

NA=Not Available or Applicable, ND=Not Detected, NT=Not Tested, ppm=Parts Per Million, ppb=Parts Per Billion. Limit of Detection (LOD) and Limit of Quantitation (LOQ) are terms used to describe the smallest concentration that can be reliably measured by an analytical procedure.

- continued -



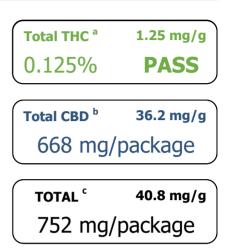


## **Certificate of Analysis** R&D

LC-20210812-2822

### **CANNABINOIDS**

Analyte	%	mg/g	mg/serving	mg/package
THCA-A	ND	ND	ND	ND
Δ9-THC	0.125	1.248	0.7671	23.01
CBDA	ND	ND	ND	ND
CBD	3.62	36.22	22.27	668.2
CBN	ND	ND	ND	ND
CBDV	0.0400	0.3997	0.2458	7.373
Δ8-THC	ND	ND	ND	ND
THCV	ND	ND	ND	ND
CBG	0.135	1.350	0.8304	24.91
CBGA	ND	ND	ND	ND
CBC	0.154	1.541	0.9478	28.43
Total:	4.076	40.76	25.07	751.97
Analysis Batch:		WO-21081215A		<sup>a</sup> Total THC is calculated
Analysis Date:		Wednesday, Augu	st 18, 2021	<sup>b</sup> Total CBD is calculated



as THC + (THCA × 0.877).

Total CBD is calculated as CBD + (CBDA × 0.877).

<sup>c</sup> Total cannabinoids is the absolute sum of all cannabinoids above the level of detection.

## Instrument: **TERPENES**

Test Method:

Analyte	Result (µg/g)	Result (%)
a-Bisabolol	5.150	0.00052
a-Humulene	22.18	0.00222
a-Pinene	1.250	0.00013
a-Terpinene	ND	ND
β-Caryophyllene	1415	0.14148
β-Myrcene	2.050	0.00021
β-Ocimene 1	0.3700	0.00004
β-Ocimene 2	ND	ND
β-Pinene	0.9600	0.00010
Camphene	ND	ND
Caryophyllene-oxide	6.400	0.00064
δ-3-Carene	ND	ND

SOP 6.6 (HPLC)

Agilent HPLC Instrument 33

Analyte	Result (µg/g)	Result (%)
D-Limonene	0.6500	0.00007
Eucalyptol	ND	ND
γ-Terpinene	0.9700	0.00010
Geraniol	159.5	0.01595
Guaiol	7.600	0.00076
Isopulegol	ND	ND
Linalool	ND	ND
Nerolidol 1	11.35	0.00114
Nerolidol 2	ND	ND
p-Cymene	0.1500	0.00002
Terpinolene	ND	ND
Total Terpenes:	1633.43	0.1633

SOP 6.9

LOD = 0.0002%

**Analysis Batch: Analysis Date:** 

WO-21081221 Friday, August 13, 2021



**Test Method:** 

Instrument:

Agilent GC-FID/MS, Instrument 36

#### **Comments:**

None.

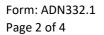


Steven Perez, Laboratory Director Approval Date: 25-Aug-2021

Test results are based solely upon the test article sumitted to Americanna Laboratories, LLC in the condition it was received. Americanna Laboratories, LLC warrants that all analytical work was conducted in a professional manner in accordance with the requirements of ISO/IEC 17025:2017 (#102139), such as comparison to Certified Reference Materials and NIST traceable Reference Standards. This report shall not be reproduced, except in its entirety, without the written approval of Americanna Laboratories, LLC. Test results are confidential unless explicitly waived. Void after 1 year from test end date.

NA=Not Available or Applicable, ND=Not Detected, NT=Not Tested, ppm=Parts Per Million, ppb=Parts Per Billion. Limit of Detection (LOD) and Limit of Quantitation (LOQ) are terms used to describe the smallest concentration that can be reliably measured by an analytical procedure

- continued -



11757 Central Parkway | Jacksonville, FL 32224 (904) 549-5948 | www.americannalaboratories.com





# **Certificate of Analysis** R&D

LC-20210812-2822

### PESTICIDES

Analyte	Action Level	Result (µg/g)
Abamectin	0.30	ND - Pass
Acephate	3.00	ND - Pass
Acequinocyl	2.00	ND - Pass
Acetamiprid	3.00	ND - Pass
Aldicarb	0.10	ND - Pass
Azoxystrobin	3.00	ND - Pass
Bifenazate	3.00	ND - Pass
Bifenthrin*	0.50	ND - Pass
Boscalid*	3.00	ND - Pass
Captan	3.00	ND - Pass
Carbaryl	0.50	ND - Pass
Carbofuran	0.10	ND - Pass
Chlorantraniliprole	3.00	ND - Pass
Chlordane*	0.10	ND - Pass
Chlorfenapyr	0.05	ND - Pass
Chlormequat chloride	3.00	ND - Pass
Chlorpyrifos*	0.10	ND - Pass
Clofentezine	0.50	ND - Pass
Coumaphos	0.10	ND - Pass
Cyfluthrin*	1.00	ND - Pass
Cypermethrin*	1.00	ND - Pass
Daminozide	0.10	ND - Pass
Diazinon	0.20	ND - Pass
Dichlorvos	0.10	ND - Pass
Dimethoate	0.10	ND - Pass
Dimethomorph (I/II)	3.00	ND - Pass
Ethoprophos	0.10	ND - Pass
Etofenprox	0.10	ND - Pass
Etoxazole	1.50	ND - Pass
Fenhexamid	3.00	ND - Pass
Fenoxycarb	0.10	ND - Pass
Fenpyroximate	2.00	ND - Pass
Fipronil	0.10	ND - Pass
Flonicamid	2.00	ND - Pass

WO-21081301

Tuesday, August 17, 2021

Tuesday, August 17, 2021

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

\* Denotes analysis by GC-MS/MS

Test Method:
Instrument:
Instrument:

SOP 6.7 Agilent LC-MS/MS, Instrument 32 Agilent GC-MS/MS, Instrument 34

## Analysis Date (GC): MYCOTOXINS

Analysis Batch: Analysis Date (LC):

Analyte	Action Limit	Result	Report	LOD	Unit
Aflatoxin, Total	0.020	ND	Pass	0.005	µg/g
Ochratoxin A	0.020	ND	Pass	0.005	µg/g
* Total Aflatoxin includes B1	, B2, G1 and G2.				
Analysis Batch:	WO-21081301		Test Method:	SOP 6.7	
Analysis Date:	Tuesday, August 17, 2	2021	Instrument:	Agilent LC-MS/MS, II	nstrument 32
Comments:			Authorization		
Comments: None.		HE WANCE DERING	Authorization		
				Steven Perez, Lab	oratory Director

Reference Standards. This report shall not be reproduced, except in its entirety, without the written approval of Americanna Laboratories, LLC. Test results are confidential unless explicitly waived. Void after 1 year from test end date.

NA=Not Available or Applicable, ND=Not Detected, NT=Not Tested, ppm=Parts Per Million, ppb=Parts Per Billion. Limit of Detection (LOD) and Limit of Quantitation (LOQ) are terms used to describe the smallest concentration that can be reliably measured by an analytical procedure.

- continued -

11757 Central Parkway | Jacksonville, FL 32224 (904) 549-5948 | www.americannalaboratories.com





# **Certificate of Analysis** R&D

LC-20210812-2822

### **RESIDUAL SOLVENTS**

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

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

 $LOD = 20 \mu g/g$ 

**Analysis Batch: Analysis Date:** 

WO-21081219 Sunday, August 15, 2021 **Test Method:** Instrument:

SOP 6.8 Agilent GC-FID/MS, Instrument 36

#### **MICROBIAL CONTAMINANTS**

Test		Report	Result	Specification	Unit
Shiga toxin-producing E.coli (STEC)		Pass	Absent	Report	per 1 gram
Salmonella		Pass	Absent	Report	per 1 gram
Listeria		Pass	Absent	Report	per 1 gram
Analysis Batch:	WO-21081216		Test Method:	SOP 6.11 (gPCR)	

Analysis Date:

Friday, August 13, 2021

st Method: Instrument:

SOP 6.11 (qPCR) Agilent AriaMX, Instrument 43

#### **HEAVY METALS**

Element	Report	Result	Action Limit	LOD	Unit
Lead	Pass	ND	0.50	0.050	µg/g
Arsenic	Pass	ND	1.5	0.050	µg/g
Mercury	Pass	0.022	3.0	0.005	µg/g
Cadmium	Pass	ND	0.50	0.050	µg/g
Analysis Batch:	WO-21081217		Test Method:	SOP 6.10	
Analysis Date:	Tuesday, August 17, 2021		Instrument:	Agilent ICP/MS	, Instrument 37

#### **Comments:**

None.



Steven Perez, Laboratory Director Approval Date: 25-Aug-2021

Test results are based solely upon the test article sumitted to Americanna Laboratories, LLC in the condition it was received. Americanna Laboratories, LLC warrants that all analytical work was conducted in a professional manner in accordance with the requirements of ISO/IEC 17025:2017 (#102139), such as comparison to Certified Reference Materials and NIST traceable Reference Standards. This report shall not be reproduced, except in its entirety, without the written approval of Americanna Laboratories, LLC. Test results are confidential unless explicitly waived. Void after 1 year from test end date.

NA=Not Available or Applicable, ND=Not Detected, NT=Not Tested, ppm=Parts Per Million, ppb=Parts Per Billion. Limit of Detection (LOD) and Limit of Quantitation (LOQ) are terms used to describe the smallest concentration that can be reliably measured by an analytical procedure.

- end of report -

