

**Report To:****ADVANCED GROW LABS****Attn: Elaine Loneragan****400 Frontage Rd****West Haven, CT 06516**Date Received: **08/14/2019**Date Tested: **08/14/2019**Laboratory Report#: **N1978536-01**E-Mail: elonergan@adancedgrowlabs.comReport Date: **09/04/2019**

<u>Sample Site:</u>	ADVANCED GROW LABS • 400 FRONTAGE RD., WEST HAVEN CT		
<u>Date Collected:</u>	08/14/2019 11:13	Collected by: W. Clark of NELabs	
<u>Laboratory ID #:</u>	<u>1978536-01</u>		
<u>Product Description:</u>	MAC-F9H6-190812-O		

Parameter	Result	Units	Recommended Limits *	
Total Aerobic Microbial Count	<100	per gram	PASS	100,000
Total Yeast & Mold Count	<100	per gram	PASS	10,000
Bile Tolerant Gram Negative Bacteria	<100	per gram	PASS	1,000
Coliform	<100	per gram	PASS	1,000
Enteropathogenic E.coli	Not Detected	per gram	PASS	Not Detected
Salmonella species	Not Detected	per gram	PASS	Not Detected

*** RECOMMENDED LIMITS:** per American Herbal Pharmacopoeia (2013)**PASS =** Product meets Microbial and Fungal Recommended Limits
per American Herbal Pharmacopoeia (2013)**METHODS:** USP 2021, USP 2022, FDA-BAM, AOAC 996.09**Comments:**

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 08/14/2019

Approved By:

Alan C. Johnson, Laboratory Director

**Report To:****ADVANCED GROW LABS****Attn: Elaine Loneragan****400 Frontage Rd****West Haven, CT 06516****Date Received: 08/14/2019****Date Tested: 08/19 – 08/22 2019****Laboratory Report#: N1978536-01****E-Mail: elonergan@adancedgrowlabs.com****Report Date: 09/04/2019**

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HEAVY METALS:				
Parameter	Result	Units		Limits
Arsenic, Total	<0.0005	µg/kg BW/day	PASS	<0.14
Cadmium, Total	<0.002	µg/kg BW/day	PASS	<0.09
Lead, Total	<0.002	µg/kg BW/day	PASS	<0.29
Mercury, Total	<0.005	µg/kg BW/day	PASS	<0.29

Daily Dose: 1 gram**Body Weight: 50 kilograms****METHODS: USP <232> and <233> (Modified)****AOAC 986.15, 935.50, 971.21****FCC 7, Appendix 3****LIMITS: per American Herbal Pharmacopoeia (2013)****PASS = Product meets Heavy Metals Recommended Limits
per American Herbal Pharmacopoeia (2013)****Comments:**

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TERPENES (% Dry Weight)	Result	Units
a-pinene	0.10	%
b-pinene	0.22	%
b-myrcene	0.21	%
limonene	0.32	%
ocimene	0.24	%
linalool	0.26	%
b-caryophyllene	1.28	%
humulene	0.26	%
a-bisabolol	0.31	%

Residual Alcohol	0.26	%
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METHODS: GC, GC/MS**Comments:**

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PESTICIDES LC (MS/MS)				
Parameter	Result	Units		Limits
Bifenazate	<0.01	mg/kg	PASS	6
Bifenthrin	<0.01	mg/kg	PASS	12
Cyfluthrin	<0.01	mg/kg	PASS	12
Etoxazole	<0.01	mg/kg	PASS	24
Imazalil	<0.01	mg/kg	PASS	6
Imidacloprid	<0.01	mg/kg	PASS	36
Myclobutanil	<0.01	mg/kg	PASS	18
Pyrethrum	<0.01	mg/kg	PASS	3
Spiromesifen	<0.01	mg/kg	PASS	15
Trifloxystrobin	<0.01	mg/kg	PASS	60

LOQ = 1.0 µg/kg LOD = 0.1 µg/kg

METHODS: LC – MS/MS (Restek Method)**LIMITS:** per FAO - WHO**Comments:**

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MYCOTOXINS				
Parameter	Result	Units		Limits
<i>Method: USP 561-II</i>				
Aflatoxin B1	<5	µg/kg	PASS	5
Aflatoxin B2	<5	µg/kg	PASS	5
Aflatoxin G1	<5	µg/kg	PASS	5
Aflatoxin G2	<5	µg/kg	PASS	5
<i>Method: USP 561-II (Mod)</i>				
Ochratoxin-A	<5	µg/kg	PASS	5

METHODS: USP <561>

Articles of Botanical Origin: Aflatoxins Method 2 (modified for Ochratoxin)

LIMITS: per American Herbal Pharmacopoeia (2013)**Comments:**

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<u>CANNABINOIDS (% weight)</u>	<u>Result</u>	<u>Units</u>
THCA	<0.1	% weight
THC	75.54	% weight
CBDA	<0.1	% weight
CBD	<0.1	% weight
CBGA	<0.1	% weight
CBG	2.96	% weight
CBN	2.08	% weight
CBC	<0.1	% weight

METHODS: HPLCComments:

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CANNABINOIDS (mg per 300mg)	Result	Units
THCA	<0.30	mg per 300mg
THC	226.62	mg per 300mg
CBDA	<0.30	mg per 300mg
CBD	<0.30	mg per 300mg
CBGA	<0.30	mg per 300mg
CBG	8.88	mg per 300mg
CBN	6.24	mg per 300mg
CBC	<0.30	mg per 300mg

METHODS: HPLC

Comments:

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CANNABINOIDS (mg per 420mg)	Result	Units
THCA	<0.42	mg per 420mg
THC	312.27	mg per 420mg
CBDA	<0.42	mg per 420mg
CBD	<0.42	mg per 420mg
CBGA	<0.42	mg per 420mg
CBG	12.43	mg per 420mg
CBN	8.74	mg per 420mg
CBC	<0.42	mg per 420mg

METHODS: HPLC

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CANNABINOIDS (mg per 500mg)	Result	Units
THCA	<0.50	mg per 500mg
THC	377.70	mg per 500mg
CBDA	<0.50	mg per 500mg
CBD	<0.50	mg per 500mg
CBGA	<0.50	mg per 500mg
CBG	14.80	mg per 500mg
CBN	10.40	mg per 500mg
CBC	<0.50	mg per 500mg

METHODS: HPLC

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CANNABINOIDS (mg per 1,000mg)	Result	Units
THCA	<1.00	mg per 1,000mg
THC	755.40	mg per 1,000mg
CBDA	<1.00	mg per 1,000mg
CBD	<1.00	mg per 1,000mg
CBGA	<1.00	mg per 1,000mg
CBG	29.60	mg per 1,000mg
CBN	20.80	mg per 1,000mg
CBC	<1.00	mg per 1,000mg

METHODS: HPLC

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