



Report To:
Curaleaf LLC
Attn: David Haley
100 Grist Mill
Simsbury, CT 06070

Date Received: **02/12/2018**
Date Tested: **02/12 & 02/13 2018**
Laboratory Report#: **N1873007-01**

E-Mail: david@curaleaf.com

Report Date: **02/19/2018**

<u>Sample Site:</u>	CURALEAF • 100 GRIST MILL RD, SIMSBURY CT		
<u>Date Collected:</u>	02/12/2018	9:15	Collected by: C. Appell of NELabs
<u>Laboratory ID #:</u>	<u>1873007-01</u>		
<u>Product Description:</u>	1801020F-SC		

Parameter	Result	Units	Recommended Limits	
Total Aerobic Microbial Count	49,000	per gram	PASS	100,000
Total Yeast & Mold Count	1,200 *	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, AltaSci E.coli (pathogenic strains) Salmonella spp.

Comments:

- Results are based on a sample submitted to Northeast Laboratories, Inc. on: 02/12/2018
- Bacillus species growing on yeast and mold plates, not included in passing total above, as organisms were not yeasts or molds.
- ** Enteropathic E.coli and Salmonella Species tested by AltaSci Labs, 1 Hartford Square, New Britain CT.


Approved By:
Alan C. Johnson, Laboratory Director



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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	0.24	%
b-pinene	0.07	%
b-myrcene	0.45	%
limonene	0.13	%
ocimene	---	%
linalool	---	%
b-caryophyllene	0.46	%
humulene	0.16	%

METHODS: GC, GC/MS**Comments:**

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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

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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)

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<u>CANNABINOIDS (% weight)</u>	<u>Result</u>	<u>Units</u>
CBDV	----	% weight
CBDA	----	% weight
CBGA	1.23	% weight
CBG	----	% weight
CBD	----	% weight
THCV	----	% weight
CBN	----	% weight
THC	0.60	% weight
CBC	----	% weight
THCA	27.80	% weight

METHODS: HPLC**Comments:**

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