

CERTIFICATE OF ANALYSIS

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

PRODUCED: JUL 25, 2023

SAMPLE: FULL SPECTRUM CBD BALM STICK (LOT 100145) (TOPICAL) // CLIENT: NUVITA CBD // BATCH: **PASS**

ADD FINISHED PRODUCT REFERENCE LOT: 100145



MATRIX: TOPICAL
SAMPLE ID: CAM-230721-109
COLLECTED ON: JUL 21, 2023
RECEIVED ON: JUL 21, 2023
SAMPLE SIZE: 30 G
SAMPLED BY: KAITLYN
PACKAGE SIZE: 30 G

CANNABINOID OVERVIEW

CBD:	1310 mg/pkg
CBC:	134 mg/pkg
TOTAL CANNABINOIDS:	1580 mg/pkg

BATCH RESULT: **PASS**

POTENCY	PASS
METALS	PASS
MICROBIAL	PASS
PESTICIDES	PASS
SOLVENTS	PASS
TERPENES	TESTED

POT-01: CANNABINOID POTENCY ANALYSIS BY HPLC-DAD // JUL 25, 2023

ANALYTE	LIMIT	AMT	AMT	LOD/LOQ (µg/g)	PASS/FAIL	ANALYTE	LIMIT	AMT	AMT	LOD/LOQ (µg/g)	PASS/FAIL
CBC	0.448 %	4.48 mg/g		0.0517/0.172	N/A	Δ ⁹ -THC	0.241 %	2.41 mg/g		0.102/0.340	N/A
CBD	4.38 %	43.8 mg/g		0.109/0.363	N/A	THCA		ND	ND	0.0883/0.294	N/A
CBDA	0.0691 %	0.691 mg/g		0.142/0.474	N/A	THCV		ND	ND	0.0699/0.233	N/A
CBDV	ND	ND		0.0673/0.224	N/A	TOTAL THC **	0.241 %	2.41 mg/g			N/A
CBG	0.0970 %	0.97 mg/g		0.0576/0.192	N/A	TOTAL CBD **	4.44 %	44.4 mg/g			N/A
CBGA	0.0152 %	0.152 mg/g		0.0328/0.109	N/A	CBD/PKG		1310 mg			N/A
CBN	ND	ND		0.0848/0.283	N/A	Δ⁸ + Δ⁹-THC/PKG		72.3 mg			N/A
Δ ⁸ + Δ ⁹ -THC	0.241 %	2.41 mg/g			N/A	Δ⁸-THC/PKG		ND			N/A
Δ ⁸ -THC	10 %	ND		0.0578/0.193	PASS	Δ⁹-THC/PKG		72.3 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 25, 2023

ANALYTE	AMT (%)	LOD/LOQ (µg/g)	PASS/FAIL	ANALYTE	AMT (%)	LOD/LOQ (µg/g)	PASS/FAIL
TOTAL TERPENES	2.509 %		N/A	GUAIOL	0.016 %	0.500/1.000	N/A
EUCALYPTOL	0.727 %	0.500/1.000	N/A	(+)-FENCHONE	ND	0.500/1.000	N/A
LIMONENE	0.276 %	0.500/1.000	N/A	(1R)-ENDO-(+)-FENCHYL ALCOHOL	ND	0.500/1.000	N/A
DL-MENTHOL	0.201 %	0.500/1.000	N/A	α-CEDRENE	ND	0.500/1.000	N/A
α-PINENE	0.172 %	0.500/1.000	N/A	BORNEOL	ND	0.500/1.000	N/A
LINALOOL	0.149 %	0.500/1.000	N/A	CAMPHOR	ND	0.500/1.000	N/A
TRANS-CARYOPHYLLENE	0.420 %	0.500/1.000	N/A	CARYOPHYLLENE OXIDE	ND	0.500/1.000	N/A
α-HUMULENE	0.083 %	0.500/1.000	N/A	CEDROL	ND	0.500/1.000	N/A
TRANS-β-OCIMENE	0.081 %	0.500/1.000	N/A	CIS-NEROLIDOL	ND	0.500/1.000	N/A
β-MYRCENE	0.060 %	0.500/1.000	N/A	Δ³-CARENE	ND	0.500/1.000	N/A
α-TERPINENE	0.051 %	0.500/1.000	N/A	GERANYL ACETATE	ND	0.500/1.000	N/A
SABINENE	0.051 %	0.500/1.000	N/A	ISOBORNEOL	ND	0.500/1.000	N/A
γ-TERPINENE	0.043 %	0.500/1.000	N/A	ISOPULEGOL	ND	0.500/1.000	N/A
α-BISABOLOL	0.042 %	0.500/1.000	N/A	PULEGONE	ND	0.500/1.000	N/A

β-PINENE	0.042 %	0.500/1.000	N/A	SABINENE HYDRATE	ND	0.500/1.000	N/A
α-TERPINEOL	0.026 %	0.500/1.000	N/A	TERPINOLENE	ND	0.500/1.000	N/A
α-PHELLANDRENE	0.024 %	0.500/1.000	N/A	TRANS-NEROLIDOL	ND	0.500/1.000	N/A
CIS-β-OCIMENE	0.023 %	0.500/1.000	N/A	VALENCENE	ND	0.500/1.000	N/A
CAMPHENE	0.022 %	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 25, 2023

RESULTS CERTIFIED BY: DOUGLAS SMITH
CHIEF SCIENTIST, CAMBIUM ANALYTICA
JUL 25, 2023



PGC-03: CHEMICAL RESIDUE ANALYSIS BY GC-MS/MS // JUL 25, 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	6.290/21.100	PASS	METHYL PARATHION	0.2 µg/g	ND	3.210/10.800	PASS

PLC-02: CHEMICAL RESIDUE ANALYSIS BY LC-MS/MS // JUL 25, 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	72.200/241.000	PASS	IMAZALIL	0.2 µg/g	ND	16.200/54.000	PASS
ACEPHATE	0.4 µg/g	ND	17.000/56.700	PASS	IMIDACLOPRID	0.4 µg/g	ND	35.500/118.000	PASS
ACEQUINOCYL	2 µg/g	ND	29.500/98.100	PASS	KRESOXIM-METHYL	0.4 µg/g	ND	12.400/41.300	PASS
ACETAMIPRID	0.2 µg/g	ND	15.100/50.400	PASS	MALATHION	0.2 µg/g	ND	16.300/54.500	PASS
ALDICARB	0.4 µg/g	ND	44.300/148.000	PASS	METALAXYL	0.2 µg/g	ND	18.400/61.200	PASS
AZOXYSTROBIN	0.2 µg/g	ND	10.900/36.500	PASS	METHIOCARB	0.2 µg/g	ND	14.500/48.200	PASS
BIFENAZATE	0.2 µg/g	ND	26.200/87.400	PASS	METHOMYL	0.4 µg/g	ND	9.860/32.900	PASS
BIFENTHRIN	0.2 µg/g	ND	15.200/50.700	PASS	MGK-264	0.2 µg/g	ND	20.100/67.000	PASS
BOSCALID	0.4 µg/g	ND	13.400/43.700	PASS	MYCLOBUTANIL	0.2 µg/g	ND	20.600/68.700	PASS
CARBARYL	0.2 µg/g	ND	12.600/42.100	PASS	NALED	0.5 µg/g	ND	24.000/80.100	PASS
CARBOFURAN	0.2 µg/g	ND	11.200/37.200	PASS	OXAMYL	1 µg/g	ND	36.800/123.000	PASS
CHLORANTRANIL-IPROLE	0.2 µg/g	ND	25.700/85.700	PASS	PACLOBUTRAZOL	0.4 µg/g	ND	37.900/126.000	PASS
CHLORPYRIFOS	0.2 µg/g	ND	25.800/86.100	PASS	PERMETHRIN	0.2 µg/g	ND	39.500/132.000	PASS
CLOFENTEZINE	0.2 µg/g	ND	21.100/70.300	PASS	PHOSMET	0.2 µg/g	ND	25.000/83.400	PASS
CYFLUTHRIN	1 µg/g	ND	40.500/135.000	PASS	PRALLETHRIN	0.2 µg/g	ND	38.900/130.000	PASS
CYPERMETHRIN	1 µg/g	ND	29.000/96.600	PASS	PROPICONAZOLE	0.4 µg/g	ND	42.300/141.000	PASS
DAMINOZIDE	1 µg/g	ND	25.000/83.300	PASS	PROPOXUR	0.2 µg/g	ND	12.100/40.500	PASS
DIAZINON	0.2 µg/g	ND	19.500/64.900	PASS	PYRETHRINS	1 µg/g	ND	21.000/69.800	PASS
DICHLORVOS	1 µg/g	ND	13.100/43.800	PASS	PYRIDABEN	0.2 µg/g	ND	27.300/91.100	PASS
DIMETHOATE	0.2 µg/g	ND	12.800/42.700	PASS	SPINOSAD	0.2 µg/g	ND	6.160/20.600	PASS
ETHOPROPHOS	0.2 µg/g	ND	20.000/66.600	PASS	SPINOSAD A		ND	6.680/22.200	N/A
ETOFENPROX	0.4 µg/g	ND	15.000/50.100	PASS	SPINOSAD D		ND	2.520/8.370	N/A
ETOXAZOLE	0.2 µg/g	ND	14.100/47.100	PASS	SPIROMESIFEN	0.2 µg/g	ND	15.300/51.000	PASS
FENOXYCARB	0.2 µg/g	ND	20.900/69.700	PASS	SPIROTETRAMAT	0.2 µg/g	ND	37.100/124.000	PASS
FENPYROXIMATE	0.4 µg/g	ND	46.000/153.000	PASS	SPIROXAMINE	0.4 µg/g	ND	12.800/42.800	PASS
FIPRONIL	0.4 µg/g	ND	47.200/157.000	PASS	TEBUCONAZOLE	0.4 µg/g	ND	39.300/131.000	PASS
FLONICAMID	1 µg/g	ND	23.200/77.400	PASS	THIACLOPRID	0.2 µg/g	ND	16.200/53.900	PASS
FLUDIOXONIL	0.4 µg/g	ND	11.500/38.300	PASS	THIAMETHOXAM	0.2 µg/g	ND	14.300/47.700	PASS
HEXYTHIAZOX	1 µg/g	ND	29.500/98.400	PASS	TRIFLOXYSTROB-IN	0.2 µg/g	ND	19.600/65.300	PASS



TYM-014, TYM-028: TOTAL YEAST AND MOLD // JUL 24, 2023

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

COL-027: TOTAL COLIFORMS // JUL 25, 2023

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

SAL-030: SALMONELLA // JUL 25, 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 25, 2023

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

ASP-029: ASPERGILLUS SPP. // JUL 25, 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

MET-05: HEAVY METALS ANALYSIS BY ICP-MS // JUL 24, 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	< LOQ	0.026/0.500	PASS
CHROMIUM	2 µg/g	ND	0.027/0.500	PASS
COPPER		< LOQ	0.045/0.500	N/A

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/kg)	PASS/FAIL
LEAD	0.5 µg/g	0.007 µg/g	0.017/0.500	PASS
MERCURY	3 µg/g	0.001 µg/g	0.004/0.050	PASS
NICKEL		0.004 µg/g	0.027/0.500	N/A

SOL-04: RESIDUAL SOLVENT ANALYSIS BY GC-MS/HS // JUL 25, 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

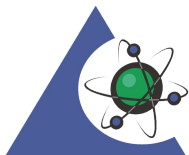
ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
ETHYL ETHER	5000 µg/g	ND	1.370/4.550	PASS
HEPTANE	5000 µg/g	ND	1.310/4.370	PASS
HEXANE	290 µg/g	ND	1.420/4.740	PASS
HEXANES ALL ISOMERS *	290 µg/g	ND		PASS
ISOBUTANE	5000 µg/g	ND	1.600/5.340	PASS
ISOPROPYL ALCOHOL	5000 µg/g	ND	4.900/16.300	PASS
METHANOL	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





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, 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

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