CBD Quality Assurance Testing

CERTIFICATE OF ANALYSIS

DATE ISSUED 03/07/2023

SAMPLE NAME: JAN-D T0/C50 15000 Broad Spectrum - 30ml
CBD Oil enriched with CBGC/CBN

CULTIVATOR / MANUFACTURER

Business Name: CanniFex GmbH
License Number: CH-020.1.088.949-6
Address: Zürich, Switzerland

DISTRIBUTOR / TESTED FOR

Business Name: MedGreens GmbH
License Number: CH-020.1.088.949-6
Address: Zürich, Switzerland

SAMPLE DETAIL

Batch Number: CF2301031716
Sample ID:
0166668725962

Date Collected: 03/07/2023
Date Received: 03/07/2023
Batch Size: 50 units
Sample Size: 1.0 units
Unit Mass: 30ml per Unit
Serving Size: 1 ml per Serving

CANNABINOID ANALYSIS - SUMMARY

Total THC: **Not Detected**

Total CBD: **400 mg/Serving**

Sum of Cannabinoids: 500 mg/Serving

Total Cannabinoids: 15000 mg/unit

Total THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during the decarboxylation step:
Total THC = ∆9THC + (THCa (0.877))
Total CBD = CBD + (CBDa (0.877))
Sum of Cannabinoids = ∆9THC + THCa + CBD + CBDa + CBG + CBGa + THCV + THCVa + CBC + CBCa + CBDV + CBDVa + ∆8THC + CBL + CBN
Total Cannabinoids = (∆9THC+0.877*THCa) + (CBD+0.877*CBDa) + (CBG+0.877*CBGa) + (THCV+0.877*THCVa) + (CBC+0.877*CBCa) + (CBDV+0.877*CBDVa) + ∆8THC + CBL + CBN

TERPENOID ANALYSIS - SUMMARY

39 TESTED, TOP 3 HIGHLIGHTED

Total Terpenoids: **0.0217%**

Limonene 0.217 mg/g

SAFETY ANALYSIS - SUMMARY

Pesticides: **PASS**
Mycotoxins: **PASS**
Residual Solvents: **PASS**
Heavy Metals: **PASS**
Microbiology (PCR): **PASS**
Microbiology (Plating): **PASS**
Foreign Material: **PASS**
Water Activity: **PASS**

For quality assurance purposes. Not a Pre-Harvest Hemp Lab Test Report. These results relate only to the sample included on this report. This report shall not be reproduced, except in full, without written approval of the laboratory.

Sample Certification: Action Limits used in this report are a compilation of guidance from state regulatory agencies in all states. Action limits for required tests are either state-specific, or the lower of any conflicting state regulations based upon the panel requested.

Decision Rule: Statements of conformity (e.g. Pass/Fail) to specifications are made in this report without taking measurement uncertainty into account. Where statements of conformity are made in this report, the following decision rules are applied: PASS –Results within limits/specifications, FAIL –Results exceed limits/specifications.

References: limit of detection (LOD), limit of quantification (LOQ), not detected (ND), not tested (NT), too numerous to count >250 cfu/plate (TNTC), colony-forming unit (cfu)

CANNIFEX WOC

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Cannabinoid Analysis

Tested by high-performance liquid chromatography with diode-array detection (HPLC-DAD).

TOTAL THC: **ND**

Total THC (Δ9THC+0.877*THCa)

TOTAL CBD: **12000 mg/unit**

Total CBD (CBD+0.877*CBDa)

TOTAL CANNABINOIDS: 15000 mg/unit

Total Cannabinoids (Total THC) + (Total CBD) + (Total CBG) + (Total THCV) + (Total CBC) + (Total CBDV) + Δ8THC + CBL + CBN

TOTAL CBG: 1500 mg/unit

Total CBG (CBG+0.877*CBGa)

TOTAL THCV: ND

Total THCV (THCV+0.877*THCVa)

TOTAL CBN: 1500 mg/unit

Total CBC (CBN+0.877*CBNa)

TOTAL CBD: 12000 mg/unit

Total CBD (CBD+0.877*CBDa)

CANNABINOID TEST RESULTS - 03/07/2023

COMPOUND	RESULT (mg/ml)	RESULT (%)
CBD	400.412	40.41%
CBG	50.110	5.11%
CBN	50.030	5.03%
CBDV	ND	ND
Δ9THC	ND	ND
Δ8THC	ND	ND
THCa	ND	ND
THCV	ND	ND
THCVa	ND	ND
CBDa	0.030	ND
CBDVa	ND	ND
CBGa	ND	ND
CBL	ND	ND
CBC	0.091	0.09%
CBCa	ND	ND
SUM OF CANNABINOIDS	500.673 mg/ml	50.67%

Unit Mass: 30 ml Unit / Serving Size: 1 ml per Serving

Δ9THC per Unit	0 mg/unit
Δ9THC per Serving	0 mg/serving
Total THC per Unit	0 mg/unit
Total THC per Serving	0 mg/serving
CBD per Unit	12012.360 mg/unit
CBD per Serving	400.412 mg/serving
CBC per Unit	2.730 mg/unit
CBC per Serving	0.091 mg/serving
Sum of Cannabinoids per Unit	15020.190 mg/unit
Sum of Cannabinoids per Serving	500.673 mg/serving
Total Cannabinoids per Unit	**15020.190 mg/unit**
Total Cannabinoids per Serving	**500.673 mg/serving**

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Terpenoid Analysis

TERPENOID TEST RESULTS - 03/07/2023

Terpene analysis utilizing gas chromatography-flame ionization detection (GC-FID).

Limonene

A monoterpene with a fragrance that can be described as orangey, citrusy, sweet and tart. It is most commonly found in nature as D-Limonene and is a primary contributor to the distinct scent of orange peels, from which it is commonly derived. Found in numerous pines, red maple, silver maple, aspens, cottonwoods, hemlocks, sumac, cedar, junipers...etc.

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
Limonene	*0.005 / 0.016*	*± 0.0031*	**0.217**	**0.0217**
α Pinene	*0.005 / 0.017*	*N/A*	**ND**	**ND**
Camphene	*0.005 / 0.015*	*N/A*	**ND**	**ND**
Sabinene	*0.004 / 0.014*	*N/A*	**ND**	**ND**
β Pinene	*0.004 / 0.014*	*N/A*	**ND**	**ND**
Myrcene	*0.008 / 0.025*	*N/A*	**ND**	**ND**
α Phellandrene	*0.006 / 0.020*	*N/A*	**ND**	**ND**
3 Carene	*0.005 / 0.018*	*N/A*	**ND**	**ND**
α Terpinene	*0.005 / 0.017*	*N/A*	**ND**	**ND**
p-Cymene	*0.005 / 0.016*	*N/A*	**ND**	**ND**
Eucalyptol	*0.006 / 0.018*	*N/A*	**ND**	**ND**
Ocimene	*0.011 / 0.038*	*N/A*	**ND**	**ND**
γ Terpinene	*0.006 / 0.018*	*N/A*	**ND**	**ND**
Sabinene Hydrate	*0.006 / 0.022*	*N/A*	**ND**	**ND**
Fenchone	*0.009 / 0.028*	*N/A*	**ND**	**ND**
Terpinolene	*0.008 / 0.026*	*N/A*	**ND**	**ND**
Linalool	*0.009 / 0.032*	*N/A*	**ND**	**ND**
Fenchol	*0.010 / 0.034*	*N/A*	**ND**	**ND**
(-)-Isopulegol	*0.005 / 0.016*	*N/A*	**ND**	**ND**
Camphor	*0.006 / 0.019*	*N/A*	**ND**	**ND**
Isoborneol	*0.004 / 0.012*	*N/A*	**ND**	**ND**
Borneol	*0.005 / 0.016*	*N/A*	**ND**	**ND**
Menthol	*0.008 / 0.025*	*N/A*	**ND**	**ND**
Terpineol	*0.016 / 0.055*	*N/A*	**ND**	**ND**
Nerol	*0.003 / 0.011*	*N/A*	**ND**	**ND**
Citronellol	*0.003 / 0.010*	*N/A*	**ND**	**ND**
R-(+)-Pulegone	*0.003 / 0.011*	*N/A*	**ND**	**ND**
Geraniol	*0.002 / 0.007*	*N/A*	**ND**	**ND**
Geranyl Acetate	*0.004 / 0.014*	*N/A*	**ND**	**ND**
α Cedrene	*0.005 / 0.016*	*N/A*	**ND**	**ND**
β Caryophyllene	*0.004 / 0.012*	*N/A*	**ND**	**ND**
trans-β-Farnesene	*0.008 / 0.025*	*N/A*	**ND**	**ND**
α Humulene	*0.009 / 0.029*	*N/A*	**ND**	**ND**
Valencene	*0.009 / 0.030*	*N/A*	**ND**	**ND**
Nerolidol	*0.009 / 0.028*	*N/A*	**ND**	**ND**
Caryophyllene Oxide	*0.010 / 0.033*	*N/A*	**ND**	**ND**
Guaiol	*0.009 / 0.030*	*N/A*	**ND**	**ND**
Cedrol	*0.008 / 0.027*	*N/A*	**ND**	**ND**
α Bisabolol	*0.008 / 0.026*	*N/A*	**ND**	**ND**
TOTAL TERPENOIDS			**0.217 mg/g**	**0.0217%**

CANNIFEX WOC

CanniFex GmbH / MedGreens GmbH. | Hauptstrasse 19A, 8467 Truttikon Zürich | cannifex.ch / medgreens.ch

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Pesticide Analysis

PESTICIDE TEST RESULTS - 03/07/2023 PASS

Pesticide and plant growth regulator analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS) or gas chromatography-mass spectrometry (GC-MS).

*GC-MS utilized where indicated.

Exclusions[1] see last page

Exclusions[2] see last page

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
Abamectin	0.03 / 0.10	0.3	N/A	ND	PASS
Acephate	0.02 / 0.07	5	N/A	ND	PASS
Acequinocyl	0.02 / 0.07	4	N/A	ND	PASS
Acetamiprid	0.02 / 0.05	5	N/A	ND	PASS
Aldicarb	0.03 / 0.08	≥ LOD	N/A	ND	PASS
Azoxystrobin	0.02 / 0.07	40	N/A	ND	PASS
Bifenazate	0.01 / 0.04	5	N/A	ND	PASS
Bifenthrin	0.02 / 0.05	0.5	N/A	ND	PASS
Boscalid	0.03 / 0.09	10	N/A	ND	PASS
Captan	0.19 / 0.57	5	N/A	ND	PASS
Carbaryl	0.02 / 0.06	0.5	N/A	ND	PASS
Carbofuran	0.02 / 0.05	≥ LOD	N/A	ND	PASS
Chlorantraniliprole	0.04 / 0.12	40	N/A	ND	PASS
Chlordane*	0.03 / 0.08	≥ LOD	N/A	ND	PASS
Chlorfenapyr*	0.03 / 0.10	≥ LOD	N/A	ND	PASS
Chlorpyrifos	0.02 / 0.06	≥ LOD	N/A	ND	PASS
Clofentezine	0.03 / 0.09	0.5	N/A	ND	PASS
Coumaphos	0.02 / 0.07	≥ LOD	N/A	ND	PASS
Cyfluthrin	0.12 / 0.38	1	N/A	ND	PASS
Cypermethrin	0.11 / 0.32	1	N/A	ND	PASS
Daminozide	0.02 / 0.07	≥ LOD	N/A	ND	PASS
DDVP (Dichlorvos)	0.03 / 0.09	≥ LOD	N/A	ND	PASS
Diazinon	0.02 / 0.05	0.2	N/A	ND	PASS
Dimethoate	0.03 / 0.08	≥ LOD	N/A	ND	PASS
Dimethomorph	0.03 / 0.09	20	N/A	ND	PASS
Ethoprop(hos)	0.03 / 0.10	≥ LOD	N/A	ND	PASS
Etofenprox	0.02 / 0.06	≥ LOD	N/A	ND	PASS
Etoxazole	0.02 / 0.06	1.5	N/A	ND	PASS
Fenhexamid	0.03 / 0.09	10	N/A	ND	PASS
Fenoxycarb	0.03 / 0.08	≥ LOD	N/A	ND	PASS
Fenpyroximate	0.02 / 0.06	2	N/A	ND	PASS
Fipronil	0.03 / 0.08	≥ LOD	N/A	ND	PASS
Flonicamid	0.03 / 0.10	2	N/A	ND	PASS
Fludioxonil	0.03 / 0.10	30	N/A	ND	PASS
Hexythiazox	0.02 / 0.07	2	N/A	ND	PASS
Imazalil	0.02 / 0.06	≥ LOD	N/A	ND	PASS
Imidacloprid	0.04 / 0.11	3	N/A	ND	PASS
Kresoxim-methyl	0.02 / 0.07	1	N/A	ND	PASS
Malathion	0.03 / 0.09	5	N/A	ND	PASS
Metalaxyl	0.02 / 0.07	15	N/A	ND	PASS
Methiocarb	0.02 / 0.07	≥ LOD	N/A	ND	PASS

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Pesticide Analysis *Continued*

PESTICIDE TEST RESULTS - 03/07/2023 *continued* PASS

Pesticide and plant growth regulator analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS) or gas chromatography-mass spectrometry (GC-MS).

*GC-MS utilized where indicated.

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
Methomyl	0.03 / 0.10	0.1	N/A	ND	PASS
Methyl parathion	0.03 / 0.10	≥ LOD	N/A	ND	PASS
Mevinphos	0.03 / 0.09	≥ LOD	N/A	ND	PASS
Myclobutanil	0.03 / 0.09	9	N/A	ND	PASS
Naled	0.02 / 0.07	0.5	N/A	ND	PASS
Oxamyl	0.04 / 0.11	0.2	N/A	ND	PASS
Paclobutrazol	0.02 / 0.05	≥ LOD	N/A	ND	PASS
Pentachloronitrobenzene*	0.03 / 0.09	0.2	N/A	ND	PASS
Permethrin	0.04 / 0.12	20	N/A	ND	PASS
Phosmet	0.03 / 0.10	0.2	N/A	ND	PASS
Piperonylbutoxide	0.02 / 0.07	8	N/A	ND	PASS
Prallethrin	0.03 / 0.08	0.4	N/A	ND	PASS
Propiconazole	0.02 / 0.07	20	N/A	ND	PASS
Propoxur	0.03 / 0.09	≥ LOD	N/A	ND	PASS
Pyrethrins	0.04 / 0.12	1	N/A	ND	PASS
Pyridaben	0.02 / 0.07	3	N/A	ND	PASS
Spinetoram	0.02 / 0.07	3	N/A	ND	PASS
Spinosad	0.02 / 0.07	3	N/A	ND	PASS
Spiromesifen	0.02 / 0.05	12	N/A	ND	PASS
Spirotetramat	0.02 / 0.06	13	N/A	ND	PASS
Spiroxamine	0.03 / 0.08	≥ LOD	N/A	ND	PASS
Tebuconazole	0.02 / 0.07	2	N/A	ND	PASS
Thiacloprid	0.03 / 0.10	≥ LOD	N/A	ND	PASS
Thiamethoxam	0.03 / 0.10	4.5	N/A	ND	PASS
Trifloxystrobin	0.03 / 0.08	30	N/A	ND	PASS

Mycotoxin Analysis

MYCOTOXIN TEST RESULTS - 03/07/2023 PASS

Mycotoxin analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS).

Exclusions[3] see last page

COMPOUND	LOD/LOQ (µg/kg)	ACTION LIMIT (µg/kg)	MEASUREMENT UNCERTAINTY (µg/kg)	RESULT (µg/kg)	RESULT
Aflatoxin B1	2.0 / 6.0		N/A	ND	
Aflatoxin B2	1.8 / 5.6		N/A	ND	
Aflatoxin G1	1.0 / 3.1		N/A	ND	
Aflatoxin G2	1.2 / 3.5		N/A	ND	
Total Aflatoxin		20		ND	PASS
Ochratoxin A	6.3 / 19.2	20	N/A	ND	PASS

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Residual Solvents Analysis

RESIDUAL SOLVENTS TEST RESULTS - 03/07/2023 PASS

Residual Solvent analysis utilizing gas chromatography-mass spectrometry (GC-MS).

Exclusions[4] see last page

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
Propane	10 / 20	5000	N/A	ND	PASS
Butane	10 / 50	5000	N/A	ND	PASS
Pentane	20 / 50	5000	N/A	ND	PASS
Hexane	2 / 5	290	N/A	ND	PASS
Heptane	20 / 60	5000	N/A	ND	PASS
Benzene	0.03 / 0.09	1	N/A	ND	PASS
Toluene	7 / 21	890	N/A	ND	PASS
Total Xylenes	50 / 160	2170	N/A	ND	PASS
Methanol	50 / 200	3000	N/A	ND	PASS
Ethanol	20 / 50	5000	N/A	<LOQ	PASS
Isopropyl Alcohol	10 / 40	5000	N/A	ND	PASS
Acetone	20 / 50	5000	N/A	ND	PASS
Ethyl ether	20 / 50	5000	N/A	ND	PASS
Ethylene Oxide	0.3 / 0.8	1	N/A	ND	PASS
Ethyl acetate	20 / 60	5000	N/A	ND	PASS
Chloroform	0.1 / 0.2	1	N/A	ND	PASS
Methylene chloride	0.3 / 0.9	1	N/A	ND	PASS
Trichloroethylene	0.1 / 0.3	1	N/A	ND	PASS
1,2-Dichloroethane	0.05 / 0.1	1	N/A	ND	PASS
Acetonitrile	2 / 7	410	N/A	ND	PASS

Heavy Metals Analysis

HEAVY METALS TEST RESULTS - 03/07/2023 PASS

Heavy metal analysis utilizing inductively coupled plasma-mass spectrometry (ICP-MS).

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
Arsenic	0.02 / 0.1	0.42	N/A	ND	PASS
Cadmium	0.02 / 0.05	0.27	N/A	ND	PASS
Lead	0.04 / 0.1	0.5	N/A	ND	PASS
Mercury	0.002 / 0.01	0.4	N/A	ND	PASS

Microbiology Analysis

PCR AND PLATING

Analysis conducted by polymerase chain reaction (PCR) and fluorescence detection of microbiological contaminants.

MICROBIOLOGY TEST RESULTS (PCR) - 03/07/2023 PASS

COMPOUND	ACTION LIMIT	RESULT	RESULT
Shiga toxin-producing *Escherichia coli*	Not Detected in 1g	ND	PASS
Salmonella spp.	Not Detected in 1g	ND	PASS
Listeria monocytogenes	Not Detected in 1g	ND	PASS

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Microbiology Analysis *Continued*

PCR AND PLATING

Analysis conducted by 3M™ Petrifilm™ and plate counts of microbiological contaminants.

MICROBIOLOGY TEST RESULTS (PLATING) - 03/07/2023 PASS

COMPOUND	ACTION LIMIT (cfu/g)	RESULT (cfu/g)	RESULT
Total Aerobic Bacteria	*100*	ND	PASS
Total Yeast and Mold	*10*	ND	PASS

Foreign Material Analysis

Visual analysis includes, but is not limited to, sand, soil, cinders, dirt, mold, hair, insect fragments, and mammalian excreta.

FOREIGN MATERIAL TEST RESULTS - 05/07/2022 PASS

COMPOUND	ACTION LIMIT	RESULT
Total Sample Area Covered by Sand, Soil, Cinders, or Dirt	*>25%*	PASS
Total Sample Area Covered by Mold	*>25%*	PASS
Total Sample Area Covered by an Imbedded Foreign Material	*>25%*	PASS
Insect Fragment Count	*> 1 per 3 grams*	PASS
Hair Count	*> 1 per 3 grams*	PASS
Mammalian Excreta Count	*> 1 per 3 grams*	PASS

Water Activity Analysis

WATER ACTIVITY TEST RESULTS - 03/07/2023 PASS

COMPOUND	ACTION LIMIT (Aw)	MEASUREMENT UNCERTAINTY (Aw)	RESULT (Aw)	RESULT
Water Activity	*0.86*	*± 0.03422*	0.7026	PASS

NOTES
CoA amended Update: Order Details- Unit mass
All tests and product manufacturing are manufactured and tested in accordance with GMP.

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