

# CERTIFICATE OF ANALYSIS

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

PRODUCED: AUG 02, 2022

SAMPLE: CBN INFUSED FULL SPECTRUM (20722) (TINCTURE) // CLIENT: NUVITA CBD // BATCH: PASS



**MATRIX:** TINCTURE  
**SAMPLE ID:** CAM-220728-112  
**COLLECTED ON:** JUL 27, 2022  
**RECEIVED ON:** JUL 27, 2022  
**SAMPLE SIZE:** 30 ML  
**SAMPLED BY:** HANNAH HARDY  
**RECEIVED BY:** HANNAH HARDY  
**SERVING/PACKAGE SIZE:** 0.94 G / 9.4 G

## CANNABINOID OVERVIEW

**CBD:** 28.01 mg/srv  
**CBN:** 8.3 mg/srv  
**TOTAL CANNABINOIDS:** 39.14 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 // AUG 01, 2022

ANALYTE	LIMIT	AMT	AMT	LOD/LOQ (µg/g)	PASS/FAIL	ANALYTE	LIMIT	AMT	AMT	LOD/LOQ (µg/g)	PASS/FAIL
CBC		0.156 %	1.56 mg/g	0.0517/0.172	PASS	THCV		ND	ND	0.0699/0.233	PASS
CBD		2.98 %	29.8 mg/g	0.109/0.363	PASS	TOTAL THC **		0.137 %	1.37 mg/g		PASS
CBDA		ND	ND	0.142/0.474	PASS	TOTAL CBD **		2.98 %	29.8 mg/g		PASS
CBDV		ND	ND	0.0673/0.224	PASS	CBD/SRV		28.0 mg			PASS
CBG		0.00812 %	0.0812 mg/g	0.0576/0.192	PASS	Δ <sup>8</sup> + Δ <sup>9</sup> -THC/SRV		1.29 mg			PASS
CBGA		ND	ND	0.0328/0.109	PASS	Δ <sup>8</sup> -THC/SRV		ND			PASS
CBN		0.883 %	8.83 mg/g	0.0848/0.283	PASS	Δ <sup>9</sup> -THC/SRV		1.29 mg			PASS
Δ <sup>8</sup> + Δ <sup>9</sup> -THC		0.137 %	1.37 mg/g		PASS	CBD/PKG		280 mg			PASS
Δ <sup>8</sup> -THC	10 %	ND	ND	0.0578/0.193	PASS	Δ <sup>8</sup> + Δ <sup>9</sup> -THC/PKG		12.9 mg			PASS
Δ <sup>9</sup> -THC		0.137 %	1.37 mg/g	0.102/0.34	PASS	Δ <sup>8</sup> -THC/PKG		ND			PASS
THCA		ND	ND	0.0883/0.294	PASS	Δ <sup>9</sup> -THC/PKG		12.9 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 // AUG 01, 2022

ANALYTE	AMT (%)	LOD/LOQ (µg/g)	PASS/FAIL	ANALYTE	AMT (%)	LOD/LOQ (µg/g)	PASS/FAIL
TOTAL TERPENES *	0.124 %		PASS	(+)-FENCHONE	ND	0.5/1	PASS
TRANS-CARYOPHYLLENE	0.057 %	0.5/1	PASS	Δ <sup>3</sup> -CARENE	ND	0.5/1	PASS
α-BISABOLOL	0.029 %	0.5/1	PASS	γ-TERPINENE	ND	0.5/1	PASS
α-HUMULENE	0.022 %	0.5/1	PASS	EUCALYPTOL	ND	0.5/1	PASS
GUAIOL	0.008 %	0.5/1	PASS	(1R)-ENDO-(+)-FENCHYL ALCOHOL	ND	0.5/1	PASS
β-MYRCENE	0.008 %	0.5/1	PASS	CIS-NEROLIDOL	ND	0.5/1	PASS
TRANS-NEROLIDOL	ND	0.5/1	PASS	CIS-β-OCIMENE	ND	0.5/1	PASS
TRANS-β-OCIMENE	ND	0.5/1	PASS	CEDROL	ND	0.5/1	PASS
TERPINOLENE	ND	0.5/1	PASS	CARYOPHYLLENE OXIDE	ND	0.5/1	PASS
GERANYL ACETATE	ND	0.5/1	PASS	CAMPHOR	ND	0.5/1	PASS
SABINENE HYDRATE	ND	0.5/1	PASS	CAMPHENE	ND	0.5/1	PASS
SABINENE	ND	0.5/1	PASS	β-PINENE	ND	0.5/1	PASS
PULEGONE	ND	0.5/1	PASS	α-TERPINENE	ND	0.5/1	PASS
LINALOOL *	ND	0.5/1	PASS	α-PINENE	ND	0.5/1	PASS
LIMONENE	ND	0.5/1	PASS	α-PHELLANDRENE	ND	0.5/1	PASS
ISOPULEGOL	ND	0.5/1	PASS	α-CEDRENE	ND	0.5/1	PASS
ISOBORNEOL	ND	0.5/1	PASS	VALENCENE	ND	0.5/1	PASS

\* BEYOND SCOPE OF ACCREDITATION



RESULTS CERTIFIED BY: VERNON LALONE  
LABORATORY DIRECTOR, CAMBIUM ANALYTICA  
AUG 02, 2022

RESULTS CERTIFIED BY: DOUGLAS SMITH  
CHIEF SCIENTIST, CAMBIUM ANALYTICA  
AUG 02, 2022



PGC-03: CHEMICAL RESIDUE ANALYSIS BY GC-MS/MS // AUG 01, 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	6.32/21.2	PASS	METHYL PARATHION	0.2 µg/g	ND	3.23/10.8	PASS

PLC-02: CHEMICAL RESIDUE ANALYSIS BY LC-MS/MS // AUG 01, 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	72.6/242	PASS	IMAZALIL	0.2 µg/g	ND	16.3/54.3	PASS
ACEPHATE	0.4 µg/g	ND	17.1/57	PASS	IMIDACLOPRID	0.4 µg/g	ND	35.7/119	PASS
ACEQUINOCYL	2 µg/g	ND	29.6/98.6	PASS	KRESOXIM-METHYL	0.4 µg/g	ND	12.5/41.5	PASS
ACETAMIPRID	0.2 µg/g	ND	15.2/50.7	PASS	MALATHION	0.2 µg/g	ND	16.4/54.7	PASS
ALDICARB	0.4 µg/g	ND	44.5/148	PASS	METALAXYL	0.2 µg/g	ND	18.5/61.5	PASS
AZOXYSTROBIN	0.2 µg/g	ND	11/36.7	PASS	METHIOCARB	0.2 µg/g	ND	14.6/48.5	PASS
BIFENAZATE	0.2 µg/g	ND	26.4/87.8	PASS	METHOMYL	0.4 µg/g	ND	9.91/33.1	PASS
BIFENTHRIN	0.2 µg/g	ND	15.3/51	PASS	MGK-264	0.2 µg/g	ND	20.2/67.3	PASS
BOSCALID	0.4 µg/g	ND	13.4/43.9	PASS	MYCLOBUTANIL	0.2 µg/g	ND	20.7/69.1	PASS
CARBARYL	0.2 µg/g	ND	12.7/42.3	PASS	NALED	0.5 µg/g	ND	24.2/80.6	PASS
CARBOFURAN	0.2 µg/g	ND	11.2/37.4	PASS	OXAMYL	1 µg/g	ND	37/123	PASS
CHLORANTRANIL-IPROLE	0.2 µg/g	ND	25.8/86.1	PASS	PACLOBUTRAZOL	0.4 µg/g	ND	38.1/127	PASS
CHLORPYRIFOS	0.2 µg/g	ND	26/86.5	PASS	PERMETHRIN	0.2 µg/g	ND	39.7/132	PASS
CLOFENTEZINE	0.2 µg/g	ND	21.2/70.6	PASS	PHOSMET	0.2 µg/g	ND	25.1/83.8	PASS
CYFLUTHRIN	1 µg/g	ND	40.7/136	PASS	PRALLETHRIN	0.2 µg/g	ND	39.1/130	PASS
CYPERMETHRIN	1 µg/g	ND	29.1/97.1	PASS	PROPICONAZOLE	0.4 µg/g	ND	42.6/142	PASS
DAMINOZIDE	1 µg/g	ND	25.1/83.7	PASS	PROPOXUR	0.2 µg/g	ND	12.2/40.7	PASS
DIAZINON	0.2 µg/g	ND	19.6/65.2	PASS	PYRETHRINS	1 µg/g	ND	21.1/70.2	PASS
DICHLORVOS	1 µg/g	ND	13.2/44	PASS	PYRIDABEN	0.2 µg/g	ND	27.5/91.5	PASS
DIMETHOATE	0.2 µg/g	ND	12.9/42.9	PASS	SPINOSAD	0.2 µg/g	ND	6.19/20.7	PASS
ETHOPROPHOS	0.2 µg/g	ND	20.1/66.9	PASS	SPINOSAD A		ND	6.71/22.3	
ETOFENPROX	0.4 µg/g	ND	15.1/50.4	PASS	SPINOSAD D		ND	2.53/8.41	
ETOXAZOLE	0.2 µg/g	ND	14.2/47.4	PASS	SPIROMESIFEN	0.2 µg/g	ND	15.4/51.2	PASS
FENOXYCARB	0.2 µg/g	ND	21/70	PASS	SPIROTETRAMAT	0.2 µg/g	ND	37.3/124	PASS
FENPYROXIMATE	0.4 µg/g	ND	46.2/154	PASS	SPIROXAMINE	0.4 µg/g	ND	12.9/43	PASS
FIPRONIL	0.4 µg/g	ND	47.4/158	PASS	TEBUCONAZOLE	0.4 µg/g	ND	39.5/132	PASS
FLONICAMID	1 µg/g	ND	23.4/77.8	PASS	THIACLOPRID	0.2 µg/g	ND	16.3/54.2	PASS
FLUDIOXONIL	0.4 µg/g	ND	11.6/38.5	PASS	THIAMETHOXAM	0.2 µg/g	ND	14.4/48	PASS
HEXYTHIAZOX	1 µg/g	ND	29.7/98.9	PASS	TRIFLOXYSTROB-IN	0.2 µg/g	ND	19.7/65.6	PASS



**COL-027: TOTAL COLIFORMS // JUL 29, 2022**

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

**TYM-028: TOTAL YEAST AND MOLD // JUL 31, 2022**

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

**STEC-030: SHIGA TOXIN PRODUCING E. COLI // AUG 01, 2022**

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

**SAL-030: SALMONELLA // AUG 01, 2022**

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

**ASP-029: ASPERGILLUS SPP. // AUG 01, 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

**MET-05: HEAVY METALS ANALYSIS BY ICP-MS // JUL 29, 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	ND	0.0256/0.5	PASS
CHROMIUM	2 µg/g	0.009 µg/g	0.0274/0.5	PASS
COPPER		0.013 µg/g	0.0446/0.5	

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/kg)	PASS/FAIL
LEAD	0.5 µg/g	ND	0.0169/0.5	PASS
MERCURY	3 µg/g	0.002 µg/g	0.00439/0.05	PASS
NICKEL		0.018 µg/g	0.0271/0.5	

**SOL-04: RESIDUAL SOLVENT ANALYSIS BY GC-MS/HS // AUG 01, 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
2-METHYLPENTANE	290 µg/g	ND	0.73/2.44	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

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
ETHYL ETHER	5000 µg/g	ND	1.37/4.55	PASS
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



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

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**nūvita QUALITY RELEASE**

Sensory: N/A

Visual: N/A

Aroma: N/A

Flavor: N/A

Lab Report (COA): pass

Signature: Carlye Yach Release Date: 8-2-22

