

CERTIFICATE OF ANALYSIS

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

PRODUCED: JUN 22, 2022

SAMPLE: FULL SPECTRUM CBD OIL - OLIVE OIL BASED BLEND (16722) (TINCTURE) // **CLIENT:** NUVITA CBD // **BATCH:** PASS



MATRIX: TINCTURE
SAMPLE ID: CAM-220617-014
COLLECTED ON: JUN 16, 2022
RECEIVED ON: JUN 16, 2022
SAMPLE SIZE: 30 ML
SAMPLED BY: HANNAH HARDY
RECEIVED BY: HANNAH HARDY
SERVING/PACKAGE SIZE: 0.94 G / 28.2 G

CANNABINOID OVERVIEW

CBD: 55.93 mg/srv
CBC: 3.47 mg/srv
TOTAL CANNABINOIDS: 61.89 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 21, 2022

ANALYTE	LIMIT	AMT	AMT	LOD/LOQ (µg/g)	PASS/FAIL	ANALYTE	LIMIT	AMT	AMT	LOD/LOQ (µg/g)	PASS/FAIL
CBC		0.369 %	3.69 mg/g	0.0517/0.172		THCV		ND	ND	0.0699/0.233	
CBD		5.95 %	59.5 mg/g	0.109/0.363		TOTAL THC **		0.226 %	2.26 mg/g		
CBDA		ND	ND	0.142/0.474		TOTAL CBD **		5.95 %	59.5 mg/g		
CBDV		ND	ND	0.0673/0.224		CBD/SRV		55.9 mg			
CBG		0.0395 %	0.395 mg/g	0.0576/0.192		Δ ⁸ + Δ ⁹ -THC/SRV		2.12 mg			PASS
CBGA		ND	ND	0.0328/0.109		Δ ⁸ -THC/SRV		ND			PASS
CBN		ND	ND	0.0848/0.283		Δ ⁹ -THC/SRV		2.12 mg			
Δ ⁸ + Δ ⁹ -THC		0.226 %	2.26 mg/g			CBD/PKG		1680 mg			
Δ ⁸ -THC	10 %	ND	ND	0.0578/0.193	PASS	Δ ⁸ + Δ ⁹ -THC/PKG		63.7 mg			PASS
Δ ⁹ -THC		0.226 %	2.26 mg/g	0.102/0.34		Δ ⁸ -THC/PKG		ND			PASS
THCA		ND	ND	0.0883/0.294		Δ ⁹ -THC/PKG		63.7 mg			

** 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 21, 2022

ANALYTE	AMT (%)	LOD/LOQ (µg/g)	PASS/FAIL	ANALYTE	AMT (%)	LOD/LOQ (µg/g)	PASS/FAIL
TOTAL TERPENES *	0.304 %		PASS	TRANS-β-OCIMENE	ND	0.5/1	FAIL
TRANS-CARYOPHYLLENE	0.129 %	0.5/1	PASS	ISOBORNEOL	ND	0.5/1	FAIL
α-BISABOLOL	0.067 %	0.5/1	PASS	Δ ³ -CARENE	ND	0.5/1	FAIL
α-HUMULENE	0.046 %	0.5/1	PASS	GERANYL ACETATE	ND	0.5/1	FAIL
GUAIOL	0.016 %	0.5/1	PASS	γ-TERPINENE	ND	0.5/1	FAIL
TRANS-NEROLIDOL	0.015 %	0.5/1	PASS	EUCALYPTOL	ND	0.5/1	FAIL
β-MYRCENE	0.014 %	0.5/1	PASS	(1R)-ENDO-(+)-FENCHYL ALCOHOL	ND	0.5/1	FAIL
LIMONENE	0.006 %	0.5/1	PASS	CEDROL	ND	0.5/1	FAIL
CIS-NEROLIDOL	0.006 %	0.5/1	PASS	CARYOPHYLLENE OXIDE	ND	0.5/1	FAIL
CIS-β-OCIMENE	0.005 %	0.5/1	PASS	CAMPHOR	ND	0.5/1	FAIL
(+)-FENCHONE	ND	0.5/1	FAIL	CAMPHENE	ND	0.5/1	FAIL
ISOPULEGOL	ND	0.5/1	FAIL	β-PINENE	ND	0.5/1	FAIL
SABINENE HYDRATE	ND	0.5/1	FAIL	α-TERPINENE	ND	0.5/1	FAIL
LINALOOL *	ND	0.5/1	FAIL	α-PINENE	ND	0.5/1	FAIL
PULEGONE	ND	0.5/1	FAIL	α-PHELLANDRENE	ND	0.5/1	FAIL
SABINENE	ND	0.5/1	FAIL	α-CEDRENE	ND	0.5/1	FAIL
TERPINOLENE	ND	0.5/1	FAIL	VALENCENE	ND	0.5/1	FAIL

* BEYOND SCOPE OF ACCREDITATION



RESULTS CERTIFIED BY: VERNON LALONE
LABORATORY DIRECTOR, CAMBIUM ANALYTICA
JUN 22, 2022

RESULTS CERTIFIED BY: DOUGLAS SMITH
CHIEF SCIENTIST, CAMBIUM ANALYTICA
JUN 22, 2022



PGC-03: CHEMICAL RESIDUE ANALYSIS BY GC-MS/MS // JUN 21, 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	6.27/21	PASS	METHYL PARATHION	0.2 µg/g	ND	3.2/10.8	PASS

PLC-02: CHEMICAL RESIDUE ANALYSIS BY LC-MS/MS // JUN 21, 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	72/240	PASS	IMAZALIL	0.2 µg/g	ND	16.2/53.9	PASS
ACEPHATE	0.4 µg/g	ND	17/56.6	PASS	IMIDACLOPRID	0.4 µg/g	ND	35.4/118	PASS
ACEQUINOCYL	2 µg/g	ND	29.4/97.9	PASS	KRESOXIM-METHYL	0.4 µg/g	ND	12.4/41.2	PASS
ACETAMIPRID	0.2 µg/g	ND	15.1/50.3	PASS	MALATHION	0.2 µg/g	ND	16.3/54.3	PASS
ALDICARB	0.4 µg/g	ND	44.2/147	PASS	METALAXYL	0.2 µg/g	ND	18.3/61	PASS
AZOXYSTROBIN	0.2 µg/g	ND	10.9/36.4	PASS	METHIOCARB	0.2 µg/g	ND	14.4/48.1	PASS
BIFENAZATE	0.2 µg/g	ND	26.1/87.1	PASS	METHOMYL	0.4 µg/g	ND	9.84/32.8	PASS
BIFENTHRIN	0.2 µg/g	ND	15.2/50.6	PASS	MGK-264	0.2 µg/g	ND	20/66.8	PASS
BOSCALID	0.4 µg/g	ND	13.3/43.5	PASS	MYCLOBUTANIL	0.2 µg/g	ND	20.6/68.6	PASS
CARBARYL	0.2 µg/g	ND	12.6/42	PASS	NALED	0.5 µg/g	ND	24/79.9	PASS
CARBOFURAN	0.2 µg/g	ND	11.1/37.1	PASS	OXAMYL	1 µg/g	ND	36.8/122	PASS
CHLORANTRANIL-IPROLE	0.2 µg/g	ND	25.6/85.5	PASS	PACLOBUTRAZOL	0.4 µg/g	ND	37.8/126	PASS
CHLORPYRIFOS	0.2 µg/g	ND	25.8/85.9	PASS	PERMETHRIN	0.2 µg/g	ND	39.4/131	PASS
CLOFENTEZINE	0.2 µg/g	ND	21/70.1	PASS	PHOSMET	0.2 µg/g	ND	24.9/83.2	PASS
CYFLUTHRIN	1 µg/g	ND	40.4/135	PASS	PRALLETHRIN	0.2 µg/g	ND	38.8/129	PASS
CYPERMETHRIN	1 µg/g	ND	28.9/96.3	PASS	PROPICONAZOLE	0.4 µg/g	ND	42.2/141	PASS
DAMINOZIDE	1 µg/g	ND	24.9/83.1	PASS	PROPOXUR	0.2 µg/g	ND	12.1/40.4	PASS
DIAZINON	0.2 µg/g	ND	19.4/64.7	PASS	PYRETHRINS	1 µg/g	ND	20.9/69.6	PASS
DICHLORVOS	1 µg/g	ND	13.1/43.7	PASS	PYRIDABEN	0.2 µg/g	ND	27.3/90.8	PASS
DIMETHOATE	0.2 µg/g	ND	12.8/42.6	PASS	SPINOSAD	0.2 µg/g	ND	6.15/20.5	PASS
ETHOPROPHOS	0.2 µg/g	ND	19.9/66.4	PASS	SPINOSAD A		ND	6.66/22.2	
ETOFENPROX	0.4 µg/g	ND	15/50	PASS	SPINOSAD D		ND	2.51/8.35	
ETOXAZOLE	0.2 µg/g	ND	14.1/47	PASS	SPIROMESIFEN	0.2 µg/g	ND	15.2/50.8	PASS
FENOXYCARB	0.2 µg/g	ND	20.8/69.5	PASS	SPIROTETRAMAT	0.2 µg/g	ND	37/123	PASS
FENPYROXIMATE	0.4 µg/g	ND	45.8/153	PASS	SPIROXAMINE	0.4 µg/g	ND	12.8/42.7	PASS
FIPRONIL	0.4 µg/g	ND	47/157	PASS	TEBUCONAZOLE	0.4 µg/g	ND	39.2/131	PASS
FLONICAMID	1 µg/g	ND	23.2/77.2	PASS	THIACLOPRID	0.2 µg/g	ND	16.1/53.8	PASS
FLUDIOXONIL	0.4 µg/g	ND	11.5/38.2	PASS	THIAMETHOXAM	0.2 µg/g	ND	14.3/47.6	PASS
HEXYTHIAZOX	1 µg/g	ND	29.4/98.1	PASS	TRIFLOXYSTROB-IN	0.2 µg/g	ND	19.5/65.1	PASS



TYM-028: TOTAL YEAST AND MOLD // JUN 20, 2022

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

ASP-029: ASPERGILLUS SPP. // JUN 20, 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

COL-027: TOTAL COLIFORMS // JUN 20, 2022

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

STEC-030: SHIGA TOXIN PRODUCING E. COLI // JUN 21, 2022

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

SAL-030: SALMONELLA // JUN 21, 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 20, 2022

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/kg)	PASS/FAIL
ARSENIC	1.5 µg/g	ND	0.0448/0.5	PASS
CADMIUM	0.5 µg/g	< LOQ	0.0256/0.5	PASS
CHROMIUM	2 µg/g	0.006 µg/g	0.0274/0.5	PASS
COPPER		0.027 µg/g	0.0446/0.5	

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/kg)	PASS/FAIL
LEAD	0.5 µg/g	0.001 µg/g	0.0169/0.5	PASS
MERCURY	3 µg/g	ND	0.00439/0.05	PASS
NICKEL		0.006 µg/g	0.0271/0.5	

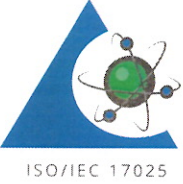
SOL-04: RESIDUAL SOLVENT ANALYSIS BY GC-MS/HS // JUN 21, 2022

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
1,2-DICHLOROETHANE	5 µg/g	ND	0.4/1.34	PASS
2,2-DIMETHYLBUTANE	290 µg/g	ND	0.98/3.27	PASS
2,3-DIMETHYLBUTANE	290 µg/g	ND	2.19/7.32	PASS
2-METHYLBUTANE	5000 µg/g	ND	1.54/5.14	PASS
3-METHYLPENTANE	290 µg/g	ND	0.73/2.44	PASS
ACETONE	5000 µg/g	ND	1.57/5.23	PASS
ACETONITRILE	410 µg/g	ND	1.85/6.17	PASS
BENZENE	2 µg/g	ND	0.18/0.59	PASS
BUTANE	5000 µg/g	ND	1.68/5.59	PASS
BUTANES ALL ISOMERS *	5000 µg/g	ND		PASS
CHLOROFORM	60 µg/g	ND	0.78/2.59	PASS
ETHANOL	5000 µg/g	ND	6.02/20.1	PASS
ETHYL ACETATE	5000 µg/g	ND	1.95/6.49	PASS
ETHYLENE OXIDE	50 µg/g	ND	0.15/0.49	PASS
ETHYL ETHER	5000 µg/g	ND	1.37/4.55	PASS

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
HEPTANE	5000 µg/g	ND	1.31/4.37	PASS
HEXANE	290 µg/g	ND	1.42/4.74	PASS
HEXANES ALL ISOMERS *	290 µg/g	ND		PASS
ISOBUTANE	5000 µg/g	ND	1.6/5.34	PASS
ISOPROPYL ALCOHOL	5000 µg/g	ND	4.9/16.3	PASS
METHANOL	3000 µg/g	ND	7.89/26.4	PASS
METHYLENE CHLORIDE	600 µg/g	ND	1.36/4.53	PASS
NEOPENTANE	5000 µg/g	ND	1.49/4.97	PASS
PENTANE	5000 µg/g	ND	1.46/4.87	PASS
PENTANES ALL ISOMERS *	5000 µg/g	ND		PASS
PROPANE	5000 µg/g	ND	1.95/6.51	PASS
TOLUENE	890 µg/g	ND	1.88/6.26	PASS
TRICHLOROETHYLENE	80 µg/g	ND	0.29/0.96	PASS
TOTAL XYLENES	2170 µg/g	ND	2.02/6.72	PASS

* BEYOND SCOPE OF ACCREDITATION





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, THIACLOPRID, 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/MS

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

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nūvita QUALITY RELEASE

Sensory: N/A

Visual: N/A

Aroma: N/A

Flavor: N/A

Lab Report (COA): pass

Signature: [Handwritten Signature] Release Date: 10-24-22

