

### Upland Hemp 500mg CBD Tincture (115646)



#### Virag Distribution, LLC

700 S. Rosemary Ave, #204  
West Palm Beach, FL 33401  
virag.bio

**Order ID#:** 20200713-29  
**Lab Code#:** LC-20200713-58  
**Product Type:** Tincture  
**Lot/Batch:** 115646  
**Unit size (mL):** 30

**Sample date:** 10-Jul-2020  
**Sample received:** 13-Jul-2020  
**Completed:** 17-Jul-2020  
**Report expires:** 17-Jul-2021

### SAFETY ANALYSIS

<b>PASS</b> Microbials	<b>PASS</b> Mycotoxins	<b>PASS</b> Metals	<b>PASS</b> Pesticides	<b>PASS</b> Solvents
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### CANNABINOIDS

**Analysis Batch:** WO-20071309  
**Analysis Date:** Tuesday, July 14, 2020

**Test Method:** SOP 6.9  
**Instrument:** Agilent HPLC, Instrument 33

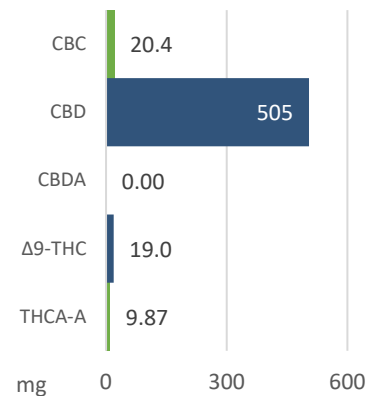
Analyte	% <sup>a</sup>	mg/g	mg/unit
THCA-A	0.0329	0.329	9.87
Δ9-THC	0.063	0.63	19.0
CBDA	ND	ND	ND
CBD	1.68	16.829	505
CBN	ND	ND	ND
CBDV	ND	ND	ND
Δ8-THC	ND	ND	ND
THCV	ND	ND	ND
CBG	ND	ND	ND
CBGA	ND	ND	ND
CBC	0.068	0.68	20.4
<b>Total:</b>	<b>1.85</b>	<b>18.5</b>	<b>554</b>

**Total THC<sup>b</sup>**  
0.092%  
**PASS**

**Total CBD<sup>c</sup>**  
505 mg

**TOTAL<sup>d</sup>**  
554 mg

#### Profile (mg/unit)



<sup>a</sup> Detection Level = 0.03% by dry-weight.

<sup>b</sup> Total THC is calculated as %THC + (%THCA × 0.877).

<sup>c</sup> Total CBD is calculated as CBD + (CBDA × 0.877).

<sup>d</sup> Absolute sum of all cannabinoids above the level of detection.

#### Comments:

None.

#### Authorization



YoungChul Park, Ph.D., Laboratory Director  
Approval Date: 17-Jul-2020

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### MICROBIAL CONTAMINANTS

**Analysis Batch:** WO-20071307      **Test Method:** SOP 6.11  
**Analysis Date:** Tuesday, July 14, 2020      **Instrument:** Agilent AriaMX, Instrument 38

TEST	RESULT	SPECIFICATION
Shiga toxin-producing E.coli (STEC)	Pass	Not present
Escherichia coli (E. coli)	Pass	Not present
Salmonella	Pass	Not present
Listeria	Pass	Not present

### MYCOTOXINS

**Analysis Batch:** WO-20071308      **Test Method:** SOP 6.7  
**Analysis Date:** Tuesday, July 14, 2020      **Instrument:** Agilent LC-MS/MS, Instrument 32

ANALYTE	RESULT	ACTION LIMIT	LOD	UNIT
Aflatoxin, Total	ND	0.020	0.005	µg/g
Ochratoxin A	ND	0.020	0.005	µg/g

\* Total Aflatoxin includes B1, B2, G1 and G2.

### HEAVY METALS

**Analysis Batch:** WO-20071306      **Test Method:** SOP 6.10  
**Analysis Date:** Wednesday, July 15, 2020      **Instrument:** Agilent ICP/MS, Instrument 37

ELEMENT	RESULT	ACTION LIMIT	LOD	UNIT
Lead	ND	0.50	0.050	µg/g
Arsenic	ND	1.5	0.050	µg/g
Mercury	ND	3.0	0.005	µg/g
Cadmium	ND	0.50	0.050	µg/g

#### Comments:

None.

#### Authorization



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### PESTICIDES

**Analysis Batch:** WO-20071308  
**Analysis Date:** Tuesday, July 14, 2020

**Test Method:** SOP 6.7  
**Instrument:** Agilent LC-MS/MS, Instrument 32

Analyte	Action Level	Result (µg/g)
Abamectin	0.30	ND
Acephate	3.00	ND
Acequinocyl	2.00	ND
Acetamiprid	3.00	ND
Aldicarb	0.10	ND
Azoxystrobin	3.00	ND
Bifenazate	3.00	ND
Carbaryl	0.50	ND
Carbofuran	0.10	ND
Chlorantraniliprole	3.00	ND
Chlorfenapyr	0.05	ND
Chlorpyrifos	0.10	ND
Coumaphos	0.10	ND
Cypermethrin	1.00	NT
Daminozide	0.10	ND
Diazinon	0.20	ND
Dichlorvos	0.10	ND
Dimethoate	0.10	ND
Dimethomorph (I/II)	3.00	ND
Ethoprophos	0.10	ND
Etofenprox	0.10	ND
Etoxazole	1.50	ND
Fenhexamid	3.00	ND
Fenoxycarb	0.10	ND
Fenpyroximate	2.00	ND
Fipronil	0.10	ND
Flonicamid	2.00	ND
Fludioxonil	3.00	ND

Analyte	Action Level	Result (µg/g)
Hexythiazox	2.00	ND
Imazalil	0.10	ND
Imidacloprid	1.00	ND
Kresoxim methyl	1.00	ND
Malathion	3.00	ND
Metalaxyl	0.10	ND
Methiocarb	0.10	ND
Methomyl	0.10	ND
Mevinphos (I/II)	0.10	ND
Myclobutanil	3.00	ND
Naled	0.50	ND
Oxamyl	1.50	ND
Phosmet	0.20	ND
Piperonyl butoxide	3.00	ND
Prallethrin	0.40	ND
Propiconazole	1.00	ND
Propoxur	2.10	ND
Pyrethrins	1.00	ND
Pyridaben	3.00	ND
Spinetoram (J/L)	3.00	ND
Spinosad A + D	3.00	ND
Spiromesifen	3.00	ND
Spirotetramat	3.00	ND
Spiroxamine (I/II)	0.10	ND
Tebuconazole	1.00	ND
Thiacloprid	0.10	ND
Thiamethoxam	1.00	ND
Trifloxystrobin	3.00	ND

#### Comments:

None.

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## RESIDUAL SOLVENTS

**Analysis Batch:** WO-20071310  
**Analysis Date:** Tuesday, July 14, 2020

**Test Method:** SOP 6.8  
**Instrument:** Agilent GC-FID/MS, Instrument 36

Analyte	Action Level	Result (µg/g)
1,2-Dichloroethane	5	ND
Acetone	5000	ND
Acetonitrile	410	ND
Benzene	2	ND
Butane	2000	ND
Chloroform	60	ND
Ethanol	5000	ND
Ethyl Acetate	5000	ND
Ethyl Ether	5000	ND
Ethylene Oxide	5	ND

Analyte	Action Level	Result (µg/g)
Heptane	5000	ND
Hexane	290	ND
Isopropyl Alcohol	500	ND
Methanol	3000	ND
Methylene Chloride	600	ND
Pentane	5000	ND
Propane	2100	ND
Toluene	890	ND
Trichloroethylene	80	ND
Xylenes, Total	2170	ND

### Comments:

None.

### Authorization



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