

CERTIFICATE OF ANALYSIS

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

PRODUCED: MAR 02, 2023

SAMPLE: FULL SPECTRUM CBD OIL - OLIVE OIL BLEND 100093 (TINCTURE) // **CLIENT:** NUVITA CBD // **BATCH:** 100093
REFERENCE FINISHED PRODUCT LOT: 100096



MATRIX: TINCTURE
SAMPLE ID: CAM-230227-033
COLLECTED ON: FEB 27, 2023
RECEIVED ON: FEB 27, 2023
SAMPLE SIZE: 30 ML
SAMPLED BY: KAITLYN
RECEIVED BY: KAITLYN
SERVING/PACKAGE SIZE: 0.94 G / 28.2 G

CANNABINOID OVERVIEW

CBD: 53.3 mg/srv
CBC: 4.98 mg/srv
TOTAL CANNABINOIDS: 66.6 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 // MAR 01, 2023

ANALYTE	LIMIT	AMT	AMT	LOD/LOQ (µg/g)	PASS/FAIL	ANALYTE	LIMIT	AMT	AMT	LOD/LOQ (µg/g)	PASS/FAIL
CBC		0.530 %	5.3 mg/g	0.0517/0.172	PASS	THCV		ND	ND	0.0699/0.233	
CBD		5.67 %	56.7 mg/g	0.109/0.363	PASS	TOTAL THC **	0.287 %	2.87 mg/g			
CBDA		0.431 %	4.31 mg/g	0.142/0.474	PASS	TOTAL CBD **	6.05 %	60.5 mg/g			
CBDV		0.0215 %	0.215 mg/g	0.0673/0.224	PASS	CBD/SRV		53.3 mg			
CBG		0.113 %	1.13 mg/g	0.0576/0.192	PASS	Δ ⁸ + Δ ⁹ -THC/SRV	11 mg	2.70 mg			PASS
CBGA		0.0351 %	0.351 mg/g	0.0328/0.109	PASS	Δ ⁸ -THC/SRV	1.1 mg	ND			PASS
CBN		ND	ND	0.0848/0.283	PASS	Δ ⁹ -THC/SRV		2.70 mg			
Δ ⁸ + Δ ⁹ -THC		0.287 %	2.87 mg/g			CBD/PKG		1600 mg			
Δ ⁸ -THC	10 %	ND	ND	0.0578/0.193	PASS	Δ ⁸ + Δ ⁹ -THC/PKG	220 mg	80.9 mg			PASS
Δ ⁹ -THC		0.287 %	2.87 mg/g	0.102/0.340	PASS	Δ ⁸ -THC/PKG	22 mg	ND			PASS
THCA		ND	ND	0.0883/0.294	PASS	Δ ⁹ -THC/PKG		80.9 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 // MAR 01, 2023

ANALYTE	AMT (%)	LOD/LOQ (µg/g)	PASS/FAIL	ANALYTE	AMT (%)	LOD/LOQ (µg/g)	PASS/FAIL
TOTAL TERPENES	0.328 %		PASS	CAMPHERE	ND	0.500/1.000	
TRANS-CARYOPHYLLENE	0.123 %	0.500/1.000	PASS	CAMPHOR	ND	0.500/1.000	
α-HUMULENE	0.051 %	0.500/1.000	PASS	CARYOPHYLLENE OXIDE	ND	0.500/1.000	
α-BISABOLOL	0.047 %	0.500/1.000	PASS	CEDROL	ND	0.500/1.000	
β-MYRCENE	0.036 %	0.500/1.000	PASS	CIS-NEROLIDOL	ND	0.500/1.000	
GUAJOL	0.015 %	0.500/1.000	PASS	Δ ³ -CARENE	ND	0.500/1.000	
α-TERPINEOL	0.012 %	0.500/1.000	PASS	DL-MENTHOL	ND	0.500/1.000	
LIMONENE	0.012 %	0.500/1.000	PASS	EUCALYPTOL	ND	0.500/1.000	
CIS-β-OCIMENE	0.009 %	0.500/1.000	PASS	γ-TERPINENE	ND	0.500/1.000	
TRANS-NEROLIDOL	0.009 %	0.500/1.000	PASS	GERANYL ACETATE	ND	0.500/1.000	
(1R)-ENDO-(+)-FENCHYL ALCOHOL	0.008 %	0.500/1.000	PASS	ISOBORNEOL	ND	0.500/1.000	
LINALOOL	0.006 %	0.500/1.000	PASS	ISOPULEGOL	ND	0.500/1.000	
(+)-FENCHONE	ND	0.500/1.000	PASS	PULEGONE	ND	0.500/1.000	
α-CEDRENE	ND	0.500/1.000	PASS	SABINENE	ND	0.500/1.000	
α-PHELLANDRENE	ND	0.500/1.000	PASS	SABINENE HYDRATE	ND	0.500/1.000	
α-PINENE	ND	0.500/1.000	PASS	TERPINOLENE	ND	0.500/1.000	
α-TERPINENE	ND	0.500/1.000	PASS	TRANS-β-OCIMENE	ND	0.500/1.000	

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
MAR 02, 2023

RESULTS CERTIFIED BY: DOUGLAS SMITH
CHIEF SCIENTIST, CAMBIUM ANALYTICA
MAR 02, 2023



PGC-03: CHEMICAL RESIDUE ANALYSIS BY GC-MS/MS // FEB 28, 2023

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	6.370/21.300	PASS	METHYL PARATHION	0.2 µg/g	ND	3.250/10.900	PASS

PLC-02: CHEMICAL RESIDUE ANALYSIS BY LC-MS/MS // MAR 01, 2023

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	73.100/244.000	PASS	IMAZALIL	0.2 µg/g	ND	16.400/54.700	PASS
ACEPHATE	0.4 µg/g	ND	17.200/57.400	PASS	IMIDACLOPRID	0.4 µg/g	ND	35.900/120.000	PASS
ACEQUINOCYL	2 µg/g	ND	29.800/99.400	PASS	KRESOXIM-METHYL	0.4 µg/g	ND	12.600/41.800	PASS
ACETAMIPRID	0.2 µg/g	ND	15.300/51.100	PASS	MALATHION	0.2 µg/g	ND	16.500/55.100	PASS
ALDICARB	0.4 µg/g	ND	44.900/150.000	PASS	METALAXYL	0.2 µg/g	ND	18.600/62.000	PASS
AZOXYSTROBIN	0.2 µg/g	ND	11.100/36.900	PASS	METHIOCARB	0.2 µg/g	ND	14.700/48.900	PASS
BIFENAZATE	0.2 µg/g	ND	26.500/88.500	PASS	METHOMYL	0.4 µg/g	ND	9.980/33.300	PASS
BIFENTHRIN	0.2 µg/g	ND	15.400/51.400	PASS	MGK-264	0.2 µg/g	ND	20.300/67.800	PASS
BOSCALID	0.4 µg/g	ND	13.500/44.200	PASS	MYCLOBUTANIL	0.2 µg/g	ND	20.900/69.600	PASS
CARBARYL	0.2 µg/g	ND	12.800/42.600	PASS	NALED	0.5 µg/g	ND	24.300/81.100	PASS
CARBOFURAN	0.2 µg/g	ND	11.300/37.700	PASS	OXAMYL	1 µg/g	ND	37.300/124.000	PASS
CHLORANTRANIL-IPROLE	0.2 µg/g	ND	26.000/86.800	PASS	PACLOBUTRAZOL	0.4 µg/g	ND	38.400/128.000	PASS
CHLORPYRIFOS	0.2 µg/g	ND	26.200/87.200	PASS	PERMETHRIN	0.2 µg/g	ND	40.000/133.000	PASS
CLOFENTEZINE	0.2 µg/g	ND	21.300/71.100	PASS	PHOSMET	0.2 µg/g	ND	25.300/84.400	PASS
CYFLUTHRIN	1 µg/g	ND	41.000/137.000	PASS	PRALLETHRIN	0.2 µg/g	ND	39.400/131.000	PASS
CYPERMETHRIN	1 µg/g	ND	29.300/97.800	PASS	PROPICONAZOLE	0.4 µg/g	ND	42.900/143.000	PASS
DAMINOZIDE	1 µg/g	ND	25.300/84.300	PASS	PROPOXUR	0.2 µg/g	ND	12.300/41.000	PASS
DIAZINON	0.2 µg/g	ND	19.700/65.700	PASS	PYRETHRINS	1 µg/g	ND	21.200/70.700	PASS
DICHLORVOS	1 µg/g	ND	13.300/44.300	PASS	PYRIDABEN	0.2 µg/g	ND	27.700/92.200	PASS
DIMETHOATE	0.2 µg/g	ND	13.000/43.200	PASS	SPINOSAD	0.2 µg/g	ND	6.240/20.800	PASS
ETHOPROPHOS	0.2 µg/g	ND	20.200/67.400	PASS	SPINOSAD A		ND	6.760/22.500	
ETOFENPROX	0.4 µg/g	ND	15.200/50.700	PASS	SPINOSAD D		ND	2.550/8.480	
ETOXAZOLE	0.2 µg/g	ND	14.300/47.700	PASS	SPIROMESIFEN	0.2 µg/g	ND	15.500/51.600	PASS
FENOXYCARB	0.2 µg/g	ND	21.200/70.600	PASS	SPIROTETRAMAT	0.2 µg/g	ND	37.600/125.000	PASS
FENPYROXIMATE	0.4 µg/g	ND	46.500/155.000	PASS	SPIROXAMINE	0.4 µg/g	ND	13.000/43.300	PASS
FIPRONIL	0.4 µg/g	ND	47.800/159.000	PASS	TEBUCONAZOLE	0.4 µg/g	ND	39.800/133.000	PASS
FLONICAMID	1 µg/g	ND	23.500/78.400	PASS	THIACLOPRID	0.2 µg/g	ND	16.400/54.600	PASS
FLUDIOXONIL	0.4 µg/g	ND	11.600/38.800	PASS	THIAMETHOXAM	0.2 µg/g	ND	14.500/48.300	PASS
HEXYTHIAZOX	1 µg/g	ND	29.900/99.600	PASS	TRIFLOXYSTROB-IN	0.2 µg/g	ND	19.800/66.100	PASS



COL-027: TOTAL COLIFORMS // MAR 01, 2023

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

STEC-030: SHIGA TOXIN PRODUCING E. COLI // MAR 01, 2023

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

SAL-030: SALMONELLA // MAR 01, 2023

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

ASP-029: ASPERGILLUS SPP. // MAR 01, 2023

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 // MAR 02, 2023

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

MET-05: HEAVY METALS ANALYSIS BY ICP-MS // FEB 28, 2023

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	0.001 µg/g	0.026/0.500	PASS
CHROMIUM	2 µg/g	0.078 µg/g	0.027/0.500	PASS
COPPER		0.082 µg/g	0.045/0.500	PASS

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/kg)	PASS/FAIL
LEAD	0.5 µg/g	0.002 µg/g	0.017/0.500	PASS
MERCURY	3 µg/g	0.001 µg/g	0.004/0.050	PASS
NICKEL		0.027 µg/g	0.027/0.500	PASS

SOL-04: RESIDUAL SOLVENT ANALYSIS BY GC-MS/HS // MAR 01, 2023

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, THIACTOPRID,
THIAMETHOXAM, TRIFLOXYSTROBIN

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

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

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.

nüvita QUALITY RELEASE

Sensory: pass
Visual: pass
Aroma: pass
Flavor: pass
Lab Report (COA): pass
Signature: [Signature] Release Date: 3-2-23

