

CERTIFICATE OF ANALYSIS

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

PRODUCED: JUN 15, 2022

SAMPLE: FULL SPECTRUM CBD OIL (16022) (TINCTURE) // **CLIENT:** NUVITA CBD // **BATCH:** PASS



MATRIX: TINCTURE
SAMPLE ID: CAM-220610-028
COLLECTED ON: JUN 09, 2022
RECEIVED ON: JUN 09, 2022
SAMPLE SIZE: 40 ML
SAMPLED BY: HANNAH HARDY
RECEIVED BY: HANNAH HARDY
SERVING/PACKAGE SIZE: 0.94 G / 14.1 G

CANNABINOID OVERVIEW

CBD: 50.85 mg/srv
CBC: 3.23 mg/srv
TOTAL CANNABINOIDS: 56.74 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 // JUN 15, 2022

ANALYTE	LIMIT	AMT	AMT	LOD/LOQ (µg/g)	PASS/FAIL	ANALYTE	LIMIT	AMT	AMT	LOD/LOQ (µg/g)	PASS/FAIL
CBC		0.344 %	3.44 mg/g	0.0517/0.172	PASS	THCV		ND	ND	0.0699/0.233	PASS
CBD		5.41 %	54.1 mg/g	0.109/0.363	PASS	TOTAL THC **		0.227 %	2.27 mg/g		PASS
CBDA		ND	ND	0.142/0.474	PASS	TOTAL CBD **		5.41 %	54.1 mg/g		PASS
CBDV		0.0163 %	0.163 mg/g	0.0673/0.224	PASS	CBD/SRV		50.9 mg			PASS
CBG		0.0394 %	0.394 mg/g	0.0576/0.192	PASS	Δ ⁸ + Δ ⁹ -THC/SRV		2.13 mg			PASS
CBGA		ND	ND	0.0328/0.109	PASS	Δ ⁸ -THC/SRV		ND			PASS
CBN		ND	ND	0.0848/0.283	PASS	Δ ⁹ -THC/SRV		2.13 mg			PASS
Δ ⁸ + Δ ⁹ -THC		0.227 %	2.27 mg/g		PASS	CBD/PKG		763 mg			PASS
Δ ⁸ -THC	10 %	ND	ND	0.0578/0.193	PASS	Δ ⁸ + Δ ⁹ -THC/PKG		32.0 mg			PASS
Δ ⁹ -THC		0.227 %	2.27 mg/g	0.102/0.34	PASS	Δ ⁸ -THC/PKG		ND			PASS
THCA		ND	ND	0.0883/0.294	PASS	Δ ⁹ -THC/PKG		32.0 mg			PASS

** 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 // JUN 14, 2022

ANALYTE	AMT (%)	LOD/LOQ (µg/g)	PASS/FAIL	ANALYTE	AMT (%)	LOD/LOQ (µg/g)	PASS/FAIL
TOTAL TERPENES *	0.220 %		PASS	ISOBORNEOL	ND	0.5/1	PASS
TRANS-CARYOPHYLLENE	0.093 %	0.5/1	PASS	(+)-FENCHONE	ND	0.5/1	PASS
α-BISABOLOL	0.039 %	0.5/1	PASS	γ-TERPINENE	ND	0.5/1	PASS
α-HUMULENE	0.039 %	0.5/1	PASS	EUCALYPTOL	ND	0.5/1	PASS
VALENCENE	0.013 %	0.5/1	PASS	(1R)-ENDO-(+)-FENCHYL ALCOHOL	ND	0.5/1	PASS
β-MYRCENE	0.013 %	0.5/1	PASS	CIS-NEROLIDOL	ND	0.5/1	PASS
GUAIOL	0.010 %	0.5/1	PASS	CIS-β-OCIMENE	ND	0.5/1	PASS
TRANS-NEROLIDOL	0.007 %	0.5/1	PASS	CEDROL	ND	0.5/1	PASS
LIMONENE	0.006 %	0.5/1	PASS	CARYOPHYLLENE OXIDE	ND	0.5/1	PASS
TRANS-β-OCIMENE	ND	0.5/1	PASS	CAMPHOR	ND	0.5/1	PASS
TERPINOLENE	ND	0.5/1	PASS	CAMPHENE	ND	0.5/1	PASS
GERANYL ACETATE	ND	0.5/1	PASS	β-PINENE	ND	0.5/1	PASS
SABINENE HYDRATE	ND	0.5/1	PASS	α-TERPINENE	ND	0.5/1	PASS
SABINENE	ND	0.5/1	PASS	α-PINENE	ND	0.5/1	PASS
PULEGONE	ND	0.5/1	PASS	α-PHELLANDRENE	ND	0.5/1	PASS
LINALOOL *	ND	0.5/1	PASS	α-CEDRENE	ND	0.5/1	PASS
ISOPULEGOL	ND	0.5/1	PASS	Δ ³ -CARENE	ND	0.5/1	PASS

* BEYOND SCOPE OF ACCREDITATION



RESULTS CERTIFIED BY: VERNON LALONE
LABORATORY DIRECTOR, CAMBIUM ANALYTICA
JUN 15, 2022

A handwritten signature in black ink, appearing to read 'V. Lalone', positioned below the certification text.

RESULTS CERTIFIED BY: DOUGLAS SMITH
CHIEF SCIENTIST, CAMBIUM ANALYTICA
JUN 15, 2022

A handwritten signature in black ink, appearing to read 'D. Smith', positioned below the certification text.



PGC-03: CHEMICAL RESIDUE ANALYSIS BY GC-MS/MS // JUN 14, 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	6.29/21.1	PASS	METHYL PARATHION	0.2 µg/g	ND	3.21/10.8	PASS

PLC-02: CHEMICAL RESIDUE ANALYSIS BY LC-MS/MS // JUN 14, 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	72.3/241	PASS	IMAZALIL	0.2 µg/g	ND	16.2/54	PASS
ACEPHATE	0.4 µg/g	ND	17/56.8	PASS	IMIDACLOPRID	0.4 µg/g	ND	35.5/118	PASS
ACEQUINOCYL	2 µg/g	ND	29.5/98.2	PASS	KRESOXIM-METHYL	0.4 µg/g	ND	12.4/41.3	PASS
ACETAMIPRID	0.2 µg/g	ND	15.1/50.5	PASS	MALATHION	0.2 µg/g	ND	16.3/54.5	PASS
ALDICARB	0.4 µg/g	ND	44.3/148	PASS	METALAXYL	0.2 µg/g	ND	18.4/61.2	PASS
AZOXYSTROBIN	0.2 µg/g	ND	10.9/36.5	PASS	METHIOCARB	0.2 µg/g	ND	14.5/48.3	PASS
BIFENAZATE	0.2 µg/g	ND	26.2/87.4	PASS	METHOMYL	0.4 µg/g	ND	9.87/32.9	PASS
BIFENTHRIN	0.2 µg/g	ND	15.2/50.7	PASS	MGK-264	0.2 µg/g	ND	20.1/67	PASS
BOSCALID	0.4 µg/g	ND	13.4/43.7	PASS	MYCLOBUTANIL	0.2 µg/g	ND	20.6/68.8	PASS
CARBARYL	0.2 µg/g	ND	12.6/42.1	PASS	NALED	0.5 µg/g	ND	24/80.2	PASS
CARBOFURAN	0.2 µg/g	ND	11.2/37.3	PASS	OXAMYL	1 µg/g	ND	36.9/123	PASS
CHLORANTRANIL-IPROLE	0.2 µg/g	ND	25.7/85.7	PASS	PACLOBUTRAZOL	0.4 µg/g	ND	37.9/126	PASS
CHLORPYRIFOS	0.2 µg/g	ND	25.8/86.1	PASS	PERMETHRIN	0.2 µg/g	ND	39.5/132	PASS
CLOFENTEZINE	0.2 µg/g	ND	21.1/70.3	PASS	PHOSMET	0.2 µg/g	ND	25/83.4	PASS
CYFLUTHRIN	1 µg/g	ND	40.5/135	PASS	PRALLETHRIN	0.2 µg/g	ND	38.9/130	PASS
CYPERMETHRIN	1 µg/g	ND	29/96.6	PASS	PROPICONAZOLE	0.4 µg/g	ND	42.4/141	PASS
DAMINOZIDE	1 µg/g	ND	25/83.4	PASS	PROPOXUR	0.2 µg/g	ND	12.2/40.5	PASS
DIAZINON	0.2 µg/g	ND	19.5/64.9	PASS	PYRETHRINS	1 µg/g	ND	21/69.9	PASS
DICHLORVOS	1 µg/g	ND	13.1/43.8	PASS	PYRIDABEN	0.2 µg/g	ND	27.3/91.1	PASS
DIMETHOATE	0.2 µg/g	ND	12.8/42.7	PASS	SPINOSAD	0.2 µg/g	ND	6.17/20.6	PASS
ETHOPROPHOS	0.2 µg/g	ND	20/66.6	PASS	SPINOSAD A		ND	6.68/22.2	
ETOFENPROX	0.4 µg/g	ND	15/50.1	PASS	SPINOSAD D		ND	2.52/8.38	
ETOXAZOLE	0.2 µg/g	ND	14.2/47.2	PASS	SPIROMESIFEN	0.2 µg/g	ND	15.3/51	PASS
FENOXYCARB	0.2 µg/g	ND	20.9/69.7	PASS	SPIROTETRAMAT	0.2 µg/g	ND	37.2/124	PASS
FENPYROXIMATE	0.4 µg/g	ND	46/153	PASS	SPIROXAMINE	0.4 µg/g	ND	12.8/42.8	PASS
FIPRONIL	0.4 µg/g	ND	47.2/157	PASS	TEBUCONAZOLE	0.4 µg/g	ND	39.4/131	PASS
FLONICAMID	1 µg/g	ND	23.3/77.5	PASS	THIACLOPRID	0.2 µg/g	ND	16.2/54	PASS
FLUDIOXONIL	0.4 µg/g	ND	11.5/38.3	PASS	THIAMETHOXAM	0.2 µg/g	ND	14.3/47.8	PASS
HEXYTHIAZOX	1 µg/g	ND	29.5/98.4	PASS	TRIFLOXYSTROB-IN	0.2 µg/g	ND	19.6/65.3	PASS



TYM-028: TOTAL YEAST AND MOLD // JUN 13, 2022

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

ASP-029: ASPERGILLUS SPP. // JUN 13, 2022

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

COL-027: TOTAL COLIFORMS // JUN 13, 2022

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

STEC-030: SHIGA TOXIN PRODUCING E. COLI // JUN 14, 2022

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

SAL-030: SALMONELLA // JUN 14, 2022

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

MET-05: HEAVY METALS ANALYSIS BY ICP-MS // JUN 14, 2022

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/kg)	PASS/FAIL	ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/kg)	PASS/FAIL
ARSENIC	1.5 µg/g	ND	0.0448/0.5	PASS	LEAD	0.5 µg/g	0.006 µg/g	0.0169/0.5	PASS
CADMIUM	0.5 µg/g	ND	0.0256/0.5	PASS	MERCURY	3 µg/g	ND	0.00439/0.05	PASS
CHROMIUM	2 µg/g	0.027 µg/g	0.0274/0.5	PASS	NICKEL		0.024 µg/g	0.0271/0.5	PASS
COPPER		ND	0.0446/0.5						

SOL-04: RESIDUAL SOLVENT ANALYSIS BY GC-MS/HS // JUN 14, 2022

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL	ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
1,2-DICHLOROETHANE	5 µg/g	ND	0.4/1.34	PASS	HEPTANE	5000 µg/g	ND	1.31/4.37	PASS
2,2-DIMETHYLBUTANE	290 µg/g	ND	0.98/3.27	PASS	HEXANE	290 µg/g	ND	1.42/4.74	PASS
2,3-DIMETHYLBUTANE	290 µg/g	ND	2.19/7.32	PASS	HEXANES ALL ISOMERS *	290 µg/g	ND		PASS
2-METHYLBUTANE	5000 µg/g	ND	1.54/5.14	PASS	ISOBUTANE	5000 µg/g	ND	1.6/5.34	PASS
3-METHYLPENTANE	290 µg/g	ND	0.73/2.44	PASS	ISOPROPYL ALCOHOL	5000 µg/g	ND	4.9/16.3	PASS
ACETONE	5000 µg/g	ND	1.57/5.23	PASS	METHANOL	3000 µg/g	ND	7.89/26.4	PASS
ACETONITRILE	410 µg/g	ND	1.85/6.17	PASS	METHYLENE CHLORIDE	600 µg/g	ND	1.36/4.53	PASS
BENZENE	2 µg/g	ND	0.18/0.59	PASS	NEOPENTANE	5000 µg/g	ND	1.49/4.97	PASS
BUTANE	5000 µg/g	ND	1.68/5.59	PASS	PENTANE	5000 µg/g	ND	1.46/4.87	PASS
BUTANES ALL ISOMERS *	5000 µg/g	ND		PASS	PENTANES ALL ISOMERS *	5000 µg/g	ND		PASS
CHLOROFORM	60 µg/g	ND	0.78/2.59	PASS	PROPANE	5000 µg/g	ND	1.95/6.51	PASS
ETHANOL	5000 µg/g	ND	6.02/20.1	PASS	TOLUENE	890 µg/g	ND	1.88/6.26	PASS
ETHYL ACETATE	5000 µg/g	ND	1.95/6.49	PASS	TRICHLOROETHYLENE	80 µg/g	ND	0.29/0.96	PASS
ETHYLENE OXIDE	50 µg/g	ND	0.15/0.49	PASS	TOTAL XYLENES	2170 µg/g	ND	2.02/6.72	PASS
ETHYL ETHER	5000 µg/g	ND	1.37/4.55	PASS					

* BEYOND SCOPE OF ACCREDITATION





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, THIACTOPRID, 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

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.

nūvitā QUALITY RELEASE

Sensory: N/A
 Visual: N/A
 Aroma: N/A
 Flavor: N/A
 Lab Report (COA): PASS
 Signature: *Carly York* Release Date: 6.16.22

