Analytical Report

Report To:
Curaleaf LLC
Attn: Todd Levy
100 Grist Mill
Simsbury, CT 06070

E-Mail: todd@curaleaf.com

Date Received: **7/05/2017**
Date Tested: **7/06/2017**
Laboratory Report#: N1770619-01

Report Date: **07/13/2017**

Sample Site:	**CURALEAF** • **100 GRIST MILL RD, SIMSBURY CT**
Date Collected:	**07/05/2017 14:45 Collected by: C. Appell of NELabs**
Laboratory ID #:	**1770619 – 01**
Product Description:	**1706072F – HZ**

Parameter	Result	Units		Recommended Limits *
Total Aerobic Microbial Count	250	per gram	PASS	100,000
Total Yeast & Mold Count	300	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: 7/05/2017

Approved By:
Alan C. Johnson, Laboratory Director

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Date Received: **7/05/2017**
Date Tested: **7/12 – 7/13 2017**
Laboratory Report#: N1770619-01

Report Date: **07/13/2017**

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Date Collected:	**07/05/2017 14:45 Collected by: C. Appell of NELabs**
Laboratory ID #:	**1770619 – 01**
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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)

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TERPENES (% Dry Weight)	**Result**	**Units**
a-pinene	---	%
b-pirene	---	%
b-myrcene	0.04	%
limonene	---	%
ocimene	---	%
linalool	---	%
b-caryophyllene	0.27	%
humulene	0.38	%

METHODS: **GC, GC/MS**

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PESTICIDES LC (MS/MS)

Parameter	Result	Units		Limits
Abamectin	<0.01	mg/kg	PASS	15
Acequinocyl	<0.01	mg/kg	PASS	14
Azadiractin	<0.01	mg/kg	PASS	60
Bifenazate	<0.01	mg/kg	PASS	6
Bifenthrin	<0.01	mg/kg	PASS	12
Chlormequat Chloride	<0.01	mg/kg	PASS	30
Cyfluthrin	<0.01	mg/kg	PASS	12
Daminozide	<0.01	mg/kg	PASS	270
Etoxazole	<0.01	mg/kg	PASS	24
Fenoxycarb	<0.01	mg/kg	PASS	32
Imazalil	<0.01	mg/kg	PASS	6
Imidacloprid	<0.01	mg/kg	PASS	36
Myclobutanil	<0.01	mg/kg	PASS	18
Paclobutrazol	<0.01	mg/kg	PASS	13
Pyrethrum	<0.01	mg/kg	PASS	3
Spinosad	<0.01	mg/kg	PASS	12
Spiromesifen	<0.01	mg/kg	PASS	15
Spirotetramat	<0.01	mg/kg	PASS	30
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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Laboratory Report#: N1770619-01

Report Date: **07/13/2017**

Sample Site:	**CURALEAF** • **100 GRIST MILL RD, SIMSBURY CT**
Date Collected:	**07/05/2017 14:45 Collected by: C. Appell of NELabs**
Laboratory ID #:	**1770619 – 01**
Product Description:	**1706072F – HZ**

MYCOTOXINS

Parameter	Result	Units		Limits
Method: USP 561-II				
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
Method: USP 561-II (Mod)				
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)

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CANNABINOIDS (% weight)	Result	Units
CBDV	----	% weight
CBDA	----	% weight
CBGA	1.29	% weight
CBG	----	% weight
CBD	----	% weight
THCV	----	% weight
CBN	----	% weight
THC	0.53	% weight
CBC	----	% weight
THCA	22.84	% weight

METHODS: **HPLC**

Comments:
- Results are based on an average of 5 samples (A-B-C-D-E) submitted to Northeast Laboratories, Inc. on: 7/05/2017.

Approved By:
Alan C. Johnson, Laboratory Director