

CERTIFICATE OF ANALYSIS

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

PRODUCED: JUN 21, 2021

SAMPLE: CBG INFUSED FULL SPECTRUM 15921-1 (TINCTURE) // **CLIENT:** NUVITA CBD // **BATCH:** PASS
1500 MG CBD / 500 MG CBG



MATRIX: TINCTURE
CATEGORY: EDIBLE
SAMPLE ID: CAM-210616-090
COLLECTED ON: JUN 16, 2021
RECEIVED ON: JUN 16, 2021
BATCH/SAMPLE SIZE: 60 ML / 60 ML
SERVING/PACKAGE SIZE: .94 G / 56.4 G

CANNABINOID OVERVIEW

CBD:	27.07 mg/srv
CBG:	9.78 mg/srv
TOTAL CANNABINOIDS:	40.49 mg/srv

BATCH RESULT: PASS

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

POT-01: CANNABINOID POTENCY ANALYSIS BY HPLC-DAD // JUN 18, 2021

ANALYTE	AMT (%)	LOD/LOQ (µg/g)	PASS/FAIL	ANALYTE	AMT (%)	LOD/LOQ (µg/g)	PASS/FAIL
CBC	0.188 %	0.0517/0.172	N/A	THCA	ND	0.0883/0.294	N/A
CBD	2.88 %	0.109/0.363	N/A	THCV	ND	0.0699/0.233	N/A
CBDA	ND	0.142/0.474	N/A	TOTAL THC *	0.199 %		N/A
CBDV	ND	0.0673/0.224	N/A	TOTAL CBD *	2.88 %		N/A
CBG	1.04 %	0.0576/0.192	N/A	CBD/SRV	27.1 mg		N/A
CBGA	ND	0.0328/0.109	N/A	Δ⁹-THC/SRV	1.87 mg		PASS
CBN	ND	0.0848/0.283	N/A	CBD/PKG	1620 mg		N/A
Δ ⁹ -THC	ND	0.0578/0.193	N/A	Δ⁹-THC/PKG	112 mg		PASS
Δ ⁹ -THC	0.199 %	0.102/0.34	N/A				

* BEYOND SCOPE OF ACCREDITATION
** TOTAL THC = (THCA X 0.877) + THC
** TOTAL CBD = (CBDA X 0.877) + CBD

TRP-013: TERPENE ANALYSIS BY GC-MS/HS // JUN 21, 2021

ANALYTE	AMT (%)	LOD/LOQ (µg/g)	PASS/FAIL	ANALYTE	AMT (%)	LOD/LOQ (µg/g)	PASS/FAIL
TOTAL TERPENES *	0.425 %		N/A	SABINENE	ND	0.5/1	N/A
TRANS-CARYOPHYLLENE	0.179 %	0.5/1	N/A	TERPINOLENE	ND	0.5/1	N/A
α-BISABOLOL	0.097 %	0.5/1	N/A	TRANS-β-OCIMENE	ND	0.5/1	N/A
α-HUMULENE	0.048 %	0.5/1	N/A	ISOPULEGOL	ND	0.5/1	N/A
GUAJOL	0.029 %	0.5/1	N/A	Δ³-CARENE	ND	0.5/1	N/A
TRANS-NEROLIDOL	0.027 %	0.5/1	N/A	ISOBORNEOL	ND	0.5/1	N/A
β-MYRCENE	0.015 %	0.5/1	N/A	GERANYL ACETATE	ND	0.5/1	N/A
CIS-NEROLIDOL	0.008 %	0.5/1	N/A	γ-TERPINENE	ND	0.5/1	N/A
α-CEDRENE	0.007 %	0.5/1	N/A	EUCALYPTOL	ND	0.5/1	N/A
(1R)-ENDO-(+)-FENCHYL ALCOHOL	0.006 %	0.5/1	N/A	CARYOPHYLLENE OXIDE	ND	0.5/1	N/A
LIMONENE	0.004 %	0.5/1	N/A	CAMPHOR	ND	0.5/1	N/A
CEDROL	0.003 %	0.5/1	N/A	CAMPHENE	ND	0.5/1	N/A
CIS-β-OCIMENE	0.001 %	0.5/1	N/A	β-PINENE	ND	0.5/1	N/A
LINALOOL *	0.001 %	0.5/1	N/A	α-TERPINENE	ND	0.5/1	N/A
(+)-FENCHONE	ND	0.5/1	N/A	α-PINENE	ND	0.5/1	N/A
SABINENE HYDRATE	ND	0.5/1	N/A	α-PHELLANDRENE	ND	0.5/1	N/A
PULEGONE	ND	0.5/1	N/A	VALENCENE	ND	0.5/1	N/A



RESULTS CERTIFIED BY: XIN YAN
LABORATORY DIRECTOR, CAMBIUM ANALYTICA
JUN 21, 2021

Xin Yan

RESULTS CERTIFIED BY: DOUGLAS SMITH
CHIEF SCIENTIST, CAMBIUM ANALYTICA
JUN 21, 2021

Douglas Smith



PGC-03: CHEMICAL RESIDUE ANALYSIS BY GC-MS/MS // JUN 18, 2021

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	6.07/20.3	PASS	METHYL PARATHION	0.2 µg/g	ND	3.1/10.4	PASS

PLC-02: CHEMICAL RESIDUE ANALYSIS BY LC-MS/MS // JUN 21, 2021

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	69.7/232	PASS	IMAZALIL	0.2 µg/g	ND	15.6/52.1	PASS
ACEPHATE	0.4 µg/g	ND	16.4/54.7	PASS	IMIDACLOPRID	0.4 µg/g	ND	34.2/114	PASS
ACEQUINOCYL	2 µg/g	ND	28.4/94.7	PASS	KRESOXIM-METHYL	0.4 µg/g	ND	12/39.9	PASS
ACETAMIPRID	0.2 µg/g	ND	14.6/48.7	PASS	MALATHION	0.2 µg/g	ND	15.8/52.6	PASS
ALDICARB	0.4 µg/g	ND	42.8/143	PASS	METALAXYL	0.2 µg/g	ND	17.7/59	PASS
AZOXYSTROBIN	0.2 µg/g	ND	10.6/35.2	PASS	METHIOCARB	0.2 µg/g	ND	14/46.6	PASS
BIFENAZATE	0.2 µg/g	ND	25.3/84.3	PASS	METHOMYL	0.4 µg/g	ND	9.51/31.7	PASS
BIFENTHRIN	0.2 µg/g	ND	14.7/48.9	PASS	MGK-264	0.2 µg/g	ND	19.4/64.6	PASS
BOSCALID	0.4 µg/g	ND	12.9/42.1	PASS	MYCLOBUTANIL	0.2 µg/g	ND	19.9/66.3	PASS
CARBARYL	0.2 µg/g	ND	12.2/40.6	PASS	NALED	0.5 µg/g	ND	23.2/77.3	PASS
CARBOFURAN	0.2 µg/g	ND	10.8/35.9	PASS	OXAMYL	1 µg/g	ND	35.6/118	PASS
CHLORANTRANIL-IPROLE	0.2 µg/g	ND	24.8/82.7	PASS	PACLOBUTRAZOL	0.4 µg/g	ND	36.6/122	PASS
CHLORFENAPYR	1 µg/g	ND	12.1/40.6	PASS	PERMETHRIN	0.2 µg/g	ND	38.1/127	PASS
CHLORPYRIFOS	0.2 µg/g	ND	24.9/83.1	PASS	PHOSMET	0.2 µg/g	ND	24.1/80.5	PASS
CLOFENTEZINE	0.2 µg/g	ND	20.3/67.8	PASS	PRALLETHRIN	0.2 µg/g	ND	37.5/125	PASS
CYFLUTHRIN	1 µg/g	ND	39/130	PASS	PROPICONAZOLE	0.4 µg/g	ND	40.9/136	PASS
CYPERMETHRIN	1 µg/g	ND	27.9/93.2	PASS	PROPOXUR	0.2 µg/g	ND	11.7/39.1	PASS
DAMINOZIDE	1 µg/g	ND	24.1/80.4	PASS	PYRETHRINS	1 µg/g	ND	20.2/67.4	PASS
DIAZINON	0.2 µg/g	ND	18.8/62.6	PASS	PYRIDABEN	0.2 µg/g	ND	26.4/87.9	PASS
DICHLORVOS	1 µg/g	ND	12.7/42.2	PASS	SPINOSAD	0.2 µg/g	ND	5.95/19.8	PASS
DIMETHOATE	0.2 µg/g	ND	12.4/41.2	PASS	SPINOSAD A		ND	6.44/21.4	N/A
ETHOPROPHOS	0.2 µg/g	ND	19.3/64.2	PASS	SPINOSAD D		ND	2.43/8.08	N/A
ETOFENPROX	0.4 µg/g	ND	14.5/48.3	PASS	SPIROMESIFEN	0.2 µg/g	ND	14.7/49.2	PASS
ETOXAZOLE	0.2 µg/g	ND	13.7/45.5	PASS	SPIROTETRAMAT	0.2 µg/g	ND	35.8/119	PASS
FENOXYCARB	0.2 µg/g	ND	20.2/67.2	PASS	SPIROXAMINE	0.4 µg/g	ND	12.4/41.3	PASS
FENPYROXIMATE	0.4 µg/g	ND	44.4/148	PASS	TEBUCONAZOLE	0.4 µg/g	ND	38/127	PASS
FIPRONIL	0.4 µg/g	ND	45.5/152	PASS	THIACLOPRID	0.2 µg/g	ND	15.6/52	PASS
FLONICAMID	1 µg/g	ND	22.4/74.7	PASS	THIAMETHOXAM	0.2 µg/g	ND	13.8/46.1	PASS
FLUDIOXONIL	0.4 µg/g	ND	11.1/37	PASS	TRIFLOXYSTROB-IN	0.2 µg/g	ND	18.9/63	PASS
HEXYTHIAZOX	1 µg/g	ND	28.5/94.9	PASS					



MIC-06: MICROBIAL SCREENING BY QPCR // JUN 18, 2021

ANALYTE	LIMIT	AMT (CFU/g)	PASS/FAIL
COLIFORMS	100 CFU/g	ND	N/A
ASPERGILLUS NIGER	Any amount in 1 gram	ND	N/A
ASPERGILLUS FLAVUS	Any amount in 1 gram	ND	N/A
SALMONELLA BONGORI	Any amount in 1 gram	ND	N/A

ANALYTE	LIMIT	AMT (CFU/g)	PASS/FAIL
ASPERGILLUS TERREUS	Any amount in 1 gram	ND	N/A
SALMONELLA ENTERICA	Any amount in 1 gram	ND	N/A
ASPERGILLUS FUMIGATUS	Any amount in 1 gram	ND	N/A
SHIGA TOXIN-PRODUCING E. COLI	Any amount in 1 gram	ND	N/A

: TYM BY 3M PETRIFILM RYM // JUN 21, 2021

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

MET-05: HEAVY METALS ANALYSIS BY ICP-MS // JUN 18, 2021

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	0.001 µg/g	0.0256/0.5	PASS
CHROMIUM	2 µg/g	0.063 µg/g	0.0274/0.5	PASS
COPPER		0.880 µg/g	0.0446/0.5	N/A

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/kg)	PASS/FAIL
LEAD	0.5 µg/g	0.147 µg/g	0.0169/0.5	PASS
MERCURY	3 µg/g	0.001 µg/g	0.00439/0.05	PASS
NICKEL		0.024 µg/g	0.0271/0.5	N/A

SOL-04: RESIDUAL SOLVENT ANALYSIS BY GC-MS // JUN 18, 2021

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
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
ETHYL ETHER	5000 µg/g	ND	1.37/4.55	PASS

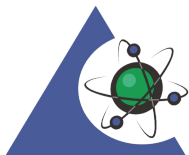
ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
HEPTANE	5000 µg/g	ND	1.31/4.37	PASS
HEXANE	290 µg/g	ND	1.42/4.74	PASS
HEXANES ALL ISOMERS *	290 µg/g	ND		PASS
ISOBUTANE	5000 µg/g	ND	1.6/5.34	PASS
ISOPROPYL ALCOHOL	5000 µg/g	ND	4.9/16.3	PASS
METHANOL	3000 µg/g	ND	7.89/26.4	PASS
METHYLENE CHLORIDE	600 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, 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

POT-01: CANNABINOID POTENCY ANALYSIS BY HPLC-DAD

CBD, CBDA, DELTA-9-THC, THCA, CBDV, THCV, CBG, CBGA, CBN, DELTA-8-THC, CBC

TRP-013: TERPENE ANALYSIS BY GC-MS/HS

(+)-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

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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