

CERTIFICATE OF ANALYSIS

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

PRODUCED: SEP 30, 2022

SAMPLE: CLOUD 9 CITRUS BULK 22222-2 (INDUSTRIAL HEMP) // CLIENT: NUVITA CBD // BATCH: PASS
REFERENCE FINISHED PRODUCT LOTS 100023 (1-99), 100024 (1-99)



MATRIX: INDUSTRIAL HEMP
SAMPLE ID: CAM-220927-072
COLLECTED ON: SEP 26, 2022
RECEIVED ON: SEP 26, 2022
SAMPLE SIZE: 22.4 G
SAMPLED BY: HANNAH HARDY
RECEIVED BY: HANNAH HARDY

CANNABINOID OVERVIEW

CBDA: 14.5 %
CBD: 1.13 %
TOTAL CANNABINOIDS: 16.24 %

BATCH RESULT: PASS

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

POT-01: CANNABINOID POTENCY ANALYSIS BY HPLC-DAD // SEP 29, 2022

ANALYTE	LIMIT	AMT	AMT	LOD/LOQ (µg/g)	PASS/FAIL	ANALYTE	LIMIT	AMT	AMT	LOD/LOQ (µg/g)	PASS/FAIL
CBC		ND	ND	0.0517/0.172		Δ ⁸ + Δ ⁹ -THC		0.0428 %	0.428 mg/g		
CBD	1.13 %	11.3 mg/g		0.109/0.363		Δ ⁸ -THC	10 %	ND	ND	0.0578/0.193	PASS
CBDA	14.5 %	145 mg/g		0.142/0.474		Δ ⁹ -THC		0.0428 %	0.428 mg/g	0.102/0.340	
CBDV		ND		0.0673/0.224		THCA		0.293 %	2.93 mg/g	0.0883/0.294	
CBG	0.00922 %	0.0922 mg/g		0.0576/0.192		THCV		ND	ND	0.0699/0.233	
CBGA	0.269 %	2.69 mg/g		0.0328/0.109		TOTAL THC **		0.300 %	3 mg/g		
CBN		ND		0.0848/0.283		TOTAL CBD **		13.8 %	138 mg/g		

** 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 // SEP 30, 2022

ANALYTE	AMT (%)	LOD/LOQ (µg/g)	PASS/FAIL	ANALYTE	AMT (%)	LOD/LOQ (µg/g)	PASS/FAIL
TOTAL TERPENES *	1.511 %			CAMPHENE	ND	0.500/1.000	
β-MYRCENE	0.815 %	0.500/1.000		CAMPHOR	ND	0.500/1.000	
CIS-β-OCIMENE	0.191 %	0.500/1.000		CARYOPHYLLENE OXIDE	ND	0.500/1.000	
LIMONENE	0.107 %	0.500/1.000		CIS-NEROLIDOL	ND	0.500/1.000	
GUAIOL	0.091 %	0.500/1.000		Δ ³ -CARENE	ND	0.500/1.000	
α-PINENE	0.078 %	0.500/1.000		EUCALYPTOL	ND	0.500/1.000	
α-BISABOLOL	0.059 %	0.500/1.000		γ-TERPINENE	ND	0.500/1.000	
TRANS-CARYOPHYLLENE	0.053 %	0.500/1.000		GERANYL ACETATE	ND	0.500/1.000	
LINALOOL *	0.037 %	0.500/1.000		ISOBORNEOL	ND	0.500/1.000	
β-PINENE	0.027 %	0.500/1.000		ISOPULEGOL	ND	0.500/1.000	
CEDROL	0.019 %	0.500/1.000		PULEGONE	ND	0.500/1.000	
1R)-ENDO-(+)-FENCHYL ALCOHOL	0.017 %	0.500/1.000		SABINENE	ND	0.500/1.000	
1-HUMULENE	0.017 %	0.500/1.000		SABINENE HYDRATE	ND	0.500/1.000	
1)-FENCHONE	ND	0.500/1.000		TERPINOLENE	ND	0.500/1.000	
1-CEDRENE	ND	0.500/1.000		TRANS-β-OCIMENE	ND	0.500/1.000	
1-PHELLANDRENE	ND	0.500/1.000		TRANS-NEROLIDOL	ND	0.500/1.000	
1-TERPINENE	ND	0.500/1.000		VALENCENE	ND	0.500/1.000	

BEYOND SCOPE OF ACCREDITATION

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 ELLONE
LABORATORY DIRECTOR, CAMBIUM ANALYTICA
SEP 30, 2022

RESULTS CERTIFIED BY: DOUGLAS SMITH
CHIEF SCIENTIST, CAMBIUM ANALYTICA
SEP 30, 2022



PGC-03: CHEMICAL RESIDUE ANALYSIS BY GC-MS/MS // SEP 29, 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	6.340/21.200	PASS	METHYL PARATHION	0.2 µg/g	ND	3.230/10.900	PASS

PLC-02: CHEMICAL RESIDUE ANALYSIS BY LC-MS/MS // SEP 29, 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	72.800/243.000	PASS	IMAZALIL	0.2 µg/g	ND	16.300/54.400	PASS
ACEPHATE	0.4 µg/g	ND	17.200/57.200	PASS	IMIDACLOPRID	0.4 µg/g	ND	35.800/119.000	PASS
ACEQUINOCYL	2 µg/g	ND	29.700/98.900	PASS	KRESOXIM-	0.4 µg/g	ND	12.500/41.600	PASS
ACETAMIPRID	0.2 µg/g	ND	15.200/50.800	PASS	METHYL				
ALDICARB	0.4 µg/g	ND	44.700/149.000	PASS	MALATHION	0.2 µg/g	ND	16.500/54.900	PASS
AZOXYSTROBIN	0.2 µg/g	ND	11.000/36.800	PASS	METALAXYL	0.2 µg/g	ND	18.500/61.700	PASS
BIFENAZATE	0.2 µg/g	ND	26.400/88.000	PASS	METHIOCARB	0.2 µg/g	ND	14.600/48.600	PASS
BIFENTHRIN	0.2 µg/g	ND	15.300/51.100	PASS	METHOMYL	0.4 µg/g	ND	9.940/33.100	PASS
BOSCALID	0.4 µg/g	ND	13.500/44.000	PASS	MGK-264	0.2 µg/g	ND	20.200/67.500	PASS
CARBARYL	0.2 µg/g	ND	12.700/42.400	PASS	MYCLOBUTANIL	0.2 µg/g	ND	20.800/69.300	PASS
CARBOFURAN	0.2 µg/g	ND	11.300/37.500	PASS	NALED	0.5 µg/g	ND	24.200/80.800	PASS
CHLORANTRANIL-IPROLE	0.2 µg/g	ND	25.900/86.400	PASS	OXAMYL	1 µg/g	ND	37.100/124.000	PASS
CHLORPYRIFOS	0.2 µg/g	ND	26.000/86.700	PASS	PACLOBUTRAZOL	0.4 µg/g	ND	38.200/127.000	PASS
CLOFENTEZINE	0.2 µg/g	ND	21.200/70.800	PASS	PERMETHRIN	0.2 µg/g	ND	39.800/133.000	PASS
CYFLUTHRIN	1 µg/g	ND	40.800/136.000	PASS	PHOSMET	0.2 µg/g	ND	25.200/84.000	PASS
CYPERMETHRIN	1 µg/g	ND	29.200/97.300	PASS	PRALLETHRIN	0.2 µg/g	ND	39.200/131.000	PASS
DAMINOZIDE	1 µg/g	ND	25.200/83.900	PASS	PROPICONAZOLE	0.4 µg/g	ND	42.700/142.000	PASS
DIAZINON	0.2 µg/g	ND	19.600/65.400	PASS	PROPOXUR	0.2 µg/g	ND	12.200/40.800	PASS
DICHLORVOS	1 µg/g	ND	13.200/44.100	PASS	PYRETHRINS	1 µg/g	ND	21.100/70.400	PASS
DIMETHOATE	0.2 µg/g	ND	12.900/43.000	PASS	PYRIDABEN	0.2 µg/g	ND	27.500/91.800	PASS
ETHOPROPHOS	0.2 µg/g	ND	20.100/67.100	PASS	SPINOSAD	0.2 µg/g	ND	6.210/20.700	PASS
ETOFENPROX	0.4 µg/g	ND	15.100/50.500	PASS	SPINOSAD A		ND	6.730/22.400	
ETOXAZOLE	0.2 µg/g	ND	14.300/47.500	PASS	SPINOSAD D		ND	2.540/8.440	
FENOXYCARB	0.2 µg/g	ND	21.100/70.200	PASS	SPIROMESIFEN	0.2 µg/g	ND	15.400/51.400	PASS
FENPYROXIMATE	0.4 µg/g	ND	46.300/154.000	PASS	SPIROTETRAMAT	0.2 µg/g	ND	37.400/125.000	PASS
FIPRONIL	0.4 µg/g	ND	47.500/158.000	PASS	SPIROXAMINE	0.4 µg/g	ND	12.900/43.100	PASS
FLONICAMID	1 µg/g	ND	23.400/78.000	PASS	TEBUCONAZOLE	0.4 µg/g	ND	39.600/132.000	PASS
FLUDIOXONIL	0.4 µg/g	ND	11.600/38.600	PASS	THIACLOPRID	0.2 µg/g	ND	16.300/54.300	PASS
HEXYTHIAZOX	1 µg/g	ND	29.700/99.100	PASS	THIAMETHOXAM	0.2 µg/g	ND	14.400/48.100	PASS
					TRIFLOXYSTROB-IN	0.2 µg/g	ND	19.700/65.800	PASS



COL-027: TOTAL COLIFORMS // SEP 29, 2022

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

STEC-030: SHIGA TOXIN PRODUCING E. COLI // SEP 29, 2022

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

SAL-030: SALMONELLA // SEP 29, 2022

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

ASP-029: ASPERGILLUS SPP. // SEP 29, 2022

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

TYM-014, TYM-028: TOTAL YEAST AND MOLD // SEP 30, 2022

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

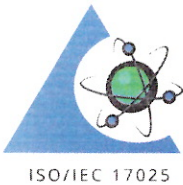
MET-05: HEAVY METALS ANALYSIS BY ICP-MS // SEP 28, 2022

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	0.069 µg/g	0.026/0.500	PASS
CHROMIUM	2 µg/g	0.037 µg/g	0.027/0.500	PASS
COPPER		13.800 µg/g	0.045/0.500	

WATER ACTIVITY // SEP 28, 2022

ANALYTE	LIMIT	AMT (Aw)	PASS/FAIL
WATER ACTIVITY	0.65 Aw	0.564 Aw	

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, FENOXICARB, 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, THIACLOPRID, THIAMETHOXAM, TRIFLOXYSTROBIN

nüvita QUALITY RELEASE

Sensory: N/A

Visual: N/A

Aroma: N/A

Flavor: N/A

Lab Report (COA): PASS

Signature: [Signature] Release Date: 10-3-22

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

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

WATER ACTIVITY
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