

CERTIFICATE OF ANALYSIS

* FOR QUALITY ASSURANCE PURPOSES. NOT A MICHIGAN COMPLIANCE CERTIFICATE.

PRODUCED: NOV 17, 2022

SAMPLE: PET CBD OIL BLEND (100034) (TINCTURE) // **CLIENT:** NUVITA CBD // **BATCH:** PASS
 REFERENCE FINISHED PRODUCT LOTS 100035, 100036, 100037



MATRIX: TINCTURE
SAMPLE ID: CAM-221114-046
COLLECTED ON: NOV 13, 2022
RECEIVED ON: NOV 13, 2022
SAMPLE SIZE: 60 ML
SAMPLED BY: HANNAH HARDY
RECEIVED BY: HANNAH HARDY
SERVING/PACKAGE SIZE: 0.94 G / 28.2 G

CANNABINOID OVERVIEW

CBDA: 12.13 mg/srv
CBD: 11.56 mg/srv
TOTAL CANNABINOIDS: 25.05 mg/srv

BATCH RESULT: PASS

POTENCY: PASS
METALS: PASS
MICROBIAL: PASS
PESTICIDES: PASS
SOLVENTS: PASS
TERPENES: TESTED

POT-01: CANNABINOID POTENCY ANALYSIS BY HPLC-DAD // NOV 17, 2022

ANALYTE	LIMIT	AMT	AMT	LOD/LOQ (µg/g)	PASS/FAIL	ANALYTE	LIMIT	AMT	AMT	LOD/LOQ (µg/g)	PASS/FAIL
CBC		0.0808 %	0.808 mg/g	0.0517/0.172	N/A	THCV		ND	ND	0.0699/0.233	N/A
CBD		1.23 %	12.3 mg/g	0.109/0.363	N/A	TOTAL THC **		0.0642 %	0.642 mg/g		N/A
CBDA		1.29 %	12.9 mg/g	0.142/0.474	N/A	TOTAL CBD **		2.36 %	23.6 mg/g		N/A
CBDV		ND	ND	0.0673/0.224	N/A	CBD/SRV		11.6 mg			N/A
CBG		ND	ND	0.0576/0.192	N/A	Δ ⁸ + Δ ⁹ -THC/SRV		0.600 mg			PASS
CBGA		ND	ND	0.0328/0.109	N/A	Δ ⁸ -THC/SRV		ND			PASS
CBN		ND	ND	0.0848/0.283	N/A	Δ ⁹ -THC/SRV		0.600 mg			N/A
Δ ⁸ + Δ ⁹ -THC		0.0642 %	0.642 mg/g		N/A	CBD/PKG		347 mg			N/A
Δ ⁸ -THC	10 %	ND	ND	0.0578/0.193	PASS	Δ ⁸ + Δ ⁹ -THC/PKG		18.1 mg			PASS
Δ ⁹ -THC		0.0642 %	0.642 mg/g	0.102/0.340	N/A	Δ ⁸ -THC/PKG		ND			PASS
THCA		ND	ND	0.0883/0.294	N/A	Δ ⁹ -THC/PKG		18.1 mg			N/A

** TOTAL THC = DELTA-8-THC + DELTA-9-THC + (THCA X 0.877)

** TOTAL CBD = CBD + (CBDA X 0.877)

TRP-013: TERPENE ANALYSIS BY GC-MS // NOV 16, 2022

ANALYTE	AMT (%)	LOD/LOQ (µg/g)	PASS/FAIL	ANALYTE	AMT (%)	LOD/LOQ (µg/g)	PASS/FAIL
TOTAL TERPENES *	0.133 %		N/A	CAMPHERE	ND	0.500/1.000	N/A
TRANS-CARYOPHYLLENE	0.050 %	0.500/1.000	N/A	CAMPHOR	ND	0.500/1.000	N/A
β-MYRCENE	0.022 %	0.500/1.000	N/A	CARYOPHYLLENE OXIDE	ND	0.500/1.000	N/A
α-HUMULENE	0.019 %	0.500/1.000	N/A	CEDROL	ND	0.500/1.000	N/A
α-BISABOLOL	0.017 %	0.500/1.000	N/A	CIS-NEROLIDOL	ND	0.500/1.000	N/A
LIMONENE	0.006 %	0.500/1.000	N/A	Δ ³ -CARENE	ND	0.500/1.000	N/A
α-TERPINEOL	0.005 %	0.500/1.000	N/A	EUCALYPTOL	ND	0.500/1.000	N/A
CIS-β-OCIMENE	0.005 %	0.500/1.000	N/A	γ-TERPINENE	ND	0.500/1.000	N/A
VALENCENE	0.005 %	0.500/1.000	N/A	GERANYL ACETATE	ND	0.500/1.000	N/A
GUAJOL	0.004 %	0.500/1.000	N/A	ISOBORNEOL	ND	0.500/1.000	N/A
BORNEOL *	ND		N/A	ISOPULEGOL	ND	0.500/1.000	N/A
DL-MENTHOL *	ND		N/A	LINALOOL *	ND	0.500/1.000	N/A
(+)-FENCHONE	ND	0.500/1.000	N/A	PULEGONE	ND	0.500/1.000	N/A
(1R)-ENDO-(+)-FENCHYL ALCOHOL	ND	0.500/1.000	N/A	SABINENE	ND	0.500/1.000	N/A
α-CEDRENE	ND	0.500/1.000	N/A	SABINENE HYDRATE	ND	0.500/1.000	N/A
α-PHELLANDRENE	ND	0.500/1.000	N/A	TERPINOLENE	ND	0.500/1.000	N/A
α-PINENE	ND	0.500/1.000	N/A	TRANS-β-OCIMENE	ND	0.500/1.000	N/A

α-PINENE
β-PINENE

ND 0.500/1.000
ND 0.500/1.000

TRANS-NEROLIDOL
N/A

ND 0.500/1.000

* BEYOND SCOPE OF ACCREDITATION

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



RESULTS CERTIFIED BY: VERNON LALONE
LABORATORY DIRECTOR, CAMBIUM ANALYTICA
NOV 17, 2022

RESULTS CERTIFIED BY: DOUGLAS SMITH
CHIEF SCIENTIST, CAMBIUM ANALYTICA
NOV 17, 2022



PGC-03: CHEMICAL RESIDUE ANALYSIS BY GC-MS/MS // NOV 16, 2022

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/kg)	PASS/FAIL	ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/kg)	PASS/FAIL
CHLORFENAPYR	1 µg/g	ND	6.230/20.800	PASS	METHYL PARATHION	0.2 µg/g	ND	3.180/10.700	PASS

PLC-02: CHEMICAL RESIDUE ANALYSIS BY LC-MS/MS // NOV 16, 2022

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/kg)	PASS/FAIL	ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/kg)	PASS/FAIL
ABAMECTIN	0.5 µg/g	ND	71.500/238.000	PASS	IMAZALIL	0.2 µg/g	ND	16.000/53.400	PASS
ACEPHATE	0.4 µg/g	ND	16.800/56.100	PASS	IMIDACLOPRID	0.4 µg/g	ND	35.100/117.000	PASS
ACEQUINOCYL	2 µg/g	ND	29.100/97.100	PASS	KRESOXIM-METHYL	0.4 µg/g	ND	12.300/40.900	PASS
ACETAMIPRID	0.2 µg/g	ND	15.000/49.900	PASS	MALATHION	0.2 µg/g	ND	16.200/53.900	PASS
ALDICARB	0.4 µg/g	ND	43.900/146.000	PASS	METALAXYL	0.2 µg/g	ND	18.200/60.600	PASS
AZOXYSTROBIN	0.2 µg/g	ND	10.800/36.100	PASS	METHIOCARB	0.2 µg/g	ND	14.300/47.700	PASS
BIFENAZATE	0.2 µg/g	ND	25.900/86.500	PASS	METHOMYL	0.4 µg/g	ND	9.760/32.600	PASS
BIFENTHRIN	0.2 µg/g	ND	15.100/50.200	PASS	MGK-264	0.2 µg/g	ND	19.900/66.300	PASS
BOSCALID	0.4 µg/g	ND	13.200/43.200	PASS	MYCLOBUTANIL	0.2 µg/g	ND	20.400/68.000	PASS
CARBARYL	0.2 µg/g	ND	12.500/41.600	PASS	NALED	0.5 µg/g	ND	23.800/79.300	PASS
CARBOFURAN	0.2 µg/g	ND	11.100/36.800	PASS	OXAMYL	1 µg/g	ND	36.500/122.000	PASS
CHLORANTRANILIPROLE	0.2 µg/g	ND	25.400/84.800	PASS	PACLOBUTRAZOL	0.4 µg/g	ND	37.500/125.000	PASS
CHLORPYRIFOS	0.2 µg/g	ND	25.600/85.200	PASS	PERMETHRIN	0.2 µg/g	ND	39.100/130.000	PASS
CLOFENTEZINE	0.2 µg/g	ND	20.900/69.500	PASS	PHOSMET	0.2 µg/g	ND	24.800/82.500	PASS
CYFLUTHRIN	1 µg/g	ND	40.000/133.000	PASS	PRALLETHRIN	0.2 µg/g	ND	38.500/128.000	PASS
CYPERMETHRIN	1 µg/g	ND	28.700/95.600	PASS	PROPICONAZOLE	0.4 µg/g	ND	41.900/140.000	PASS
DAMINOZIDE	1 µg/g	ND	24.700/82.400	PASS	PROPOXUR	0.2 µg/g	ND	12.000/40.100	PASS
DIAZINON	0.2 µg/g	ND	19.300/64.200	PASS	PYRETHRINS	1 µg/g	ND	20.700/69.100	PASS
DICHLORVOS	1 µg/g	ND	13.000/43.300	PASS	PYRIDABEN	0.2 µg/g	ND	27.000/90.100	PASS
DIMETHOATE	0.2 µg/g	ND	12.700/42.300	PASS	SPINOSAD	0.2 µg/g	ND	6.100/20.400	PASS
ETHOPROPHOS	0.2 µg/g	ND	19.800/65.900	PASS	SPINOSAD A		ND	6.610/22.000	
ETOFENPROX	0.4 µg/g	ND	14.900/49.600	PASS	SPINOSAD D		ND	2.490/8.280	
ETOXAZOLE	0.2 µg/g	ND	14.000/46.700	PASS	SPIROMESIFEN	0.2 µg/g	ND	15.100/50.400	PASS
FENOXYCARB	0.2 µg/g	ND	20.700/69.000	PASS	SPIROTETRAMAT	0.2 µg/g	ND	36.700/122.000	PASS
FENPYROXIMATE	0.4 µg/g	ND	45.500/152.000	PASS	SPIROXAMINE	0.4 µg/g	ND	12.700/42.400	PASS
FIPRONIL	0.4 µg/g	ND	46.700/156.000	PASS	TEBUCONAZOLE	0.4 µg/g	ND	38.900/130.000	PASS
FLONICAMID	1 µg/g	ND	23.000/76.600	PASS	THIACLOPRID	0.2 µg/g	ND	16.000/53.400	PASS
FLUDIOXONIL	0.4 µg/g	ND	11.400/37.900	PASS	THIAMETHOXAM	0.2 µg/g	ND	14.200/47.200	PASS
HEXYTHIAZOX	1 µg/g	ND	29.200/97.400	PASS	TRIFLOXYSTROBIN	0.2 µg/g	ND	19.400/64.600	PASS



COL-027: TOTAL COLIFORMS // NOV 16, 2022

ANALYTE	LIMIT	AMT (CFU/g)	PASS/FAIL
COLIFORMS	100 CFU/g	ND	PASS

SAL-030: SALMONELLA // NOV 16, 2022

ANALYTE	LIMIT	AMT (CFU/g)	PASS/FAIL
SALMONELLA SPP.	Any amount in 1 gram	ND	PASS

STEC-030: SHIGA TOXIN PRODUCING E. COLI // NOV 16, 2022

ANALYTE	LIMIT	AMT (CFU/g)	PASS/FAIL
SHIGA TOXIN-PRODUCING E. COLI	Any amount in 1 gram	ND	PASS

ASP-029: ASPERGILLUS SPP. // NOV 16, 2022

ANALYTE	LIMIT	AMT (CFU/g)	PASS/FAIL
ASPERGILLUS FLAVUS	Any amount in 1 gram	ND	PASS
ASPERGILLUS FUMIGATUS	Any amount in 1 gram	ND	PASS
ASPERGILLUS NIGER	Any amount in 1 gram	ND	PASS

ANALYTE	LIMIT	AMT (CFU/g)	PASS/FAIL
ASPERGILLUS SPP.	Any amount in 1 gram	ND	PASS
ASPERGILLUS TERREUS	Any amount in 1 gram	ND	PASS

TYM-028: TOTAL YEAST AND MOLD // NOV 17, 2022

ANALYTE	LIMIT	AMT (CFU/g)	PASS/FAIL
YEAST & MOLD	10000 CFU/g	ND	PASS

MET-05: HEAVY METALS ANALYSIS BY ICP-MS // NOV 15, 2022

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/kg)	PASS/FAIL
ARSENIC	1.5 µg/g	ND	0.045/0.500	PASS
CADMIUM	0.5 µg/g	ND	0.026/0.500	PASS
CHROMIUM	2 µg/g	0.007 µg/g	0.027/0.500	PASS
COPPER		0.007 µg/g	0.045/0.500	PASS

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/kg)	PASS/FAIL
LEAD	0.5 µg/g	0.001 µg/g	0.017/0.500	PASS
MERCURY	3 µg/g	0.001 µg/g	0.004/0.050	PASS
NICKEL		0.001 µg/g	0.027/0.500	PASS

SOL-04: RESIDUAL SOLVENT ANALYSIS BY GC-MS/HS // NOV 16, 2022

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
1,2-DICHLOROETHANE	5 µg/g	ND	0.400/1.340	PASS
2,2-DIMETHYLBUTANE	290 µg/g	ND	0.980/3.270	PASS
2,3-DIMETHYLBUTANE	290 µg/g	ND	2.190/7.320	PASS
2-METHYLBUTANE	5000 µg/g	ND	1.540/5.140	PASS
2-METHYLPENTANE	290 µg/g	ND	0.730/2.440	PASS
3-METHYLPENTANE	290 µg/g	ND	0.730/2.440	PASS
ACETONE	5000 µg/g	ND	1.570/5.230	PASS
ACETONITRILE	410 µg/g	ND	1.850/6.170	PASS
BENZENE	2 µg/g	ND	0.180/0.590	PASS
BUTANE	5000 µg/g	ND	1.680/5.590	PASS
BUTANES ALL ISOMERS *	5000 µg/g	ND		PASS
CHLOROFORM	60 µg/g	ND	0.780/2.590	PASS
ETHANOL	5000 µg/g	ND	6.020/20.100	PASS
ETHYL ACETATE	5000 µg/g	ND	1.950/6.490	PASS
ETHYLENE OXIDE	50 µg/g	ND	0.150/0.490	PASS

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
ETHYL ETHER	5000 µg/g	ND	1.370/4.550	PASS
HEPTANE	5000 µg/g	ND	1.310/4.370	PASS
HEXANE	290 µg/g	ND	1.420/4.740	PASS
HEXANES ALL ISOMERS *	290 µg/g	ND		PASS
ISOBUTANE	5000 µg/g	ND	1.600/5.340	PASS
ISOPROPYL ALCOHOL	5000 µg/g	ND	4.900/16.300	PASS
METHANOL	3000 µg/g	ND	7.890/26.400	PASS
METHYLENE CHLORIDE	600 µg/g	ND	1.360/4.530	PASS
NEOPENTANE	5000 µg/g	ND	1.490/4.970	PASS
PENTANE	5000 µg/g	ND	1.460/4.870	PASS
PENTANES ALL ISOMERS *	5000 µg/g	ND		PASS
PROPANE	5000 µg/g	ND	1.950/6.510	PASS
TOLUENE	890 µg/g	ND	1.880/6.260	PASS
TRICHLOROETHYLENE	80 µg/g	ND	0.290/0.960	PASS
TOTAL XYLENES	2170 µg/g	ND	2.020/6.720	PASS

* BEYOND SCOPE OF ACCREDITATION



ACCREDITATIONS



ILAC-MRA



ISO/IEC 17025

ILAC-MRA, PJLA ACCREDITED

PLC-02: CHEMICAL RESIDUE ANALYSIS BY LC-MS/MS

ABAMECTIN, ABAMECTIN BA, ABAMECTIN BB, ACEPHATE, ACEQUINOCYL, ACETAMIPRID, ALDICARB, AZOXYSTROBIN, BIFENAZATE, BIFENTHRIN, BOSCALID, CARBARYL, CARBOFURAN, CHLORANTRANILIPROLE, CHLORFENAPYR, CHLORPYRIFOS, CLOFENTEZINE, CYFLUTHRIN, CYPERMETHRIN, DAMINOZIDE, DIAZINON, DICHLORVOS, DIMETHOATE, ETHOPROPHOS, ETOFENPROX, ETOXAZOLE, FENOXYCARB, FENPYROXIMATE, FIPRONIL, FLONICAMID, FLUDIOXONIL, HEXYTHIAZOX, IMAZALIL, IMIDACLOPRID, KRESOXIM-METHYL, MGK-264, MALATHION, MALATHION A, METALAXYL, METHIOCARB, METHOMYL, METHYL PARATHION, MYCLOBUTANIL, NALED, OXAMYL, PACLOBUTRAZOL, PERMETHRIN, PERMETHRIN CIS, PERMETHRIN TRANS, PHOSMET, PRALLETHRIN, PROPICONAZOLE, PROPOXUR, PYRETHRINS, PYRETHRINS CINERIN I, PYRETHRINS CINERIN I-3, PYRETHRINS JASMOLIN I, PYRETHRINS JASMOLIN I-3, PYRETHRINS PYRETHRIN I, PYRIDABEN, SPINOSAD, SPINOSAD A, SPINOSAD D, SPIROMESIFEN, SPIROTETRAMAT, SPIROXAMINE, TEBUCONAZOLE, THIACTLOPRID, THIAMETHOXAM, TRIFLOXYSTROBIN

POT-01: CANNABINOID POTENCY ANALYSIS BY HPLC-DAD

CBD, CBDA, DELTA-9-THC, THCA, CBDV, THCV, CBG, CBGA, CBN, DELTA-8-THC, CBC, DELTA-8 + DELTA-9-THC, TOTAL CBD, TOTAL THC

TRP-013: TERPENE ANALYSIS BY GC-MS

(+)-FENCHONE, (1R)-ENDO-(+)-FENCHYL ALCOHOL, CAMPHENE, CAMPHOR, CARYOPHYLLENE OXIDE, CEDROL, DELTA-3-CARENE, EUCALYPTOL, FENCHOL, GERANIOL, GERANYL ACETATE, GUAJOL, ISOBORNEOL, ISOPULEGOL, LIMONENE, NEROLIDOL, OCIMENE, PHELLANDRENE, PULEGONE, SABINENE, SABINENE HYDRATE, TERPINEOL 3, TERPINOLENE, VALENCENE, ALPHA-BISABOLOL, ALPHA-CEDRENE, ALPHA-HUMULENE, ALPHA-PHELLANDRENE, ALPHA-PINENE, ALPHA-TERPINENE, BETA-MYRCENE, BETA-PINENE, CIS-NEROLIDOL, CIS-BETA-OCIMENE, GAMMA-TERPINENE, TRANS-CARYOPHYLLENE, TRANS-NEROLIDOL, TRANS-BETA-OCIMENE, ALPHA-TERPINEOL

SOL-04: RESIDUAL SOLVENT ANALYSIS BY GC-MS/HS

1,2-DICHLOROETHANE, 2,2-DIMETHYLBUTANE, 2,3-DIMETHYLBUTANE, 2-METHYLBUTANE, 2-METHYLPENTANE, 3-METHYLPENTANE, ACETONE, ACETONITRILE, BENZENE, BUTANE, CHLOROFORM, ETHANOL, ETHYL ACETATE, ETHYL ETHER, ETHYLENE OXIDE, HEPTANE, HEXANE, ISOBUTANE, ISOPROPYL ALCOHOL, METHANOL, METHYLENE CHLORIDE, NEOPENTANE, PENTANE, PROPANE, TOLUENE, TOTAL XYLENES, TRICHLOROETHYLENE, M-XYLENE, O-XYLENE, P- AND M-XYLENE, P-XYLENE

MET-05: HEAVY METALS ANALYSIS BY ICP-MS

ARSENIC, CADMIUM, CHROMIUM, COPPER, LEAD, MERCURY, NICKEL

PGC-03: CHEMICAL RESIDUE ANALYSIS BY GC-MS/MS

CHLORFENAPYR, METHYL PARATHION

* FOR QUALITY ASSURANCE PURPOSES. NOT A MICHIGAN COMPLIANCE CERTIFICATE.

nūvita QUALITY RELEASE

Sensory: N/A

Visual: N/A

Aroma: N/A

Flavor: N/A

Lab Report (COA): PASS

Signature: [Signature] Release Date: 11-18-22

