Hemp Quality Assurance Testing

CERTIFICATE OF ANALYSIS

DATE ISSUED 08/31/2021

SAMPLE NAME: Tincture - Sleep 4000mg

Infused, Hemp Infused

CULTIVATOR / MANUFACTURER

Business Name:
License Number:
Address:

DISTRIBUTOR / TESTED FOR

Business Name: CBDFX
License Number:
Address: 19851 Nordhoff Pl, #105
Chatsworth CA 91311

SAMPLE DETAIL

Batch Number: MT4000
Sample ID: 210825S023

Date Collected: 08/25/2021
Date Received: 08/25/2021
Batch Size:
Sample Size: 2.0 units
Unit Mass: 120 milliliters per Unit
Serving Size: 1 milliliters per Serving

Scan QR code to verify authenticity of results.

CANNABINOID ANALYSIS - SUMMARY

Total THC: Not Detected

Total CBD: 4839.960 mg/unit

Sum of Cannabinoids: 5885.760 mg/unit

Total Cannabinoids: 5885.760 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 = Δ9THC + (THCa (0.877))
Total CBD = CBD + (CBDa (0.877))
Sum of Cannabinoids = Δ9THC + THCa + CBD + CBDa + CBG + CBGa + THCV + THCVa + CBC + CBCa + CBDV + CBDVa + Δ8THC + CBL + CBN
Total Cannabinoids = (Δ9THC+0.877*THCa) + (CBD+0.877*CBDa) + (CBG+0.877*CBGa) + (THCV+0.877*THCVa) + (CBC+0.877*CBCa) + (CBDV+0.877*CBDVa) + Δ8THC + CBL + CBN

Density: 1.1549 g/mL

SAFETY ANALYSIS - SUMMARY

Pesticides: ND

Mycotoxins: ND

Residual Solvents: ND

Heavy Metals: ND

Microbiology (PCR): ND

Microbiology (Plating): ND

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)

LQC verified by: Randi Vuong
Date: 08/31/2021

Approved by: Josh Wurzer, President
Date: 08/31/2021

Cannabinoid Analysis

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

Method: QSP 1157 - Analysis of Cannabinoids by HPLC-DAD

TOTAL THC: Not Detected
Total THC (Δ9THC+0.877*THCa)

TOTAL CBD: 4839.960 mg/unit
Total CBD (CBD+0.877*CBDa)

TOTAL CANNABINOIDS: 5885.760 mg/unit
Total Cannabinoids (Total THC) + (Total CBD) + (Total CBG) + (Total THCV) + (Total CBC) + (Total CBDV) + Δ8THC + CBL + CBN

TOTAL CBG: 322.440 mg/unit
Total CBG (CBG+0.877*CBGa)

TOTAL THCV: ND
Total THCV (THCV+0.877*THCVa)

TOTAL CBC: ND
Total CBC (CBC+0.877*CBCa)

TOTAL CBDV: 41.640 mg/unit
Total CBDV (CBDV+0.877*CBDVa)

CANNABINOID TEST RESULTS - 08/27/2021

COMPOUND	LOD/LOQ (mg/mL)	MEASUREMENT UNCERTAINTY (mg/mL)	RESULT (mg/mL)	RESULT (%)
CBD	*0.004 / 0.011*	*±1.9320*	40.333	3.4923
CBN	*0.001 / 0.007*	*±0.2096*	5.681	0.4919
CBG	*0.002 / 0.006*	*±0.1671*	2.687	0.2327
CBDV	*0.002 / 0.012*	*±0.0182*	0.347	0.0300
Δ9THC	*0.002 / 0.014*	*N/A*	ND	ND
Δ8THC	*0.01 / 0.02*	*N/A*	ND	ND
THCa	*0.001 / 0.005*	*N/A*	ND	ND
THCV	*0.002 / 0.012*	*N/A*	ND	ND
THCVa	*0.002 / 0.019*	*N/A*	ND	ND
CBDa	*0.001 / 0.026*	*N/A*	ND	ND
CBDVa	*0.001 / 0.018*	*N/A*	ND	ND
CBGa	*0.002 / 0.007*	*N/A*	ND	ND
CBL	*0.003 / 0.010*	*N/A*	ND	ND
CBC	*0.003 / 0.010*	*N/A*	ND	ND
CBCa	*0.001 / 0.015*	*N/A*	ND	ND
SUM OF CANNABINOIDS			49.048 mg/mL	4.2469%

Unit Mass: 120 milliliters per Unit / Serving Size: 1 milliliters per Serving

Δ9THC per Unit	ND
Δ9THC per Serving	ND
Total THC per Unit	ND
Total THC per Serving	ND
CBD per Unit	4839.960 mg/unit
CBD per Serving	40.333 mg/serving
Total CBD per Unit	4839.960 mg/unit
Total CBD per Serving	40.333 mg/serving
Sum of Cannabinoids per Unit	5885.760 mg/unit
Sum of Cannabinoids per Serving	49.048 mg/serving
Total Cannabinoids per Unit	5885.760 mg/unit
Total Cannabinoids per Serving	49.048 mg/serving

DENSITY TEST RESULT

1.1549 g/mL

Tested 08/27/2021

Method: QSP 7870 - Sample Preparation

Pesticide Analysis

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.

Method: QSP 1212 - Analysis of Pesticides and Mycotoxins by LC-MS or QSP 1213 - Analysis of Pesticides by GC-MS

PESTICIDE TEST RESULTS - 08/28/2021 **ND**

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)
Abamectin	*0.03 / 0.10*	*0.3*	*N/A*	ND
Azoxystrobin	*0.01 / 0.04*	*40*	*N/A*	ND
Bifenazate	*0.01 / 0.02*	*5*	*N/A*	ND
Bifenthrin	*0.01 / 0.02*	*0.5*	*N/A*	ND
Boscalid	*0.02 / 0.06*	*10*	*N/A*	ND
Chlorpyrifos	*0.02 / 0.06*	*≥ LOD*	*N/A*	ND
Cypermethrin	*0.1 / 0.3*	*1*	*N/A*	ND
Etoxazole	*0.010 / 0.028*	*1.5*	*N/A*	ND
Hexythiazox	*0.01 / 0.04*	*2*	*N/A*	ND
Imidacloprid	*0.01 / 0.04*	*3*	*N/A*	ND
Malathion	*0.02 / 0.05*	*5*	*N/A*	ND
Myclobutanil	*0.03 / 0.1*	*9*	*N/A*	ND
Permethrin	*0.03 / 0.09*	*20*	*N/A*	ND
Piperonylbutoxide	*0.003 / 0.009*	*8*	*N/A*	ND
Propiconazole	*0.01 / 0.03*	*20*	*N/A*	ND
Spiromesifen	*0.02 / 0.05*	*12*	*N/A*	ND
Tebuconazole	*0.02 / 0.07*	*2*	*N/A*	ND
Trifloxystrobin	*0.01 / 0.03*	*30*	*N/A*	ND

Mycotoxin Analysis

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

Method: QSP 1212 - Analysis of Pesticides and Mycotoxins by LC-MS

MYCOTOXIN TEST RESULTS - 08/28/2021 **ND**

COMPOUND	LOD/LOQ (µg/kg)	ACTION LIMIT (µg/kg)	MEASUREMENT UNCERTAINTY (µg/kg)	RESULT (µg/kg)
Aflatoxin B1	*2.0 / 6.0*	*5*	*N/A*	ND
Aflatoxin B2	*1.8 / 5.6*	*20*	*N/A*	ND
Aflatoxin G1	*1.0 / 3.1*	*20*	*N/A*	ND
Aflatoxin G2	*1.2 / 3.5*	*20*	*N/A*	ND
Total Aflatoxin		*20*		ND
Ochratoxin A	*6.3 / 19.2*	*5*	*N/A*	ND

Residual Solvents Analysis

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

Method: QSP 1204 - Analysis of Residual Solvents by GC-MS

RESIDUAL SOLVENTS TEST RESULTS - 08/28/2021 **ND**

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

Heavy Metals Analysis

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

Method: QSP 1160 - Analysis of Heavy Metals by ICP-MS

HEAVY METALS TEST RESULTS - 08/28/2021 **ND**

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

Microbiology Analysis

PCR AND PLATING

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

Method: QSP 1221 - Analysis of Microbiological Contaminants

MICROBIOLOGY TEST RESULTS (PCR) - 08/31/2021 **ND**

COMPOUND	ACTION LIMIT (cfu/g)	RESULT (cfu/g)
Shiga toxin-producing *Escherichia coli*	*Not Detected in 1g*	ND
Salmonella spp.	*Not Detected in 1g*	ND
Bile-Tolerant Gram-Negative Bacteria	*100*	ND
Staphylococcus aureus	*Not Detected in 1g*	ND

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

Method: QSP 6794 - Plating with 3M™ Petrifilm™

MICROBIOLOGY TEST RESULTS (PLATING) - 08/31/2021 **ND**

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