Hemp Quality Assurance Testing

CERTIFICATE OF ANALYSIS

DATE ISSUED 08/10/2020

SAMPLE NAME: Pure CBD Tincture- 1000mg- Peppermint

Infused, Non-Inhalable

CULTIVATOR / MANUFACTURER

Business Name:
License Number:
Address:

DISTRIBUTOR

Business Name: Terravita CBD
License Number:
Address:

SAMPLE DETAIL

Batch Number:
Sample ID: 200807Q038

Date Collected: 08/07/2020
Date Received: 08/07/2020
Batch Size:
Sample Size: 1.0 Unit(s)
Unit Mass: 30 Milliliters per Unit
Serving Size:

Scan QR code to verify authenticity of results.

CANNABINOID ANALYSIS - SUMMARY

Total THC: 3.180 mg/unit

Total CBD: 1011.360 mg/unit

Sum of Cannabinoids: 1053.030 mg/unit

Total Cannabinoids: 1053.030 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

Moisture: NT

Density: 0.9513 g/mL

Viscosity: NT

SAFETY ANALYSIS - SUMMARY

Δ9THC per Unit: PASS

Pesticides: PASS

Heavy Metals: **NT**

Foreign Material: **NT**

Mycotoxins: **NT**

Microbial Impurities (PCR): **NT**

Water Activity: **NT**

Residual Solvents: **NT**

Microbial Impurities (Plating): **NT**

Vitamin E Acetate: **NT**

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: California Code of Regulations Title 16 Effect Date January 16, 2019. Authority: Section 26013, Business and Professions Code. Reference: Sections 26100, 26104 and 26110, Business and Professions Code.

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)

LQC verified by: Jackson Waite-Himmelwright
Date: 08/10/2020

Approved by: Josh Wurzer, President
Date: 08/10/2020

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: 3.180 mg/unit
Total THC (Δ9THC+0.877*THCa)

TOTAL CBD: 1011.360 mg/unit
Total CBD (CBD+0.877*CBDa)

TOTAL CANNABINOIDS: 1053.030 mg/unit
Total Cannabinoids (Total THC) + (Total CBD) + (Total CBG) + (Total THCV) + (Total CBC) + (Total CBDV) + Δ8THC + CBL + CBN

TOTAL CBG: 6.210 mg/unit
Total CBG (CBG+0.877*CBGa)

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

TOTAL CBC: 1.140 mg/unit
Total CBC (CBC+0.877*CBCa)

TOTAL CBDV: 8.280 mg/unit
Total CBDV (CBDV+0.877*CBDVa)

CANNABINOID TEST RESULTS - 08/10/2020

COMPOUND	LOD/LOQ (mg/mL)	MEASUREMENT UNCERTAINTY (mg/mL)	RESULT (mg/mL)	RESULT (%)
CBD	*0.004 / 0.011*	*±1.6148*	33.712	3.5438
CBN	*0.001 / 0.004*	*±0.0264*	0.716	0.0753
CBDV	*0.002 / 0.007*	*±0.0145*	0.276	0.0290
CBG	*0.002 / 0.005*	*±0.0129*	0.207	0.0218
Δ9THC	*0.002 / 0.005*	*±0.0075*	0.106	0.0111
CBL	*0.003 / 0.008*	*±0.0022*	0.046	0.0048
CBC	*0.003 / 0.010*	*±0.0016*	0.038	0.0040
Δ8THC	*0.01 / 0.02*	*N/A*	<LOQ	<LOQ
THCa	*0.001 / 0.002*	*N/A*	ND	ND
THCV	*0.002 / 0.008*	*N/A*	ND	ND
THCVa	*0.002 / 0.005*	*N/A*	ND	ND
CBDa	*0.001 / 0.003*	*N/A*	ND	ND
CBDVa	*0.001 / 0.003*	*N/A*	ND	ND
CBGa	*0.002 / 0.006*	*N/A*	ND	ND
CBCa	*0.001 / 0.004*	*N/A*	ND	ND
SUM OF CANNABINOIDS			35.101 mg/mL	3.6898%

Unit Mass: 30 Milliliters per Unit

Δ9THC per Unit	*1000.0 per-package limit*	3.180 mg/unit	PASS
Total THC per Unit		3.180 mg/unit	
CBD per Unit		1011.360 mg/unit	
Total CBD per Unit		1011.360 mg/unit	
Sum of Cannabinoids per Unit		1053.030 mg/unit	
Total Cannabinoids per Unit		1053.030 mg/unit	

MOISTURE TEST RESULT

Not Tested

DENSITY TEST RESULT

0.9513 g/mL

Tested 08/10/2020

Method: QSP - (1152) Sample Preparation

VISCOSITY TEST RESULT

Not Tested

Pesticide Analysis

CATEGORY 1 AND 2 PESTICIDES

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

CATEGORY 1 PESTICIDE TEST RESULTS - 08/09/2020 PASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
Aldicarb				NT	
Carbofuran				NT	
Chlordane*				NT	
Chlorfenapyr*				NT	
Chlorpyrifos	*0.02 / 0.06*	*≥ LOD*	*N/A*	**ND**	**PASS**
Coumaphos				NT	
Daminozide				NT	
DDVP (Dichlorvos)				NT	
Dimethoate				NT	
Ethoprop(hos)				NT	
Etofenprox				NT	
Fenoxycarb				NT	
Fipronil				NT	
Imazalil				NT	
Methiocarb				NT	
Methyl parathion				NT	
Mevinphos				NT	
Paclobutrazol				NT	
Propoxur				NT	
Spiroxamine				NT	
Thiacloprid				NT	

CATEGORY 2 PESTICIDE TEST RESULTS - 08/09/2020 PASS

Abamectin	*0.03 / 0.10*	*0.3*	*N/A*	**ND**	**PASS**
Acephate				NT	
Acequinocyl				NT	
Acetamiprid				NT	
Azoxystrobin	*0.01 / 0.04*	*40*	*N/A*	**ND**	**PASS**
Bifenazate	*0.01 / 0.02*	*5*	*N/A*	**ND**	**PASS**
Bifenthrin	*0.01 / 0.02*	*0.5*	*N/A*	**ND**	**PASS**
Boscalid	*0.02 / 0.06*	*10*	*N/A*	**ND**	**PASS**
Captan				NT	
Carbaryl				NT	
Chlorantraniliprole				NT	

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Pesticide Analysis *Continued*

CATEGORY 1 AND 2 PESTICIDES

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

CATEGORY 2 PESTICIDE TEST RESULTS - 08/09/2020 *continued* ✓ PASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
Clofentezine				NT	
Cyfluthrin				NT	
Cypermethrin	*0.1 / 0.3*	*1*	*N/A*	**ND**	**PASS**
Diazinon				NT	
Dimethomorph				NT	
Etoxazole	*0.010 / 0.028*	*1.5*	*N/A*	**ND**	**PASS**
Fenhexamid				NT	
Fenpyroximate				NT	
Flonicamid				NT	
Fludioxonil				NT	
Hexythiazox	*0.01 / 0.04*	*2*	*N/A*	**ND**	**PASS**
Imidacloprid	*0.01 / 0.04*	*3*	*N/A*	**ND**	**PASS**
Kresoxim-methyl				NT	
Malathion	*0.02 / 0.05*	*5*	*N/A*	**ND**	**PASS**
Metalaxyl				NT	
Methomyl				NT	
Myclobutanil	*0.03 / 0.1*	*9*	*N/A*	**ND**	**PASS**
Naled				NT	
Oxamyl				NT	
Pentachloronitrobenzene*				NT	
Permethrin	*0.03 / 0.09*	*20*	*N/A*	**ND**	**PASS**
Phosmet				NT	
Piperonylbutoxide	*0.003 / 0.009*	*8*	*N/A*	**<LOQ**	**PASS**
Prallethrin				NT	
Propiconazole	*0.01 / 0.03*	*20*	*N/A*	**ND**	**PASS**
Pyrethrins				NT	
Pyridaben				NT	
Spinetoram				NT	
Spinosad				NT	
Spiromesifen	*0.02 / 0.05*	*12*	*N/A*	**ND**	**PASS**
Spirotetramat				NT	
Tebuconazole	*0.02 / 0.07*	*2*	*N/A*	**ND**	**PASS**
Thiamethoxam				NT	
Trifloxystrobin	*0.01 / 0.03*	*30*	*N/A*	**ND**	**PASS**