

CERTIFICATE OF ANALYSIS

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

PRODUCED: JUL 20, 2023

SAMPLE: FULL SPECTRUM CBD SOFTGEL (211027-076-1) (EDIBLE SOLID) // CLIENT: NUVITA CBD // BATCH: **PASS**

ADD FINISHED PRODUCT REFERENCE LOT: 21081501-1



MATRIX: EDIBLE SOLID
 SAMPLE ID: CAM-230717-041
 COLLECTED ON: JUL 17, 2023
 RECEIVED ON: JUL 17, 2023
 SAMPLE SIZE: 1 UNITS
 SAMPLED BY: KAITLYN
 SERVING/PACKAGE SIZE: 0.47 G / 28.2 G

CANNABINOID OVERVIEW

CBD:	25.6 mg/srv
CBC:	1.59 mg/srv
TOTAL CANNABINOIDS:	29.2 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 // JUL 20, 2023

ANALYTE	LIMIT	AMT	AMT	LOD/LOQ (µg/g)	PASS/FAIL	ANALYTE	LIMIT	AMT	AMT	LOD/LOQ (µg/g)	PASS/FAIL
CBC		0.339 %	3.39 mg/g	0.0517/0.172	N/A	THCV		ND	ND	0.0699/0.233	N/A
CBD		5.44 %	54.4 mg/g	0.109/0.363	N/A	TOTAL THC **		0.259 %	2.59 mg/g		N/A
CBDA		ND	ND	0.142/0.474	N/A	TOTAL CBD **		5.44 %	54.4 mg/g		N/A
CBDV		0.0871 %	0.871 mg/g	0.0673/0.224	N/A	CBD/SRV		25.6 mg			N/A
CBG		0.0868 %	0.868 mg/g	0.0576/0.192	N/A	Δ ⁸ + Δ ⁹ -THC/SRV	11 mg	1.22 mg			PASS
CBGA		ND	ND	0.0328/0.109	N/A	Δ ⁸ -THC/SRV	1.1 mg	ND			PASS
CBN		ND	ND	0.0848/0.283	N/A	Δ ⁹ -THC/SRV		1.22 mg			N/A
Δ ⁸ + Δ ⁹ -THC		0.259 %	2.59 mg/g		N/A	CBD/PKG		1530 mg			N/A
Δ ⁸ -THC	10 %	ND	ND	0.0578/0.193	PASS	Δ ⁸ + Δ ⁹ -THC/PKG	220 mg	73.0 mg			PASS
Δ ⁹ -THC		0.259 %	2.59 mg/g	0.102/0.340	N/A	Δ ⁸ -THC/PKG	22 mg	ND			PASS
THCA		ND	ND	0.0883/0.294	N/A	Δ ⁹ -THC/PKG		73.0 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 // JUL 19, 2023

ANALYTE	AMT (%)	LOD/LOQ (µg/g)	PASS/FAIL	ANALYTE	AMT (%)	LOD/LOQ (µg/g)	PASS/FAIL
TOTAL TERPENES	0.087 %		N/A	CIS-NEROLIDOL	ND	0.500/1.000	N/A
TRANS-CARYOPHYLLENE	0.040 %	0.500/1.000	N/A	Δ ³ -CARENE	ND	0.500/1.000	N/A
α-BISABOLOL	0.026 %	0.500/1.000	N/A	DL-MENTHOL	ND	0.500/1.000	N/A
α-HUMULENE	0.014 %	0.500/1.000	N/A	EUCALYPTOL	ND	0.500/1.000	N/A
β-MYRCENE	0.007 %	0.500/1.000	N/A	γ-TERPINENE	ND	0.500/1.000	N/A
(+)-FENCHONE	ND	0.500/1.000	N/A	GERANYL ACETATE	ND	0.500/1.000	N/A
(1R)-ENDO-(+)-FENCHYL ALCOHOL	ND	0.500/1.000	N/A	GUAIOL	ND	0.500/1.000	N/A
α-CEDRENE	ND	0.500/1.000	N/A	ISOBORNEOL	ND	0.500/1.000	N/A
α-PHELLANDRENE	ND	0.500/1.000	N/A	ISOPULEGOL	ND	0.500/1.000	N/A
α-PINENE	ND	0.500/1.000	N/A	LIMONENE	ND	0.500/1.000	N/A
α-TERPINENE	ND	0.500/1.000	N/A	LINALOOL	ND	0.500/1.000	N/A
α-TERPINEOL	ND	0.500/1.000	N/A	PULEGONE	ND	0.500/1.000	N/A

β-PINENE	ND	0.500/1.000	N/A
BORNEOL	ND	0.500/1.000	N/A
CAMPHERE	ND	0.500/1.000	N/A
CAMPHOR	ND	0.500/1.000	N/A
CARYOPHYLLENE OXIDE	ND	0.500/1.000	N/A
CEDROL	ND	0.500/1.000	N/A
CIS-β-OCIMENE	ND	0.500/1.000	N/A

SABINENE	ND	0.500/1.000	N/A
SABINENE HYDRATE	ND	0.500/1.000	N/A
TERPINOLENE	ND	0.500/1.000	N/A
TRANS-β-OCIMENE	ND	0.500/1.000	N/A
TRANS-NEROLIDOL	ND	0.500/1.000	N/A
VALENCENE	ND	0.500/1.000	N/A

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
 JUL 20, 2023

RESULTS CERTIFIED BY: DOUGLAS SMITH
 CHIEF SCIENTIST, CAMBIUM ANALYTICA
 JUL 20, 2023



PGC-03: CHEMICAL RESIDUE ANALYSIS BY GC-MS/MS // JUL 19, 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	6.100/20.400	PASS	METHYL PARATHION	0.2 µg/g	ND	3.110/10.500	PASS

PLC-02: CHEMICAL RESIDUE ANALYSIS BY LC-MS/MS // JUL 19, 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	70.000/233.000	PASS	IMAZALIL	0.2 µg/g	ND	15.700/52.400	PASS
ACEPHATE	0.4 µg/g	ND	16.500/55.000	PASS	IMIDACLOPRID	0.4 µg/g	ND	34.400/115.000	PASS
ACEQUINOCYL	2 µg/g	ND	28.600/95.200	PASS	KRESOXIM-METHYL	0.4 µg/g	ND	12.000/40.100	PASS
ACETAMIPRID	0.2 µg/g	ND	14.700/48.900	PASS	MALATHION	0.2 µg/g	ND	15.800/52.800	PASS
ALDICARB	0.4 µg/g	ND	43.000/143.000	PASS	METALAXYL	0.2 µg/g	ND	17.800/59.300	PASS
AZOXYSTROBIN	0.2 µg/g	ND	10.600/35.400	PASS	METHIOCARB	0.2 µg/g	ND	14.000/46.800	PASS
BIFENAZATE	0.2 µg/g	ND	25.400/84.700	PASS	METHOMYL	0.4 µg/g	ND	9.560/31.900	PASS
BIFENTHRIN	0.2 µg/g	ND	14.800/49.200	PASS	MGK-264	0.2 µg/g	ND	19.500/64.900	PASS
BOSCALID	0.4 µg/g	ND	12.900/42.300	PASS	MYCLOBUTANIL	0.2 µg/g	ND	20.000/66.700	PASS
CARBARYL	0.2 µg/g	ND	12.200/40.800	PASS	NALED	0.5 µg/g	ND	23.300/77.700	PASS
CARBOFURAN	0.2 µg/g	ND	10.800/36.100	PASS	OXAMYL	1 µg/g	ND	35.700/119.000	PASS
CHLORANTRANIL-IPROLE	0.2 µg/g	ND	24.900/83.100	PASS	PACLOBUTRAZOL	0.4 µg/g	ND	36.800/123.000	PASS
CHLORPYRIFOS	0.2 µg/g	ND	25.000/83.500	PASS	PERMETHRIN	0.2 µg/g	ND	38.300/128.000	PASS
CLOFENTEZINE	0.2 µg/g	ND	20.400/68.100	PASS	PHOSMET	0.2 µg/g	ND	24.300/80.900	PASS
CYFLUTHRIN	1 µg/g	ND	39.200/131.000	PASS	PRALLETHRIN	0.2 µg/g	ND	37.700/126.000	PASS
CYPERMETHRIN	1 µg/g	ND	28.100/93.700	PASS	PROPICONAZOLE	0.4 µg/g	ND	41.100/137.000	PASS
DAMINOZIDE	1 µg/g	ND	24.200/80.800	PASS	PROPOXUR	0.2 µg/g	ND	11.800/39.300	PASS
DIAZINON	0.2 µg/g	ND	18.900/62.900	PASS	PYRETHRINS	1 µg/g	ND	20.300/67.700	PASS
DICHLORVOS	1 µg/g	ND	12.700/42.500	PASS	PYRIDABEN	0.2 µg/g	ND	26.500/88.300	PASS
DIMETHOATE	0.2 µg/g	ND	12.400/41.400	PASS	SPINOSAD	0.2 µg/g	ND	5.980/19.900	PASS
ETHOPROPHOS	0.2 µg/g	ND	19.400/64.600	PASS	SPINOSAD A		ND	6.470/21.500	N/A
ETOFENPROX	0.4 µg/g	ND	14.600/48.600	PASS	SPINOSAD D		ND	2.440/8.120	N/A
ETOXAZOLE	0.2 µg/g	ND	13.700/45.700	PASS	SPIROMESIFEN	0.2 µg/g	ND	14.800/49.400	PASS
FENOXYCARB	0.2 µg/g	ND	20.300/67.600	PASS	SPIROTETRAMAT	0.2 µg/g	ND	36.000/120.000	PASS
FENPYROXIMATE	0.4 µg/g	ND	44.600/149.000	PASS	SPIROXAMINE	0.4 µg/g	ND	12.500/41.500	PASS
FIPRONIL	0.4 µg/g	ND	45.700/152.000	PASS	TEBUCONAZOLE	0.4 µg/g	ND	38.100/127.000	PASS
FLONICAMID	1 µg/g	ND	22.500/75.100	PASS	THIACLOPRID	0.2 µg/g	ND	15.700/52.300	PASS
FLUDIOXONIL	0.4 µg/g	ND	11.200/37.200	PASS	THIAMETHOXAM	0.2 µg/g	ND	13.900/46.300	PASS
HEXYTHIAZOX	1 µg/g	ND	28.600/95.400	PASS	TRIFLOXYSTROB-IN	0.2 µg/g	ND	19.000/63.300	PASS



COL-027: TOTAL COLIFORMS // JUL 19, 2023

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

ASP-029: ASPERGILLUS SPP. // JUL 19, 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

SAL-030: SALMONELLA // JUL 19, 2023

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

STEC-030: SHIGA TOXIN PRODUCING E. COLI // JUL 19, 2023

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

TYM-014, TYM-028: TOTAL YEAST AND MOLD // JUL 20, 2023

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

MET-05: HEAVY METALS ANALYSIS BY ICP-MS // JUL 19, 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	0.015 µg/g	0.027/0.500	PASS
COPPER		0.002 µg/g	0.045/0.500	N/A

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

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

SOL-04: RESIDUAL SOLVENT ANALYSIS BY GC-MS/HS // JUL 19, 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

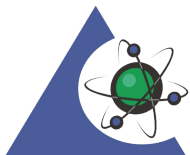
* BEYOND SCOPE OF ACCREDITATION



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, CLOFENTHIZINE, 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, METHIACARB, 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, THIAACLOPRID, 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

PRODUCT IMAGES



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

