

# CERTIFICATE OF ANALYSIS

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

PRODUCED: MAR 10, 2022

SAMPLE: PET FORMULA 6222 (TINCTURE) // CLIENT: NUVITA CBD // BATCH: PASS



**MATRIX:** TINCTURE  
**SAMPLE ID:** CAM-220307-063  
**COLLECTED ON:** MAR 06, 2022  
**RECEIVED ON:** MAR 06, 2022  
**SAMPLE SIZE:** 4 UNITS  
**SAMPLED BY:** HANNAH HARDY  
**RECEIVED BY:** HANNAH HARDY  
**SERVING/PACKAGE SIZE:** 0.94 G / 28.2 G

## CANNABINOID OVERVIEW

**CBD:** 12.22 mg/srv  
**CBC:** 0.27 mg/srv  
**TOTAL CANNABINOIDS:** 12.71 mg/srv

## BATCH RESULT: PASS

**POTENCY:** PASS  
**METALS:** PASS  
**MICROBIAL:** PASS  
**PESTICIDES:** PASS  
**TERPENES:** TESTED

## POT-01: CANNABINOID POTENCY ANALYSIS BY HPLC-DAD // MAR 10, 2022

ANALYTE	LIMIT	AMT	AMT	LOD/LOQ (µg/g)	PASS/FAIL	ANALYTE	LIMIT	AMT	AMT	LOD/LOQ (µg/g)	PASS/FAIL
CBC	0.0282 %	0.282 mg/g	0.0517/0.172	ND	PASS	THCV		ND	ND	0.0699/0.233	PASS
CBD	1.30 %	13 mg/g	0.109/0.363	ND	PASS	TOTAL THC **	0.0234 %	0.234 mg/g			PASS
CBDA	ND	ND	0.142/0.474	ND	PASS	TOTAL CBD **	1.30 %	13 mg/g			PASS
CBDV	ND	ND	0.0673/0.224	ND	PASS	CBD/SRV		12.2 mg			PASS
CBG	ND	ND	0.0576/0.192	ND	PASS	Δ <sup>8</sup> + Δ <sup>9</sup> -THC/SRV	0.220 mg				PASS
CBGA	ND	ND	0.0328/0.109	ND	PASS	Δ <sup>8</sup> -THC/SRV	ND				PASS
CBN	ND	ND	0.0848/0.283	ND	PASS	Δ <sup>9</sup> -THC/SRV	0.220 mg				
Δ <sup>8</sup> + Δ <sup>9</sup> -THC	0.0234 %	0.234 mg/g		ND	PASS	CBD/PKG	367 mg				
Δ <sup>8</sup> -THC	10 %	ND	0.0578/0.193	ND	PASS	Δ <sup>8</sup> + Δ <sup>9</sup> -THC/PKG	6.60 mg				PASS
Δ <sup>9</sup> -THC	0.0234 %	0.234 mg/g	0.102/0.34	ND	PASS	Δ <sup>8</sup> -THC/PKG	ND				PASS
THCA	ND	ND	0.0883/0.294	ND	PASS	Δ <sup>9</sup> -THC/PKG	6.60 mg				

\*\* 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 // MAR 09, 2022

ANALYTE	AMT (%)	LOD/LOQ (µg/g)	PASS/FAIL	ANALYTE	AMT (%)	LOD/LOQ (µg/g)	PASS/FAIL
TOTAL TERPENES *	0.058 %		PASS	(+)-FENCHONE	ND	0.5/1	PASS
TRANS-CARYOPHYLLENE	0.033 %	0.5/1	PASS	Δ <sup>3</sup> -CARENE	ND	0.5/1	PASS
α-HUMULENE	0.009 %	0.5/1	PASS	γ-TERPINENE	ND	0.5/1	PASS
β-MYRCENE	0.004 %	0.5/1	PASS	EUCALYPTOL	ND	0.5/1	PASS
CIS-β-OCIMENE	0.004 %	0.5/1	PASS	(1R)-ENDO-(+)-FENCHYL ALCOHOL	ND	0.5/1	PASS
LIMONENE	0.002 %	0.5/1	PASS	CIS-NEROLIDOL	ND	0.5/1	PASS
ISOBORNEOL	0.002 %	0.5/1	PASS	CEDROL	ND	0.5/1	PASS
GUAIOL	0.002 %	0.5/1	PASS	CARYOPHYLLENE OXIDE	ND	0.5/1	PASS
TRANS-NEROLIDOL	0.002 %	0.5/1	PASS	CAMPHOR	ND	0.5/1	PASS
SABINENE HYDRATE	ND	0.5/1	PASS	CAMPHERE	ND	0.5/1	PASS
GERANYL ACETATE	ND	0.5/1	PASS	β-PINENE	ND	0.5/1	PASS
SABINENE	ND	0.5/1	PASS	α-TERPINENE	ND	0.5/1	PASS
PULEGONE	ND	0.5/1	PASS	α-PINENE	ND	0.5/1	PASS
LINALOOL *	ND	0.5/1	PASS	α-PHELLANDRENE	ND	0.5/1	PASS
TERPINOLENE	ND	0.5/1	PASS	α-CEDRENE	ND	0.5/1	PASS
ISOPULEGOL	ND	0.5/1	PASS	α-BISABOLOL	ND	0.5/1	PASS
TRANS-β-OCIMENE	ND	0.5/1	PASS	VALENCENE	ND	0.5/1	PASS

\* BEYOND SCOPE OF ACCREDITATION



**RESULTS CERTIFIED BY:** XIN YAN  
LABORATORY DIRECTOR, CAMBIUM ANALYTICA  
MAR 10, 2022

*Xin Yan*

**RESULTS CERTIFIED BY:** DOUGLAS SMITH  
CHIEF SCIENTIST, CAMBIUM ANALYTICA  
MAR 10, 2022

*Douglas Smith*



PGC-03: CHEMICAL RESIDUE ANALYSIS BY GC-MS/MS // MAR 09, 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	6.31/21.1	PASS	METHYL PARATHION	0.2 µg/g	ND	3.22/10.8	PASS

PLC-02: CHEMICAL RESIDUE ANALYSIS BY LC-MS/MS // MAR 09, 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	72.5/242	PASS	IMAZALIL	0.2 µg/g	ND	16.3/54.2	PASS
ACEPHATE	0.4 µg/g	ND	17.1/56.9	PASS	IMIDACLOPRID	0.4 µg/g	ND	35.6/119	PASS
ACEQUINOCYL	2 µg/g	ND	29.5/98.5	PASS	KRESOXIM-	0.4 µg/g	ND	12.4/41.4	PASS
ACETAMIPRID	0.2 µg/g	ND	15.2/50.6	PASS	METHYL				
ALDICARB	0.4 µg/g	ND	44.5/148	PASS	MALATHION	0.2 µg/g	ND	16.4/54.6	PASS
AZOXYSTROBIN	0.2 µg/g	ND	11/36.6	PASS	METALAXYL	0.2 µg/g	ND	18.4/61.4	PASS
BIFENAZATE	0.2 µg/g	ND	26.3/87.6	PASS	METHIOCARB	0.2 µg/g	ND	14.5/48.4	PASS
BIFENTHRIN	0.2 µg/g	ND	15.3/50.9	PASS	METHOMYL	0.4 µg/g	ND	9.89/33	PASS
BOSCALID	0.4 µg/g	ND	13.4/43.8	PASS	MGK-264	0.2 µg/g	ND	20.1/67.2	PASS
CARBARYL	0.2 µg/g	ND	12.6/42.2	PASS	MYCLOBUTANIL	0.2 µg/g	ND	20.7/69	PASS
CARBOFURAN	0.2 µg/g	ND	11.2/37.4	PASS	NALED	0.5 µg/g	ND	24.1/80.4	PASS
CHLORANTRANIL-IPROLE	0.2 µg/g	ND	25.8/86	PASS	OXAMYL	1 µg/g	ND	37/123	PASS
CHLORFENAPYR	1 µg/g	ND	12.6/42.2	PASS	PACLOBUTRAZOL	0.4 µg/g	ND	38/127	PASS
CHLORPYRIFOS	0.2 µg/g	ND	25.9/86.3	PASS	PERMETHRIN	0.2 µg/g	ND	39.6/132	PASS
CLOFENTEZINE	0.2 µg/g	ND	21.1/70.5	PASS	PHOSMET	0.2 µg/g	ND	25.1/83.6	PASS
CYFLUTHRIN	1 µg/g	ND	40.6/135	PASS	PRALLETHRIN	0.2 µg/g	ND	39/130	PASS
CYPERMETHRIN	1 µg/g	ND	29.1/96.9	PASS	PROPICONAZOLE	0.4 µg/g	ND	42.5/142	PASS
DAMINOZIDE	1 µg/g	ND	25.1/83.6	PASS	PROPOXUR	0.2 µg/g	ND	12.2/40.6	PASS
DIAZINON	0.2 µg/g	ND	19.5/65.1	PASS	PYRETHRINS	1 µg/g	ND	21/70	PASS
DICHLORVOS	1 µg/g	ND	13.2/43.9	PASS	PYRIDABEN	0.2 µg/g	ND	27.4/91.4	PASS
DIMETHOATE	0.2 µg/g	ND	12.9/42.8	PASS	SPINOSAD	0.2 µg/g	ND	6.18/20.6	PASS
ETHOPROPHOS	0.2 µg/g	ND	20/66.8	PASS	SPINOSAD A		ND	6.7/22.3	
ETOFENPROX	0.4 µg/g	ND	15.1/50.3	PASS	SPINOSAD D		ND	2.52/8.4	
ETOXAZOLE	0.2 µg/g	ND	14.2/47.3	PASS	SPIROMESIFEN	0.2 µg/g	ND	15.3/51.1	PASS
FENOXYCARB	0.2 µg/g	ND	21/69.9	PASS	SPIROTETRAMAT	0.2 µg/g	ND	37.2/124	PASS
FENPYROXIMATE	0.4 µg/g	ND	46.1/154	PASS	SPIROXAMINE	0.4 µg/g	ND	12.9/42.9	PASS
FIPRONIL	0.4 µg/g	ND	47.3/158	PASS	TEBUCONAZOLE	0.4 µg/g	ND	39.5/132	PASS
FLONICAMID	1 µg/g	ND	23.3/77.7	PASS	THIACLOPRID	0.2 µg/g	ND	16.2/54.1	PASS
FLUDIOXONIL	0.4 µg/g	ND	11.5/38.4	PASS	THIAMETHOXAM	0.2 µg/g	ND	14.4/47.9	PASS
HEXYTHIAZOX	1 µg/g	ND	29.6/98.7	PASS	TRIFLOXYSTROB-IN	0.2 µg/g	ND	19.7/65.5	PASS





**COL-027: TOTAL COLIFORMS // MAR 08, 2022**

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

**STEC-030: SHIGA TOXIN PRODUCING E. COLI // MAR 09, 2022**

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

**SAL-030: SALMONELLA // MAR 09, 2022**

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

**ASP-029: ASPERGILLUS SPP. // MAR 09, 2022**

ANALYTE	LIMIT	AMT (CFU/g)	PASS/FAIL	ANALYTE	LIMIT	AMT (CFU/g)	PASS/FAIL
ASPERGILLUS FLAVUS	Any amount in 1 gram	ND	PASS	ASPERGILLUS SPP.	Any amount in 1 gram	ND	PASS
ASPERGILLUS FUMIGATUS	Any amount in 1 gram	ND	PASS	ASPERGILLUS TERREUS	Any amount in 1 gram	ND	PASS
ASPERGILLUS NIGER	Any amount in 1 gram	ND	PASS				

**TYM-028: TOTAL YEAST AND MOLD // MAR 10, 2022**

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

**MET-05: HEAVY METALS ANALYSIS BY ICP-MS // MAR 08, 2022**

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/kg)	PASS/FAIL	ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/kg)	PASS/FAIL
ARSENIC	1.5 µg/g	ND	0.0448/0.5	PASS	LEAD	0.5 µg/g	0.004 µg/g	0.0169/0.5	PASS
CADMIUM	0.5 µg/g	ND	0.0256/0.5	PASS	MERCURY	3 µg/g	ND	0.00439/0.05	PASS
CHROMIUM	2 µg/g	0.005 µg/g	0.0274/0.5	PASS	NICKEL		0.002 µg/g	0.0271/0.5	
COPPER		ND	0.0446/0.5						

**ACCREDITATIONS**



**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, THIAACLOPRID, THIAMETHOXAM, TRIFLOXYSTROBIN

**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

**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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**nūvita QUALITY RELEASE**

Sensory: pass  
 Visual: pass  
 Aroma: pass  
 Flavor: pass

Lab Report (COA): pass

Signature: Carly York Release Date: 3.11.22

