorvos	ND	1 ug/g	0.05 ug/g	0.10 ug/g	PASS
Dimethoate	ND	0.2 ug/g	0.05 ug/g	0.10 ug/g	PASS
Ethoprophos	ND	0.2 ug/g	0.05 ug/g	0.10 ug/g	PASS
Etofenprox	ND	0.4 ug/g	0.05 ug/g	0.10 ug/g	PASS
Etoxazole	ND	0.2 ug/g	0.05 ug/g	0.10 ug/g	PASS
Fenoxycarb	ND	0.2 ug/g	0.05 ug/g	0.10 ug/g	PASS
Fenpyroximate	ND	0.4 ug/g	0.05 ug/g	0.10 ug/g	PASS
Fipronil	ND	0.4 ug/g	0.05 ug/g	0.10 ug/g	PASS
Flonicamid	ND	1 ug/g	0.05 ug/g	0.10 ug/g	PASS
Fludioxonil	ND	0.4 ug/g	0.05 ug/g	0.10 ug/g	PASS
Hexythiazox	ND	1 ug/g	0.05 ug/g	0.10 ug/g	PASS
Imazalil	ND	0.2 ug/g	0.05 ug/g	0.10 ug/g	PASS
Imidacloprid	ND	0.4 ug/g	0.05 ug/g	0.10 ug/g	PASS
Kresoxim Methyl	ND	0.4 ug/g	0.05 ug/g	0.10 ug/g	PASS
Malathion	ND	0.2 ug/g	0.05 ug/g	0.10 ug/g	PASS
Metalaxyl	ND	0.2 ug/g	0.05 ug/g	0.10 ug/g	PASS
Methiocarb	ND	0.2 ug/g	0.05 ug/g	0.10 ug/g	PASS
Methomyl	ND	0.4 ug/g	0.05 ug/g	0.10 ug/g	PASS
MGK-264	ND	0.2 ug/g	0.05 ug/g	0.10 ug/g	PASS
Myclobutanil	ND	0.2 ug/g	0.05 ug/g	0.10 ug/g	PASS
Naled	ND	0.5 ug/g	0.05 ug/g	0.10 ug/g	PASS
Oxamyl	ND	1 ug/g	0.05 ug/g	0.10 ug/g	PASS
Paclobutrazol	ND	0.4 ug/g	0.05 ug/g	0.10 ug/g	PASS
Permethrins (Sum of Cis- and Trans-Permethrin)	ND	0.2 ug/g	0.05 ug/g	0.10 ug/g	PASS



LAB-TM-002 - DETERMINATION OF CHEMICAL RESIDUE OF CANNABIS AND CANNABIS INFUSED PRODUCTS BY

LC-TQ

PLC-HEM-240201-001-01 - THU, FEB 1, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Phosmet	ND	0.2 ug/g	0.05 ug/g	0.10 ug/g	PASS
Prallethrin	ND	0.2 ug/g	0.05 ug/g	0.10 ug/g	PASS
Propiconazole	ND	0.4 ug/g	0.05 ug/g	0.10 ug/g	PASS
Propoxur	ND	0.2 ug/g	0.05 ug/g	0.10 ug/g	PASS
Pyrethrins (Sum of Cinerin 1, Jasmolin 1, and Pyrethrin 1)	ND	1 ug/g	0.05 ug/g	0.10 ug/g	PASS
Pyrethrins Cinerin 1	ND	N/A	0.05 ug/g	0.10 ug/g	N/A
Pyrethrins Jasmolin 1	ND	N/A	0.05 ug/g	0.10 ug/g	N/A
Pyrethrins Pyrethrin 1	ND	N/A	0.05 ug/g	0.10 ug/g	N/A
Pyridaben	ND	0.2 ug/g	0.05 ug/g	0.10 ug/g	PASS
Spinosad	ND	0.2 ug/g	0.05 ug/g	0.10 ug/g	PASS
Spinosad A	ND	0.2 ug/g	0.05 ug/g	0.10 ug/g	PASS
Spinosad D	ND	0.2 ug/g	0.05 ug/g	0.10 ug/g	PASS
Spiromesifen	ND	0.2 ug/g	0.05 ug/g	0.10 ug/g	PASS
Spirotetramat	ND	0.2 ug/g	0.05 ug/g	0.10 ug/g	PASS
Spiroxamine	ND	0.4 ug/g	0.05 ug/g	0.10 ug/g	PASS
Tebuconazole	ND	0.4 ug/g	0.05 ug/g	0.10 ug/g	PASS
Thiacloprid	ND	0.2 ug/g	0.05 ug/g	0.10 ug/g	PASS
Thiamethoxam	ND	0.2 ug/g	0.05 ug/g	0.10 ug/g	PASS
Trifloxystrobin	ND	0.2 ug/g	0.05 ug/g	0.10 ug/g	PASS



LAB-TM-006 - MICROBIAL ANALYSIS BY QPCR
SS-HEM-240201-001-01 - THU, FEB 1, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Salmonella Spp	ND	Detection			PASS
Shiga Toxin Producing E. coli	ND	Detection			PASS

LAB-TM-061 - ENUMERATION OF YEAST AND MOLD IN FOODS AND DIETARY SUPPLEMENTS
TYMFD-HEM-240201-001-01 - THU, FEB 1, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Total Yeast and Mold	<10 CFU/g	10000 CFU/g			PASS

LAB-TM-044 - DETERMINATION OF HEAVY METALS BY ICP-MS
HPMET-HEM-240201-001-01 - THU, FEB 1, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Arsenic	ND	1.5 ug/g	0.1985 ug/kg	0.6616 ug/kg	PASS
Cadmium	ND	0.5 ug/g	0.0817 ug/kg	0.2724 ug/kg	PASS
Chromium	0.180 ug/g	2 ug/g	0.6272 ug/kg	2.0907 ug/kg	PASS
Copper	0.011 ug/g	N/A	0.1546 ug/kg	0.5152 ug/kg	N/A
Lead	0.001 ug/g	0.5 ug/g	0.2817 ug/kg	0.2817 ug/kg	PASS
Mercury	0.002 ug/g	3 ug/g	0.0171 ug/kg	0.0571 ug/kg	PASS
Nickel	0.080 ug/g	N/A	0.3213 ug/kg	1.0709 ug/kg	N/A



