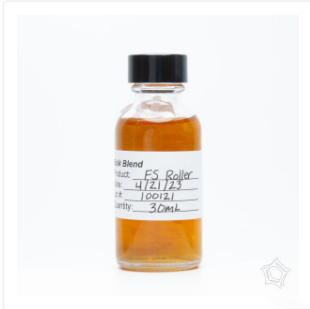


# CERTIFICATE OF ANALYSIS

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

PRODUCED: APR 27, 2023

SAMPLE: FULL SPECTRUM CBD ROLLER BLEND (100121) (TOPICAL) // CLIENT: NUVITA CBD // BATCH: **PASS**  
 REFERENCE FINISHED PRODUCT LOTS 100122, 100123



**MATRIX:** TOPICAL  
**SAMPLE ID:** CAM-230424-049  
**COLLECTED ON:** APR 24, 2023  
**RECEIVED ON:** APR 24, 2023  
**SAMPLE SIZE:** 30 ML  
**SAMPLED BY:** KAITLYN  
**SERVING/PACKAGE SIZE:** 0.94 G / 28.2 G

## CANNABINOID OVERVIEW

<b>CBD:</b>	<b>41.8 mg/srv</b>
<b>CBC:</b>	<b>3.40 mg/srv</b>
<b>TOTAL CANNABINOIDS:</b>	<b>50.7 mg/srv</b>

## BATCH RESULT: **PASS**

<b>POTENCY</b>	PASS
<b>METALS</b>	PASS
<b>MICROBIAL</b>	PASS
<b>PESTICIDES</b>	PASS
<b>SOLVENTS</b>	PASS
<b>TERPENES</b>	TESTED

## POT-01: CANNABINOID POTENCY ANALYSIS BY HPLC-DAD // APR 27, 2023

ANALYTE	LIMIT	AMT	AMT	LOD/LOQ (µg/g)	PASS/FAIL	ANALYTE	LIMIT	AMT	AMT	LOD/LOQ (µg/g)	PASS/FAIL
CBC	0.362 %	3.62 mg/g	0.0517/0.172	N/A		THCV		ND	ND	0.0699/0.233	N/A
CBD	4.45 %	44.5 mg/g	0.109/0.363	N/A		<b>TOTAL THC **</b>	0.211 %	2.11 mg/g			N/A
CBDA	0.285 %	2.85 mg/g	0.142/0.474	N/A		<b>TOTAL CBD **</b>	4.70 %	47 mg/g			N/A
CBDV	ND	ND	0.0673/0.224	N/A		<b>CBD/SRV</b>		41.8 mg			N/A
CBG	0.0774 %	0.774 mg/g	0.0576/0.192	N/A		<b>Δ<sup>8</sup> + Δ<sup>9</sup>-THC/SRV</b>		1.98 mg			N/A
CBGA	0.0113 %	0.113 mg/g	0.0328/0.109	N/A		<b>Δ<sup>8</sup>-THC/SRV</b>		ND			N/A
CBN	ND	ND	0.0848/0.283	N/A		<b>Δ<sup>9</sup>-THC/SRV</b>		1.98 mg			N/A
<b>Δ<sup>8</sup> + Δ<sup>9</sup>-THC</b>	0.211 %	2.11 mg/g		N/A		<b>CBD/PKG</b>		1250 mg			N/A
<b>Δ<sup>8</sup>-THC</b>	10 %	ND	0.0578/0.193	PASS		<b>Δ<sup>8</sup> + Δ<sup>9</sup>-THC/PKG</b>		59.5 mg			N/A
<b>Δ<sup>9</sup>-THC</b>	0.211 %	2.11 mg/g	0.102/0.340	N/A		<b>Δ<sup>8</sup>-THC/PKG</b>		ND			N/A
THCA	ND	ND	0.0883/0.294	N/A		<b>Δ<sup>9</sup>-THC/PKG</b>		59.5 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 // APR 26, 2023

ANALYTE	AMT (%)	LOD/LOQ (µg/g)	PASS/FAIL	ANALYTE	AMT (%)	LOD/LOQ (µg/g)	PASS/FAIL
<b>TOTAL TERPENES</b>	2.055 %		N/A	<b>GUAIOL</b>	0.011 %	0.500/1.000	N/A
<b>EUCALYPTOL</b>	0.542 %	0.500/1.000	N/A	<b>PULEGONE</b>	0.010 %	0.500/1.000	N/A
<b>TRANS-CARYOPHYLLENE</b>	0.309 %	0.500/1.000	N/A	<b>(1R)-ENDO-(+)-FENCHYL ALCOHOL</b>	0.007 %	0.500/1.000	N/A
<b>LIMONENE</b>	0.226 %	0.500/1.000	N/A	<b>Δ<sup>3</sup>-CARENE</b>	0.007 %	0.500/1.000	N/A
<b>DL-MENTHOL</b>	0.163 %	0.500/1.000	N/A	<b>TRANS-NEROLIDOL</b>	0.007 %	0.500/1.000	N/A
<b>α-PINENE</b>	0.149 %	0.500/1.000	N/A	<b>(+)-FENCHONE</b>	ND	0.500/1.000	N/A
<b>LINALOOL</b>	0.113 %	0.500/1.000	N/A	<b>α-CEDRENE</b>	ND	0.500/1.000	N/A
<b>TRANS-β-OCIMENE</b>	0.094 %	0.500/1.000	N/A	<b>BORNEOL</b>	ND	0.500/1.000	N/A
<b>α-HUMULENE</b>	0.059 %	0.500/1.000	N/A	<b>CAMPHOR</b>	ND	0.500/1.000	N/A
<b>β-MYRCENE</b>	0.057 %	0.500/1.000	N/A	<b>CARYOPHYLLENE OXIDE</b>	ND	0.500/1.000	N/A
<b>α-PHELLANDRENE</b>	0.049 %	0.500/1.000	N/A	<b> CEDROL</b>	ND	0.500/1.000	N/A
<b>SABINENE</b>	0.044 %	0.500/1.000	N/A	<b>CIS-NEROLIDOL</b>	ND	0.500/1.000	N/A
<b>α-TERPINENE</b>	0.043 %	0.500/1.000	N/A	<b>GERANYL ACETATE</b>	ND	0.500/1.000	N/A
<b>α-BISABOLOL</b>	0.034 %	0.500/1.000	N/A	<b>ISOBORNEOL</b>	ND	0.500/1.000	N/A
<b>β-PINENE</b>	0.034 %	0.500/1.000	N/A	<b>ISOPULEGOL</b>	ND	0.500/1.000	N/A

<b>γ-TERPINENE</b>	0.034 %	0.500/1.000	N/A
<b>CIS-β-OCIMENE</b>	0.025 %	0.500/1.000	N/A
<b>α-TERPINEOL</b>	0.020 %	0.500/1.000	N/A
<b>CAMPHENE</b>	0.018 %	0.500/1.000	N/A

<b>SABINENE HYDRATE</b>	N/A
<b>TERPINOLENE</b>	N/A
<b>VALENCENE</b>	N/A

ND	0.500/1.000	N/A
ND	0.500/1.000	N/A
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  
 APR 27, 2023

**RESULTS CERTIFIED BY:** DOUGLAS SMITH  
 CHIEF SCIENTIST, CAMBIUM ANALYTICA  
 APR 27, 2023



**PGC-03: CHEMICAL RESIDUE ANALYSIS BY GC-MS/MS // APR 26, 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	3.110/10.400	PASS

**PLC-02: CHEMICAL RESIDUE ANALYSIS BY LC-MS/MS // APR 26, 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	15.700/52.300	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	28.500/95.100	PASS	KRESOXIM-METHYL	0.4 µg/g	ND	12.000/40.000	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	42.900/143.000	PASS	METALAXYL	0.2 µg/g	ND	17.800/59.300	PASS
AZOXYSTROBIN	0.2 µg/g	ND	10.600/35.300	PASS	METHIOCARB	0.2 µg/g	ND	14.000/46.700	PASS
BIFENAZATE	0.2 µg/g	ND	25.400/84.600	PASS	METHOMYL	0.4 µg/g	ND	9.550/31.900	PASS
BIFENTHRIN	0.2 µg/g	ND	14.800/49.100	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	20.000/66.600	PASS
CARBARYL	0.2 µg/g	ND	12.200/40.700	PASS	NALED	0.5 µg/g	ND	23.300/77.600	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	24.900/83.000	PASS	PACLOBUTRAZOL	0.4 µg/g	ND	36.700/122.000	PASS
CHLORPYRIFOS	0.2 µg/g	ND	25.000/83.400	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	24.200/80.800	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	28.100/93.600	PASS	PROPICONAZOLE	0.4 µg/g	ND	41.000/137.000	PASS
DAMINOZIDE	1 µg/g	ND	24.200/80.700	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	20.300/67.600	PASS
DICHLORVOS	1 µg/g	ND	12.700/42.400	PASS	PYRIDABEN	0.2 µg/g	ND	26.500/88.200	PASS
DIMETHOATE	0.2 µg/g	ND	12.400/41.400	PASS	SPINOSAD	0.2 µg/g	ND	5.970/19.900	PASS
ETHOPROPHOS	0.2 µg/g	ND	19.400/64.500	PASS	SPINOSAD A		ND	6.470/21.500	N/A
ETOFENPROX	0.4 µg/g	ND	14.600/48.500	PASS	SPINOSAD D		ND	2.440/8.110	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	20.200/67.500	PASS	SPIROTETRAMAT	0.2 µg/g	ND	36.000/120.000	PASS
FENPYROXIMATE	0.4 µg/g	ND	44.500/148.000	PASS	SPIROXAMINE	0.4 µg/g	ND	12.400/41.500	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	22.500/75.000	PASS	THIACLOPRID	0.2 µg/g	ND	15.700/52.200	PASS
FLUDIOXONIL	0.4 µg/g	ND	11.100/37.100	PASS	THIAMETHOXAM	0.2 µg/g	ND	13.900/46.200	PASS
HEXYTHIAZOX	1 µg/g	ND	28.600/95.300	PASS	TRIFLOXYSTROB-IN	0.2 µg/g	ND	19.000/63.200	PASS



**COL-027: TOTAL COLIFORMS // APR 26, 2023**

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

**SAL-030: SALMONELLA // APR 26, 2023**

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

**STEC-030: SHIGA TOXIN PRODUCING E. COLI // APR 26, 2023**

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

**ASP-029: ASPERGILLUS SPP. // APR 26, 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-014, TYM-028: TOTAL YEAST AND MOLD // APR 27, 2023**

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

**MET-05: HEAVY METALS ANALYSIS BY ICP-MS // APR 25, 2023**

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/kg)	PASS/FAIL
ARSENIC	1.5 µg/g	0.010 µg/g	0.045/0.500	PASS
CADMIUM	0.5 µg/g	0.002 µg/g	0.026/0.500	PASS
CHROMIUM	2 µg/g	0.068 µg/g	0.027/0.500	PASS
COPPER		0.072 µg/g	0.045/0.500	N/A

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/kg)	PASS/FAIL
LEAD	0.5 µg/g	0.004 µg/g	0.017/0.500	PASS
MERCURY	3 µg/g	0.002 µg/g	0.004/0.050	PASS
NICKEL		0.016 µg/g	0.027/0.500	N/A

**SOL-04: RESIDUAL SOLVENT ANALYSIS BY GC-MS/HS // APR 26, 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

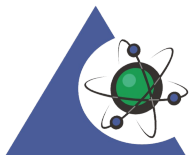
ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
ETHYL ETHER	5000 µg/g	ND	1.370/4.550	PASS
HEPTANE	5000 µg/g	ND	1.310/4.370	PASS
HEXANE	290 µg/g	ND	1.420/4.740	PASS
HEXANES ALL ISOMERS *	290 µg/g	ND		PASS
ISOBUTANE	5000 µg/g	ND	1.600/5.340	PASS
ISOPROPYL ALCOHOL	5000 µg/g	ND	4.900/16.300	PASS
METHANOL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

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

